

WORLD METEOROLOGICAL ORGANIZATION
COMMISSION FOR BASIC SYSTEMS
OPAG ON INTEGRATED OBSERVING SYSTEMS
EXPERT TEAM ON
OBSERVATIONAL DATA REQUIREMENTS AND
REDESIGN OF THE GLOBAL OBSERVING SYSTEM
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**REVIEW OF OBSERVING SYSTEM CAPABILITIES AND
USER REQUIREMENTS**

(Submitted by the Secretariat)

Summary and Purpose of Document

The purpose of this document is to inform the Expert Team members of the latest list of expected observational performances and data requirements.

ACTION PROPOSED

The Expert Team members are invited to review expected observational performances and propose updates as appropriate.

- Appendices:**
- A. User Estimates of Observing System Performances
 - B. WMO requirements without match in user estimates but with a match in space agency estimates
 - C. WMO Observational Data Requirements
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DISCUSSION

1. The ET-ODRRGOS has followed the Rolling Review of Requirements Process whereby observational requirements have been compared to user estimates of expected observational performances. The last full review of the user estimates of expected observational performances found in the CEOS/WMO database was performed in 2001. Since 2001, many new user estimates of expected performances have been added to the database especially for *in situ* systems including the GCOS Surface and Upper Air Networks.
 2. Appendix A is the present list of user estimates of expected observing system performances sorted by user requirements (alphabetically). It is anticipated that the meeting will review, update and/or validate all the expected performances found in Appendix A. For in situ systems, expected performances are shown for each of the 34 homogeneous areas developed by the Expert Team.
 3. For satellite instruments only, it should be noted that the database contains two sets of expected performances: space agencies; and user (provided by the Expert Team on Observational Data Requirements and Redesign of the Global Observing System [ET-ODRRGOS]). While in the Rolling Review of Requirements process only WMO (user) provided estimates are utilized, there are several requirements for which no expected performances exist in the WMO (user) estimates, whereas estimates do exist from the space agency. A list of WMO requirements that have no corresponding user estimates but for which there are space agency estimates of satellite system performances is contained in Appendix B. Appendix B may serve the Expert Team as a guide in developing new user estimates.
 4. Appendix C contains the latest set of WMO Observational Data Requirements to GCOS.
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APPENDIX A

USER ESTIMATES OF OBSERVING SYSTEM PERFORMANCES

User estimates of instrument performances

30-Jun-04

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
AATSR	Cloud cover		15 km		10 % (Max)	36 h	3 h		Potential expected
AATSR	Cloud imagery		1 km			36 h	3 h		Potential expected
AATSR	Cloud type		15 km		8 classes	36 h	3 h		Experimental
AATSR	Fire area		1 m2		20 % (Max)	1.5 d	0.125 d		Potential expected
AATSR	Fire temperature		1 K		50 K	1.5 d	0.125 d		Potential expected
AATSR	Land cover		1000 m		10 classes	0.01 y	1 d		Potential expected
AATSR	Leaf Area Index (LAI)		1 km		20 % (Max)	30 d	1 d		Potential
AATSR	Long-wave Earth surface emissivity		1 km		2 % (Max)	36 h	3 h		Potential expected
AATSR	Sea surface bulk temperature		1 km		0.4	36 h	3 h		Potential realized
AATSR	Vegetation type		1000 m		10 classes	30 d	0.125 d		Potential expected
AIRS	Atmospheric temperature profile	Higher troposphere (HT)	25 km	1 km	1 K	12 h	3 h		Potential realized
AIRS	Atmospheric temperature profile	Lower stratosphere (LS)	25 km	2 km	1 K	12 h	3 h		Potential realized
AIRS	Atmospheric temperature profile	Lower troposphere (LT)	25 km	1 km	1 K	12 h	3 h		Potential realized
AIRS	Cloud cover		25 km		10 % (Max)	12 h	3 h		Potential expected
AIRS	Cloud optical thickness		25 km		20 %	12 h	3 h		Experimental
AIRS	Cloud top height		25 km		0.5 km	12 h	3 h		Experimental
AIRS	Cloud top temperature		25 km		2 K	12 h	3 h		Experimental
AIRS	Land surface temperature		25 km		0.5 K	12 h	3 h		Experimental
AIRS	Outgoing long-wave radiation at		25 km		5 m/s	12 h	3 h		Potential realized
AIRS	Outgoing short-wave radiation at		25 km		5 W/m2	12 h	3 h		Potential realized
AIRS	Ozone profile	Higher troposphere (HT)	25 km	5 km	15 %	12 h	3 h		Potential
AIRS	Ozone profile	Total column	25 km		20 DU	12 h	3 h		Experimental
AIRS	Sea surface bulk temperature		25 km		0.3	12 h	3 h		Potential realized
AIRS	Specific humidity profile	Higher troposphere (HT)	25 km	1 km	10 %	12 h	3 h		Potential realized
AIRS	Specific humidity profile	Lower troposphere (LT)	25 km	1 km	10 %	12 h	3 h		Potential realized
AIRS	Specific humidity profile	Total column	25 km		2 kg/m2	12 h	3 h		Potential expected
ALADIN	Aerosol profile	Lower troposphere (LT)	200 km	0.5 km	%	2 h	3 h		Potential
ALADIN	Aerosol profile	Lower stratosphere (LS)	200 km	2 km	%	2 h	3 h		Potential
ALADIN	Aerosol profile	Higher troposphere (HT)	200 km	1 km	%	2 h	3 h		Potential
Amdar FL ARC	Atmospheric temperature profile	Higher troposphere (HT)	270 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL ARC	Wind profile (horizontal component)	Higher troposphere (HT)	270 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL MED	Atmospheric temperature profile	Higher troposphere (HT)	156 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL MED	Wind profile (horizontal component)	Higher troposphere (HT)	156 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL NAO CST	Atmospheric temperature profile	Higher troposphere (HT)	50 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL NAO CST	Wind profile (horizontal component)	Higher troposphere (HT)	50 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL NAO OPN	Atmospheric temperature profile	Higher troposphere (HT)	223 km	5 km	1 K	24 h	1 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Amdar FL NAO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	223 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL NIO CST	Atmospheric temperature profile	Higher troposphere (HT)	334 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL NIO CST	Wind profile (horizontal component)	Higher troposphere (HT)	334 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL NIO OPN	Atmospheric temperature profile	Higher troposphere (HT)	498 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL NIO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	498 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL NPO CST	Atmospheric temperature profile	Higher troposphere (HT)	851 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL NPO CST	Wind profile (horizontal component)	Higher troposphere (HT)	851 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL NPO OPN	Atmospheric temperature profile	Higher troposphere (HT)	2150 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL NPO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	2150 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL RA-I N	Atmospheric temperature profile	Higher troposphere (HT)	375 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL RA-I N	Wind profile (horizontal component)	Higher troposphere (HT)	375 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL RA-I S	Atmospheric temperature profile	Higher troposphere (HT)	330 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL RA-I S	Wind profile (horizontal component)	Higher troposphere (HT)	330 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL RA-I T	Atmospheric temperature profile	Higher troposphere (HT)	402 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL RA-I T	Wind profile (horizontal component)	Higher troposphere (HT)	402 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL RA-II E	Atmospheric temperature profile	Higher troposphere (HT)	998 km	5 km	1 K	12 h	1 h		Potential realized
Amdar FL RA-II E	Wind profile (horizontal component)	Higher troposphere (HT)	998 km	5 km	2 m/s	12 d	1 h		Potential realized
Amdar FL RA-II N	Atmospheric temperature profile	Higher troposphere (HT)	614 km	5 km	1 K	12 h	1 h		Potential realized
Amdar FL RA-II N	Wind profile (horizontal component)	Higher troposphere (HT)	614 km	5 km	2 m/s	12 d	1 h		Potential realized
Amdar FL RA-II S	Atmospheric temperature profile	Higher troposphere (HT)	310 km	5 km	1 K	12 h	1 h		Potential realized
Amdar FL RA-II S	Wind profile (horizontal component)	Higher troposphere (HT)	310 km	5 km	2 m/s	12 d	1 h		Potential realized
Amdar FL RA-II W	Atmospheric temperature profile	Higher troposphere (HT)	429 km	5 km	1 K	12 h	1 h		Potential realized
Amdar FL RA-II W	Wind profile (horizontal component)	Higher troposphere (HT)	429 km	5 km	2 m/s	12 d	1 h		Potential realized
Amdar FL RA-III N	Atmospheric temperature profile	Higher troposphere (HT)	455 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL RA-III N	Wind profile (horizontal component)	Higher troposphere (HT)	455 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL RA-III S	Atmospheric temperature profile	Higher troposphere (HT)	557 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL RA-III S	Wind profile (horizontal component)	Higher troposphere (HT)	557 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL RA-IV C	Atmospheric temperature profile	Higher troposphere (HT)	90 km	5 km	1 K	1 h	1 h		Potential realized
Amdar FL RA-IV C	Wind profile (horizontal component)	Higher troposphere (HT)	90 km	5 km	2 m/s	1 d	1 h		Potential realized
Amdar FL RA-IV N	Atmospheric temperature profile	Higher troposphere (HT)	318 km	5 km	1 K	12 h	1 h		Potential realized
Amdar FL RA-IV N	Wind profile (horizontal component)	Higher troposphere (HT)	318 km	5 km	2 m/s	12 d	1 h		Potential realized
Amdar FL RA-IV S	Atmospheric temperature profile	Higher troposphere (HT)	690 km	5 km	1 K	12 h	1 h		Potential realized
Amdar FL RA-IV S	Wind profile (horizontal component)	Higher troposphere (HT)	690 km	5 km	2 m/s	12 d	1 h		Potential realized
Amdar FL RA-V NW	Atmospheric temperature profile	Higher troposphere (HT)	550 km	5 km	1 K	12 h	1 h		Potential realized
Amdar FL RA-V NW	Wind profile (horizontal component)	Higher troposphere (HT)	550 km	5 km	2 m/s	12 d	1 h		Potential realized
Amdar FL RA-V SW	Atmospheric temperature profile	Higher troposphere (HT)	167 km	5 km	1 K	12 h	1 h		Potential realized
Amdar FL RA-V SW	Wind profile (horizontal component)	Higher troposphere (HT)	167 km	5 km	2 m/s	12 d	1 h		Potential realized
Amdar FL RA-VI EE	Atmospheric temperature profile	Higher troposphere (HT)	159 km	5 km	1 K	8 h	1 h		Potential realized
Amdar FL RA-VI EE	Wind profile (horizontal component)	Higher troposphere (HT)	159 km	5 km	2 m/s	8 d	1 h		Potential realized
Amdar FL RA-VI WE	Atmospheric temperature profile	Higher troposphere (HT)	38 km	5 km	1 K	8 h	1 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Amdar FL RA-VI WE	Wind profile (horizontal component)	Higher troposphere (HT)	38 km	5 km	2 m/s	8 d	1 h		Potential realized
Amdar FL RA-VII	Atmospheric temperature profile	Higher troposphere (HT)	2361 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL RA-VII	Wind profile (horizontal component)	Higher troposphere (HT)	2361 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL SAO CST	Atmospheric temperature profile	Higher troposphere (HT)	414 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL SAO CST	Wind profile (horizontal component)	Higher troposphere (HT)	414 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL SAO OPN	Atmospheric temperature profile	Higher troposphere (HT)	1857 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL SAO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	1857 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL SIO	Atmospheric temperature profile	Higher troposphere (HT)	904 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL SIO	Wind profile (horizontal component)	Higher troposphere (HT)	904 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL SPO CST	Atmospheric temperature profile	Higher troposphere (HT)	923 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL SPO CST	Wind profile (horizontal component)	Higher troposphere (HT)	923 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL SPO OPN	Atmospheric temperature profile	Higher troposphere (HT)	991 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL SPO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	991 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL TAO CST	Atmospheric temperature profile	Higher troposphere (HT)	576 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL TAO CST	Wind profile (horizontal component)	Higher troposphere (HT)	576 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL TAO OPN	Atmospheric temperature profile	Higher troposphere (HT)	689 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL TAO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	689 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL TPO CST	Atmospheric temperature profile	Higher troposphere (HT)	1051 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL TPO CST	Wind profile (horizontal component)	Higher troposphere (HT)	1051 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar FL TPO OPN	Atmospheric temperature profile	Higher troposphere (HT)	806 km	5 km	1 K	24 h	1 h		Potential realized
Amdar FL TPO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	806 km	5 km	2 m/s	24 d	1 h		Potential realized
Amdar P ARC	Atmospheric temperature profile	Lower troposphere (LT)	2978 km	0.4 km	2 K	120 h	1 h		Potential realized
Amdar P ARC	Wind profile (horizontal component)	Lower troposphere (LT)	2978 km	0.4 km	2 m/s	120 h	1 h		Potential realized
Amdar P MED	Atmospheric temperature profile	Lower troposphere (LT)	2149 km	0.4 km	2 K	24 h	1 h		Potential realized
Amdar P MED	Wind profile (horizontal component)	Lower troposphere (LT)	2149 km	0.4 km	2 m/s	24 h	1 h		Potential realized
Amdar P NAO CST	Atmospheric temperature profile	Lower troposphere (LT)	3067 km	0.4 km	2 K	24 h	1 h		Potential realized
Amdar P NAO CST	Wind profile (horizontal component)	Lower troposphere (LT)	3067 km	0.4 km	2 m/s	24 h	1 h		Potential realized
Amdar P NIO OPN	Atmospheric temperature profile	Lower troposphere (LT)	5000 km	0.4 km	2 K	24 h	1 h		Potential realized
Amdar P NIO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	5000 km	0.4 km	2 m/s	24 h	1 h		Potential realized
Amdar P RA-I S	Atmospheric temperature profile	Lower troposphere (LT)	615 km	0.4 km	2 K	24 h	1 h		Potential realized
Amdar P RA-I S	Wind profile (horizontal component)	Lower troposphere (LT)	615 km	0.4 km	2 m/s	24 h	1 h		Potential realized
Amdar P RA-I T	Atmospheric temperature profile	Lower troposphere (LT)	3287 km	0.4 km	2 K	24 h	1 h		Potential realized
Amdar P RA-I T	Wind profile (horizontal component)	Lower troposphere (LT)	3287 km	0.4 km	2 m/s	24 h	1 h		Potential realized
Amdar P RA-II E	Atmospheric temperature profile	Lower troposphere (LT)	3054 km	0.4 km	2 K	12 h	1 h		Potential realized
Amdar P RA-II E	Wind profile (horizontal component)	Lower troposphere (LT)	3054 km	0.4 km	2 m/s	12 h	1 h		Potential realized
Amdar P RA-II S	Atmospheric temperature profile	Lower troposphere (LT)	1708 km	0.4 km	2 K	12 h	1 h		Potential realized
Amdar P RA-II S	Wind profile (horizontal component)	Lower troposphere (LT)	1708 km	0.4 km	2 m/s	12 h	1 h		Potential realized
Amdar P RA-III N	Atmospheric temperature profile	Lower troposphere (LT)	1447 km	0.4 km	2 K	24 h	1 h		Potential realized
Amdar P RA-III N	Wind profile (horizontal component)	Lower troposphere (LT)	1447 km	0.4 km	2 m/s	24 h	1 h		Potential realized
Amdar P RA-III S	Atmospheric temperature profile	Lower troposphere (LT)	1026 km	0.4 km	2 K	24 h	1 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Amdar P RA-III S	Wind profile (horizontal component)	Lower troposphere (LT)	1026 km	0.4 km	2 m/s	24 h	1 h		Potential realized
Amdar P RA-IV C	Atmospheric temperature profile	Lower troposphere (LT)	300 km	0.4 km	2 K	5 h	1 h		Potential realized
Amdar P RA-IV C	Wind profile (horizontal component)	Lower troposphere (LT)	300 km	0.4 km	2 m/s	5 h	1 h		Potential realized
Amdar P RA-IV S	Atmospheric temperature profile	Lower troposphere (LT)	9999 km	0.4 km	2 K	24 h	1 h		Potential realized
Amdar P RA-IV S	Wind profile (horizontal component)	Lower troposphere (LT)	9999 km	0.4 km	2 m/s	24 h	1 h		Potential realized
Amdar P RA-V NW	Atmospheric temperature profile	Lower troposphere (LT)	3821 km	0.4 km	2 K	6 h	1 h		Potential realized
Amdar P RA-V NW	Wind profile (horizontal component)	Lower troposphere (LT)	3821 km	0.4 km	2 m/s	6 h	1 h		Potential realized
Amdar P RA-V SW	Atmospheric temperature profile	Lower troposphere (LT)	644 km	0.4 km	2 K	6 h	1 h		Potential realized
Amdar P RA-V SW	Wind profile (horizontal component)	Lower troposphere (LT)	644 km	0.4 km	2 m/s	6 h	1 h		Potential realized
Amdar P RA-VI EE	Atmospheric temperature profile	Lower troposphere (LT)	692 km	0.4 km	2 K	2 h	1 h		Potential realized
Amdar P RA-VI EE	Wind profile (horizontal component)	Lower troposphere (LT)	692 km	0.4 km	2 m/s	2 h	1 h		Potential realized
Amdar P RA-VI WE	Atmospheric temperature profile	Lower troposphere (LT)	175 km	0.4 km	2 K	2 h	1 h		Potential realized
Amdar P RA-VI WE	Wind profile (horizontal component)	Lower troposphere (LT)	175 km	0.4 km	2 m/s	2 h	1 h		Potential realized
Amdar P SIO	Atmospheric temperature profile	Lower troposphere (LT)	3142 km	0.4 km	2 K	24 h	1 h		Potential realized
Amdar P SIO	Wind profile (horizontal component)	Lower troposphere (LT)	3142 km	0.4 km	2 m/s	24 h	1 h		Potential realized
Amdar P TAO CST	Atmospheric temperature profile	Lower troposphere (LT)	2925 km	0.4 km	2 K	24 h	1 h		Potential realized
Amdar P TAO CST	Wind profile (horizontal component)	Lower troposphere (LT)	2925 km	0.4 km	2 m/s	24 h	1 h		Potential realized
Amdar P TPO OPN	Atmospheric temperature profile	Lower troposphere (LT)	40696 km	0.4 km	2 K	24 h	1 h		Potential realized
Amdar P TPO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	40696 km	0.4 km	2 m/s	24 h	1 h		Potential realized
AMI/SAR/Image	Iceberg fractional cover		30 km		% (Max)	0.5 d	0.1 d		Experimental
AMI/SAR/Image	Iceberg height		30 km		m	0.5 d	0.1 d		Experimental
AMI/SAR/Image	Land cover		30 m		10 classes	0.01 y	1 d		Experimental
AMI/SAR/Image	Land surface imagery		30 m			3 d	0.1 d		Experimental
AMI/SAR/Image	Land surface topography		30 m		3 m (vert.)	0.5 y	1 d		Experimental
AMI/SAR/Image	Sea-ice cover		0.1 km		30 % (Max)	0.5 d	2.4 d		Experimental
AMI/SAR/Image	Soil moisture		0.1 km		g/kg	30 d	2.4 d		Experimental
AMI/SAR/Image	Vegetation type		30 m		15 classes	30 d	1 d		Experimental
AMI/SAR/wave	Dominant wave direction		5 km		degrees	48 h	2 h		Experimental
AMI/SAR/wave	Dominant wave period		5 km		s	48 h	2 h		Experimental
AMI/SAR/wave	Ocean surface currents (vector)		0.1 km		cm/s	2 d	2.4 d		Experimental
AMI/scatterometer	Sea-ice cover		50 km		50 % (Max)	3 d	2.4 d		Experimental
AMI/scatterometer	Soil moisture		50 km		g/kg	3 d	2.4 d		Experimental
AMI/scatterometer	Wind vector over sea surface (horizontal)		25 km		2 m/s	72 h	3 h		Experimental
AMSR	Sea surface bulk temperature		25 km		1	12 h	24 h		Potential expected
AMSR	Sea-ice cover		10 km		30 % (Max)	0.5 d	0.25 d		Potential expected
AMSR	Snow cover		10 km		10 % (Max)	12 h	24 h		Potential
AMSR	Snow water equivalent		10 km		5 mm	12 h	6 h		Experimental
AMSR	Soil moisture		60 km		g/kg	0.5 d	1 d		Experimental
AMSR	Specific humidity profile	Total column	10 km		1.5 kg/m2	12 h	3 h		Potential expected

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
AMSU-A	Atmospheric temperature profile	Lower stratosphere (LS)	50 km	2 km	2 K	12 h	2 h	Delay is quicker for local reception	Potential realized
AMSU-A	Atmospheric temperature profile	Higher stratosphere & mesosphere (HS & M)	50 km	2 km	2 K	12 h	2 h	Delay is quicker for local reception	Potential realized
AMSU-A	Atmospheric temperature profile	Higher troposphere (HT)	50 km	1 km	2 K	12 h	2 h	Delay is quicker for local reception	Potential realized
AMSU-A	Atmospheric temperature profile	Lower troposphere (LT)	50 km	1 km	2 K	12 h	2 h	Delay is quicker for local reception	Potential realized
AMSU-A	Cloud water profile (< 100 μm)	Total column	50 km		300 kg/m2	12 h	2 h	Delay is quicker for local reception	Potential
AMSU-A	Land surface temperature		50 km		3 K	12 h	2 h	Delay is quicker for local reception	Experimental
AMSU-A	Precipitation rate (liquid) at the		50 km		5 m/s	12 h	2 h	Delay is quicker for local reception	Potential realized
AMSU-A	Precipitation rate (solid) at the		50 km		5 mm/h	12 h	2 h	Delay is quicker for local reception	Potential realized
AMSU-A	Sea-ice cover		50 km		30 % (Max)	0.5 d	0.08 d	Delay is quicker for local reception	Potential expected
AMSU-A	Snow cover		50 km		50 % (Max)	12 h	6 h	Delay is quicker for local reception	Potential expected
AMSU-B	Cloud water profile (< 100 μm)	Total column	15 km		200 kg/m2	12 h	2 h	Delay is quicker for local reception	Potential reception
AMSU-B	Precipitation rate (liquid) at the		15 km		5 m/s	12 h	2 h	Delay is quicker for local reception	Potential realized
AMSU-B	Precipitation rate (solid) at the		15 km		5 mm/h	12 h	2 h	Delay is quicker for local reception	Potential realized
AMSU-B	Sea-ice cover		15 km		30 % (Max)	0.5 d	0.08 d	Delay is quicker for local reception	Potential expected
AMSU-B	Snow cover		15 km		50 % (Max)	12 h	6 h	Delay is quicker for local reception	Potential expected
AMSU-B	Specific humidity profile	Lower troposphere (LT)	15 km	1 km	15 %	12 h	2 h	Delay is quicker for local reception	Potential realized
AMSU-B	Specific humidity profile	Total column	15 km		1 kg/m2	12 h	2 h	Delay is quicker for local reception	Potential expected
AMSU-B	Specific humidity profile	Higher troposphere (HT)	15 km	1 km	15 %	12 h	2 h	Delay is quicker for local reception	Potential realized
Argo NAO OPN	Ocean salinity		350 km		0.01 psu	10 d	12 d	1/2 implementation in 2003, full in 2005	Potential expected
Argo NAO OPN	Sea surface bulk temperature		350 km		0.01	240 h	12 h	1/2 implementation in 2003, full in 2005	Potential expected
Argo NIO OPN	Ocean salinity		350 km		0.01 psu	10 d	12 d	1/2 implementation in 2003, full in 2005	Potential expected
Argo NIO OPN	Sea surface bulk temperature		350 km		0.01	240 h	12 h	1/2 implementation in 2003, full in 2005	Potential expected
Argo NPO OPN	Ocean salinity		350 km		0.01 psu	10 d	12 d	1/2 implementation in 2003, full in 2005	Potential expected

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Argo NPO OPN	Sea surface bulk temperature	350 km		0.01	240 h	12 h	1/2 implementation in 2003, full in 2005	Potential expected
Argo SAO OPN	Ocean salinity	350 km		0.01 psu	10 d	12 d	1/2 implementation in 2003, full in 2005	Potential expected
Argo SAO OPN	Sea surface bulk temperature	350 km		0.01	240 h	12 h	1/2 implementation in 2003, full in 2005	Potential expected
Argo SIO	Ocean salinity	350 km		0.01 psu	10 d	12 d	1/2 implementation in 2003, full in 2005	Potential expected
Argo SIO	Sea surface bulk temperature	350 km		0.01	240 h	12 h	1/2 implementation in 2003, full in 2005	Potential expected
Argo SPO OPN	Ocean salinity	350 km		0.01 psu	10 d	12 d	1/2 implementation in 2003, full in 2005	Potential expected
Argo SPO OPN	Sea surface bulk temperature	350 km		0.01	240 h	12 h	1/2 implementation in 2003, full in 2005	Potential expected
Argo TAO OPN	Ocean salinity	350 km		0.01 psu	10 d	12 d	1/2 implementation in 2003, full in 2005	Potential expected
Argo TAO OPN	Sea surface bulk temperature	350 km		0.01	240 h	12 h	1/2 implementation in 2003, full in 2005	Potential expected
Argo TPO OPN	Ocean salinity	350 km		0.01 psu	10 d	12 d	1/2 implementation in 2003, full in 2005	Potential expected
Argo TPO OPN	Sea surface bulk temperature	350 km		0.01	240 h	12 h	1/2 implementation in 2003, full in 2005	Potential expected
ASAR	Land cover	1000 m		5 classes	0.01 y	2 d		Experimental
ASAR	Land surface imagery	1000 m			2 d	1 d		Experimental
ASAR	Soil moisture	1 km		g/kg	2 d	2 d		Experimental
ASAR (image mode)	Iceberg fractional cover	30 km		% (Max)	2 d	0.1 d		Experimental
ASAR (image mode)	Iceberg height	30 km		m	2 d	0.1 d		Experimental
ASAR (image mode)	Land cover	30 m		10 classes	0.01 y	1 d		Experimental
ASAR (image mode)	Land surface imagery	30 m			2 d	0.1 d		Experimental
ASAR (image mode)	Land surface topography	30 m		3 m (vert.)	0.5 y	1 d		Experimental
ASAR (image mode)	Sea-ice cover	0.1 km		30 % (Max)	0.5 d	2.4 d		Experimental
ASAR (image mode)	Soil moisture	0.1 km		g/kg	2 d	2.4 d		Experimental
ASAR (image mode)	Vegetation type	30 m		15 classes	30 d	1 d		Experimental
ASAR (wave mode)	Dominant wave direction	5 km		degrees	48 h	2 h		Potential realized
ASAR (wave mode)	Dominant wave period	5 km		s	48 h	2 h		Potential realized
ASAR (wave mode)	Ocean surface currents (vector)	0.1 km		cm/s	2 d	2.4 d		Experimental
ASCAT	Sea-ice cover	50 km		50 % (Max)	1.5 d	0.75 d		Potential
ASCAT	Soil moisture	50 km		0.1 g/kg	1.5 d	0.75 d		Experimental
ASCAT	Wind vector over sea surface (horizontal)	50 km		2 m/s	18 h	0.75 h		Potential expected
ASTER	Fractional Photosynthetically Active Radiation (FPAR)	0.015 km		25 % (Max)	16 d	1 d		Experimental
ASTER	Land cover	15 m		20 classes	0.04 y	1 d		Potential expected

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
ASTER	Land surface imagery		15 m			16 d			Experimental
ASTER	Land surface temperature		0.09 km		1 K	400 h	24 h		Potential
ASTER	Land surface topography		15 m		7 m (vert.)	0.5 y	24 d		Experimental
ASTER	Leaf Area Index (LAI)		0.015 km		20 % (Max)	16 d	1 d		Potential
ASTER	Normalized Differential Vegetation Index (NDVI)		0.015 km		5 % (Max)	16 d	1 d		Potential
ATLID	Cloud optical thickness			km	10 %	24 h	144 h		Potential
ATMS	Atmospheric temperature profile	Higher stratosphere & mesosphere (HS & M)	50 km	2 km	2 K	12 h	2 h		Potential
ATMS	Atmospheric temperature profile	Lower troposphere (LT)	50 km	1 km	2 K	12 h	2 h		Potential
ATMS	Atmospheric temperature profile	Higher troposphere (HT)	50 km	1 km	2 K	12 h	2 h		Potential
ATMS	Atmospheric temperature profile	Lower stratosphere (LS)	50 km	2 km	2 K	12 h	2 h		Potential
ATMS	Cloud water profile (< 100 µm)	Total column	15 km		200 kg/m2	12 h	2 h		Potential
ATMS	Land surface temperature		50 km		3 K	12 h	2 h		Experimental
ATMS	Precipitation rate (liquid) at the		15 km		5 m/s	12 h	2 h		Potential
ATMS	Precipitation rate (solid) at the		15 km		5 mm/h	12 h	2 h		Potential
ATMS	Sea-ice cover		15 km		30 % (Max)	0.5 d	0.08 d		Potential
ATMS	Snow cover		15 km		50 % (Max)	12 h	2 h		Potential
ATMS	Specific humidity profile	Lower troposphere (LT)	15 km	1 km	15 %	12 h	2 h		Potential
ATMS	Specific humidity profile	Total column	15 km		1 kg/m2	12 h	2 h		Potential
ATMS	Specific humidity profile	Higher troposphere (HT)	15 km	1 km	15 %	12 h	2 h		Potential
ATOVS (HIRS/3 + AMSU + AVHRR/3)	Atmospheric temperature profile	Lower troposphere (LT)	40 km	1 km	2 K	12 h	2 h		Potential realized
ATOVS (HIRS/3 + AMSU + AVHRR/3)	Atmospheric temperature profile	Lower stratosphere (LS)	40 km	2 km	1.5 K	12 h	2 h		Potential realized
ATOVS (HIRS/3 + AMSU + AVHRR/3)	Atmospheric temperature profile	Higher troposphere (HT)	40 km	1 km	2 K	12 h	2 h		Potential realized
ATOVS (HIRS/3 + AMSU + AVHRR/3)	Specific humidity profile	Total column	15 km		1 kg/m2	12 h	2 h		Potential expected
ATSR	Cloud cover		15 km		10 % (Max)	36 h	3 h		Experimental
ATSR	Cloud imagery		1 km			36 h	3 h		Experimental
ATSR	Cloud type		15 km		5 classes	36 h	3 h		Experimental
ATSR	Long-wave Earth surface emissivity		1 km		2 % (Max)	36 h	3 h		Experimental
ATSR	Sea surface bulk temperature		1 km		0.4	36 h	3 h		Potential realized
ATSR-2	Cloud imagery		1 km			36 h	3 h		Potential expected
ATSR-2	Cloud type		15 km		5 classes	36 h	3 h		Experimental
ATSR-2	Fire area		0.1 m2		20 % (Max)	1.5 d	0.125 d		Experimental
ATSR-2	Fire temperature		0.1 K		200 K	1.5 d	0.125 d		Experimental
ATSR-2	Land cover		1000 m		10 classes	0.01 y	1 d		Experimental
ATSR-2	Leaf Area Index (LAI)		1 km		30 % (Max)	30 d	1 d		Potential
ATSR-2	Sea surface bulk temperature		1 km		0.4	36 h	3 h		Potential realized
AVHRR/2	Aerosol profile	Total column	1 km		10 %	12 h	2 h		Potential

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
AVHRR/2	Cloud cover	5	km	10	% (Max)	12 h 2 h		Potential expected
AVHRR/2	Cloud imagery	4	km			12 h 2 h		Potential realized
AVHRR/2	Cloud top height	4	km	1.5	km	12 h 2 h		Potential expected
AVHRR/2	Cloud top temperature	4	km	2	K	12 h 2 h		Potential expected
AVHRR/2	Cloud type	15	km	5	classes	12 h 2 h		Potential expected
AVHRR/2	Fire area	1	m2	20	% (Max)	0.5 d 0.125 d		Potential realized
AVHRR/2	Fire temperature	1	K	200	K	0.5 d 0.125 d		Potential realized
AVHRR/2	Fractional Photosynthetically Active Radiation (FPAR)	1	km	25	% (Max)	7 d 1 d		Experimental
AVHRR/2	Land surface temperature	1	km	1	K	12 h 2 h		Potential expected
AVHRR/2	Normalized Differential Vegetation Index (NDVI)	1	km	10	% (Max)	0.5 d 1 d		Potential
AVHRR/2	Sea surface bulk temperature	4	km	0.5		12 h 2 h		Potential realized
AVHRR/3	Aerosol profile	1	km	10	%	12 h 2 h	Total column	Potential
AVHRR/3	Cloud cover	5	km	10	% (Max)	12 h 2 h		Potential expected
AVHRR/3	Cloud imagery	4	km			12 h 2 h		Potential expected
AVHRR/3	Cloud optical thickness	4	km	20	%	12 h 2 h		Potential expected
AVHRR/3	Cloud top height	10	km	1.5	km	12 h 2 h		Potential
AVHRR/3	Cloud type	15	km	5	classes	12 h 2 h		Potential expected
AVHRR/3	Fire area	1	m2	20	% (Max)	0.5 d 0.125 d		Potential realized
AVHRR/3	Fire temperature	1	K	200	K	0.5 d 0.125 d		Potential realized
AVHRR/3	Fractional Photosynthetically Active Radiation (FPAR)	1	km	25	% (Max)	1 d 1 d		Experimental
AVHRR/3	Land cover	1000	m	10	classes	0.01 y 1 d		Potential
AVHRR/3	Leaf Area Index (LAI)	1	km	25	% (Max)	1 d 1 d		Potential
AVHRR/3	Normalized Differential Vegetation Index (NDVI)	1	km	10	% (Max)	0.5 d 1 d		Potential
AVHRR/3	Sea surface bulk temperature	4	km	0.5		12 h 2 h		Potential realized
AVHRR/4	Aerosol profile	1	km	10	%	12 h 2 h	Total column	Potential
AVHRR/4	Cloud cover	5	km	8	% (Max)	12 h 2 h		Potential expected
AVHRR/4	Cloud imagery	4	km			12 h 2 h		Potential expected
AVHRR/4	Cloud optical thickness	4	km	20	%	12 h 2 h		Potential expected
AVHRR/4	Cloud top height	10	km	1.5	km	12 h 2 h		Potential
AVHRR/4	Cloud type	15	km	5	classes	12 h 2 h		Potential expected
AVHRR/4	Fire area	1	m2	20	% (Max)	0.5 d 0.125 d		Potential realized
AVHRR/4	Fire temperature	1	K	200	K	0.5 d 0.125 d		Potential realized
AVHRR/4	Fractional Photosynthetically Active Radiation (FPAR)	1	km	25	% (Max)	1 d 1 d		Experimental
AVHRR/4	Land cover	1000	m	10	classes	0.01 y 1 d		Potential
AVHRR/4	Leaf Area Index (LAI)	1	km	25	% (Max)	1 d 1 d		Potential
AVHRR/4	Normalized Differential Vegetation Index (NDVI)	1	km	10	% (Max)	0.5 d 1 d		Potential

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
AVHRR/4	Sea surface bulk temperature	4 km		0.5	12 h	2 h		Potential realized
AVNIR	Land surface imagery	8 m			41 d			Potential realized
AVNIR-2	Land cover	10 m		25 classes	0.04 y			Experimental
AVNIR-2	Land surface topography	2.5 m		m (vert.)	0.04 y			Experimental
AVNIR-2	Vegetation type	2.5 m		35 classes	41 d	1 d		Experimental
BATHY ARC	Ocean salinity	9999 km		psu	6 d	1 d		Potential realized
BATHY MED	Ocean salinity	9527 km		psu	6 d	1 d		Potential realized
BATHY NAO CST	Ocean salinity	4688 km		psu	6 d	1 d		Potential realized
BATHY NAO OPN	Ocean salinity	3756 km		psu	6 d	1 d		Potential realized
BATHY NIO CST	Ocean salinity	5577 km		psu	6 d	1 d		Potential realized
BATHY NIO OPN	Ocean salinity	7563 km		psu	6 d	1 d		Potential realized
BATHY NPO CST	Ocean salinity	1114 km		psu	6 d	1 d		Potential realized
BATHY NPO OPN	Ocean salinity	2281 km		psu	6 d	1 d		Potential realized
BATHY RA-V NW	Ocean salinity	3433 km		psu	6 d	1 d		Potential realized
BATHY RA-V SW	Ocean salinity	5066 km		psu	6 d	1 d		Potential realized
BATHY SAO CST	Ocean salinity	7999 km		psu	6 d	1 d		Potential realized
BATHY SIO	Ocean salinity	9999 km		psu	6 d	1 d		Potential realized
BATHY SPO OPN	Ocean salinity	8283 km		psu	6 d	1 d		Potential realized
BATHY TAO CST	Ocean salinity	9999 km		psu	6 d	1 d		Potential realized
BATHY TAO OPN	Ocean salinity	6000 km		psu	6 d	1 d		Potential realized
BATHY TPO CST	Ocean salinity	3623 km		psu	6 d	1 d		Potential realized
BATHY TPO OPN	Ocean salinity	3628 km		psu	6 d	1 d		Potential realized
BTVK	Cloud imagery	1.5 km			1 h	0.5 h		Potential expected
BUFS-2	Ozone profile	270 km	5 km	10 %	12 h	24 h		Experimental
BUFS-2	Ozone profile	50 km	5 km	10 %	12 h	24 h		Experimental
Buoys MED	Air pressure over sea surface	1785 km		0.5 hPa	4 h	1 h		Potential realized
Buoys MED	Air temperature (at surface)	1907 km		0.2 K	2 h	6 h		Potential realized
Buoys MED	Sea surface bulk temperature	1478 km		1	2 h	6 h		Potential realized
Buoys NAO CST	Air pressure over sea surface	830 km		0.5 hPa	4 h	1 h		Potential realized
Buoys NAO CST	Air temperature (at surface)	1277 km		0.5 K	2 h	6 h		Potential realized
Buoys NAO CST	Sea surface bulk temperature	603 km		0.3	2 h	6 h		Potential realized
Buoys NAO CST	Wind vector over sea surface (horizontal)	2611 km		2 m/s	8 h	1 h		Potential realized
Buoys NIO CST	Air pressure over sea surface	9999 km		0.5 hPa	4 h	1 h		Potential realized
Buoys NPO CST	Air pressure over sea surface	652 km		0.5 hPa	4 h	1 h		Potential realized
Buoys NPO CST	Air temperature (at surface)	2438 km		0.5 K	2 h	6 h		Potential realized
Buoys NPO CST	Sea surface bulk temperature	422 km		0.3	2 h	6 h		Potential realized
Buoys NPO CST	Wind vector over sea surface (horizontal)	622 km		2 m/s	8 h	1 h		Potential realized
Buoys RA-IV S	Air pressure over sea surface	4770 km		0.5 hPa	4 h	1 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Buoys RA-IV S	Air temperature (at surface)	9999 km		0.5 K	2 h	6 h		Potential realized
Buoys RA-IV S	Sea surface bulk temperature	533 km		0.3	2 h	6 h		Potential realized
Buoys RA-IV S	Wind vector over sea surface (horizontal)	4577 km		2 m/s	8 h	1 h		Potential realized
Buoys RA-V NW	Air pressure over sea surface	1438 km		0.5 hPa	4 h	1 h		Potential realized
Buoys RA-V NW	Air temperature (at surface)	1391 km		0.5 K	2 h	6 h		Potential realized
Buoys RA-V NW	Sea surface bulk temperature	1122 km		0.3	2 h	6 h		Potential realized
Buoys RA-V NW	Wind vector over sea surface (horizontal)	1462 km		2 m/s	8 h	1 h		Potential realized
Buoys RA-V SW	Air pressure over sea surface	1420 km		0.5 hPa	4 h	1 h		Potential realized
Buoys RA-V SW	Air temperature (at surface)	1395 km		0.5 K	2 h	6 h		Potential realized
Buoys RA-V SW	Sea surface bulk temperature	942 km		0.3	2 h	6 h		Potential realized
Buoys RA-V SW	Wind vector over sea surface (horizontal)	2322 km		2 m/s	8 h	1 h		Potential realized
Buoys RA-VII	Air pressure over sea surface	1830 km		0.5 hPa	4 h	1 h		Potential realized
Buoys RA-VII	Air temperature (at surface)	1739 km		0.5 K	2 h	6 h		Potential realized
Buoys RA-VII	Sea surface bulk temperature	1478 km		0.3	2 h	6 h		Potential realized
Buoys SAO CST	Air pressure over sea surface	1660 km		0.5 hPa	4 h	1 h		Potential realized
Buoys SAO CST	Air temperature (at surface)	9999 km		0.5 K	2 h	6 h		Potential realized
Buoys SAO CST	Sea surface bulk temperature	1128 km		0.3	2 h	6 h		Potential realized
Buoys TAO CST	Air pressure over sea surface	1524 km		0.5 hPa	4 h	1 h		Potential realized
Buoys TAO CST	Air temperature (at surface)	3169 km		0.5 K	2 h	6 h		Potential realized
Buoys TAO CST	Sea surface bulk temperature	544 km		0.3	2 h	6 h		Potential realized
Buoys TAO CST	Wind vector over sea surface (horizontal)	2619 km		2 m/s	8 h	1 h		Potential realized
Buoys TPO CST	Air temperature (at surface)	4486 km		0.5 K	2 h	6 h		Potential realized
Buoys TPO CST	Sea surface bulk temperature	1599 km		0.3	2 h	6 h		Potential realized
Buoys TPO CST	Wind vector over sea surface (horizontal)	3663 km		2 m/s	8 h	1 h		Potential realized
CCD	Land surface imagery	19.5 m			26 d	d		Experimental
CrIS	Atmospheric temperature profile	25 km	1 km	1 K	12 h	2 h		Potential realized
CrIS	Atmospheric temperature profile	25 km	2 km	1 K	12 h	2 h		Potential realized
CrIS	Atmospheric temperature profile	25 km	1 km	1 K	12 h	2 h		Potential realized
CrIS	Cloud cover	25 km		10 % (Max)	12 h	3 h		Potential expected
CrIS	Cloud optical thickness	25 km		20 %	12 h	3 h		Experimental
CrIS	Cloud top height	25 km		0.5 km	12 h	2 h		Potential
CrIS	Cloud top temperature	25 km		2 K	12 h	3 h		Experimental
CrIS	Land surface temperature	25 km		0.5 K	12 h	3 h		Experimental
CrIS	Outgoing long-wave radiation at	25 km		5 m/s	12 h	3 h		Potential realized
CrIS	Outgoing short-wave radiation at	25 km		5 W/m2	12 h	3 h		Potential realized
CrIS	Ozone profile	25 km		20 DU	12 h	3 h		Experimental

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
CrIS	Ozone profile	Higher troposphere (HT)	25 km	5 km	15 %	12 h	3 h		Potential
CrIS	Sea surface bulk temperature		25 km		0.3	12 h	3 h		Potential realized
CrIS	Specific humidity profile	Total column	25 km		2 kg/m2	12 h	2 h		Potential expected
CrIS	Specific humidity profile	Lower troposphere (LT)	25 km	1 km	10 %	12 h	2 h		Potential realized
CrIS	Specific humidity profile	Higher troposphere (HT)	25 km	1 km	10 %	12 h	2 h		Potential realized
DriftBuoys ARC	Air pressure over sea surface		517 km		0.5 hPa	1.3 h	1.3 h	Asynoptic data	Potential realized
DriftBuoys ARC	Air specific humidity (at surface)		99999 km		10 %	1.3 h	1.3 h	Asynoptic data	Potential realized
DriftBuoys ARC	Air temperature (at surface)		551 km		0.5 K	1.3 h	1.5 h	Asynoptic data	Potential realized
DriftBuoys ARC	Sea surface bulk temperature		1056 km		0.3	1.3 h	1 h	Asynoptic data	Potential realized
DriftBuoys ARC	Wind vector over sea surface (horizontal)		99999 km		2 m/s	1.3 h	1.3 h	Asynoptic data	Potential realized
DriftBuoys NAO OPN	Air pressure over sea surface		616 km		0.5 hPa	0.9 h	2.1 h	Asynoptic data	Potential realized
DriftBuoys NAO OPN	Air specific humidity (at surface)		99999 km		10 %	0.9 h	2.1 h	Asynoptic data	Potential realized
DriftBuoys NAO OPN	Air temperature (at surface)		1067 km		0.5 K	1 h	1 h	Asynoptic data	Potential realized
DriftBuoys NAO OPN	Sea surface bulk temperature		412 km		0.3	1.6 h	1.5 h	Asynoptic data	Potential realized
DriftBuoys NAO OPN	Wind vector over sea surface (horizontal)		1471 km		2 m/s	1.5 h	1.6 h	Asynoptic data	Potential realized
DriftBuoys NIO OPN	Air pressure over sea surface		1888 km		0.5 hPa	1.6 h	2.9 h	Asynoptic data	Potential realized
DriftBuoys NIO OPN	Air specific humidity (at surface)		99999 km		10 %	1.6 h	2.9 h	Asynoptic data	Potential realized
DriftBuoys NIO OPN	Air temperature (at surface)		99999 km		0.5 K	1.6 h	2.9 h	Asynoptic data	Potential realized
DriftBuoys NIO OPN	Sea surface bulk temperature		1121 km		0.3	3.2 h	2.2 h	Asynoptic data	Potential realized
DriftBuoys NIO OPN	Wind vector over sea surface (horizontal)		4624 km		2 m/s	1.1 h	2.7 h	Asynoptic data	Potential realized
DriftBuoys NPO OPN	Air pressure over sea surface		884 km		0.5 hPa	2.2 h	2.3 h	Asynoptic data	Potential realized
DriftBuoys NPO OPN	Air specific humidity (at surface)		99999 km		10 %	2.2 h	2.3 h	Asynoptic data	Potential realized
DriftBuoys NPO OPN	Air temperature (at surface)		1603 km		0.5 K	2.6 h	1.5 h	Asynoptic data	Potential realized
DriftBuoys NPO OPN	Sea surface bulk temperature		449 km		0.3	3.5 h	1.5 h	Asynoptic data	Potential realized
DriftBuoys NPO OPN	Wind vector over sea surface (horizontal)		1279 km		2 m/s	1.8 h	1.9 h	Asynoptic data	Potential realized
DriftBuoys SAO OPN	Air pressure over sea surface		991 km		0.5 hPa	1.3 h	3.9 h	Asynoptic data	Potential realized
DriftBuoys SAO OPN	Air specific humidity (at surface)		99999 km		10 %	1.3 h	3.9 h	Asynoptic data	Potential realized
DriftBuoys SAO OPN	Air temperature (at surface)		99999 km		0.5 K	1.3 h	3.9 h	Asynoptic data	Potential realized
DriftBuoys SAO OPN	Sea surface bulk temperature		708 km		0.3	2.9 h	2.8 h	Asynoptic data	Potential realized
DriftBuoys SAO OPN	Wind vector over sea surface (horizontal)		99999 km		2 m/s	1.3 h	3.9 h	Asynoptic data	Potential realized
DriftBuoys SIO	Air pressure over sea surface		1292 km		0.5 hPa	1.4 h	2.8 h	Asynoptic data	Potential realized
DriftBuoys SIO	Air specific humidity (at surface)		99999 km		10 %	1.4 h	2.8 h	Asynoptic data	Potential realized
DriftBuoys SIO	Air temperature (at surface)		3711 km		0.5 K	2.1 h	1.2 h	Asynoptic data	Potential realized
DriftBuoys SIO	Sea surface bulk temperature		845 km		0.3	2.3 h	2.1 h	Asynoptic data	Potential realized
DriftBuoys SIO	Wind vector over sea surface (horizontal)		5249 km		2 m/s	1.7 h	1.25 h	Asynoptic data	Potential realized
DriftBuoys SPO OPN	Air pressure over sea surface		1466 km		0.5 hPa	1.8 h	2 h	Asynoptic data	Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
DriftBuoys SPO OPN	Air specific humidity (at surface)	99999 km		10 %	1.8 h	2 h	Asynoptic data	Potential realized
DriftBuoys SPO OPN	Air temperature (at surface)	2478 km		0.5 K	1.1 h	1.9 h	Asynoptic data	Potential realized
DriftBuoys SPO OPN	Sea surface bulk temperature	909 km		0.3	2.8 h	1.9 h	Asynoptic data	Potential realized
DriftBuoys SPO OPN	Wind vector over sea surface (horizontal)	99999 km		2 m/s	1.8 h	2 h	Asynoptic data	Potential realized
DriftBuoys TAO OPN	Air pressure over sea surface	1467 km		0.5 hPa	1.4 h	3.6 h	Asynoptic data	Potential realized
DriftBuoys TAO OPN	Air specific humidity (at surface)	5683 km		10 %	1.1 h	5.1 h	Asynoptic data	Potential realized
DriftBuoys TAO OPN	Air temperature (at surface)	4018 km		0.5 K	2.1 h	5 h	Asynoptic data	Potential realized
DriftBuoys TAO OPN	Sea surface bulk temperature	828 km		0.3	2.7 h	2.7 h	Asynoptic data	Potential realized
DriftBuoys TAO OPN	Wind vector over sea surface (horizontal)	1713 km		2 m/s	1.5 h	3.1 h	Asynoptic data	Potential realized
DriftBuoys TPO OPN	Air pressure over sea surface	3490 km		0.5 hPa	3.9 h	2.7 h	Asynoptic data	Potential realized
DriftBuoys TPO OPN	Air specific humidity (at surface)	99999 km		10 %	3.9 h	2.7 h	Asynoptic data	Potential realized
DriftBuoys TPO OPN	Air temperature (at surface)	4725 km		0.5 K	3.8 h	1.6 h	Asynoptic data	Potential realized
DriftBuoys TPO OPN	Sea surface bulk temperature	826 km		0.3	3.5 h	1.9 h	Asynoptic data	Potential realized
DriftBuoys TPO OPN	Wind vector over sea surface (horizontal)	8185 km		2 m/s	6.5 h	1.6 h	Asynoptic data	Potential realized
ETM+	Fractional Photosynthetically Active Radiation (FPAR)	0.03 km		15 % (Max)	1 d	1 d		Experimental
ETM+	Land cover	30 m		20 classes	0.04 y	2 d		Potential expected
ETM+	Land surface imagery	30 m			16 d	1 d		Potential
ETM+	Leaf Area Index (LAI)	0.03 km		20 % (Max)	16 d	1 d		Potential expected
ETM+	Normalized Differential Vegetation Index (NDVI)	0.03 km		5 % (Max)	1 d	1 d		Potential
ETM+	Vegetation type	30 m		20 classes	16 d	2 d		Potential expected
FRX-XBT NAO OPN realized	Sea surface bulk temperature	901 km		0.1	490 h	12 h	FRX mode to be enhanced	Potential
							along with implementation of Argo	
FRX-XBT NIO OPN realized	Sea surface bulk temperature	1008 km		0.1	490 h	12 h	FRX mode to be enhanced	Potential
							along with implementation of Argo	
FRX-XBT NPO OPN realized	Sea surface bulk temperature	830 km		0.1	490 h	12 h	FRX mode to be enhanced	Potential
							along with implementation of Argo	
FRX-XBT SAO OPN realized	Sea surface bulk temperature	1618 km		0.1	490 h	12 h	FRX mode to be enhanced	Potential
							along with implementation of Argo	
FRX-XBT SIO realized	Sea surface bulk temperature	882 km		0.1	490 h	12 h	FRX mode to be enhanced	Potential
							along with implementation of Argo	
FRX-XBT SPO OPN realized	Sea surface bulk temperature	2491 km		0.1	490 h	12 h	FRX mode to be enhanced	Potential
							along with implementation of Argo	

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
FRX-XBT TAO OPN realized	Sea surface bulk temperature	732 km		0.1	490 h	12 h	FRX mode to be enhanced	Potential
FRX-XBT TPO OPN realized	Sea surface bulk temperature	1134 km		0.1	490 h	12 h	FRX mode to be enhanced	Potential
FRX-XBT* NAO OPN	Sea surface bulk temperature	440 km		0.1	490 h	12 h	Once Argo implemented	Potential expected
FRX-XBT* NIO OPN	Sea surface bulk temperature	770 km		0.1	490 h	12 h	Once Argo implemented	Potential expected
FRX-XBT* NPO OPN	Sea surface bulk temperature	410 km		0.1	490 h	12 h	Once Argo implemented	Potential expected
FRX-XBT* SAO OPN	Sea surface bulk temperature	590 km		0.1	490 h	12 h	Once Argo implemented	Potential expected
FRX-XBT* SIO	Sea surface bulk temperature	780 km		0.1	490 h	12 h	Once Argo implemented	Potential expected
FRX-XBT* SPO OPN	Sea surface bulk temperature	540 km		0.1	490 h	12 h	Once Argo implemented	Potential expected
FRX-XBT* TAO OPN	Sea surface bulk temperature	760 km		0.1	490 h	12 h	Once Argo implemented	Potential expected
FRX-XBT* TPO OPN	Sea surface bulk temperature	720 km		0.1	490 h	12 h	Once Argo implemented	Potential expected
GIFTS	Atmospheric temperature profile	Lower stratosphere (LS)	25 km	2 km	1 K	12 h	2 h	Potential realized
GIFTS	Atmospheric temperature profile	Lower troposphere (LT)	25 km	1 km	1 K	12 h	2 h	Potential realized
GIFTS	Atmospheric temperature profile	Higher troposphere (HT)	25 km	1 km	1 K	12 h	2 h	Potential realized
GIFTS	Cloud cover		25 km		10 % (Max)	12 h	3 h	Potential expected
GIFTS	Cloud optical thickness		25 km		20 %	12 h	3 h	Experimental
GIFTS	Cloud top height		25 km		0.5 km	12 h	2 h	Potential
GIFTS	Cloud top temperature		25 km		2 K	12 h	3 h	Experimental
GIFTS	Land surface temperature		25 km		0.5 K	12 h	3 h	Experimental
GIFTS	Outgoing long-wave radiation at		25 km		5 m/s	12 h	3 h	Potential realized
GIFTS	Outgoing short-wave radiation at		25 km		5 W/m2	12 h	3 h	Potential realized
GIFTS	Ozone profile	Higher troposphere (HT)	25 km	5 km	15 %	12 h	3 h	Potential
GIFTS	Ozone profile	Total column	25 km		20 DU	12 h	3 h	Experimental
GIFTS	Sea surface bulk temperature		25 km		0.3	12 h	3 h	Potential realized
GIFTS	Specific humidity profile	Lower troposphere (LT)	25 km	1 km	10 %	12 h	2 h	Potential realized
GIFTS	Specific humidity profile	Higher troposphere (HT)	25 km	1 km	10 %	12 h	2 h	Potential realized
GIFTS	Specific humidity profile	Total column	25 km		2 kg/m2	12 h	2 h	Potential expected
GIFTS	Wind profile (horizontal component)	Higher troposphere (HT)	40 km	2 km	3 m/s	1 d	1 h	Experimental
GIFTS	Wind profile (horizontal component)	Lower troposphere (LT)	40 km	2 km	1 m/s	1 h	1 h	Potential expected
GLI	Cloud imagery		0.25 km			12 h	720 h	Potential expected
GLI	Cloud optical thickness		0.25 km		1 %	12 h	720 h	Potential realized
GLI	Iceberg fractional cover		0.25 km		0.5 % (Max)	0.5 d	30 d	Potential
GLI	Iceberg height		0.25 km		m	0.5 d	30 d	Potential
GLI	Land cover		250 m		15 classes	0.01 y	3 d	Potential expected
GLI	Sea-ice cover		0.25 km		50 % (Max)	0.5 d	30 d	Potential expected
GLI	Snow cover		1 km		10 % (Max)	12 h	24 h	Potential
GLI	Specific humidity profile	Total column	0.25 km		5 kg/m2	12 h	720 h	Potential expected
GLI	Vegetation type		250 m		10 classes	3 d	1 d	Potential

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
GOME	Ozone profile	Lower stratosphere (LS)	960 km	5 km	10 %	3 h	14 h		Potential expected
GOME-2	Ozone profile	Lower stratosphere (LS)	960 km	5 km	10 %	3 h	2 h		Potential expected
GOMOS	Ozone profile	Lower stratosphere (LS)	300 km	1 km	%	36 h	3 h		Experimental
GRAS	Atmospheric temperature profile	Higher stratosphere & mesosphere (HS & M)	1000 km	1 km	1 K	12 h	2 h		Potential expected
GRAS	Atmospheric temperature profile	Lower stratosphere (LS)	1000 km	1 km	1 K	12 h	2 h		Potential expected
GRAS	Atmospheric temperature profile	Higher troposphere (HT)	1000 km	1 km	1 K	12 h	2 h		Potential expected
GRAS	Specific humidity profile	Lower troposphere (LT)	1000 km	1 km	10 %	12 h	2 h		Potential expected
GSN	Air pressure over land surface		691 km		0.3 hPa	6 h	0.8 h		Potential realized
GSN	Air specific humidity (at surface)		691 km		5 %	6 h	0.8 h		Potential realized
GSN	Air temperature (at surface)		691 km		0.2 K	6 h	0.8 h		Potential realized
GSN	Cloud base height		691 km		0.5 km	6 h	0.8 h		Potential realized
GSN	Cloud cover		691 km		12.5 % (Max)	6 h	0.8 h		Potential realized
GSN	Precipitation index (daily)		691 km		0.1 mm/d	24 h	0.8 h		Potential realized
GSN	Wind vector over land surface (horizontal)		691 km		0.5 m/s	6 h	0.8 h		Potential realized
GSN ARC	Air pressure over land surface		526 km		0.3 hPa	6 h	0.8 h		Potential realized
GSN ARC	Air specific humidity (at surface)		526 km		5 %	6 h	0.8 h		Potential realized
GSN ARC	Air temperature (at surface)		526 km		0.2 K	6 h	0.8 h		Potential realized
GSN ARC	Cloud base height		526 km		0.5 km	6 h	0.8 h		Potential realized
GSN ARC	Cloud cover		526 km		12.5 % (Max)	6 h	0.8 h		Potential realized
GSN ARC	Precipitation index (daily)		526 km		0.1 mm/d	24 h	0.8 h		Potential realized
GSN ARC	Wind vector over land surface (horizontal)		526 km		0.5 m/s	6 h	0.8 h		Potential realized
GSN MED	Air pressure over land surface		567 km		0.3 hPa	6 h	0.8 h		Potential realized
GSN MED	Air specific humidity (at surface)		567 km		5 %	6 h	0.8 h		Potential realized
GSN MED	Air temperature (at surface)		567 km		0.2 K	6 h	0.8 h		Potential realized
GSN MED	Cloud base height		567 km		0.5 km	6 h	0.8 h		Potential realized
GSN MED	Cloud cover		567 km		12.5 % (Max)	6 h	0.8 h		Potential realized
GSN MED	Precipitation index (daily)		567 km		0.1 mm/d	24 h	0.8 h		Potential realized
GSN MED	Wind vector over land surface (horizontal)		567 km		0.5 m/s	6 h	0.8 h		Potential realized
GSN NAO OPN	Air pressure over land surface		2236 km		0.3 hPa	6 h	0.8 h		Potential realized
GSN NAO OPN	Air specific humidity (at surface)		2236 km		5 %	6 h	0.8 h		Potential realized
GSN NAO OPN	Air temperature (at surface)		2236 km		0.2 K	6 h	0.8 h		Potential realized
GSN NAO OPN	Cloud base height		2236 km		0.5 km	6 h	0.8 h		Potential realized
GSN NAO OPN	Cloud cover		2236 km		12.5 % (Max)	6 h	0.8 h		Potential realized
GSN NAO OPN	Precipitation index (daily)		2236 km		0.1 mm/d	24 h	0.8 h		Potential realized
GSN NAO OPN	Wind vector over land surface (horizontal)		2236 km		0.5 m/s	6 h	0.8 h		Potential realized
GSN NIO CST	Air pressure over land surface		1817 km		0.3 hPa	6 h	0.8 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
GSN NIO CST	Air specific humidity (at surface)	1817	km	5 %	6 h	0.8 h		Potential realized
GSN NIO CST	Air temperature (at surface)	1817	km	0.2 K	6 h	0.8 h		Potential realized
GSN NIO CST	Cloud base height	1817	km	0.5 km	6 h	0.8 h		Potential realized
GSN NIO CST	Cloud cover	1817	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN NIO CST	Precipitation index (daily)	1817	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN NIO CST	Wind vector over land surface (horizontal)	1817	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN NIO OPN	Air pressure over land surface	3391	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN NIO OPN	Air specific humidity (at surface)	3391	km	5 %	6 h	0.8 h		Potential realized
GSN NIO OPN	Air temperature (at surface)	3391	km	0.2 K	6 h	0.8 h		Potential realized
GSN NIO OPN	Cloud base height	3391	km	0.5 km	6 h	0.8 h		Potential realized
GSN NIO OPN	Cloud cover	3391	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN NIO OPN	Precipitation index (daily)	3391	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN NIO OPN	Wind vector over land surface (horizontal)	3391	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN NPO CST	Air pressure over land surface	1285	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN NPO CST	Air specific humidity (at surface)	1285	km	5 %	6 h	0.8 h		Potential realized
GSN NPO CST	Air temperature (at surface)	1285	km	0.2 K	6 h	0.8 h		Potential realized
GSN NPO CST	Cloud base height	1285	km	0.5 km	6 h	0.8 h		Potential realized
GSN NPO CST	Cloud cover	1285	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN NPO CST	Precipitation index (daily)	1285	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN NPO CST	Wind vector over land surface (horizontal)	1285	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-I N	Air pressure over land surface	548	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-I N	Air specific humidity (at surface)	548	km	5 %	6 h	0.8 h		Potential realized
GSN RA-I N	Air temperature (at surface)	548	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-I N	Cloud base height	548	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-I N	Cloud cover	548	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-I N	Precipitation index (daily)	548	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-I N	Wind vector over land surface (horizontal)	548	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-I S	Air pressure over land surface	379	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-I S	Air specific humidity (at surface)	379	km	5 %	6 h	0.8 h		Potential realized
GSN RA-I S	Air temperature (at surface)	379	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-I S	Cloud base height	379	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-I S	Cloud cover	379	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-I S	Precipitation index (daily)	379	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-I S	Wind vector over land surface (horizontal)	379	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-I T	Air pressure over land surface	445	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-I T	Air specific humidity (at surface)	445	km	5 %	6 h	0.8 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
GSN RA-I T	Air temperature (at surface)	445	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-I T	Cloud base height	445	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-I T	Cloud cover	445	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-I T	Precipitation index (daily)	445	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-I T	Wind vector over land surface (horizontal)	445	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-II E	Air pressure over land surface	360	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-II E	Air specific humidity (at surface)	360	km	5 %	6 h	0.8 h		Potential realized
GSN RA-II E	Air temperature (at surface)	360	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-II E	Cloud base height	360	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-II E	Cloud cover	360	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-II E	Precipitation index (daily)	360	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-II E	Wind vector over land surface (horizontal)	360	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-II N	Air pressure over land surface	329	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-II N	Air specific humidity (at surface)	329	km	5 %	6 h	0.8 h		Potential realized
GSN RA-II N	Air temperature (at surface)	329	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-II N	Cloud base height	329	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-II N	Cloud cover	329	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-II N	Precipitation index (daily)	329	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-II N	Wind vector over land surface (horizontal)	329	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-II S	Air pressure over land surface	351	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-II S	Air specific humidity (at surface)	351	km	5 %	6 h	0.8 h		Potential realized
GSN RA-II S	Air temperature (at surface)	351	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-II S	Cloud base height	351	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-II S	Cloud cover	351	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-II S	Precipitation index (daily)	351	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-II S	Wind vector over land surface (horizontal)	351	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-II W	Air pressure over land surface	503	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-II W	Air specific humidity (at surface)	503	km	5 %	6 h	0.8 h		Potential realized
GSN RA-II W	Air temperature (at surface)	503	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-II W	Cloud base height	503	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-II W	Cloud cover	503	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-II W	Precipitation index (daily)	503	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-II W	Wind vector over land surface (horizontal)	503	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-III N	Air pressure over land surface	383	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-III N	Air specific humidity (at surface)	383	km	5 %	6 h	0.8 h		Potential realized
GSN RA-III N	Air temperature (at surface)	383	km	0.2 K	6 h	0.8 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
GSN RA-III N	Cloud base height	383	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-III N	Cloud cover	383	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-III N	Precipitation index (daily)	383	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-III N	Wind vector over land surface (horizontal)	383	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-III S	Air pressure over land surface	316	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-III S	Air specific humidity (at surface)	316	km	5 %	6 h	0.8 h		Potential realized
GSN RA-III S	Air temperature (at surface)	316	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-III S	Cloud base height	316	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-III S	Cloud cover	316	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-III S	Precipitation index (daily)	316	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-III S	Wind vector over land surface (horizontal)	316	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-IV C	Air pressure over land surface	360	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-IV C	Air specific humidity (at surface)	360	km	5 %	6 h	0.8 h		Potential realized
GSN RA-IV C	Air temperature (at surface)	360	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-IV C	Cloud base height	360	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-IV C	Cloud cover	360	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-IV C	Precipitation index (daily)	360	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-IV C	Wind vector over land surface (horizontal)	360	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-IV N	Air pressure over land surface	400	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-IV N	Air specific humidity (at surface)	400	km	5 %	6 h	0.8 h		Potential realized
GSN RA-IV N	Air temperature (at surface)	400	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-IV N	Cloud base height	400	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-IV N	Cloud cover	400	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-IV N	Precipitation index (daily)	400	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-IV N	Wind vector over land surface (horizontal)	400	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-IV S	Air pressure over land surface	536	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-IV S	Air specific humidity (at surface)	536	km	5 %	6 h	0.8 h		Potential realized
GSN RA-IV S	Air temperature (at surface)	536	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-IV S	Cloud base height	536	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-IV S	Cloud cover	536	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-IV S	Precipitation index (daily)	536	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-IV S	Wind vector over land surface (horizontal)	536	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-V NW	Air pressure over land surface	704	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-V NW	Air specific humidity (at surface)	704	km	5 %	6 h	0.8 h		Potential realized
GSN RA-V NW	Air temperature (at surface)	704	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-V NW	Cloud base height	704	km	0.5 km	6 h	0.8 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
GSN RA-V NW	Cloud cover	704	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-V NW	Precipitation index (daily)	704	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-V NW	Wind vector over land surface (horizontal)	704	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-V SW	Air pressure over land surface	590	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-V SW	Air specific humidity (at surface)	590	km	5 %	6 h	0.8 h		Potential realized
GSN RA-V SW	Air temperature (at surface)	590	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-V SW	Cloud base height	590	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-V SW	Cloud cover	590	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-V SW	Precipitation index (daily)	590	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-V SW	Wind vector over land surface (horizontal)	590	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-VI EE	Air pressure over land surface	269	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-VI EE	Air specific humidity (at surface)	269	km	5 %	6 h	0.8 h		Potential realized
GSN RA-VI EE	Air temperature (at surface)	269	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-VI EE	Cloud base height	269	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-VI EE	Cloud cover	269	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-VI EE	Precipitation index (daily)	269	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-VI EE	Wind vector over land surface (horizontal)	269	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-VI WE	Air pressure over land surface	316	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-VI WE	Air specific humidity (at surface)	316	km	5 %	6 h	0.8 h		Potential realized
GSN RA-VI WE	Air temperature (at surface)	316	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-VI WE	Cloud base height	316	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-VI WE	Cloud cover	316	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-VI WE	Precipitation index (daily)	316	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-VI WE	Wind vector over land surface (horizontal)	316	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN RA-VII	Air pressure over land surface	1334	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN RA-VII	Air specific humidity (at surface)	1334	km	5 %	6 h	0.8 h		Potential realized
GSN RA-VII	Air temperature (at surface)	1334	km	0.2 K	6 h	0.8 h		Potential realized
GSN RA-VII	Cloud base height	1334	km	0.5 km	6 h	0.8 h		Potential realized
GSN RA-VII	Cloud cover	1334	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN RA-VII	Precipitation index (daily)	1334	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN RA-VII	Wind vector over land surface (horizontal)	1334	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN SAO OPN	Air pressure over land surface	4940	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN SAO OPN	Air specific humidity (at surface)	4940	km	5 %	6 h	0.8 h		Potential realized
GSN SAO OPN	Air temperature (at surface)	4940	km	0.2 K	6 h	0.8 h		Potential realized
GSN SAO OPN	Cloud base height	4940	km	0.5 km	6 h	0.8 h		Potential realized
GSN SAO OPN	Cloud cover	4940	km	12.5 % (Max)	6 h	0.8 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
GSN SAO OPN	Precipitation index (daily)	4940	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN SAO OPN	Wind vector over land surface (horizontal)	4940	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN SIO	Air pressure over land surface	1781	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN SIO	Air specific humidity (at surface)	1781	km	5 %	6 h	0.8 h		Potential realized
GSN SIO	Air temperature (at surface)	1781	km	0.2 K	6 h	0.8 h		Potential realized
GSN SIO	Cloud base height	1781	km	0.5 km	6 h	0.8 h		Potential realized
GSN SIO	Cloud cover	1781	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN SIO	Precipitation index (daily)	1781	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN SIO	Wind vector over land surface (horizontal)	1781	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN SPO CST	Air pressure over land surface	949	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN SPO CST	Air specific humidity (at surface)	949	km	5 %	6 h	0.8 h		Potential realized
GSN SPO CST	Air temperature (at surface)	949	km	0.2 K	6 h	0.8 h		Potential realized
GSN SPO CST	Cloud base height	949	km	0.5 km	6 h	0.8 h		Potential realized
GSN SPO CST	Cloud cover	949	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN SPO CST	Precipitation index (daily)	949	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN SPO CST	Wind vector over land surface (horizontal)	949	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN SPO OPN	Air pressure over land surface	2327	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN SPO OPN	Air specific humidity (at surface)	2327	km	5 %	6 h	0.8 h		Potential realized
GSN SPO OPN	Air temperature (at surface)	2327	km	0.2 K	6 h	0.8 h		Potential realized
GSN SPO OPN	Cloud base height	2327	km	0.5 km	6 h	0.8 h		Potential realized
GSN SPO OPN	Cloud cover	2327	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN SPO OPN	Precipitation index (daily)	2327	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN SPO OPN	Wind vector over land surface (horizontal)	2327	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN TAO OPN	Air pressure over land surface	2371	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN TAO OPN	Air specific humidity (at surface)	2371	km	5 %	6 h	0.8 h		Potential realized
GSN TAO OPN	Air temperature (at surface)	2371	km	0.2 K	6 h	0.8 h		Potential realized
GSN TAO OPN	Cloud base height	2371	km	0.5 km	6 h	0.8 h		Potential realized
GSN TAO OPN	Cloud cover	2371	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN TAO OPN	Precipitation index (daily)	2371	km	0.1 mm/d	24 h	0.8 h		Potential realized
GSN TAO OPN	Wind vector over land surface (horizontal)	2371	km	0.5 m/s	6 h	0.8 h		Potential realized
GSN TPO OPN	Air pressure over land surface	1351	km	0.3 hPa	6 h	0.8 h		Potential realized
GSN TPO OPN	Air specific humidity (at surface)	1351	km	5 %	6 h	0.8 h		Potential realized
GSN TPO OPN	Air temperature (at surface)	1351	km	0.2 K	6 h	0.8 h		Potential realized
GSN TPO OPN	Cloud base height	1351	km	0.5 km	6 h	0.8 h		Potential realized
GSN TPO OPN	Cloud cover	1351	km	12.5 % (Max)	6 h	0.8 h		Potential realized
GSN TPO OPN	Precipitation index (daily)	1351	km	0.1 mm/d	24 h	0.8 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy		Obsv Cycle	Delay	Comment	Con
GSN TPO OPN	Wind vector over land surface (horizontal)		1351 km		0.5 m/s		6 h	0.8 h		Potential realized
GUAN	Atmospheric temperature profile	Higher troposphere (HT)	1726 km	0.15 km	1 K		12 h	1.5 h		Potential realized
GUAN	Atmospheric temperature profile	Lower troposphere (LT)	1726 km	0.15 km	1 K		12 h	1.5 h		Potential realized
GUAN	Atmospheric temperature profile	Lower stratosphere (LS)	1726 km	0.15 km	2 K		12 h	1.5 h		Potential realized
GUAN	Specific humidity profile	Higher troposphere (HT)	1726 km	0.15 km	5 %		12 h	1.5 h		Potential realized
GUAN	Specific humidity profile	Lower troposphere (LT)	1726 km	0.15 km	5 %		12 h	1.5 h		Potential realized
GUAN	Wind profile (horizontal component)	Lower troposphere (LT)	1726 km	0.3 km	2 m/s		12 h	1.5 h		Potential realized
GUAN	Wind profile (horizontal component)	Lower stratosphere (LS)	1726 km	0.3 km	2 m/s		12 h	1.5 h		Potential realized
GUAN	Wind profile (horizontal component)	Higher troposphere (HT)	1726 km	0.3 km	2 m/s		12 d	1.5 h		Potential realized
GUAN ARC	Atmospheric temperature profile	Higher troposphere (HT)	1577 km	0.15 km	1 K		12 h	1.5 h		Potential realized
GUAN ARC	Atmospheric temperature profile	Lower stratosphere (LS)	1577 km	0.15 km	2 K		12 h	1.5 h		Potential realized
GUAN ARC	Atmospheric temperature profile	Lower troposphere (LT)	1577 km	0.15 km	1 K		12 h	1.5 h		Potential realized
GUAN ARC	Specific humidity profile	Higher troposphere (HT)	1577 km	0.15 km	5 %		12 h	1.5 h		Potential realized
GUAN ARC	Specific humidity profile	Lower troposphere (LT)	1577 km	0.15 km	5 %		12 h	1.5 h		Potential realized
GUAN ARC	Wind profile (horizontal component)	Higher troposphere (HT)	1577 km	0.3 km	2 m/s		12 d	1.5 h		Potential realized
GUAN ARC	Wind profile (horizontal component)	Lower troposphere (LT)	1577 km	0.3 km	2 m/s		12 h	1.5 h		Potential realized
GUAN ARC	Wind profile (horizontal component)	Lower stratosphere (LS)	1577 km	0.3 km	2 m/s		12 h	1.5 h		Potential realized
GUAN NAO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	3536 km	0.15 km	2 K		12 h	1.5 h		Potential realized
GUAN NAO OPN	Atmospheric temperature profile	Lower troposphere (LT)	3536 km	0.15 km	1 K		12 h	1.5 h		Potential realized
GUAN NAO OPN	Atmospheric temperature profile	Higher troposphere (HT)	3536 km	0.15 km	1 K		12 h	1.5 h		Potential realized
GUAN NAO OPN	Specific humidity profile	Higher troposphere (HT)	3536 km	0.15 km	5 %		12 h	1.5 h		Potential realized
GUAN NAO OPN	Specific humidity profile	Lower troposphere (LT)	3536 km	0.15 km	5 %		12 h	1.5 h		Potential realized
GUAN NAO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	3536 km	0.3 km	2 m/s		12 h	1.5 h		Potential realized
GUAN NAO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	3536 km	0.3 km	2 m/s		12 d	1.5 h		Potential realized
GUAN NAO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	3536 km	0.3 km	2 m/s		12 h	1.5 h		Potential realized
GUAN NIO OPN	Atmospheric temperature profile	Lower troposphere (LT)	3391 km	0.15 km	1 K		12 h	1.5 h		Potential realized
GUAN NIO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	3391 km	0.15 km	2 K		12 h	1.5 h		Potential realized
GUAN NIO OPN	Atmospheric temperature profile	Higher troposphere (HT)	3391 km	0.15 km	1 K		12 h	1.5 h		Potential realized
GUAN NIO OPN	Specific humidity profile	Lower troposphere (LT)	3391 km	0.15 km	5 %		12 h	1.5 h		Potential realized
GUAN NIO OPN	Specific humidity profile	Higher troposphere (HT)	3391 km	0.15 km	5 %		12 h	1.5 h		Potential realized
GUAN NIO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	3391 km	0.3 km	2 m/s		12 h	1.5 h		Potential realized
GUAN NIO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	3391 km	0.3 km	2 m/s		12 d	1.5 h		Potential realized
GUAN NIO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	3391 km	0.3 km	2 m/s		12 h	1.5 h		Potential realized
GUAN NPO CST	Atmospheric temperature profile	Higher troposphere (HT)	1285 km	0.15 km	1 K		12 h	1.5 h		Potential realized
GUAN NPO CST	Atmospheric temperature profile	Lower stratosphere (LS)	1285 km	0.15 km	2 K		12 h	1.5 h		Potential realized
GUAN NPO CST	Atmospheric temperature profile	Lower troposphere (LT)	1285 km	0.15 km	1 K		12 h	1.5 h		Potential realized
GUAN NPO CST	Specific humidity profile	Lower troposphere (LT)	1285 km	0.15 km	5 %		12 h	1.5 h		Potential realized
GUAN NPO CST	Specific humidity profile	Higher troposphere (HT)	1285 km	0.15 km	5 %		12 h	1.5 h		Potential realized
GUAN NPO CST	Wind profile (horizontal component)	Lower stratosphere (LS)	1285 km	0.3 km	2 m/s		12 h	1.5 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
GUAN NPO CST	Wind profile (horizontal component)	Lower troposphere (LT)	1285 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN NPO CST	Wind profile (horizontal component)	Higher troposphere (HT)	1285 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
GUAN RA-I N	Atmospheric temperature profile	Lower stratosphere (LS)	2156 km	0.15 km	2 K	12 h	1.5 h		Potential realized
GUAN RA-I N	Atmospheric temperature profile	Lower troposphere (LT)	2156 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-I N	Atmospheric temperature profile	Higher troposphere (HT)	2156 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-I N	Specific humidity profile	Higher troposphere (HT)	2156 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-I N	Specific humidity profile	Lower troposphere (LT)	2156 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-I N	Wind profile (horizontal component)	Lower stratosphere (LS)	2156 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-I N	Wind profile (horizontal component)	Lower troposphere (LT)	2156 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-I N	Wind profile (horizontal component)	Higher troposphere (HT)	2156 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
GUAN RA-I S	Atmospheric temperature profile	Lower troposphere (LT)	1072 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-I S	Atmospheric temperature profile	Higher troposphere (HT)	1072 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-I S	Atmospheric temperature profile	Lower stratosphere (LS)	1072 km	0.15 km	2 K	12 h	1.5 h		Potential realized
GUAN RA-I S	Specific humidity profile	Lower troposphere (LT)	1072 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-I S	Specific humidity profile	Higher troposphere (HT)	1072 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-I S	Wind profile (horizontal component)	Lower troposphere (LT)	1072 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-I S	Wind profile (horizontal component)	Higher troposphere (HT)	1072 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
GUAN RA-I S	Wind profile (horizontal component)	Lower stratosphere (LS)	1072 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-I T	Atmospheric temperature profile	Lower stratosphere (LS)	1293 km	0.15 km	2 K	12 h	1.5 h		Potential realized
GUAN RA-I T	Atmospheric temperature profile	Lower troposphere (LT)	1293 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-I T	Atmospheric temperature profile	Higher troposphere (HT)	1293 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-I T	Specific humidity profile	Higher troposphere (HT)	1293 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-I T	Specific humidity profile	Lower troposphere (LT)	1293 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-I T	Wind profile (horizontal component)	Lower stratosphere (LS)	1293 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-I T	Wind profile (horizontal component)	Lower troposphere (LT)	1293 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-I T	Wind profile (horizontal component)	Higher troposphere (HT)	1293 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
GUAN RA-II E	Atmospheric temperature profile	Lower stratosphere (LS)	766 km	0.15 km	2 K	12 h	1.5 h		Potential realized
GUAN RA-II E	Atmospheric temperature profile	Lower troposphere (LT)	766 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-II E	Atmospheric temperature profile	Higher troposphere (HT)	766 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-II E	Specific humidity profile	Lower troposphere (LT)	766 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-II E	Specific humidity profile	Higher troposphere (HT)	766 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-II E	Wind profile (horizontal component)	Higher troposphere (HT)	766 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
GUAN RA-II E	Wind profile (horizontal component)	Lower troposphere (LT)	766 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-II E	Wind profile (horizontal component)	Lower stratosphere (LS)	766 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-II N	Atmospheric temperature profile	Lower stratosphere (LS)	1057 km	0.15 km	2 K	12 h	1.5 h		Potential realized
GUAN RA-II N	Atmospheric temperature profile	Higher troposphere (HT)	1057 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-II N	Atmospheric temperature profile	Lower troposphere (LT)	1057 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-II N	Specific humidity profile	Higher troposphere (HT)	1057 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-II N	Specific humidity profile	Lower troposphere (LT)	1057 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-II N	Wind profile (horizontal component)	Higher troposphere (HT)	1057 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con	
GUAN RA-II N	Wind profile (horizontal component)	Lower troposphere (LT)	1057	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN RA-II N	Wind profile (horizontal component)	Lower stratosphere (LS)	1057	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN RA-II S	Atmospheric temperature profile	Lower troposphere (LT)	1197	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN RA-II S	Atmospheric temperature profile	Higher troposphere (HT)	1197	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN RA-II S	Atmospheric temperature profile	Lower stratosphere (LS)	1197	km	0.15 km	2	K	12 h	1.5 h	Potential realized
GUAN RA-II S	Specific humidity profile	Higher troposphere (HT)	1197	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN RA-II S	Specific humidity profile	Lower troposphere (LT)	1197	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN RA-II S	Wind profile (horizontal component)	Lower troposphere (LT)	1197	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN RA-II S	Wind profile (horizontal component)	Lower stratosphere (LS)	1197	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN RA-II S	Wind profile (horizontal component)	Higher troposphere (HT)	1197	km	0.3 km	2	m/s	12 d	1.5 h	Potential realized
GUAN RA-II W	Atmospheric temperature profile	Lower troposphere (LT)	1510	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN RA-II W	Atmospheric temperature profile	Higher troposphere (HT)	1510	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN RA-II W	Atmospheric temperature profile	Lower stratosphere (LS)	1510	km	0.15 km	2	K	12 h	1.5 h	Potential realized
GUAN RA-II W	Specific humidity profile	Higher troposphere (HT)	1510	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN RA-II W	Specific humidity profile	Lower troposphere (LT)	1510	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN RA-II W	Wind profile (horizontal component)	Lower stratosphere (LS)	1510	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN RA-II W	Wind profile (horizontal component)	Lower troposphere (LT)	1510	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN RA-II W	Wind profile (horizontal component)	Higher troposphere (HT)	1510	km	0.3 km	2	m/s	12 d	1.5 h	Potential realized
GUAN RA-III N	Atmospheric temperature profile	Higher troposphere (HT)	1118	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN RA-III N	Atmospheric temperature profile	Lower stratosphere (LS)	1118	km	0.15 km	2	K	12 h	1.5 h	Potential realized
GUAN RA-III N	Atmospheric temperature profile	Lower troposphere (LT)	1118	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN RA-III N	Specific humidity profile	Higher troposphere (HT)	1118	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN RA-III N	Specific humidity profile	Lower troposphere (LT)	1118	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN RA-III N	Wind profile (horizontal component)	Higher troposphere (HT)	1118	km	0.3 km	2	m/s	12 d	1.5 h	Potential realized
GUAN RA-III N	Wind profile (horizontal component)	Lower troposphere (LT)	1118	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN RA-III N	Wind profile (horizontal component)	Lower stratosphere (LS)	1118	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN RA-III S	Atmospheric temperature profile	Higher troposphere (HT)	725	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN RA-III S	Atmospheric temperature profile	Lower stratosphere (LS)	725	km	0.15 km	2	K	12 h	1.5 h	Potential realized
GUAN RA-III S	Atmospheric temperature profile	Lower troposphere (LT)	725	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN RA-III S	Specific humidity profile	Lower troposphere (LT)	725	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN RA-III S	Specific humidity profile	Higher troposphere (HT)	725	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN RA-III S	Wind profile (horizontal component)	Higher troposphere (HT)	725	km	0.3 km	2	m/s	12 d	1.5 h	Potential realized
GUAN RA-III S	Wind profile (horizontal component)	Lower troposphere (LT)	725	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN RA-III S	Wind profile (horizontal component)	Lower stratosphere (LS)	725	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN RA-IV C	Atmospheric temperature profile	Lower troposphere (LT)	1195	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN RA-IV C	Atmospheric temperature profile	Higher troposphere (HT)	1195	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN RA-IV C	Atmospheric temperature profile	Lower stratosphere (LS)	1195	km	0.15 km	2	K	12 h	1.5 h	Potential realized
GUAN RA-IV C	Specific humidity profile	Lower troposphere (LT)	1195	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN RA-IV C	Specific humidity profile	Higher troposphere (HT)	1195	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN RA-IV C	Wind profile (horizontal component)	Lower stratosphere (LS)	1195	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
GUAN RA-IV C	Wind profile (horizontal component)	Higher troposphere (HT)	1195 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
GUAN RA-IV C	Wind profile (horizontal component)	Lower troposphere (LT)	1195 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-IV N	Atmospheric temperature profile	Lower stratosphere (LS)	1414 km	0.15 km	2 K	12 h	1.5 h		Potential realized
GUAN RA-IV N	Atmospheric temperature profile	Higher troposphere (HT)	1414 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-IV N	Atmospheric temperature profile	Lower troposphere (LT)	1414 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-IV N	Specific humidity profile	Lower troposphere (LT)	1414 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-IV N	Specific humidity profile	Higher troposphere (HT)	1414 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-IV N	Wind profile (horizontal component)	Lower stratosphere (LS)	1414 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-IV N	Wind profile (horizontal component)	Lower troposphere (LT)	1414 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-IV N	Wind profile (horizontal component)	Higher troposphere (HT)	1414 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
GUAN RA-IV S	Atmospheric temperature profile	Higher troposphere (HT)	993 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-IV S	Atmospheric temperature profile	Lower stratosphere (LS)	993 km	0.15 km	2 K	12 h	1.5 h		Potential realized
GUAN RA-IV S	Atmospheric temperature profile	Lower troposphere (LT)	993 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-IV S	Specific humidity profile	Lower troposphere (LT)	993 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-IV S	Specific humidity profile	Higher troposphere (HT)	993 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-IV S	Wind profile (horizontal component)	Lower stratosphere (LS)	993 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-IV S	Wind profile (horizontal component)	Lower troposphere (LT)	993 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-IV S	Wind profile (horizontal component)	Higher troposphere (HT)	993 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
GUAN RA-V NW	Atmospheric temperature profile	Lower stratosphere (LS)	1459 km	0.15 km	2 K	12 h	1.5 h		Potential realized
GUAN RA-V NW	Atmospheric temperature profile	Higher troposphere (HT)	1459 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-V NW	Atmospheric temperature profile	Lower troposphere (LT)	1459 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-V NW	Specific humidity profile	Higher troposphere (HT)	1459 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-V NW	Specific humidity profile	Lower troposphere (LT)	1459 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-V NW	Wind profile (horizontal component)	Lower troposphere (LT)	1459 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-V NW	Wind profile (horizontal component)	Lower stratosphere (LS)	1459 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-V NW	Wind profile (horizontal component)	Higher troposphere (HT)	1459 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
GUAN RA-V SW	Atmospheric temperature profile	Lower troposphere (LT)	1351 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-V SW	Atmospheric temperature profile	Higher troposphere (HT)	1351 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-V SW	Atmospheric temperature profile	Lower stratosphere (LS)	1351 km	0.15 km	2 K	12 h	1.5 h		Potential realized
GUAN RA-V SW	Specific humidity profile	Higher troposphere (HT)	1351 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-V SW	Specific humidity profile	Lower troposphere (LT)	1351 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-V SW	Wind profile (horizontal component)	Lower stratosphere (LS)	1351 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-V SW	Wind profile (horizontal component)	Lower troposphere (LT)	1351 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
GUAN RA-V SW	Wind profile (horizontal component)	Higher troposphere (HT)	1351 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
GUAN RA-VI EE	Atmospheric temperature profile	Lower troposphere (LT)	1140 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-VI EE	Atmospheric temperature profile	Higher troposphere (HT)	1140 km	0.15 km	1 K	12 h	1.5 h		Potential realized
GUAN RA-VI EE	Atmospheric temperature profile	Lower stratosphere (LS)	1140 km	0.15 km	2 K	12 h	1.5 h		Potential realized
GUAN RA-VI EE	Specific humidity profile	Lower troposphere (LT)	1140 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-VI EE	Specific humidity profile	Higher troposphere (HT)	1140 km	0.15 km	5 %	12 h	1.5 h		Potential realized
GUAN RA-VI EE	Wind profile (horizontal component)	Lower stratosphere (LS)	1140 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
GUAN RA-VI EE	Wind profile (horizontal component)	Higher troposphere (HT)	1140	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
GUAN RA-VI EE	Wind profile (horizontal component)	Lower troposphere (LT)	1140	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
GUAN RA-VI WE	Atmospheric temperature profile	Lower troposphere (LT)	730	km	0.15 km	1	K	12 h 1.5 h	Potential realized
GUAN RA-VI WE	Atmospheric temperature profile	Higher troposphere (HT)	730	km	0.15 km	1	K	12 h 1.5 h	Potential realized
GUAN RA-VI WE	Atmospheric temperature profile	Lower stratosphere (LS)	730	km	0.15 km	2	K	12 h 1.5 h	Potential realized
GUAN RA-VI WE	Specific humidity profile	Lower troposphere (LT)	730	km	0.15 km	5	%	12 h 1.5 h	Potential realized
GUAN RA-VI WE	Specific humidity profile	Higher troposphere (HT)	730	km	0.15 km	5	%	12 h 1.5 h	Potential realized
GUAN RA-VI WE	Wind profile (horizontal component)	Lower stratosphere (LS)	730	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
GUAN RA-VI WE	Wind profile (horizontal component)	Higher troposphere (HT)	730	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
GUAN RA-VI WE	Wind profile (horizontal component)	Lower troposphere (LT)	730	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
GUAN RA-VII	Atmospheric temperature profile	Higher troposphere (HT)	1722	km	0.15 km	1	K	12 h 1.5 h	Potential realized
GUAN RA-VII	Atmospheric temperature profile	Lower troposphere (LT)	1722	km	0.15 km	1	K	12 h 1.5 h	Potential realized
GUAN RA-VII	Atmospheric temperature profile	Lower stratosphere (LS)	1722	km	0.15 km	2	K	12 h 1.5 h	Potential realized
GUAN RA-VII	Specific humidity profile	Higher troposphere (HT)	1722	km	0.15 km	5	%	12 h 1.5 h	Potential realized
GUAN RA-VII	Specific humidity profile	Lower troposphere (LT)	1722	km	0.15 km	5	%	12 h 1.5 h	Potential realized
GUAN RA-VII	Wind profile (horizontal component)	Higher troposphere (HT)	1722	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
GUAN RA-VII	Wind profile (horizontal component)	Lower troposphere (LT)	1722	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
GUAN RA-VII	Wind profile (horizontal component)	Lower stratosphere (LS)	1722	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
GUAN SAO OPN	Atmospheric temperature profile	Lower troposphere (LT)	3493	km	0.15 km	1	K	12 h 1.5 h	Potential realized
GUAN SAO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	3493	km	0.15 km	2	K	12 h 1.5 h	Potential realized
GUAN SAO OPN	Atmospheric temperature profile	Higher troposphere (HT)	3493	km	0.15 km	1	K	12 h 1.5 h	Potential realized
GUAN SAO OPN	Specific humidity profile	Higher troposphere (HT)	3493	km	0.15 km	5	%	12 h 1.5 h	Potential realized
GUAN SAO OPN	Specific humidity profile	Lower troposphere (LT)	3493	km	0.15 km	5	%	12 h 1.5 h	Potential realized
GUAN SAO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	3493	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
GUAN SAO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	3493	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
GUAN SAO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	3493	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
GUAN SIO	Atmospheric temperature profile	Lower stratosphere (LS)	2519	km	0.15 km	2	K	12 h 1.5 h	Potential realized
GUAN SIO	Atmospheric temperature profile	Higher troposphere (HT)	2519	km	0.15 km	1	K	12 h 1.5 h	Potential realized
GUAN SIO	Atmospheric temperature profile	Lower troposphere (LT)	2519	km	0.15 km	1	K	12 h 1.5 h	Potential realized
GUAN SIO	Specific humidity profile	Lower troposphere (LT)	2519	km	0.15 km	5	%	12 h 1.5 h	Potential realized
GUAN SIO	Specific humidity profile	Higher troposphere (HT)	2519	km	0.15 km	5	%	12 h 1.5 h	Potential realized
GUAN SIO	Wind profile (horizontal component)	Lower stratosphere (LS)	2519	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
GUAN SIO	Wind profile (horizontal component)	Lower troposphere (LT)	2519	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
GUAN SIO	Wind profile (horizontal component)	Higher troposphere (HT)	2519	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
GUAN SPO OPN	Atmospheric temperature profile	Lower troposphere (LT)	2850	km	0.15 km	1	K	12 h 1.5 h	Potential realized
GUAN SPO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	2850	km	0.15 km	2	K	12 h 1.5 h	Potential realized
GUAN SPO OPN	Atmospheric temperature profile	Higher troposphere (HT)	2850	km	0.15 km	1	K	12 h 1.5 h	Potential realized
GUAN SPO OPN	Specific humidity profile	Lower troposphere (LT)	2850	km	0.15 km	5	%	12 h 1.5 h	Potential realized
GUAN SPO OPN	Specific humidity profile	Higher troposphere (HT)	2850	km	0.15 km	5	%	12 h 1.5 h	Potential realized
GUAN SPO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	2850	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con	
GUAN SPO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	2850	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN SPO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	2850	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN TAO OPN	Atmospheric temperature profile	Lower troposphere (LT)	3061	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN TAO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	3061	km	0.15 km	2	K	12 h	1.5 h	Potential realized
GUAN TAO OPN	Atmospheric temperature profile	Higher troposphere (HT)	3061	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN TAO OPN	Specific humidity profile	Higher troposphere (HT)	3061	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN TAO OPN	Specific humidity profile	Lower troposphere (LT)	3061	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN TAO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	3061	km	0.3 km	2	m/s	12 d	1.5 h	Potential realized
GUAN TAO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	3061	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN TAO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	3061	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN TPO OPN	Atmospheric temperature profile	Higher troposphere (HT)	2598	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN TPO OPN	Atmospheric temperature profile	Lower troposphere (LT)	2598	km	0.15 km	1	K	12 h	1.5 h	Potential realized
GUAN TPO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	2598	km	0.15 km	2	K	12 h	1.5 h	Potential realized
GUAN TPO OPN	Specific humidity profile	Higher troposphere (HT)	2598	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN TPO OPN	Specific humidity profile	Lower troposphere (LT)	2598	km	0.15 km	5	%	12 h	1.5 h	Potential realized
GUAN TPO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	2598	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN TPO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	2598	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
GUAN TPO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	2598	km	0.3 km	2	m/s	12 d	1.5 h	Potential realized
HALOE	Ozone profile	Lower stratosphere (LS)		km	3 km	10	%	576 h	24 h	Experimental
HDX-XBT MED	Sea surface bulk temperature		174	km		0.1		727 h	12 h	MFS Pilot Project Potential realized
HDX-XBT NAO OPN realized	Sea surface bulk temperature		203	km		0.1		2190 h	12 h	HDX mode to be enhanced Potential
										along with implementation of Argo
HDX-XBT NIO OPN realized	Sea surface bulk temperature		356	km		0.1		2190 h	12 h	HDX mode to be enhanced Potential
										along with implementation of Argo
HDX-XBT NPO OPN realized	Sea surface bulk temperature		196	km		0.1		2190 h	12 h	HDX mode to be enhanced Potential
										along with implementation of Argo
HDX-XBT SAO OPN realized	Sea surface bulk temperature		1029	km		0.1		2190 h	12 h	HDX mode to be enhanced Potential
										along with implementation of Argo
HDX-XBT SIO realized	Sea surface bulk temperature		333	km		0.1		2190 h	12 h	HDX mode to be enhanced Potential
										along with implementation of Argo
HDX-XBT SPO OPN realized	Sea surface bulk temperature		284	km		0.1		2190 h	12 h	HDX mode to be enhanced Potential
										along with implementation of Argo
HDX-XBT TAO OPN realized	Sea surface bulk temperature		912	km		0.1		2190 h	12 h	HDX mode to be enhanced Potential
										along with implementation of Argo
HDX-XBT TPO OPN realized	Sea surface bulk temperature		359	km		0.1		2190 h	12 h	HDX mode to be enhanced Potential
										along with implementation of Argo

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
HDX-XBT* NAO OPN	Sea surface bulk temperature		220 km		0.1	2190 h	12 h	Once Argo implemented	Potential expected
HDX-XBT* NIO OPN	Sea surface bulk temperature		170 km		0.1	2190 h	12 h	Once Argo implemented	Potential expected
HDX-XBT* NPO OPN	Sea surface bulk temperature		220 km		0.1	2190 h	12 h	Once Argo implemented	Potential expected
HDX-XBT* SAO OPN	Sea surface bulk temperature		520 km		0.1	2190 h	12 h	Once Argo implemented	Potential expected
HDX-XBT* SIO	Sea surface bulk temperature		300 km		0.1	2190 h	12 h	Once Argo implemented	Potential expected
HDX-XBT* SPO OPN	Sea surface bulk temperature		390 km		0.1	2190 h	12 h	Once Argo implemented	Potential expected
HDX-XBT* TAO OPN	Sea surface bulk temperature		170 km		0.1	2190 h	12 h	Once Argo implemented	Potential expected
HDX-XBT* TPO OPN	Sea surface bulk temperature		280 km		0.1	2190 h	12 h	Once Argo implemented	Potential expected
HIRS/2	Atmospheric temperature profile	Lower troposphere (LT)	80 km	1 km	2.5 K	12 h	2 h		Potential realized
HIRS/2	Atmospheric temperature profile	Lower stratosphere (LS)	80 km	2 km	2 K	12 h	2 h		Potential realized
HIRS/2	Atmospheric temperature profile	Higher troposphere (HT)	80 km	1 km	2.5 K	12 h	2 h		Potential realized
HIRS/2	Cloud cover		80 km		20 % (Max)	12 h	2 h		Potential expected
HIRS/2	Cloud optical thickness		80 km		20 %	12 h	2 h		Experimental
HIRS/2	Cloud top height		80 km		0.7 km	12 h	2 h		Potential
HIRS/2	Ozone profile	Total column	80 km		30 DU	12 h	2 h		Experimental
HIRS/2	Specific humidity profile	Higher troposphere (HT)	80 km	1 km	20 %	12 h	2 h		Potential realized
HIRS/2	Specific humidity profile	Lower troposphere (LT)	80 km	1 km	20 %	12 h	2 h		Potential realized
HIRS/2	Specific humidity profile	Total column	80 km		2 kg/m2	12 h	2 h		Potential expected
HIRS/3	Atmospheric temperature profile	Lower stratosphere (LS)	40 km	2 km	2 K	12 h	2 h		Potential realized
HIRS/3	Atmospheric temperature profile	Lower troposphere (LT)	40 km	1 km	2.5 K	12 h	2 h		Potential realized
HIRS/3	Atmospheric temperature profile	Higher troposphere (HT)	40 km	1 km	2.5 K	12 h	2 h		Potential realized
HIRS/3	Cloud cover		40 km		20 % (Max)	12 h	2 h		Potential expected
HIRS/3	Cloud optical thickness		40 km		20 %	12 h	2 h		Experimental
HIRS/3	Cloud top height		40 km		0.7 km	12 h	2 h		Potential expected
HIRS/3	Cloud top temperature		40 km		2 K	12 h	2 h		Potential expected
HIRS/3	Land surface temperature		40 km		2 K	12 h	2 h		Potential expected
HIRS/3	Outgoing long-wave radiation at		40 km		10 m/s	12 h	2 h		Potential realized
HIRS/3	Outgoing short-wave radiation at		40 km		10 W/m2	12 h	2 h		Potential realized
HIRS/3	Ozone profile	Total column	40 km		30 DU	12 h	2 h		Experimental
HIRS/3	Sea surface bulk temperature		40 km		0.5	12 h	2 h		Potential realized
HIRS/3	Specific humidity profile	Total column	40 km		2 kg/m2	12 h	2 h		Potential expected
HIRS/3	Specific humidity profile	Lower troposphere (LT)	40 km	1 km	20 %	12 h	2 h		Potential realized
HIRS/3	Specific humidity profile	Higher troposphere (HT)	40 km	1 km	20 %	12 h	2 h		Potential realized
HIRS/4	Atmospheric temperature profile	Higher troposphere (HT)	40 km	1 km	2.5 K	12 h	2 h		Potential realized
HIRS/4	Atmospheric temperature profile	Lower troposphere (LT)	40 km	1 km	2.5 K	12 h	2 h		Potential realized
HIRS/4	Atmospheric temperature profile	Lower stratosphere (LS)	40 km	2 km	2 K	12 h	2 h		Potential realized
HIRS/4	Cloud cover		40 km		20 % (Max)	12 h	2 h		Potential expected
HIRS/4	Cloud optical thickness		40 km		20 %	12 h	2 h		Experimental
HIRS/4	Cloud top height		40 km		0.7 km	12 h	2 h		Potential expected
HIRS/4	Cloud top temperature		40 km		2 K	12 h	2 h		Potential expected

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
HIRS/4	Land surface temperature		40 km		2 K	12 h	2 h		Potential expected
HIRS/4	Outgoing long-wave radiation at		40 km		10 m/s	12 h	2 h		Potential realized
HIRS/4	Outgoing short-wave radiation at		40 km		10 W/m2	12 h	2 h		Potential realized
HIRS/4	Ozone profile	Total column	40 km		30 DU	12 h	2 h		Experimental
HIRS/4	Sea surface bulk temperature		40 km		0.5	12 h	2 h		Potential realized
HIRS/4	Specific humidity profile	Lower troposphere (LT)	40 km	1 km	20 %	12 h	2 h		Potential realized
HIRS/4	Specific humidity profile	Higher troposphere (HT)	40 km	1 km	20 %	12 h	2 h		Potential realized
HIRS/4	Specific humidity profile	Total column	40 km		2 kg/m2	12 h	2 h		Potential expected
HRG	Land cover		10 m		20 classes	0.04 y	3 d		Potential
HRG	Land surface imagery		5 m			26 d	30 d		Experimental
HRG	Land surface topography		5 m		8 m (vert.)	0.5 y	12 d		Experimental
HRG	Vegetation type		10 m		25 classes	26 d	10 d		Potential
HRV	Fire area		10 m2		20 % (Max)	5 d	3 d		Experimental
HRV	Fire temperature		10 K		200 K	5 d	3 d		Experimental
HRV	Land cover		20 m		20 classes	0.07 y	3 d		Potential
HRV	Land surface imagery		10 m			26 d	30 d		Potential
HRV	Land surface topography		10 m		15 m (vert.)	0.5 y	12 d		Experimental
HRV	Normalized Differential Vegetation Index (NDVI)		0.01 km		5 % (Max)	26 d	1 d		Potential
HRV	Vegetation type		20 m		20 classes	26 d	10 d		Potential
HRVIR	Land cover		20 m		20 classes	0.04 y	3 d		Potential
HRVIR	Land surface imagery		10 m			26 d	30 d		Potential
HRVIR	Land surface topography		10 m		15 m (vert.)	0.5 y	12 d		Experimental
HRVIR	Vegetation type		20 m		20 classes	26 d	10 d		Potential
IASI	Atmospheric temperature profile	Lower troposphere (LT)	25 km	1 km	1 K	12 h	2 h		Potential realized
IASI	Atmospheric temperature profile	Lower stratosphere (LS)	25 km	2 km	1 K	12 h	2 h		Potential realized
IASI	Atmospheric temperature profile	Higher troposphere (HT)	25 km	1 km	1 K	12 h	2 h		Potential realized
IASI	Cloud cover		25 km		10 % (Max)	12 h	2 h		Potential expected
IASI	Cloud optical thickness		25 km		20 %	12 h	2 h		Experimental
IASI	Cloud top height		25 km		0.5 km	12 h	2 h		Experimental
IASI	Cloud top temperature		25 km		2 K	12 h	2 h		Experimental
IASI	Land surface temperature		25 km		0.5 K	12 h	2 h		Experimental
IASI	Long-wave Earth surface emissivity		25 km		1 % (Max)	12 h	2 h		Potential
IASI	Outgoing long-wave radiation at		25 km		5 m/s	12 h	2 h		Potential realized
IASI	Outgoing short-wave radiation at		25 km		5 W/m2	12 h	2 h		Potential realized
IASI	Ozone profile	Total column	25 km		20 DU	12 h	2 h		Experimental
IASI	Ozone profile	Higher troposphere (HT)	25 km	5 km	15 %	12 h	2 h		Potential
IASI	Ozone profile	Lower stratosphere (LS)	25 km	5 km	10 %	12 h	2 h		Potential
IASI	Sea surface bulk temperature		25 km		0.3	12 h	2 h		Potential realized
IASI	Specific humidity profile	Lower troposphere (LT)	25 km	1 km	10 %	12 h	2 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
IASI	Specific humidity profile	Total column	25 km		2 kg/m2	12 h	2 h		Potential expected
IASI	Specific humidity profile	Higher troposphere (HT)	25 km	1 km	10 %	12 h	2 h		Potential realized
ILAS	Aerosol profile	Higher troposphere (HT)	km	2 km	%	h	720 h		Potential expected
ILAS-II	Aerosol profile	Higher troposphere (HT)	km	1 km	%	h	720 h		Potential
Imager	Cloud cover		4 km		10 % (Max)	0.5 h	0.5 h		Potential realized
Imager	Cloud imagery		4 km			0.5 h	0.1 h		Potential realized
Imager	Cloud top height		50 km		1 km	1 h	1 h		Potential realized
Imager	Cloud top temperature		50 km		2 K	1 h	0.5 h		Potential realized
Imager	Fire area		4 m2		10 % (Max)	0.08 d	1 d		Experimental
Imager	Fire temperature		4 K		50 K	0.08 d	1 d		Experimental
Imager	Land surface temperature		4 km		2 K	1 h	0.5 h		Potential expected
Imager	Precipitation rate (liquid) at the		10 km		30 m/s	1 h	0.5 h		Potential realized
Imager	Precipitation rate (solid) at the		4 km		30 mm/h	0.5 h	0.5 h		Potential realized
Imager	Sea surface bulk temperature		4 km		0.5	1 h	0.5 h		Potential realized
Imager	Specific humidity profile	Lower troposphere (LT)	50 km	2 km	20 %	1 h	0.5 h		Potential realized
Imager	Specific humidity profile	Higher troposphere (HT)	50 km	3 km	20 %	1 h	1 h		Potential realized
Imager	Wind profile (horizontal component)	Higher troposphere (HT)	150 km	5 km	5 m/s	1 d	1 h		Potential realized
Imager	Wind profile (horizontal component)	Lower troposphere (LT)	150 km	5 km	3 m/s	1 h	1 h		Potential realized
IMAGER/MTSAT-2	Wind profile (horizontal component)	Lower troposphere (LT)	150 km	5 km	3 m/s	1 h	1 h		Potential expected
IMAGER/MTSAT-2	Wind profile (horizontal component)	Higher troposphere (HT)	150 km	5 km	5 m/s	1 d	1 h		Potential expected
IMG	Atmospheric temperature profile	Lower troposphere (LT)	100 km	1 km	1 K	984 h	336 h		Potential
IMG	Atmospheric temperature profile	Higher troposphere (HT)	100 km	1 km	1 K	984 h	336 h		Potential realized
IMG	Atmospheric temperature profile	Lower stratosphere (LS)	100 km	2 km	1 K	984 h	336 h		Potential realized
IMG	Ozone profile	Lower stratosphere (LS)	80 km	km	16 %	984 h	288 h		Potential
IMG	Specific humidity profile	Lower stratosphere (LS)	100 km	1 km	%	984 h	336 h		Experimental
IMG	Trace gas profile CH4	Lower stratosphere (LS)	80 km	12 km	20 %	984 h	288 h		Potential
IMG	Trace gas profile CH4	Lower troposphere (LT)	80 km	5 km	20 %	984 h	288 h		Potential
IMG	Trace gas profile CH4	Higher troposphere (HT)	80 km	8 km	20 %	984 h	288 h		Potential
IMG	Trace gas profile CO	Higher troposphere (HT)	80 km	8 km	20 %	984 h	288 h		Potential
IMG	Trace gas profile CO	Lower stratosphere (LS)	80 km	12 km	20 %	984 h	288 h		Potential
IMG	Trace gas profile CO	Lower troposphere (LT)	80 km	5 km	20 %	984 h	288 h		Potential
IMG	Trace gas profile CO2	Total column	80 km		2 %	984 h	288 h		Potential
Klimat	Cloud cover		2.5 km		20 % (Max)	12 h	6 h		Potential expected
LDX-XBT NAO OPN realized	Sea surface bulk temperature		445 km		0.1	727 h	12 h	Broadcast mode to decline	Potential
								along with implementation of Argo	
LDX-XBT NIO OPN realized	Sea surface bulk temperature		708 km		0.1	727 h	12 h	Broadcast mode to decline	Potential
								along with implementation of Argo	

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
LDX-XBT NPO OPN realized	Sea surface bulk temperature	268 km		0.1	727 h	12 h	Broadcast mode to decline	Potential
LDX-XBT SAO OPN realized	Sea surface bulk temperature	2852 km		0.1	727 h	12 h	Broadcast mode to decline	Potential
LDX-XBT SIO realized	Sea surface bulk temperature	1771 km		0.1	727 h	12 h	Broadcast mode to decline	Potential
LDX-XBT SPO OPN realized	Sea surface bulk temperature	754 km		0.1	727 h	12 h	Broadcast mode to decline	Potential
LDX-XBT TAO OPN realized	Sea surface bulk temperature	1570 km		0.1	727 h	12 h	Broadcast mode to decline	Potential
LDX-XBT TPO OPN realized	Sea surface bulk temperature	667 km		0.1	727 h	12 h	Broadcast mode to decline	Potential
LISS-I	Land surface imagery	72.5 m			22 d	d		Experimental
LISS-II	Land surface imagery	37 m			27 d	d		Experimental
LISS-III	Land surface imagery	23.5 m			24 d	d		Experimental
MERIS	Cloud top height	0.3 km		0.2 km	12 h	3 h		Potential
MERIS	Cloud type	0.3 km		8 classes	12 h	3 h		Potential realized
MERIS	Land cover	300 m		15 classes	0.01 y	1 d		Potential expected
MERIS	Land surface imagery	250 m			30 d	0.125 d		Experimental
MERIS	Leaf Area Index (LAI)	0.3 km		20 % (Max)	7 d	1 d		Potential expected
MERIS	Snow cover	300 km		10 % (Max)	12 h	24 h		Potential
MERIS	Specific humidity profile	0.3 km		5 kg/m2	12 h	3 h	Total column	Experimental
MERIS	Vegetation type	300 m		10 classes	0.5 d	1 d		Potential
MESSR	Land surface imagery	50 m			17 d	d		Experimental
MHS	Cloud water profile (< 100 μm)	15 km		200 kg/m2	12 h	2 h	Total column	Potential
MHS	Precipitation rate (liquid) at the	15 km		5 m/s	12 h	0.5 h		Potential realized
MHS	Precipitation rate (solid) at the	15 km		5 mm/h	12 h	0.5 h		Potential realized
MHS	Sea-ice cover	15 km		30 % (Max)	0.5 d	0.08 d		Potential
MHS	Specific humidity profile	15 km	1 km	15 %	12 h	2 h	Higher troposphere (HT)	Potential realized
MHS	Specific humidity profile	15 km		1 kg/m2	12 h	2 h	Total column	Potential expected
MHS	Specific humidity profile	15 km	1 km	15 %	12 h	2 h	Lower troposphere (LT)	Potential realized
MIPAS	Ozone profile	300 km	3 km	%	36 h	3 h	Lower stratosphere (LS)	Experimental
MIPAS	Specific humidity profile	300 km	3 km	%	36 h	3 h	Lower stratosphere (LS)	Experimental
MISR	Leaf Area Index (LAI)	1 km		25 % (Max)	30 d	1 d		Potential
MIVZA	Precipitation rate (liquid) at the	80 km		5 m/s	12 h	24 h		Potential realized
MIVZA	Sea-ice cover	80 km		30 % (Max)	0.5 d	1 d		Experimental
MIVZA	Snow cover	60 km		20 % (Max)	12 h	24 h		Experimental

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
MIVZA	Specific humidity profile	Total column	60 km		2.5 kg/m2	12 h	24 h		Experimental
MODIS	Aerosol profile	Total column	5 km		%	12 h	24 h		Potential
MODIS	Atmospheric temperature profile	Lower troposphere (LT)	5 km	1 km	2.5 K	12 h	24 h		Potential realized
MODIS	Atmospheric temperature profile	Higher troposphere (HT)	5 km	1 km	2.5 K	12 h	24 h		Potential realized
MODIS	Cloud cover		5 km		5 % (Max)	12 h	24 h		Potential expected
MODIS	Cloud imagery		0.25 km			12 h	24 h		Experimental
MODIS	Cloud optical thickness		5 km		20 %	12 h	24 h		Potential realized
MODIS	Cloud top height		5 km		0.7 km	12 h	24 h		Experimental
MODIS	Cloud top temperature		5 km		2 K	12 h	24 h		Experimental
MODIS	Cloud type		1 km		8 classes	12 h	24 h		Experimental
MODIS	Fire area		1 m2		5 % (Max)	0.5 d	1 d		Potential
MODIS	Fire temperature		1 K		50 K	0.5 d	1 d		Potential
MODIS	Fractional Photosynthetically Active Radiation (FPAR)		0.25 km		15 % (Max)	0.5 d	24 d		Experimental
MODIS	Land cover		250 m		15 classes	0.01 y	1 d		Potential expected
MODIS	Land surface imagery		250 m			2 d	24 d		Potential
MODIS	Land surface temperature		1 km		1 K	12 h	24 h		Potential expected
MODIS	Leaf Area Index (LAI)		0.25 km		20 % (Max)	30 d	1 d		Potential expected
MODIS	Normalized Differential Vegetation Index (NDVI)		0.25 km		5 % (Max)	0.5 d	1 d		Potential expected
MODIS	Outgoing long-wave radiation at		5 km		10 m/s	12 h	24 h		Potential realized
MODIS	Outgoing short-wave radiation at		5 km		10 W/m2	12 h	24 h		Potential realized
MODIS	Ozone profile	Total column	5 km		50 DU	12 h	24 h		Potential realized
MODIS	Sea surface bulk temperature		1 km		0.3	12 h	24 h		Potential realized
MODIS	Snow cover		0.25 km		5 % (Max)	12 h	24 h		Experimental
MODIS	Specific humidity profile	Total column	5 km		2.5 kg/m2	12 h	24 h		Potential realized
MODIS	Specific humidity profile	Higher troposphere (HT)	5 km	3 km	20 %	12 h	24 h		Potential realized
MODIS	Specific humidity profile	Lower troposphere (LT)	5 km	2 km	20 %	12 h	24 h		Potential realized
MODIS	Vegetation type		250 m		10 classes	1 d	1 d		Potential realized
MR-2000M1	Cloud imagery		1.4 km			12 h	6 h		Potential realized
MR-900	Cloud imagery		2 km			12 h	6 h		Potential realized
MSR	Cloud cover		1 km		10 % (Max)	12 h	6 h		Potential
MSR	Cloud top height		1 km		1 km	24 h	6 h		Potential
MSR	Cloud top temperature		1 km		2 K	24 h	6 h		Potential
MSR	Cloud type		1 km		5 classes	24 h	6 h		Experimental
MSR	Fractional Photosynthetically Active Radiation (FPAR)		1 km		25 % (Max)	14 d	14 d		Experimental
MSR	Land surface temperature		1 km		2 K	12 h	12 h		Potential
MSR	Normalized Differential Vegetation Index (NDVI)		1 km		10 % (Max)	14 d	14 d		Potential
MSR	Sea surface bulk temperature		1 km		1	12 h	12 h		Potential

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
MSR	Sea-ice cover		1 km		30 % (Max)	0.5 d	0.5 d		Potential
MSR	Snow cover		1 km		20 % (Max)	12 h	6 h		Potential
MSU	Atmospheric temperature profile	Lower stratosphere (LS)	160 km	2 km	2 K	12 h	2 h		Potential realized
MSU	Atmospheric temperature profile	Higher troposphere (HT)	160 km	1 km	2.5 K	12 h	2 h		Potential realized
MSU	Atmospheric temperature profile	Lower troposphere (LT)	160 km	1 km	2.5 K	12 h	2 h		Potential realized
MSU	Precipitation rate (liquid) at the		160 km		m/s	12 h	0.5 h		Potential realized
MSU	Precipitation rate (solid) at the		160 km		mm/h	10 h	0.5 h		Potential realized
MSU-E	Land cover		25 m		10 classes	0.04 y	1 d		Experimental
MSU-E	Land surface imagery		25 m			16 d	0.063 d		Experimental
MSU-E	Leaf Area Index (LAI)		0.025 km		20 % (Max)	14 d	1 d		Potential expected
MSU-E	Vegetation type		25 m		10 classes	7 d	1 d		Experimental
MSU-SK	Iceberg fractional cover		0.2 km		% (Max)	7 d	1 d		Experimental
MSU-SK	Iceberg height		0.2 km		m	7 d	1 d		Experimental
MSU-SK	Land cover		200 m		10 classes	0.04 y	1 d		Potential expected
MSU-SK	Land surface imagery		200 m			14 d	1 d		Potential
MSU-V	Fire area		0.27 m2		20 % (Max)	7 d	1 d		Experimental
MSU-V	Fire temperature		0.27 K		200 K	7 d	1 d		Experimental
MSU-V	Land cover		50 m		10 classes	0.04 y	1 d		Experimental
MSU-V	Land surface imagery		50 m			30 d	1 d		Experimental
MVIRI	Cloud cover		20 km		15 % (Max)	0.5 h	2 h		Potential realized
MVIRI	Cloud imagery		5 km			0.5 h	0.1 h		Potential realized
MVIRI	Cloud top height		20 km		1.5 km	0.5 h	0.5 h		Potential realized
MVIRI	Cloud top temperature		5 km		2 K	0.5 h	0.5 h		Potential realized
MVIRI	Cloud type		150 km		4 classes	1 h	2 h		Potential expected
MVIRI	Outgoing long-wave radiation at		160 km		30 m/s	0.5 h	12 h		Potential realized
MVIRI	Outgoing short-wave radiation at		160 km		50 W/m2	0.5 h	12 h		Potential realized
MVIRI	Sea surface bulk temperature		15 km		2	0.5 h	2 h		Potential realized
MVIRI	Specific humidity profile	Higher troposphere (HT)	150 km	3 km	20 %	0.5 h	1 h		Potential realized
MVIRI	Wind profile (horizontal component)	Higher troposphere (HT)	150 km	5 km	5 m/s	1 d	2 h		Potential realized
MVIRI	Wind profile (horizontal component)	Lower troposphere (LT)	150 km	5 km	3 m/s	1 h	2 h		Potential realized
MVISR (10 channels)	Aerosol profile	Total column	1 km		10 %	12 h	12 h		Potential expected
MVISR (10 channels)	Cloud cover		4 km		10 % (Max)	12 h	12 h		Potential expected
MVISR (10 channels)	Cloud imagery		4 km			12 h	12 h		Potential expected
MVISR (10 channels)	Cloud optical thickness		4 km		20 %	12 h	12 h		Potential expected
MVISR (10 channels)	Cloud top height		10 km		1.5 km	12 h	12 h		Potential expected
MVISR (10 channels)	Cloud type		10 km		5 classes	12 h	12 h		Potential expected
MVISR (10 channels)	Fire area		1 m2		5 % (Max)	0.5 d	1 d		Potential expected
MVISR (10 channels)	Fire temperature		1 K		200 K	0.5 d	1 d		Potential expected
MVISR (10 channels)	Fractional Photosynthetically Active Radiation (FPAR)		1 km		25 % (Max)	0.5 d	1 d		Potential expected

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con					
MVISR (10 channels)	Land cover	1000	m	8	classes	0.005	y	1	d	Potential expected			
MVISR (10 channels)	Leaf Area Index (LAI)	1	km	25	% (Max)	1	d	1	d	Potential expected			
MVISR (10 channels)	Normalized Differential Vegetation Index (NDVI)	1	km	10	% (Max)	0.5	d	1	d	Potential expected			
MVISR (10 channels)	Sea surface bulk temperature	4	km	1		12	h	12	h	Potential expected			
MVZA	Specific humidity profile	20	km	1	km	15	%	12	h	24	h	Lower troposphere (LT)	Experimental
MZOAS	Permafrost	50	km	40	% (Max)	1	d	2	d				Experimental
MZOAS	Precipitation rate (liquid) at the	160	km	5	m/s	12	h	24	h				Potential realized
MZOAS	Sea surface bulk temperature	80	km	3		12	h	24	h				Experimental
MZOAS	Sea-ice cover	10	km	30	% (Max)	0.5	d	1	d				Experimental
MZOAS	Soil moisture	50	km		g/kg	15.5	d	1.5	d				Experimental
MZOAS	Wind vector over sea surface (horizontal)	80	km	2	m/s	12	h	24	h				Experimental
NSCAT	Sea-ice cover	25	km	50	% (Max)	0.5	d	0.25	d				Potential realized
NSCAT	Wind vector over sea surface (horizontal)	25	km	2	m/s	12	h	4	h				Experimental
OCTS	Sea-ice cover	0.25	km	30	% (Max)	0.5	d	0.25	d				Potential realized
PAN (IRS-1C/1D)	Land surface imagery	10	m			24	d	1	d				Experimental
Pilot MED	Wind profile (horizontal component)	1622	km	0.3	km	2	m/s	20	h	1.5	h	Lower troposphere (LT)	Potential realized
Pilot RA-I N	Wind profile (horizontal component)	2665	km	0.3	km	2	m/s	20	h	1.5	h	Lower troposphere (LT)	Potential realized
Pilot RA-I T	Wind profile (horizontal component)	3042	km	0.3	km	2	m/s	20	h	1.5	h	Lower troposphere (LT)	Potential realized
Pilot RA-II E	Wind profile (horizontal component)	1431	km	0.3	km	2	m/s	20	h	1.5	h	Lower troposphere (LT)	Potential realized
Pilot RA-II S	Wind profile (horizontal component)	1837	km	0.3	km	2	m/s	20	h	1.5	h	Lower troposphere (LT)	Potential realized
Pilot RA-V NW	Wind profile (horizontal component)	5156	km	0.3	km	2	m/s	20	h	1.5	h	Lower troposphere (LT)	Potential realized
Pilot RA-V SW	Wind profile (horizontal component)	1111	km	0.3	km	2	m/s	20	h	1.5	h	Lower troposphere (LT)	Potential realized
Pilot RA-VI WE	Wind profile (horizontal component)	1626	km	0.3	km	2	m/s	20	h	1.5	h	Lower troposphere (LT)	Potential realized
Pilot SIO	Wind profile (horizontal component)	4397	km	0.3	km	2	m/s	20	h	1.5	h	Lower troposphere (LT)	Potential realized
Pilot TPO OPN	Wind profile (horizontal component)	4498	km	0.3	km	2	m/s	20	h	1.5	h	Lower troposphere (LT)	Potential realized
PR	Precipitation rate (liquid) at the	5	km	5	m/s	250	h	720	h				Potential expected
RA	Sea level	20	km	10	cm		d	20	d				Potential realized
RA-2	Sea level	20	km	10	cm		d	20	d				Potential realized
RADAR RA-IV C	Precipitation rate (liquid) at the	3	km	0.1	m/s	0.1	h	0.5	h				Potential realized
RADAR RA-IV C	Wind profile (horizontal component)	3	km	1	km	2	m/s	0.1	d	0.5	h	Higher troposphere (HT)	Potential realized
RADAR RA-IV C	Wind profile (horizontal component)	3	km	1	km	2	m/s	0.1	h	0.5	h	Lower troposphere (LT)	Potential realized
RADAR RA-VI WE	Precipitation rate (liquid) at the	3	km	0.1	m/s	0.1	h	0.5	h				Potential realized
RADAR RA-VI WE	Wind profile (horizontal component)	3	km	1	km	2	m/s	0.1	h	0.5	h	Lower troposphere (LT)	Potential realized
RADAR RA-VI WE	Wind profile (horizontal component)	3	km	1	km	2	m/s	0.1	d	0.5	h	Higher troposphere (HT)	Potential realized
Raobs ARC	Atmospheric temperature profile	793	km	0.15	km	2	K	12	h	1.5	h	Lower stratosphere (LS)	Potential realized
Raobs ARC	Atmospheric temperature profile	793	km	0.15	km	1	K	12	h	1.5	h	Lower troposphere (LT)	Potential realized
Raobs ARC	Atmospheric temperature profile	793	km	0.15	km	1	K	12	h	1.5	h	Higher troposphere (HT)	Potential realized
Raobs ARC	Specific humidity profile	793	km	0.15	km	5	%	12	h	1.5	h	Lower troposphere (LT)	Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Raobs ARC	Specific humidity profile	Higher troposphere (HT)	793	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs ARC	Wind profile (horizontal component)	Lower troposphere (LT)	793	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs ARC	Wind profile (horizontal component)	Higher troposphere (HT)	793	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs ARC	Wind profile (horizontal component)	Lower stratosphere (LS)	793	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs MED	Atmospheric temperature profile	Lower stratosphere (LS)	703	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs MED	Atmospheric temperature profile	Lower troposphere (LT)	703	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs MED	Atmospheric temperature profile	Higher troposphere (HT)	703	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs MED	Specific humidity profile	Higher troposphere (HT)	703	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs MED	Specific humidity profile	Lower troposphere (LT)	703	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs MED	Wind profile (horizontal component)	Lower troposphere (LT)	703	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs MED	Wind profile (horizontal component)	Lower stratosphere (LS)	703	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs MED	Wind profile (horizontal component)	Higher troposphere (HT)	703	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs NAO CST	Atmospheric temperature profile	Higher troposphere (HT)	1455	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs NAO CST	Atmospheric temperature profile	Lower troposphere (LT)	1455	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs NAO CST	Atmospheric temperature profile	Lower stratosphere (LS)	1455	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs NAO CST	Specific humidity profile	Lower troposphere (LT)	1455	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs NAO CST	Specific humidity profile	Higher troposphere (HT)	1455	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs NAO CST	Wind profile (horizontal component)	Lower stratosphere (LS)	1455	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs NAO CST	Wind profile (horizontal component)	Lower troposphere (LT)	1455	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs NAO CST	Wind profile (horizontal component)	Higher troposphere (HT)	1455	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs NAO OPN	Atmospheric temperature profile	Higher troposphere (HT)	1839	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs NAO OPN	Atmospheric temperature profile	Lower troposphere (LT)	1839	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs NAO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	1839	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs NAO OPN	Specific humidity profile	Lower troposphere (LT)	1839	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs NAO OPN	Specific humidity profile	Higher troposphere (HT)	1839	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs NAO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	1839	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs NAO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	1839	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs NAO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	1839	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs NIO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	1533	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs NIO OPN	Atmospheric temperature profile	Lower troposphere (LT)	1533	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs NIO OPN	Atmospheric temperature profile	Higher troposphere (HT)	1533	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs NIO OPN	Specific humidity profile	Lower troposphere (LT)	1533	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs NIO OPN	Specific humidity profile	Higher troposphere (HT)	1533	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs NIO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	1533	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs NIO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	1533	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs NIO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	1533	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs NPO OPN	Atmospheric temperature profile	Higher troposphere (HT)	2008	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs NPO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	2008	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs NPO OPN	Atmospheric temperature profile	Lower troposphere (LT)	2008	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs NPO OPN	Specific humidity profile	Lower troposphere (LT)	2008	km	0.15 km	5	%	12 h 1.5 h	Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Raobs NPO OPN	Specific humidity profile	Higher troposphere (HT)	2008	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs NPO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	2008	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs NPO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	2008	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs NPO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	2008	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-I N	Atmospheric temperature profile	Higher troposphere (HT)	1406	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-I N	Atmospheric temperature profile	Lower troposphere (LT)	1406	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-I N	Atmospheric temperature profile	Lower stratosphere (LS)	1406	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs RA-I N	Specific humidity profile	Higher troposphere (HT)	1406	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-I N	Specific humidity profile	Lower troposphere (LT)	1406	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-I N	Wind profile (horizontal component)	Lower stratosphere (LS)	1406	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-I N	Wind profile (horizontal component)	Higher troposphere (HT)	1406	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs RA-I N	Wind profile (horizontal component)	Lower troposphere (LT)	1406	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-I S	Atmospheric temperature profile	Lower stratosphere (LS)	652	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs RA-I S	Atmospheric temperature profile	Lower troposphere (LT)	652	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-I S	Atmospheric temperature profile	Higher troposphere (HT)	652	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-I S	Specific humidity profile	Lower troposphere (LT)	652	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-I S	Specific humidity profile	Higher troposphere (HT)	652	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-I S	Wind profile (horizontal component)	Lower troposphere (LT)	652	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-I S	Wind profile (horizontal component)	Higher troposphere (HT)	652	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs RA-I S	Wind profile (horizontal component)	Lower stratosphere (LS)	652	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-I T	Atmospheric temperature profile	Lower stratosphere (LS)	1226	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs RA-I T	Atmospheric temperature profile	Lower troposphere (LT)	1226	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-I T	Atmospheric temperature profile	Higher troposphere (HT)	1226	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-I T	Specific humidity profile	Higher troposphere (HT)	1226	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-I T	Specific humidity profile	Lower troposphere (LT)	1226	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-I T	Wind profile (horizontal component)	Lower stratosphere (LS)	1226	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-I T	Wind profile (horizontal component)	Lower troposphere (LT)	1226	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-I T	Wind profile (horizontal component)	Higher troposphere (HT)	1226	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs RA-II E	Atmospheric temperature profile	Lower stratosphere (LS)	294	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs RA-II E	Atmospheric temperature profile	Lower troposphere (LT)	294	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-II E	Atmospheric temperature profile	Higher troposphere (HT)	294	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-II E	Specific humidity profile	Higher troposphere (HT)	294	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-II E	Specific humidity profile	Lower troposphere (LT)	294	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-II E	Wind profile (horizontal component)	Lower troposphere (LT)	294	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-II E	Wind profile (horizontal component)	Higher troposphere (HT)	294	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs RA-II E	Wind profile (horizontal component)	Lower stratosphere (LS)	294	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-II N	Atmospheric temperature profile	Higher troposphere (HT)	444	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-II N	Atmospheric temperature profile	Lower troposphere (LT)	444	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-II N	Atmospheric temperature profile	Lower stratosphere (LS)	444	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs RA-II N	Specific humidity profile	Lower troposphere (LT)	444	km	0.15 km	5	%	12 h 1.5 h	Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Raobs RA-II N	Specific humidity profile	Higher troposphere (HT)	444	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-II N	Wind profile (horizontal component)	Lower troposphere (LT)	444	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-II N	Wind profile (horizontal component)	Lower stratosphere (LS)	444	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-II N	Wind profile (horizontal component)	Higher troposphere (HT)	444	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs RA-II S	Atmospheric temperature profile	Lower stratosphere (LS)	442	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs RA-II S	Atmospheric temperature profile	Lower troposphere (LT)	442	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-II S	Atmospheric temperature profile	Higher troposphere (HT)	442	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-II S	Specific humidity profile	Lower troposphere (LT)	442	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-II S	Specific humidity profile	Higher troposphere (HT)	442	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-II S	Wind profile (horizontal component)	Higher troposphere (HT)	442	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs RA-II S	Wind profile (horizontal component)	Lower stratosphere (LS)	442	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-II S	Wind profile (horizontal component)	Lower troposphere (LT)	442	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-II W	Atmospheric temperature profile	Lower troposphere (LT)	766	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-II W	Atmospheric temperature profile	Lower stratosphere (LS)	766	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs RA-II W	Atmospheric temperature profile	Higher troposphere (HT)	766	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-II W	Specific humidity profile	Lower troposphere (LT)	766	km	0.15 km	7	%	12 h 1.5 h	Potential realized
Raobs RA-II W	Specific humidity profile	Higher troposphere (HT)	766	km	0.15 km	7	%	12 h 1.5 h	Potential realized
Raobs RA-II W	Wind profile (horizontal component)	Lower troposphere (LT)	766	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-II W	Wind profile (horizontal component)	Lower stratosphere (LS)	766	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs RA-II W	Wind profile (horizontal component)	Higher troposphere (HT)	766	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-III N	Atmospheric temperature profile	Higher troposphere (HT)	865	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-III N	Atmospheric temperature profile	Lower stratosphere (LS)	865	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs RA-III N	Atmospheric temperature profile	Lower troposphere (LT)	865	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-III N	Specific humidity profile	Lower troposphere (LT)	865	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-III N	Specific humidity profile	Higher troposphere (HT)	865	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-III N	Wind profile (horizontal component)	Higher troposphere (HT)	865	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs RA-III N	Wind profile (horizontal component)	Lower stratosphere (LS)	865	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-III N	Wind profile (horizontal component)	Lower troposphere (LT)	865	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-III S	Atmospheric temperature profile	Lower stratosphere (LS)	675	km	0.15 km	4	K	12 h 1.5 h	Potential realized
Raobs RA-III S	Atmospheric temperature profile	Lower troposphere (LT)	675	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs RA-III S	Atmospheric temperature profile	Higher troposphere (HT)	675	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs RA-III S	Specific humidity profile	Higher troposphere (HT)	675	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-III S	Specific humidity profile	Lower troposphere (LT)	675	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs RA-III S	Wind profile (horizontal component)	Higher troposphere (HT)	675	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs RA-III S	Wind profile (horizontal component)	Lower stratosphere (LS)	675	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-III S	Wind profile (horizontal component)	Lower troposphere (LT)	675	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs RA-IV C	Atmospheric temperature profile	Lower stratosphere (LS)	331	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs RA-IV C	Atmospheric temperature profile	Higher troposphere (HT)	331	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-IV C	Atmospheric temperature profile	Lower troposphere (LT)	331	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs RA-IV C	Specific humidity profile	Higher troposphere (HT)	331	km	0.15 km	5	%	12 h 1.5 h	Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con	
Raobs RA-IV C	Specific humidity profile	Lower troposphere (LT)	331	km	0.15 km	5	%	12 h	1.5 h	Potential realized
Raobs RA-IV C	Wind profile (horizontal component)	Higher troposphere (HT)	331	km	0.3 km	2	m/s	12 d	1.5 h	Potential realized
Raobs RA-IV C	Wind profile (horizontal component)	Lower troposphere (LT)	331	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
Raobs RA-IV C	Wind profile (horizontal component)	Lower stratosphere (LS)	331	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
Raobs RA-IV N	Atmospheric temperature profile	Higher troposphere (HT)	447	km	0.15 km	1	K	12 h	1.5 h	Potential realized
Raobs RA-IV N	Atmospheric temperature profile	Lower stratosphere (LS)	447	km	0.15 km	2	K	12 h	1.5 h	Potential realized
Raobs RA-IV N	Atmospheric temperature profile	Lower troposphere (LT)	447	km	0.15 km	1	K	12 h	1.5 h	Potential realized
Raobs RA-IV N	Specific humidity profile	Lower troposphere (LT)	447	km	0.15 km	5	%	12 h	1.5 h	Potential realized
Raobs RA-IV N	Specific humidity profile	Higher troposphere (HT)	447	km	0.15 km	5	%	12 h	1.5 h	Potential realized
Raobs RA-IV N	Wind profile (horizontal component)	Lower stratosphere (LS)	447	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
Raobs RA-IV N	Wind profile (horizontal component)	Higher troposphere (HT)	447	km	0.3 km	2	m/s	12 d	1.5 h	Potential realized
Raobs RA-IV N	Wind profile (horizontal component)	Lower troposphere (LT)	447	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
Raobs RA-IV S	Atmospheric temperature profile	Higher troposphere (HT)	619	km	0.15 km	1	K	12 h	1.5 h	Potential realized
Raobs RA-IV S	Atmospheric temperature profile	Lower troposphere (LT)	619	km	0.15 km	1	K	12 h	1.5 h	Potential realized
Raobs RA-IV S	Atmospheric temperature profile	Lower stratosphere (LS)	619	km	0.15 km	2	K	12 h	1.5 h	Potential realized
Raobs RA-IV S	Specific humidity profile	Higher troposphere (HT)	619	km	0.15 km	5	%	12 h	1.5 h	Potential realized
Raobs RA-IV S	Specific humidity profile	Lower troposphere (LT)	619	km	0.15 km	5	%	12 h	1.5 h	Potential realized
Raobs RA-IV S	Wind profile (horizontal component)	Lower troposphere (LT)	619	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
Raobs RA-IV S	Wind profile (horizontal component)	Lower stratosphere (LS)	619	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
Raobs RA-IV S	Wind profile (horizontal component)	Higher troposphere (HT)	619	km	0.3 km	2	m/s	12 d	1.5 h	Potential realized
Raobs RA-V NW	Atmospheric temperature profile	Lower stratosphere (LS)	1021	km	0.15 km	2	K	12 h	1.5 h	Potential realized
Raobs RA-V NW	Atmospheric temperature profile	Higher troposphere (HT)	1021	km	0.15 km	1	K	12 h	1.5 h	Potential realized
Raobs RA-V NW	Atmospheric temperature profile	Lower troposphere (LT)	1021	km	0.15 km	1	K	12 h	1.5 h	Potential realized
Raobs RA-V NW	Specific humidity profile	Higher troposphere (HT)	1021	km	0.15 km	5	%	12 h	1.5 h	Potential realized
Raobs RA-V NW	Specific humidity profile	Lower troposphere (LT)	1021	km	0.15 km	5	%	12 h	1.5 h	Potential realized
Raobs RA-V NW	Wind profile (horizontal component)	Higher troposphere (HT)	1021	km	0.3 km	2	m/s	12 d	1.5 h	Potential realized
Raobs RA-V NW	Wind profile (horizontal component)	Lower stratosphere (LS)	1021	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
Raobs RA-V NW	Wind profile (horizontal component)	Lower troposphere (LT)	1021	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
Raobs RA-V SW	Atmospheric temperature profile	Lower troposphere (LT)	909	km	0.15 km	1	K	12 h	1.5 h	Potential realized
Raobs RA-V SW	Atmospheric temperature profile	Lower stratosphere (LS)	909	km	0.15 km	2	K	12 h	1.5 h	Potential realized
Raobs RA-V SW	Atmospheric temperature profile	Higher troposphere (HT)	909	km	0.15 km	1	K	12 h	1.5 h	Potential realized
Raobs RA-V SW	Specific humidity profile	Higher troposphere (HT)	909	km	0.15 km	5	%	12 h	1.5 h	Potential realized
Raobs RA-V SW	Specific humidity profile	Lower troposphere (LT)	909	km	0.15 km	5	%	12 h	1.5 h	Potential realized
Raobs RA-V SW	Wind profile (horizontal component)	Lower troposphere (LT)	909	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
Raobs RA-V SW	Wind profile (horizontal component)	Lower stratosphere (LS)	909	km	0.3 km	2	m/s	12 h	1.5 h	Potential realized
Raobs RA-V SW	Wind profile (horizontal component)	Higher troposphere (HT)	909	km	0.3 km	2	m/s	12 d	1.5 h	Potential realized
Raobs RA-VI EE	Atmospheric temperature profile	Lower troposphere (LT)	369	km	0.15 km	1	K	12 h	1.5 h	Potential realized
Raobs RA-VI EE	Atmospheric temperature profile	Lower stratosphere (LS)	369	km	0.15 km	2	K	12 h	1.5 h	Potential realized
Raobs RA-VI EE	Atmospheric temperature profile	Higher troposphere (HT)	369	km	0.15 km	1	K	12 h	1.5 h	Potential realized
Raobs RA-VI EE	Specific humidity profile	Lower troposphere (LT)	369	km	0.15 km	5	%	12 h	1.5 h	Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Raobs RA-VI EE	Specific humidity profile	Higher troposphere (HT)	369 km	0.15 km	5 %	12 h	1.5 h		Potential realized
Raobs RA-VI EE	Wind profile (horizontal component)	Lower stratosphere (LS)	369 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
Raobs RA-VI EE	Wind profile (horizontal component)	Higher troposphere (HT)	369 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
Raobs RA-VI EE	Wind profile (horizontal component)	Lower troposphere (LT)	369 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
Raobs RA-VI WE	Atmospheric temperature profile	Lower stratosphere (LS)	218 km	0.15 km	2 K	12 h	1.5 h		Potential realized
Raobs RA-VI WE	Atmospheric temperature profile	Lower troposphere (LT)	218 km	0.15 km	1 K	12 h	1.5 h		Potential realized
Raobs RA-VI WE	Atmospheric temperature profile	Higher troposphere (HT)	218 km	0.15 km	1 K	12 h	1.5 h		Potential realized
Raobs RA-VI WE	Specific humidity profile	Higher troposphere (HT)	218 km	0.15 km	5 %	12 h	1.5 h		Potential realized
Raobs RA-VI WE	Specific humidity profile	Lower troposphere (LT)	218 km	0.15 km	5 %	12 h	1.5 h		Potential realized
Raobs RA-VI WE	Wind profile (horizontal component)	Higher troposphere (HT)	218 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
Raobs RA-VI WE	Wind profile (horizontal component)	Lower stratosphere (LS)	218 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
Raobs RA-VI WE	Wind profile (horizontal component)	Lower troposphere (LT)	218 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
Raobs RA-VII	Atmospheric temperature profile	Lower troposphere (LT)	1696 km	0.15 km	1 K	12 h	1.5 h		Potential realized
Raobs RA-VII	Atmospheric temperature profile	Higher troposphere (HT)	1696 km	0.15 km	1 K	12 h	1.5 h		Potential realized
Raobs RA-VII	Atmospheric temperature profile	Lower stratosphere (LS)	1696 km	0.15 km	2 K	12 h	1.5 h		Potential realized
Raobs RA-VII	Specific humidity profile	Lower troposphere (LT)	1696 km	0.15 km	5 %	12 h	1.5 h		Potential realized
Raobs RA-VII	Specific humidity profile	Higher troposphere (HT)	1696 km	0.15 km	5 %	12 h	1.5 h		Potential realized
Raobs RA-VII	Wind profile (horizontal component)	Lower stratosphere (LS)	1696 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
Raobs RA-VII	Wind profile (horizontal component)	Lower troposphere (LT)	1696 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
Raobs RA-VII	Wind profile (horizontal component)	Higher troposphere (HT)	1696 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
Raobs SAO CST	Atmospheric temperature profile	Lower troposphere (LT)	1143 km	0.15 km	1 K	12 h	1.5 h		Potential realized
Raobs SAO CST	Atmospheric temperature profile	Lower stratosphere (LS)	1143 km	2 km	1 K	12 h	1.5 h		Potential realized
Raobs SAO CST	Atmospheric temperature profile	Higher troposphere (HT)	1143 km	0.15 km	1 K	12 h	1.5 h		Potential realized
Raobs SAO CST	Specific humidity profile	Lower troposphere (LT)	1143 km	0.15 km	5 %	12 h	1.5 h		Potential realized
Raobs SAO CST	Specific humidity profile	Higher troposphere (HT)	1143 km	0.15 km	5 %	12 h	1.5 h		Potential realized
Raobs SAO CST	Wind profile (horizontal component)	Lower troposphere (LT)	1143 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
Raobs SAO CST	Wind profile (horizontal component)	Higher troposphere (HT)	1143 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
Raobs SAO CST	Wind profile (horizontal component)	Lower stratosphere (LS)	1143 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
Raobs SAO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	2584 km	0.15 km	2 K	12 h	1.5 h		Potential realized
Raobs SAO OPN	Atmospheric temperature profile	Lower troposphere (LT)	2584 km	0.15 km	1 K	12 h	1.5 h		Potential realized
Raobs SAO OPN	Atmospheric temperature profile	Higher troposphere (HT)	2584 km	0.15 km	1 K	12 h	1.5 h		Potential realized
Raobs SAO OPN	Specific humidity profile	Lower troposphere (LT)	2584 km	0.15 km	5 %	12 h	1.5 h		Potential realized
Raobs SAO OPN	Specific humidity profile	Higher troposphere (HT)	2584 km	0.15 km	5 %	12 h	1.5 h		Potential realized
Raobs SAO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	2584 km	0.3 km	2 m/s	12 d	1.5 h		Potential realized
Raobs SAO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	2584 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
Raobs SAO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	2584 km	0.3 km	2 m/s	12 h	1.5 h		Potential realized
Raobs SIO	Atmospheric temperature profile	Higher troposphere (HT)	2971 km	0.15 km	1 K	12 h	1.5 h		Potential realized
Raobs SIO	Atmospheric temperature profile	Lower troposphere (LT)	2971 km	0.15 km	1 K	12 h	1.5 h		Potential realized
Raobs SIO	Atmospheric temperature profile	Lower stratosphere (LS)	2971 km	0.15 km	2 K	12 h	1.5 h		Potential realized
Raobs SIO	Specific humidity profile	Lower troposphere (LT)	2971 km	0.15 km	5 %	12 h	1.5 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Raobs SIO	Specific humidity profile	Higher troposphere (HT)	2971	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs SIO	Wind profile (horizontal component)	Lower stratosphere (LS)	2971	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs SIO	Wind profile (horizontal component)	Lower troposphere (LT)	2971	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs SIO	Wind profile (horizontal component)	Higher troposphere (HT)	2971	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs SPO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	3166	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs SPO OPN	Atmospheric temperature profile	Lower troposphere (LT)	3166	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs SPO OPN	Atmospheric temperature profile	Higher troposphere (HT)	3166	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs SPO OPN	Specific humidity profile	Lower troposphere (LT)	3166	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs SPO OPN	Specific humidity profile	Higher troposphere (HT)	3166	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs SPO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	3166	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs SPO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	3166	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs SPO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	3166	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs TAO OPN	Atmospheric temperature profile	Lower troposphere (LT)	2104	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs TAO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	2104	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs TAO OPN	Atmospheric temperature profile	Higher troposphere (HT)	2104	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs TAO OPN	Specific humidity profile	Lower troposphere (LT)	2104	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs TAO OPN	Specific humidity profile	Higher troposphere (HT)	2104	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs TAO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	2104	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs TAO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	2104	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
Raobs TAO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	2104	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs TPO OPN	Atmospheric temperature profile	Higher troposphere (HT)	2189	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs TPO OPN	Atmospheric temperature profile	Lower troposphere (LT)	2189	km	0.15 km	1	K	12 h 1.5 h	Potential realized
Raobs TPO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	2189	km	0.15 km	2	K	12 h 1.5 h	Potential realized
Raobs TPO OPN	Specific humidity profile	Lower troposphere (LT)	2189	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs TPO OPN	Specific humidity profile	Higher troposphere (HT)	2189	km	0.15 km	5	%	12 h 1.5 h	Potential realized
Raobs TPO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	2189	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs TPO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	2189	km	0.3 km	2	m/s	12 h 1.5 h	Potential realized
Raobs TPO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	2189	km	0.3 km	2	m/s	12 d 1.5 h	Potential realized
SAGE II	Aerosol profile	Lower stratosphere (LS)	100	km	1 km		%	24 h 720 h	Experimental
SAGE II	Aerosol profile	Higher troposphere (HT)	100	km	1 km		%	24 h 720 h	Experimental
SAGE II	Specific humidity profile	Lower stratosphere (LS)	100	km	1 km	10	%	48 h 720 h	Potential realized
SAGE III	Aerosol profile	Higher stratosphere & mesosphere (HS & M)	300	km	1 km	10	%	336 h 12 h	Experimental
SAGE III	Aerosol profile	Higher troposphere (HT)	300	km	1 km		%	336 h 12 h	Experimental
SAGE III	Aerosol profile	Lower stratosphere (LS)	300	km	1 km	10	%	336 h 12 h	Experimental
SAGE III	Ozone profile	Lower stratosphere (LS)	300	km	1 km	5	%	336 h 24 h	Experimental
SAGE III	Specific humidity profile	Lower stratosphere (LS)	100	km	0.5 km	10	%	336 h 12 h	Potential expected
SAR (JERS-1)	Land surface imagery		18	m				30 d 1 d	Experimental
SAR (RADARSAT)	Land surface imagery		25	m				30 d 1 d	Experimental
SBUV/2	Ozone profile	Lower stratosphere (LS)	183	km	5 km	10	%	24 h 3 h	Potential expected

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
SBUV/2	Ozone profile	Total column	183 km		30 DU	24 h	3 h		Experimental
SBUV/3	Ozone profile	Total column	183 km		30 DU	24 h	3 h		Experimental
SBUV/3	Ozone profile	Lower stratosphere (LS)	183 km	5 km	10 %	24 h	3 h		Experimental
SBUV/3	Ozone profile	Lower troposphere (LT)	183 km	5 km	10 %	24 h	3 h		Experimental
ScaRaB/MV2	Outgoing long-wave radiation at		60 km		10 m/s	12 h	24 h		Potential expected
ScaRaB/MV2	Outgoing short-wave radiation at		60 km		5 W/m2	12 h	24 h		Potential
SCIAMACHY	Ozone profile	Lower stratosphere (LS)	500 km	3 km	%	12 h	3 h		Experimental
SeaWinds	Sea-ice cover		25 km		50 % (Max)	0.5 d	0.25 d		Potential expected
SeaWinds	Wind vector over sea surface (horizontal)		25 km		2 m/s	12 h	4 h		Experimental
SEVIRI	Aerosol profile	Total column	3 km		%	0.25 h	0.25 h		Potential
SEVIRI	Atmospheric stability index		15 km		K	0.25 h	0.25 h		Potential realized
SEVIRI	Cloud cover		3 km		10 % (Max)	0.25 h	0.5 h		Potential expected
SEVIRI	Cloud imagery		3 km			0.25 h	0.1 h		Potential expected
SEVIRI	Cloud top height		10 km		0.7 km	0.25 h	0.5 h		Potential expected
SEVIRI	Cloud top temperature		3 km		2 K	0.25 h	0.5 h		Potential expected
SEVIRI	Cloud type		100 km		8 classes	0.25 h	1 h		Potential expected
SEVIRI	Fire area		3 m2		5 % (Max)	0.08 d	1 d		Experimental
SEVIRI	Fire temperature		3 K		50 K	0.08 d	1 d		Experimental
SEVIRI	Fractional Photosynthetically Active Radiation (FPAR)		3 km		25 % (Max)	1 d	1 d		Experimental
SEVIRI	Land surface temperature		10 km		2 K	0.25 h	0.25 h		Potential expected
SEVIRI	Long-wave Earth surface emissivity		3 km		3 % (Max)	0.25 h	24 h		Potential
SEVIRI	Normalized Differential Vegetation Index (NDVI)		3 km		10 % (Max)	0.08 d	1 d		Potential
SEVIRI	Outgoing long-wave radiation at		50 km		10 m/s	0.25 h	24 h		Potential realized
SEVIRI	Outgoing short-wave radiation at		50 km		10 W/m2	0.25 h	24 h		Potential realized
SEVIRI	Ozone profile	Total column	50 km		50 DU	0.25 h	2 h		Potential realized
SEVIRI	Precipitation rate (liquid) at the		10 km		30 m/s	0.25 h	0.5 h		Potential realized
SEVIRI	Precipitation rate (solid) at the		10 km		30 mm/h	0.25 h	0.5 h		Potential realized
SEVIRI	Sea surface bulk temperature		3 km		0.5	1 h	2 h		Potential realized
SEVIRI	Specific humidity profile	Lower troposphere (LT)	50 km	2 km	20 %	1 h	0.5 h		Potential realized
SEVIRI	Specific humidity profile	Total column	100 km		2 kg/m2	1 h	3 h		Potential expected
SEVIRI	Specific humidity profile	Higher troposphere (HT)	100 km	3 km	20 %	1 h	1 h		Potential realized
SEVIRI	Wind profile (horizontal component)	Higher troposphere (HT)	100 km	5 km	4 m/s	1 d	1 h		Potential realized
SEVIRI	Wind profile (horizontal component)	Lower troposphere (LT)	100 km	5 km	2 m/s	1 h	1 h		Potential realized
SEVIRI	Wind profile (horizontal component)	Lower stratosphere (LS)	100 km	10 km	10 m/s	1 h	1 h		Potential expected
Sfc obs ARC	Air pressure over land surface		351 km		0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs ARC	Air specific humidity (at surface)		351 km		5 %	6 h	0.8 h		Potential realized
Sfc obs ARC	Air temperature (at surface)		351 km		0.2 K	6 h	0.8 h		Potential realized
Sfc obs ARC	Cloud base height		351 km		0.5 km	6 h	0.8 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Sfc obs ARC	Cloud cover	351	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs ARC	Precipitation index (daily)	351	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs ARC	Wind vector over land surface (horizontal)	351	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs MED	Air pressure over land surface	245	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs MED	Air specific humidity (at surface)	245	km	5 %	6 h	0.8 h		Potential realized
Sfc obs MED	Air temperature (at surface)	245	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs MED	Cloud base height	245	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs MED	Cloud cover	245	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs MED	Precipitation index (daily)	245	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs MED	Wind vector over land surface (horizontal)	245	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs NAO CST	Air pressure over land surface	900	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs NAO CST	Air specific humidity (at surface)	900	km	5 %	6 h	0.8 h		Potential realized
Sfc obs NAO CST	Air temperature (at surface)	900	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs NAO CST	Cloud base height	900	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs NAO CST	Cloud cover	900	km	8 % (Max)	6 h	0.8 h		Potential realized
Sfc obs NAO CST	Precipitation index (daily)	900	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs NAO CST	Wind vector over land surface (horizontal)	900	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs NAO OPN	Air pressure over land surface	1315	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs NAO OPN	Air specific humidity (at surface)	1315	km	5 %	6 h	0.8 h		Potential realized
Sfc obs NAO OPN	Air temperature (at surface)	1315	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs NAO OPN	Cloud base height	1315	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs NAO OPN	Cloud cover	1315	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs NAO OPN	Precipitation index (daily)	1315	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs NAO OPN	Wind vector over land surface (horizontal)	1315	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs NIO OPN	Air pressure over land surface	1351	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs NIO OPN	Air specific humidity (at surface)	1351	km	5 %	6 h	0.8 h		Potential realized
Sfc obs NIO OPN	Air temperature (at surface)	1351	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs NIO OPN	Cloud base height	1351	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs NIO OPN	Cloud cover	1351	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs NIO OPN	Precipitation index (daily)	1351	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs NIO OPN	Wind vector over land surface (horizontal)	1351	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs NPO CST	Air pressure over land surface	1505	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs NPO CST	Air specific humidity (at surface)	1505	km	5 %	6 h	0.8 h		Potential realized
Sfc obs NPO CST	Air temperature (at surface)	1505	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs NPO CST	Cloud base height	1505	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs NPO CST	Cloud cover	1505	km	12.5 % (Max)	6 h	0.8 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Sfc obs NPO CST	Precipitation index (daily)	1505	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs NPO CST	Wind vector over land surface (horizontal)	1505	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs NPO OPN	Air pressure over land surface	2363	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs NPO OPN	Air specific humidity (at surface)	2363	km	5 %	6 h	0.8 h		Potential realized
Sfc obs NPO OPN	Air temperature (at surface)	2363	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs NPO OPN	Cloud base height	2363	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs NPO OPN	Cloud cover	2363	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs NPO OPN	Precipitation index (daily)	2363	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs NPO OPN	Wind vector over land surface (horizontal)	2363	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-I N	Air pressure over land surface	386	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-I N	Air specific humidity (at surface)	386	km	5 %	6 h	0.8 h		Potential realized
Sfc obs RA-I N	Air temperature (at surface)	386	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-I N	Cloud base height	386	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-I N	Cloud cover	386	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-I N	Precipitation index (daily)	386	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-I N	Wind vector over land surface (horizontal)	386	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-I S	Air pressure over land surface	232	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-I S	Air specific humidity (at surface)	232	km	5 %	6 h	0.8 h		Potential realized
Sfc obs RA-I S	Air temperature (at surface)	232	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-I S	Cloud base height	232	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-I S	Cloud cover	232	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-I S	Precipitation index (daily)	232	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-I S	Wind vector over land surface (horizontal)	232	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-I T	Air pressure over land surface	304	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-I T	Air specific humidity (at surface)	304	km	5 %	6 h	0.8 h		Potential realized
Sfc obs RA-I T	Air temperature (at surface)	304	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-I T	Cloud base height	304	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-I T	Cloud cover	304	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-I T	Precipitation index (daily)	304	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-I T	Wind vector over land surface (horizontal)	304	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-II E	Air pressure over land surface	173	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-II E	Air specific humidity (at surface)	173	km	5 %	6 h	0.8 h		Potential realized
Sfc obs RA-II E	Air temperature (at surface)	173	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-II E	Cloud base height	173	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-II E	Cloud cover	173	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-II E	Precipitation index (daily)	173	km	0.1 mm/d	24 h	0.8 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Sfc obs RA-II E	Wind vector over land surface (horizontal)	173 km		0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-II N	Air pressure over land surface	163 km		0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-II N	Air specific humidity (at surface)	163 km		5 %	6 h	0.8 h		Potential realized
Sfc obs RA-II N	Air temperature (at surface)	163 km		0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-II N	Cloud base height	163 km		0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-II N	Cloud cover	163 km		12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-II N	Precipitation index (daily)	163 km		0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-II N	Wind vector over land surface (horizontal)	163 km		0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-II S	Air pressure over land surface	211 km		0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-II S	Air specific humidity (at surface)	211 km		5 %	6 h	0.8 h		Potential realized
Sfc obs RA-II S	Air temperature (at surface)	211 km		0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-II S	Cloud base height	211 km		0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-II S	Cloud cover	211 km		12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-II S	Precipitation index (daily)	211 km		0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-II S	Wind vector over land surface (horizontal)	211 km		0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-II W	Air pressure over land surface	211 km		0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-II W	Air specific humidity (at surface)	211 km		5 %	6 h	0.8 h		Potential realized
Sfc obs RA-II W	Air temperature (at surface)	211 km		0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-II W	Cloud base height	211 km		0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-II W	Cloud cover	211 km		12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-II W	Precipitation index (daily)	211 km		0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-II W	Wind vector over land surface (horizontal)	211 km		0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-III N	Air pressure over land surface	244 km		0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-III N	Air specific humidity (at surface)	244 km		5 %	6 h	0.8 h		Potential realized
Sfc obs RA-III N	Air temperature (at surface)	244 km		0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-III N	Cloud base height	244 km		0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-III N	Cloud cover	244 km		12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-III N	Precipitation index (daily)	244 km		0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-III N	Wind vector over land surface (horizontal)	244 km		0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-III S	Air pressure over land surface	178 km		0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-III S	Air specific humidity (at surface)	178 km		5 %	6 h	0.8 h		Potential realized
Sfc obs RA-III S	Air temperature (at surface)	178 km		0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-III S	Cloud base height	178 km		0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-III S	Cloud cover	178 km		12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-III S	Precipitation index (daily)	178 km		0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-III S	Wind vector over land surface (horizontal)	178 km		0.5 m/s	6 h	0.8 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Sfc obs RA-IV C	Air pressure over land surface	183	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-IV C	Air specific humidity (at surface)	183	km	5 %	6 h	0.8 h		Potential realized
Sfc obs RA-IV C	Air temperature (at surface)	183	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-IV C	Cloud base height	183	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-IV C	Cloud cover	183	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-IV C	Precipitation index (daily)	183	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-IV C	Wind vector over land surface (horizontal)	183	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-IV N	Air pressure over land surface	217	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-IV N	Air specific humidity (at surface)	217	km	5 %	6 h	0.8 h		Potential realized
Sfc obs RA-IV N	Air temperature (at surface)	217	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-IV N	Cloud base height	217	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-IV N	Cloud cover	217	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-IV N	Precipitation index (daily)	217	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-IV N	Wind vector over land surface (horizontal)	217	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-IV S	Air pressure over land surface	352	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-IV S	Air specific humidity (at surface)	352	km	5 %	6 h	0.8 h		Potential realized
Sfc obs RA-IV S	Air temperature (at surface)	352	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-IV S	Cloud base height	352	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-IV S	Cloud cover	352	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-IV S	Precipitation index (daily)	352	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-IV S	Wind vector over land surface (horizontal)	352	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-V NW	Air pressure over land surface	440	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-V NW	Air specific humidity (at surface)	440	km	5 %	6 h	0.8 h		Potential realized
Sfc obs RA-V NW	Air temperature (at surface)	440	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-V NW	Cloud base height	440	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-V NW	Cloud cover	440	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-V NW	Precipitation index (daily)	440	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-V NW	Wind vector over land surface (horizontal)	440	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-V SW	Air pressure over land surface	470	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-V SW	Air specific humidity (at surface)	470	km	5 %	6 h	0.8 h		Potential realized
Sfc obs RA-V SW	Air temperature (at surface)	470	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-V SW	Cloud base height	470	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-V SW	Cloud cover	470	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-V SW	Precipitation index (daily)	470	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-V SW	Wind vector over land surface (horizontal)	470	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-VI EE	Air pressure over land surface	121	km	0.3 hPa	6 h	0.8 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Sfc obs RA-VI EE	Air specific humidity (at surface)	121	km	5 %	6 h	0.8 h		Potential realized
Sfc obs RA-VI EE	Air temperature (at surface)	121	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-VI EE	Cloud base height	121	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-VI EE	Cloud cover	121	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-VI EE	Precipitation index (daily)	121	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-VI EE	Wind vector over land surface (horizontal)	121	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-VI WE	Air pressure over land surface	108	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-VI WE	Air specific humidity (at surface)	108	km	5 %	6 h	0.8 h		Potential realized
Sfc obs RA-VI WE	Air temperature (at surface)	108	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-VI WE	Cloud base height	108	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-VI WE	Cloud cover	108	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-VI WE	Precipitation index (daily)	108	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-VI WE	Wind vector over land surface (horizontal)	108	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs RA-VII	Air pressure over land surface	768	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs RA-VII	Air specific humidity (at surface)	768	km	5 %	6 h	0.8 h		Potential realized
Sfc obs RA-VII	Air temperature (at surface)	768	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs RA-VII	Cloud base height	768	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs RA-VII	Cloud cover	768	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs RA-VII	Precipitation index (daily)	768	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs RA-VII	Wind vector over land surface (horizontal)	768	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs SAO CST	Air pressure over land surface	433	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs SAO CST	Air specific humidity (at surface)	433	km	5 %	6 h	0.8 h		Potential realized
Sfc obs SAO CST	Air temperature (at surface)	433	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs SAO CST	Cloud base height	433	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs SAO CST	Cloud cover	433	km	8 % (Max)	6 h	0.8 h		Potential realized
Sfc obs SAO CST	Precipitation index (daily)	433	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs SAO CST	Wind vector over land surface (horizontal)	433	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs SAO OPN	Air pressure over land surface	2782	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs SAO OPN	Air specific humidity (at surface)	2782	km	5 %	6 h	0.8 h		Potential realized
Sfc obs SAO OPN	Air temperature (at surface)	2782	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs SAO OPN	Cloud base height	2782	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs SAO OPN	Cloud cover	2782	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs SAO OPN	Precipitation index (daily)	2782	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs SAO OPN	Wind vector over land surface (horizontal)	2782	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs SIO	Air pressure over land surface	1736	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs SIO	Air specific humidity (at surface)	1736	km	5 %	6 h	0.8 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Sfc obs SIO	Air temperature (at surface)	1736	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs SIO	Cloud base height	1736	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs SIO	Cloud cover	1736	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs SIO	Precipitation index (daily)	1736	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs SIO	Wind vector over land surface (horizontal)	1736	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs SPO OPN	Air pressure over land surface	2995	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs SPO OPN	Air specific humidity (at surface)	2995	km	5 %	6 h	0.8 h		Potential realized
Sfc obs SPO OPN	Air temperature (at surface)	2995	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs SPO OPN	Cloud base height	2995	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs SPO OPN	Cloud cover	2995	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs SPO OPN	Precipitation index (daily)	2995	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs SPO OPN	Wind vector over land surface (horizontal)	2995	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs TAO CST	Air pressure over land surface	1676	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs TAO CST	Air specific humidity (at surface)	1676	km	5 %	6 h	0.8 h		Potential realized
Sfc obs TAO CST	Air temperature (at surface)	1676	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs TAO CST	Cloud base height	1676	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs TAO CST	Cloud cover	1676	km	8 % (Max)	6 h	0.8 h		Potential realized
Sfc obs TAO CST	Precipitation index (daily)	1676	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs TAO CST	Wind vector over land surface (horizontal)	1676	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs TAO OPN	Air pressure over land surface	1459	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs TAO OPN	Air specific humidity (at surface)	1459	km	5 %	6 h	0.8 h		Potential realized
Sfc obs TAO OPN	Air temperature (at surface)	1459	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs TAO OPN	Cloud base height	1459	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs TAO OPN	Cloud cover	1459	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs TAO OPN	Precipitation index (daily)	1459	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs TAO OPN	Wind vector over land surface (horizontal)	1459	km	0.5 m/s	6 h	0.8 h		Potential realized
Sfc obs TPO OPN	Air pressure over land surface	1068	km	0.3 hPa	6 h	0.8 h		Potential realized
Sfc obs TPO OPN	Air specific humidity (at surface)	1068	km	5 %	6 h	0.8 h		Potential realized
Sfc obs TPO OPN	Air temperature (at surface)	1068	km	0.2 K	6 h	0.8 h		Potential realized
Sfc obs TPO OPN	Cloud base height	1068	km	0.5 km	6 h	0.8 h		Potential realized
Sfc obs TPO OPN	Cloud cover	1068	km	12.5 % (Max)	6 h	0.8 h		Potential realized
Sfc obs TPO OPN	Precipitation index (daily)	1068	km	0.1 mm/d	24 h	0.8 h		Potential realized
Sfc obs TPO OPN	Wind vector over land surface (horizontal)	1068	km	0.5 m/s	6 h	0.8 h		Potential realized
Ships ARC	Air pressure over sea surface	696	km	0.5 hPa	8 h	1 h		Potential realized
Ships ARC	Air specific humidity (at surface)	696	km	5 %	8 h	1 h		Potential realized
Ships ARC	Air temperature (at surface)	696	km	0.2 K	8 h	1 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con	
Ships ARC	Atmospheric temperature profile	Higher troposphere (HT)	2746	km	0.15 km	1	K	24 h	1 h	Potential realized
Ships ARC	Atmospheric temperature profile	Lower troposphere (LT)	2746	km	0.15 km	2	K	24 h	1 h	Potential realized
Ships ARC	Atmospheric temperature profile	Lower stratosphere (LS)	2746	km	2 km	1	K	24 h	1 h	Potential realized
Ships ARC	Cloud base height		696	km		0.5	km	8 h	1 h	Potential realized
Ships ARC	Cloud cover		696	km		8	% (Max)	8 h	1 h	Potential realized
Ships ARC	Dominant wave direction		696	km			degrees	8 h	1 h	Potential realized
Ships ARC	Sea surface bulk temperature		696	km		1		8 h	1 h	Potential realized
Ships ARC	Significant wave height		696	km			m	8 h	1 h	Potential realized
Ships ARC	Specific humidity profile	Lower troposphere (LT)	2746	km	0.15 km	7	%	24 h	1 h	Potential realized
Ships ARC	Specific humidity profile	Higher troposphere (HT)	2746	km	0.15 km	5	%	24 h	1 h	Potential realized
Ships ARC	Wind profile (horizontal component)	Lower stratosphere (LS)	2746	km	0.3 km	2	m/s	24 h	1 h	Potential realized
Ships ARC	Wind profile (horizontal component)	Higher troposphere (HT)	2746	km	0.3 km	2	m/s	24 d	1 h	Potential realized
Ships ARC	Wind profile (horizontal component)	Lower troposphere (LT)	2746	km	0.3 km	2	m/s	24 h	1 h	Potential realized
Ships ARC	Wind vector over sea surface (horizontal)		696	km		0.5	m/s	8 h	1 h	Potential realized
Ships MED	Air pressure over sea surface		414	km		0.5	hPa	8 h	1 h	Potential realized
Ships MED	Air specific humidity (at surface)		414	km		5	%	8 h	1 h	Potential realized
Ships MED	Air temperature (at surface)		414	km		0.2	K	8 h	1 h	Potential realized
Ships MED	Cloud base height		414	km		0.5	km	8 h	1 h	Potential realized
Ships MED	Cloud cover		414	km		8	% (Max)	8 h	1 h	Potential realized
Ships MED	Dominant wave direction		414	km			degrees	8 h	1 h	Potential realized
Ships MED	Sea surface bulk temperature		414	km		1		8 h	1 h	Potential realized
Ships MED	Significant wave height		414	km			m	8 h	1 h	Potential realized
Ships MED	Wind vector over sea surface (horizontal)		414	km		0.5	m/s	8 h	1 h	Potential realized
Ships NAO CST	Air pressure over sea surface		177	km		0.5	hPa	8 h	1 h	Potential realized
Ships NAO CST	Air specific humidity (at surface)		177	km		5	%	8 h	1 h	Potential realized
Ships NAO CST	Air temperature (at surface)		177	km		0.2	K	8 h	1 h	Potential realized
Ships NAO CST	Atmospheric temperature profile	Lower troposphere (LT)	1936	km	0.15 km	2	K	24 h	1 h	Potential realized
Ships NAO CST	Atmospheric temperature profile	Higher troposphere (HT)	1936	km	0.15 km	1	K	24 h	1 h	Potential realized
Ships NAO CST	Atmospheric temperature profile	Lower stratosphere (LS)	1936	km	2 km	1	K	24 h	1 h	Potential realized
Ships NAO CST	Cloud base height		177	km		0.5	km	8 h	1 h	Potential realized
Ships NAO CST	Cloud cover		177	km		8	% (Max)	8 h	1 h	Potential realized
Ships NAO CST	Dominant wave direction		177	km			degrees	8 h	1 h	Potential realized
Ships NAO CST	Sea surface bulk temperature		177	km		1		8 h	1 h	Potential realized
Ships NAO CST	Significant wave height		177	km			m	8 h	1 h	Potential realized
Ships NAO CST	Specific humidity profile	Lower troposphere (LT)	1936	km	0.15 km	7	%	24 h	1 h	Potential realized
Ships NAO CST	Specific humidity profile	Higher troposphere (HT)	1936	km	0.15 km	5	%	24 h	1 h	Potential realized
Ships NAO CST	Wind profile (horizontal component)	Higher troposphere (HT)	1936	km	0.3 km	2	m/s	24 d	1 h	Potential realized
Ships NAO CST	Wind profile (horizontal component)	Lower stratosphere (LS)	1936	km	0.3 km	2	m/s	24 h	1 h	Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Ships NAO CST	Wind profile (horizontal component) Lower troposphere (LT)	1936 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships NAO CST	Wind vector over sea surface (horizontal)	177 km		0.5 m/s	8 h	1 h		Potential realized
Ships NAO OPN	Air pressure over sea surface	353 km		0.5 hPa	8 h	1 h		Potential realized
Ships NAO OPN	Air specific humidity (at surface)	353 km		5 %	8 h	1 h		Potential realized
Ships NAO OPN	Air temperature (at surface)	353 km		0.2 K	8 h	1 h		Potential realized
Ships NAO OPN	Atmospheric temperature profile Lower stratosphere (LS)	1779 km	2 km	1 K	24 h	1 h		Potential realized
Ships NAO OPN	Atmospheric temperature profile Higher troposphere (HT)	1779 km	0.15 km	1 K	24 h	1 h		Potential realized
Ships NAO OPN	Atmospheric temperature profile Lower troposphere (LT)	1779 km	0.15 km	2 K	24 h	1 h		Potential realized
Ships NAO OPN	Cloud base height	353 km		0.5 km	8 h	1 h		Potential realized
Ships NAO OPN	Cloud cover	353 km		8 % (Max)	8 h	1 h		Potential realized
Ships NAO OPN	Dominant wave direction	353 km		degrees	8 h	1 h		Potential realized
Ships NAO OPN	Sea surface bulk temperature	353 km		1	8 h	1 h		Potential realized
Ships NAO OPN	Significant wave height	353 km		m	8 h	1 h		Potential realized
Ships NAO OPN	Specific humidity profile Higher troposphere (HT)	1779 km	0.15 km	5 %	24 h	1 h		Potential realized
Ships NAO OPN	Specific humidity profile Lower troposphere (LT)	1779 km	0.15 km	7 %	24 h	1 h		Potential realized
Ships NAO OPN	Wind profile (horizontal component) Higher troposphere (HT)	1779 km	0.3 km	2 m/s	24 d	1 h		Potential realized
Ships NAO OPN	Wind profile (horizontal component) Lower stratosphere (LS)	1779 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships NAO OPN	Wind profile (horizontal component) Lower troposphere (LT)	1779 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships NAO OPN	Wind vector over sea surface (horizontal)	353 km		0.5 m/s	8 h	1 h		Potential realized
Ships NIO CST	Air pressure over sea surface	560 km		0.5 hPa	8 h	1 h		Potential realized
Ships NIO CST	Air specific humidity (at surface)	560 km		5 %	8 h	1 h		Potential realized
Ships NIO CST	Air temperature (at surface)	560 km		0.2 K	8 h	1 h		Potential realized
Ships NIO CST	Cloud base height	560 km		0.5 km	8 h	1 h		Potential realized
Ships NIO CST	Cloud cover	560 km		8 % (Max)	8 h	1 h		Potential realized
Ships NIO CST	Dominant wave direction	560 km		degrees	8 h	1 h		Potential realized
Ships NIO CST	Sea surface bulk temperature	560 km		1	8 h	1 h		Potential realized
Ships NIO CST	Significant wave height	560 km		m	8 h	1 h		Potential realized
Ships NIO CST	Wind vector over sea surface (horizontal)	560 km		0.5 m/s	8 h	1 h		Potential realized
Ships NIO OPN	Air pressure over sea surface	876 km		0.5 hPa	8 h	1 h		Potential realized
Ships NIO OPN	Air specific humidity (at surface)	876 km		5 %	8 h	1 h		Potential realized
Ships NIO OPN	Air temperature (at surface)	876 km		0.2 K	8 h	1 h		Potential realized
Ships NIO OPN	Cloud base height	876 km		0.5 km	8 h	1 h		Potential realized
Ships NIO OPN	Cloud cover	876 km		8 % (Max)	8 h	1 h		Potential realized
Ships NIO OPN	Dominant wave direction	876 km		degrees	8 h	1 h		Potential realized
Ships NIO OPN	Sea surface bulk temperature	876 km		1	8 h	1 h		Potential realized
Ships NIO OPN	Significant wave height	876 km		m	8 h	1 h		Potential realized
Ships NIO OPN	Wind vector over sea surface (horizontal)	876 km		0.5 m/s	8 h	1 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Ships NPO CST	Air pressure over sea surface		292 km		0.5 hPa	8 h	1 h		Potential realized
Ships NPO CST	Air specific humidity (at surface)		292 km		5 %	8 h	1 h		Potential realized
Ships NPO CST	Air temperature (at surface)		292 km		0.2 K	8 h	1 h		Potential realized
Ships NPO CST	Atmospheric temperature profile	Higher troposphere (HT)	4232 km	0.15 km	1 K	24 h	1 h		Potential realized
Ships NPO CST	Atmospheric temperature profile	Lower troposphere (LT)	4232 km	0.15 km	2 K	24 h	1 h		Potential realized
Ships NPO CST	Atmospheric temperature profile	Lower stratosphere (LS)	4232 km	2 km	1 K	24 h	1 h		Potential realized
Ships NPO CST	Cloud base height		292 km		0.5 km	8 h	1 h		Potential realized
Ships NPO CST	Cloud cover		292 km		8 % (Max)	8 h	1 h		Potential realized
Ships NPO CST	Dominant wave direction		292 km		degrees	8 h	1 h		Potential realized
Ships NPO CST	Sea surface bulk temperature		292 km		1	8 h	1 h		Potential realized
Ships NPO CST	Significant wave height		292 km		m	8 h	1 h		Potential realized
Ships NPO CST	Specific humidity profile	Higher troposphere (HT)	4232 km	0.15 km	5 %	24 h	1 h		Potential realized
Ships NPO CST	Specific humidity profile	Lower troposphere (LT)	4232 km	0.15 km	7 %	24 h	1 h		Potential realized
Ships NPO CST	Wind profile (horizontal component)	Lower troposphere (LT)	4232 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships NPO CST	Wind profile (horizontal component)	Lower stratosphere (LS)	4232 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships NPO CST	Wind profile (horizontal component)	Higher troposphere (HT)	4232 km	0.3 km	2 m/s	24 d	1 h		Potential realized
Ships NPO CST	Wind vector over sea surface (horizontal)		292 km		0.5 m/s	8 h	1 h		Potential realized
Ships NPO OPN	Air pressure over sea surface		464 km		0.5 hPa	8 h	1 h		Potential realized
Ships NPO OPN	Air specific humidity (at surface)		464 km		5 %	8 h	1 h		Potential realized
Ships NPO OPN	Air temperature (at surface)		464 km		0.2 K	8 h	1 h		Potential realized
Ships NPO OPN	Cloud base height		464 km		0.5 km	8 h	1 h		Potential realized
Ships NPO OPN	Cloud cover		464 km		8 % (Max)	8 h	1 h		Potential realized
Ships NPO OPN	Dominant wave direction		464 km		degrees	8 h	1 h		Potential realized
Ships NPO OPN	Sea surface bulk temperature		464 km		1	8 h	1 h		Potential realized
Ships NPO OPN	Significant wave height		464 km		m	8 h	1 h		Potential realized
Ships NPO OPN	Wind vector over sea surface (horizontal)		464 km		0.5 m/s	8 h	1 h		Potential realized
Ships RA-IV S	Air pressure over sea surface		324 km		0.5 hPa	8 h	1 h		Potential realized
Ships RA-IV S	Air specific humidity (at surface)		324 km		5 %	4 h	0.5 h		Potential realized
Ships RA-IV S	Air temperature (at surface)		324 km		0.2 K	3 h	1.1 h		Potential realized
Ships RA-IV S	Atmospheric temperature profile	Higher troposphere (HT)	4419 km	0.15 km	1 K	24 h	1 h		Potential realized
Ships RA-IV S	Atmospheric temperature profile	Lower troposphere (LT)	4419 km	0.15 km	2 K	24 h	1 h		Potential realized
Ships RA-IV S	Atmospheric temperature profile	Lower stratosphere (LS)	4419 km	2 km	1 K	24 h	1 h		Potential realized
Ships RA-IV S	Cloud base height		324 km		0.5 km	4 h	0.8 h		Potential realized
Ships RA-IV S	Cloud cover		324 km		8 % (Max)	12 h	2 h		Potential realized
Ships RA-IV S	Dominant wave direction		324 km		degrees	48 h	2 h		Potential realized
Ships RA-IV S	Sea surface bulk temperature		324 km		1	2 h	6 h		Potential realized
Ships RA-IV S	Significant wave height		324 km		m	48 h	2 h		Potential realized
Ships RA-IV S	Specific humidity profile	Higher troposphere (HT)	4419 km	0.15 km	5 %	24 h	1 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Ships RA-IV S	Specific humidity profile	Lower troposphere (LT)	4419 km	0.15 km	7 %	24 h	1 h		Potential realized
Ships RA-IV S	Wind profile (horizontal component)	Lower stratosphere (LS)	4419 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships RA-IV S	Wind profile (horizontal component)	Higher troposphere (HT)	4419 km	0.3 km	2 m/s	24 d	1 h		Potential realized
Ships RA-IV S	Wind profile (horizontal component)	Lower troposphere (LT)	4419 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships RA-IV S	Wind vector over sea surface (horizontal)		324 km		0.5 m/s	3 h	0.8 h		Potential realized
Ships RA-V NW	Air pressure over sea surface		626 km		0.5 hPa	8 h	1 h		Potential realized
Ships RA-V NW	Air specific humidity (at surface)		626 km		5 %	4 h	0.5 h		Potential realized
Ships RA-V NW	Air temperature (at surface)		626 km		0.2 K	3 h	1.1 h		Potential realized
Ships RA-V NW	Atmospheric temperature profile	Higher troposphere (HT)	8610 km	0.15 km	1 K	24 h	1 h		Potential realized
Ships RA-V NW	Atmospheric temperature profile	Lower stratosphere (LS)	8610 km	0.15 km	2 K	24 h	1 h		Potential realized
Ships RA-V NW	Atmospheric temperature profile	Lower stratosphere (LS)	8610 km	2 km	1 K	24 h	1 h		Potential realized
Ships RA-V NW	Cloud base height		626 km		0.5 km	4 h	0.8 h		Potential realized
Ships RA-V NW	Cloud cover		626 km		8 % (Max)	12 h	2 h		Potential realized
Ships RA-V NW	Dominant wave direction		626 km		degrees	48 h	2 h		Potential realized
Ships RA-V NW	Sea surface bulk temperature		626 km		1	2 h	6 h		Potential realized
Ships RA-V NW	Significant wave height		626 km		m	48 h	2 h		Potential realized
Ships RA-V NW	Specific humidity profile	Higher troposphere (HT)	8610 km	0.15 km	5 %	24 h	1 h		Potential realized
Ships RA-V NW	Specific humidity profile	Lower troposphere (LT)	8610 km	0.15 km	7 %	24 h	1 h		Potential realized
Ships RA-V NW	Wind profile (horizontal component)	Lower stratosphere (LS)	8610 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships RA-V NW	Wind profile (horizontal component)	Higher troposphere (HT)	8610 km	0.3 km	2 m/s	24 d	1 h		Potential realized
Ships RA-V NW	Wind profile (horizontal component)	Lower troposphere (LT)	8610 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships RA-V NW	Wind vector over sea surface (horizontal)		626 km		0.5 m/s	3 h	0.8 h		Potential realized
Ships RA-V SW	Air pressure over sea surface		777 km		0.5 hPa	8 h	1 h		Potential realized
Ships RA-V SW	Air specific humidity (at surface)		777 km		5 %	8 h	1 h		Potential realized
Ships RA-V SW	Air temperature (at surface)		777 km		0.2 K	8 h	1 h		Potential realized
Ships RA-V SW	Atmospheric temperature profile	Higher troposphere (HT)	9999 km	0.15 km	1 K	24 h	1 h		Potential realized
Ships RA-V SW	Atmospheric temperature profile	Lower stratosphere (LS)	9999 km	2 km	1 K	24 h	1 h		Potential realized
Ships RA-V SW	Atmospheric temperature profile	Lower troposphere (LT)	9999 km	0.15 km	2 K	24 h	1 h		Potential realized
Ships RA-V SW	Cloud base height		777 km		0.5 km	8 h	1 h		Potential realized
Ships RA-V SW	Cloud cover		777 km		8 % (Max)	8 h	1 h		Potential realized
Ships RA-V SW	Dominant wave direction		777 km		degrees	8 h	1 h		Potential realized
Ships RA-V SW	Sea surface bulk temperature		777 km		1	8 h	1 h		Potential realized
Ships RA-V SW	Significant wave height		777 km		m	8 h	1 h		Potential realized
Ships RA-V SW	Specific humidity profile	Higher troposphere (HT)	9999 km	0.15 km	5 %	24 h	1 h		Potential realized
Ships RA-V SW	Specific humidity profile	Lower troposphere (LT)	9999 km	0.15 km	7 %	24 h	1 h		Potential realized
Ships RA-V SW	Wind profile (horizontal component)	Lower stratosphere (LS)	9999 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships RA-V SW	Wind profile (horizontal component)	Higher troposphere (HT)	9999 km	0.3 km	2 m/s	24 d	1 h		Potential realized
Ships RA-V SW	Wind profile (horizontal component)	Lower troposphere (LT)	9999 km	0.3 km	2 m/s	24 h	1 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Ships RA-V SW	Wind vector over sea surface (horizontal)	777 km		3 m/s	8 h	1 h		Potential realized
Ships RA-VII	Air pressure over sea surface	27592 km		0.5 hPa	8 h	1 h		Potential realized
Ships RA-VII	Air specific humidity (at surface)	27592 km		5 %	4 h	0.5 h		Potential realized
Ships RA-VII	Air temperature (at surface)	27592 km		0.2 K	3 h	1.1 h		Potential realized
Ships RA-VII	Cloud base height	27592 km		0.5 km	4 h	0.8 h		Potential realized
Ships RA-VII	Cloud cover	27592 km		8 % (Max)	12 h	2 h		Potential realized
Ships RA-VII	Dominant wave direction	27592 km		degrees	48 h	2 h		Potential realized
Ships RA-VII	Sea surface bulk temperature	27592 km		1	2 h	6 h		Potential realized
Ships RA-VII	Significant wave height	27592 km		m	48 h	2 h		Potential realized
Ships RA-VII	Wind vector over sea surface (horizontal)	27592 km		0.5 m/s	3 h	0.8 h		Potential realized
Ships SAO CST	Air pressure over sea surface	809 km		0.5 hPa	8 h	1 h		Potential realized
Ships SAO CST	Air specific humidity (at surface)	809 km		5 %	8 h	1 h		Potential realized
Ships SAO CST	Air temperature (at surface)	809 km		0.2 K	8 h	1 h		Potential realized
Ships SAO CST	Cloud base height	809 km		0.5 km	8 h	1 h		Potential realized
Ships SAO CST	Cloud cover	809 km		8 % (Max)	8 h	1 h		Potential realized
Ships SAO CST	Dominant wave direction	809 km		degrees	8 h	1 h		Potential realized
Ships SAO CST	Sea surface bulk temperature	809 km		1	8 h	1 h		Potential realized
Ships SAO CST	Significant wave height	809 km		m	8 h	1 h		Potential realized
Ships SAO CST	Wind vector over sea surface (horizontal)	809 km		0.5 m/s	8 h	1 h		Potential realized
Ships SAO OPN	Air pressure over sea surface	1982 km		0.5 hPa	8 h	1 h		Potential realized
Ships SAO OPN	Air specific humidity (at surface)	1982 km		5 %	8 h	1 h		Potential realized
Ships SAO OPN	Air temperature (at surface)	1982 km		0.2 K	8 h	1 h		Potential realized
Ships SAO OPN	Cloud base height	1982 km		0.5 km	8 h	1 h		Potential realized
Ships SAO OPN	Cloud cover	1982 km		8 % (Max)	8 h	1 h		Potential realized
Ships SAO OPN	Dominant wave direction	1982 km		degrees	8 h	1 h		Potential realized
Ships SAO OPN	Sea surface bulk temperature	1982 km		1	8 h	1 h		Potential realized
Ships SAO OPN	Significant wave height	1982 km		m	8 h	1 h		Potential realized
Ships SAO OPN	Wind vector over sea surface (horizontal)	1982 km		0.5 m/s	8 h	1 h		Potential realized
Ships SIO	Air pressure over sea surface	1591 km		0.5 hPa	8 h	1 h		Potential realized
Ships SIO	Air specific humidity (at surface)	1591 km		5 %	8 h	1 h		Potential realized
Ships SIO	Air temperature (at surface)	1591 km		0.2 K	8 h	1 h		Potential realized
Ships SIO	Atmospheric temperature profile Higher troposphere (HT)	9999 km	0.15 km	1 K	24 h	1 h		Potential realized
Ships SIO	Atmospheric temperature profile Lower troposphere (LT)	26016 km	0.15 km	2 K	24 h	1 h		Potential realized
Ships SIO	Atmospheric temperature profile Lower stratosphere (LS)	26016 km	2 km	1 K	24 h	1 h		Potential realized
Ships SIO	Cloud base height	1591 km		0.5 km	8 h	1 h		Potential realized
Ships SIO	Cloud cover	1591 km		8 % (Max)	8 h	1 h		Potential realized
Ships SIO	Dominant wave direction	1591 km		degrees	8 h	1 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Ships SIO	Sea surface bulk temperature	1591 km		1	8 h	1 h		Potential realized
Ships SIO	Significant wave height	1591 km			8 h	1 h		Potential realized
Ships SIO	Specific humidity profile Higher troposphere (HT)	9999 km	0.15 km	5 %	24 h	1 h		Potential realized
Ships SIO	Specific humidity profile Lower troposphere (LT)	9999 km	0.15 km	7 %	24 h	1 h		Potential realized
Ships SIO	Wind profile (horizontal component) Lower troposphere (LT)	9999 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships SIO	Wind profile (horizontal component) Higher troposphere (HT)	26016 km	0.3 km	2 m/s	24 d	1 h		Potential realized
Ships SIO	Wind profile (horizontal component) Lower stratosphere (LS)	26016 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships SIO	Wind vector over sea surface (horizontal)	1591 km		0.5 m/s	8 h	1 h		Potential realized
Ships SPO CST	Air pressure over sea surface	1849 km		0.5 hPa	8 h	1 h		Potential realized
Ships SPO CST	Air specific humidity (at surface)	1849 km		5 %	8 h	1 h		Potential realized
Ships SPO CST	Air temperature (at surface)	1849 km		0.2 K	8 h	1 h		Potential realized
Ships SPO CST	Cloud base height	1849 km		0.5 km	8 h	1 h		Potential realized
Ships SPO CST	Cloud cover	1849 km		8 % (Max)	8 h	1 h		Potential realized
Ships SPO CST	Dominant wave direction	1849 km		degrees	8 h	1 h		Potential realized
Ships SPO CST	Sea surface bulk temperature	1849 km		1	8 h	1 h		Potential realized
Ships SPO CST	Significant wave height	1849 km		m	8 h	1 h		Potential realized
Ships SPO CST	Wind vector over sea surface (horizontal)	1849 km		0.5 m/s	8 h	1 h		Potential realized
Ships SPO OPN	Air pressure over sea surface	2546 km		0.5 hPa	8 h	1 h		Potential realized
Ships SPO OPN	Air specific humidity (at surface)	2546 km		5 %	8 h	1 h		Potential realized
Ships SPO OPN	Air temperature (at surface)	2546 km		0.2 K	8 h	1 h		Potential realized
Ships SPO OPN	Cloud base height	2546 km		0.5 km	8 h	1 h		Potential realized
Ships SPO OPN	Cloud cover	2546 km		8 % (Max)	8 h	1 h		Potential realized
Ships SPO OPN	Dominant wave direction	2546 km		degrees	8 h	1 h		Potential realized
Ships SPO OPN	Sea surface bulk temperature	2546 km		1	8 h	1 h		Potential realized
Ships SPO OPN	Significant wave height	2546 km		m	8 h	1 h		Potential realized
Ships SPO OPN	Wind vector over sea surface (horizontal)	2546 km		0.5 m/s	8 h	1 h		Potential realized
Ships TAO CST	Air pressure over sea surface	540 km		0.5 hPa	8 h	1 h		Potential realized
Ships TAO CST	Air specific humidity (at surface)	540 km		5 %	8 h	1 h		Potential realized
Ships TAO CST	Air temperature (at surface)	540 km		0.2 K	8 h	1 h		Potential realized
Ships TAO CST	Cloud base height	540 km		0.5 km	8 h	1 h		Potential realized
Ships TAO CST	Cloud cover	540 km		8 % (Max)	8 h	1 h		Potential realized
Ships TAO CST	Dominant wave direction	540 km		degrees	8 h	1 h		Potential realized
Ships TAO CST	Sea surface bulk temperature	540 km		1	8 h	1 h		Potential realized
Ships TAO CST	Significant wave height	540 km		m	8 h	1 h		Potential realized
Ships TAO CST	Wind vector over sea surface (horizontal)	540 km		0.5 m/s	8 h	1 h		Potential realized
Ships TAO OPN	Air pressure over sea surface	837 km		0.5 hPa	8 h	1 h		Potential realized
Ships TAO OPN	Air specific humidity (at surface)	837 km		5 %	8 h	1 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Ships TAO OPN	Air temperature (at surface)		837 km		0.2 K	8 h	1 h		Potential realized
Ships TAO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	4005 km	2 km	1 K	24 h	1 h		Potential realized
Ships TAO OPN	Atmospheric temperature profile	Lower troposphere (LT)	4005 km	0.15 km	2 K	24 h	1 h		Potential realized
Ships TAO OPN	Atmospheric temperature profile	Higher troposphere (HT)	4005 km	0.15 km	1 K	24 h	1 h		Potential realized
Ships TAO OPN	Cloud base height		837 km		0.5 km	8 h	1 h		Potential realized
Ships TAO OPN	Cloud cover		837 km		8 % (Max)	8 h	1 h		Potential realized
Ships TAO OPN	Dominant wave direction		837 km		degrees	8 h	1 h		Potential realized
Ships TAO OPN	Sea surface bulk temperature		837 km		1	8 h	1 h		Potential realized
Ships TAO OPN	Significant wave height		837 km		m	8 h	1 h		Potential realized
Ships TAO OPN	Specific humidity profile	Lower troposphere (LT)	4005 km	0.15 km	7 %	24 h	1 h		Potential realized
Ships TAO OPN	Specific humidity profile	Higher troposphere (HT)	4005 km	0.15 km	5 %	24 h	1 h		Potential realized
Ships TAO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	4005 km	0.3 km	2 m/s	24 d	1 h		Potential realized
Ships TAO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	4005 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships TAO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	4005 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships TAO OPN	Wind vector over sea surface (horizontal)		837 km		0.5 m/s	8 h	1 h		Potential realized
Ships TPO CST	Air pressure over sea surface		672 km		0.5 hPa	8 h	1 h		Potential realized
Ships TPO CST	Air specific humidity (at surface)		672 km		5 %	8 h	1 h		Potential realized
Ships TPO CST	Air temperature (at surface)		672 km		0.2 K	8 h	1 h		Potential realized
Ships TPO CST	Atmospheric temperature profile	Lower troposphere (LT)	3461 km	0.15 km	2 K	24 h	1 h		Potential realized
Ships TPO CST	Atmospheric temperature profile	Higher troposphere (HT)	3461 km	0.15 km	1 K	24 h	1 h		Potential realized
Ships TPO CST	Atmospheric temperature profile	Lower stratosphere (LS)	3461 km	2 km	1 K	24 h	1 h		Potential realized
Ships TPO CST	Cloud base height		672 km		0.5 km	8 h	1 h		Potential realized
Ships TPO CST	Cloud cover		672 km		8 % (Max)	8 h	1 h		Potential realized
Ships TPO CST	Dominant wave direction		672 km		degrees	8 h	1 h		Potential realized
Ships TPO CST	Sea surface bulk temperature		672 km		1	8 h	1 h		Potential realized
Ships TPO CST	Significant wave height		672 km		m	8 h	1 h		Potential realized
Ships TPO CST	Specific humidity profile	Higher troposphere (HT)	3461 km	0.15 km	5 %	24 h	1 h		Potential realized
Ships TPO CST	Specific humidity profile	Lower troposphere (LT)	3461 km	0.15 km	7 %	24 h	1 h		Potential realized
Ships TPO CST	Wind profile (horizontal component)	Lower troposphere (LT)	3461 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships TPO CST	Wind profile (horizontal component)	Lower stratosphere (LS)	3461 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships TPO CST	Wind profile (horizontal component)	Higher troposphere (HT)	3461 km	0.3 km	2 m/s	24 d	1 h		Potential realized
Ships TPO CST	Wind vector over sea surface (horizontal)		672 km		0.5 m/s	8 h	1 h		Potential realized
Ships TPO OPN	Air pressure over sea surface		1286 km		0.5 hPa	8 h	1 h		Potential realized
Ships TPO OPN	Air specific humidity (at surface)		1286 km		5 %	8 h	1 h		Potential realized
Ships TPO OPN	Air temperature (at surface)		1286 km		0.2 K	8 h	1 h		Potential realized
Ships TPO OPN	Atmospheric temperature profile	Lower stratosphere (LS)	9999 km	2 km	1 K	24 h	1 h		Potential realized
Ships TPO OPN	Atmospheric temperature profile	Lower troposphere (LT)	9999 km	0.15 km	2 K	24 h	1 h		Potential realized
Ships TPO OPN	Atmospheric temperature profile	Higher troposphere (HT)	9999 km	0.15 km	1 K	24 h	1 h		Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
Ships TPO OPN	Cloud base height		1286 km		0.5 km	8 h	1 h		Potential realized
Ships TPO OPN	Cloud cover		1286 km		8 % (Max)	8 h	1 h		Potential realized
Ships TPO OPN	Dominant wave direction		1286 km		degrees	8 h	1 h		Potential realized
Ships TPO OPN	Sea surface bulk temperature		1286 km		1	8 h	1 h		Potential realized
Ships TPO OPN	Significant wave height		1286 km		m	8 h	1 h		Potential realized
Ships TPO OPN	Specific humidity profile	Lower troposphere (LT)	9999 km	0.15 km	7 %	24 h	1 h		Potential realized
Ships TPO OPN	Specific humidity profile	Higher troposphere (HT)	9999 km	0.15 km	5 %	24 h	1 h		Potential realized
Ships TPO OPN	Wind profile (horizontal component)	Lower stratosphere (LS)	9999 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships TPO OPN	Wind profile (horizontal component)	Higher troposphere (HT)	9999 km	0.3 km	2 m/s	24 d	1 h		Potential realized
Ships TPO OPN	Wind profile (horizontal component)	Lower troposphere (LT)	9999 km	0.3 km	2 m/s	24 h	1 h		Potential realized
Ships TPO OPN	Wind vector over sea surface (horizontal)		1286 km		0.5 m/s	8 h	1 h		Potential realized
Sounder	Atmospheric stability index		10 km		K	1 h	0.5 h		Potential realized
Sounder	Atmospheric temperature profile	Lower stratosphere (LS)	30 km	2 km	2 K	1 h	0.5 h		Potential realized
Sounder	Atmospheric temperature profile	Lower troposphere (LT)	30 km	1 km	2.5 K	1 h	0.5 h		Potential realized
Sounder	Atmospheric temperature profile	Higher troposphere (HT)	30 km	1 km	2.5 K	1 h	0.5 h		Potential realized
Sounder	Cloud cover		10 km		5 % (Max)	1 h	0.5 h		Potential expected
Sounder	Cloud optical thickness		30 km		20 %	1 h	0.5 h		Potential realized
Sounder	Cloud top height		10 km		0.7 km	1 h	0.5 h		Potential expected
Sounder	Cloud top temperature		30 km		2 K	1 h	0.5 h		Potential expected
Sounder	Land surface temperature		10 km		2 K	1 h	0.5 h		Potential expected
Sounder	Outgoing long-wave radiation at		30 km		10 m/s	1 h	12 h		Potential realized
Sounder	Outgoing short-wave radiation at		30 km		10 W/m2	1 h	12 h		Potential realized
Sounder	Ozone profile	Total column	30 km		30 DU	1 h	0.5 h		Potential realized
Sounder	Sea surface bulk temperature		10 km		0.5	1 h	0.5 h		Potential realized
Sounder	Specific humidity profile	Lower troposphere (LT)	30 km	1 km	20 %	1 h	0.5 h		Potential realized
Sounder	Specific humidity profile	Higher troposphere (HT)	30 km	1 km	20 %	1 h	0.5 h		Potential realized
Sounder	Specific humidity profile	Total column	30 km		2 kg/m2	1 h	0.5 h		Potential expected
Sounder	Wind profile (horizontal component)	Higher troposphere (HT)	150 km	5 km	5 m/s	1 d	1 h		Potential realized
SPECTRA	Leaf Area Index (LAI)		0.05 km		20 % (Max)	d	0.125 d		Experimental
SPECTRA	Long-wave Earth surface emissivity		0.2 km		0.5 % (Max)	72 h	3 h		Potential expected
SPECTRA	Snow melting conditions		0.05 km		5 classes	h	h		Experimental
SPECTRA	Snow water equivalent		0.05 km		5 mm	168 h	72 h		Experimental
SPECTRA	Vegetation type		50 m		10 classes	d	3 d		Potential
SSM/I	Cloud water profile (< 100 μm)	Total column	75 km		30 kg/m2	12 h	3 h		Potential realized
SSM/I	Permafrost		50 km		40 % (Max)	0.5 d	2 d		Experimental
SSM/I	Precipitation rate (liquid) at the		15 km		m/s	12 h	3 h		Potential realized
SSM/I	Sea-ice cover		15 km		20 % (Max)	0.5 d	24 d		Potential realized
SSM/I	Snow cover		20 km		10 % (Max)	12 h	24 h		Potential
SSM/I	Snow melting conditions		8 km		5 classes	12 h	24 h		Potential

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
SSM/I	Snow water equivalent		75	km			12 h 3 h		Potential realized
SSM/I	Specific humidity profile	Total column	75	km		1.5 kg/m2	12 h 3 h		Potential realized
SSM/I	Wind speed over sea surface (horizontal)		75	km		1.5 m/s	12 h 3 h		Potential realized
SSM/T-1	Atmospheric temperature profile	Higher troposphere (HT)	200	km	1 km	2.5 K	12 h 3 h		Potential realized
SSM/T-1	Atmospheric temperature profile	Lower stratosphere (LS)	200	km	2 km	2 K	12 h 3 h		Potential realized
SSM/T-1	Atmospheric temperature profile	Lower troposphere (LT)	200	km	1 km	2.5 K	12 h 3 h		Potential realized
SSM/T-2	Specific humidity profile	Higher troposphere (HT)	50	km	1 km	20 %	12 h 3 h		Potential expected
SSM/T-2	Specific humidity profile	Lower troposphere (LT)	50	km	2 km	15 %	12 h 3 h		Potential realized
SSMIS	Atmospheric temperature profile	Lower troposphere (LT)	75	km	1 km	2 K	12 h 2 h	Delay is quicker for local reception	Potential realized
SSMIS	Atmospheric temperature profile	Higher troposphere (HT)	75	km	1 km	2 K	12 h 2 h	Delay is quicker for local reception	Potential realized
SSMIS	Atmospheric temperature profile	Lower stratosphere (LS)	75	km	2 km	2 K	12 h 2 h	Delay is quicker for local reception	Potential realized
SSMIS	Atmospheric temperature profile	Higher stratosphere & mesosphere (HS & M)	75	km	2 km	2 K	12 h 2 h	Delay is quicker for local reception	Potential realized
SSMIS	Cloud water profile (< 100 µm)	Total column	75	km		30 kg/m2	12 h 3 h		Potential realized
SSMIS	Land surface temperature		75	km		3 K	12 h 2 h	Delay is quicker for local reception	Experimental
SSMIS	Permafrost		50	km		40 % (Max)	0.5 d 2 d		Experimental
SSMIS	Precipitation rate (liquid) at the		15	km		m/s	12 h 3 h		Potential realized
SSMIS	Precipitation rate (solid) at the		75	km		5 mm/h	12 h 2 h	Delay is quicker for local reception	Potential realized
SSMIS	Sea-ice cover		15	km		20 % (Max)	0.5 d 24 d		Potential realized
SSMIS	Snow cover		75	km		50 % (Max)	12 h 2 h	Delay is quicker for local reception	Potential expected
SSMIS	Snow water equivalent		75	km		mm	12 h 3 h		Potential realized
SSMIS	Specific humidity profile	Higher troposphere (HT)	75	km	1 km	15 %	12 h 2 h	Delay is quicker for local reception	Potential realized
SSMIS	Specific humidity profile	Total column	75	km		1.5 kg/m2	12 h 3 h		Potential realized
SSMIS	Specific humidity profile	Lower troposphere (LT)	75	km	1 km	15 %	12 h 2 h	Delay is quicker for local reception	Potential realized
SSMIS	Wind speed over sea surface (horizontal)		75	km		1.5 m/s	12 h 3 h		Potential realized
SSU	Atmospheric temperature profile	Higher stratosphere & mesosphere (HS & M)	200	km	2 km	2 K	12 h 2 h		Potential realized
SSU	Atmospheric temperature profile	Lower stratosphere (LS)	200	km	2 km	2 K	12 h 2 h		Potential realized
TAO NIO OPN	Air pressure over sea surface		1580	km		0.1 hPa	9 h 3 h		Potential expected
TAO NIO OPN	Air specific humidity (at surface)		1580	km		4 %	9 h 3 h		Potential expected
TAO NIO OPN	Air temperature (at surface)		1580	km		0.2 K	9 h 3 h		Potential realized
TAO NIO OPN	Downwelling long-wave radiation at the Earth surface		1580	km		3 W/m2	24 h 12 h		Potential expected

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
TAO NIO OPN	Downwelling short-wave radiation at the Earth surface	1580 km		3 W/m2	24 h	12 h		Potential expected
TAO NIO OPN	Ocean salinity	1580 km		0.03 psu	24 d	3 d		Potential expected
TAO NIO OPN	Precipitation rate (liquid) at the	1580 km		1 m/s	24 h	12 h		Potential expected
TAO NIO OPN	Sea surface bulk temperature	1580 km		0.03	9 h	3 h		Potential expected
TAO NIO OPN	Wind vector over sea surface (horizontal)	1580 km		0.3 m/s	9 h	3 h		Potential expected
TAO TAO OPN	Air pressure over sea surface	1640 km		0.1 hPa	8 h	3.7 h	not on GTS	Potential realized
TAO TAO OPN	Air specific humidity (at surface)	1640 km		4 %	8 h	3.7 h	1400 Hor. Res. between 10S and 20N	Potential realized
TAO TAO OPN	Air temperature (at surface)	1640 km		0.2 K	8 h	3.7 h	1400 Hor. Res. between 10S and 20N	Potential realized
TAO TAO OPN	Downwelling short-wave radiation at the Earth surface	1640 km		3 W/m2	24 h	12.3 h	not on GTS	Potential realized
TAO TAO OPN	Ocean salinity	1640 km		0.03 psu	24 d	3.7 d	not on GTS	Potential realized
TAO TAO OPN	Precipitation rate (liquid) at the	1640 km		1 m/s	24 h	12.3 h	not on GTS	Potential realized
TAO TAO OPN	Sea surface bulk temperature	1640 km		0.03	8 h	3.7 h	1400 Hor. Res. between 10S and 20N	Potential realized
TAO TAO OPN	Wind vector over sea surface (horizontal)	1640 km		0.3 m/s	8 h	3.7 h	1400 Hor. Res. between 10S and 20N	Potential realized
TAO TPO OPN	Air pressure over sea surface	3660 km		0.1 hPa	9 h	2.45 h	not on GTS	Potential realized
TAO TPO OPN	Air specific humidity (at surface)	1380 km		4 %	9 h	2.45 h	1080 Hor. Res. between 10S and 10N	Potential realized
TAO TPO OPN	Air temperature (at surface)	1380 km		0.2 K	9 h	2.45 h	1080 Hor. Res. between 10S and 10N	Potential realized
TAO TPO OPN	Downwelling long-wave radiation at the Earth surface	3660 km		3 W/m2	24 h	11.1 h	not on GTS	Potential realized
TAO TPO OPN	Downwelling short-wave radiation at the Earth surface	2588 km		3 W/m2	24 h	11.1 h	not on GTS	Potential realized
TAO TPO OPN	Ocean salinity	2363 km		0.03 psu	24 d	2.45 d	not on GTS	Potential realized
TAO TPO OPN	Precipitation rate (liquid) at the	2363 km		1 m/s	24 h	11.1 h	not on GTS	Potential realized
TAO TPO OPN	Sea surface bulk temperature	1380 km		0.03	9 h	2.45 h	1080 Hor. Res. between 10S and 10N	Potential realized
TAO TPO OPN	Wind vector over sea surface (horizontal)	1380 km		0.3 m/s	9 h	2.45 h	1080 Hor. Res. between 10S and 10N	Potential realized
TM	Land cover	30 m		20 classes	0.04 y	2 d		Potential expected
TM	Vegetation type	30 m		20 classes	16 d	7 d		Potential realized
TMI	Specific humidity profile	10 km		1.5 kg/m2	80 h	720 h		Experimental
TOMS	Ozone profile	50 km		20 DU	12 h	2 h		Experimental
TOVS (HIRS/2 + MSU + SSU)	Atmospheric temperature profile	80 km	1 km	2 K	12 h	2 h	Higher troposphere (HT)	Potential realized
TOVS (HIRS/2 + MSU + SSU)	Atmospheric temperature profile	80 km	1 km	2 K	12 h	2 h	Lower troposphere (LT)	Potential realized

Instrument	Parameter		Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
TOVS (HIRS/2 + MSU + SSU)	Atmospheric temperature profile	Lower stratosphere (LS)	80 km	2 km	1.5 K	12 h	2 h		Potential realized
TOVS (HIRS/2 + MSU + SSU)	Specific humidity profile	Total column	80 km		2 kg/m2	12 h	2 h		Potential expected
TOVS (HIRS/2 + MSU + SSU)	Specific humidity profile	Lower troposphere (LT)	80 km	1 km	15 %	12 h	2 h		Potential realized
TOVS (HIRS/2 + MSU + SSU)	Specific humidity profile	Higher troposphere (HT)	80 km	1 km	20 %	12 h	2 h		Potential realized
VAS	Atmospheric stability index		100 km		K	1 h	0.5 h		Potential realized
VAS	Atmospheric temperature profile	Lower stratosphere (LS)	100 km	2 km	2 K	1 h	0.5 h		Potential realized
VAS	Atmospheric temperature profile	Higher troposphere (HT)	100 km	1 km	2.5 K	1 h	0.5 h		Potential realized
VAS	Atmospheric temperature profile	Lower troposphere (LT)	100 km	1 km	2.5 K	1 h	0.5 h		Potential realized
VAS	Cloud cover		10 km		15 % (Max)	1 h	0.5 h		Potential expected
VAS	Cloud top height		100 km		0.7 km	1 h	0.5 h		Potential expected
VAS	Cloud top temperature		100 km		2 K	1 h	0.5 h		Potential expected
VAS	Land surface temperature		10 km		2 K	1 h	0.5 h		Potential expected
VAS	Outgoing long-wave radiation at		100 km		10 m/s	1 h	12 h		Potential realized
VAS	Outgoing short-wave radiation at		100 km		10 W/m2	1 h	12 h		Potential realized
VAS	Precipitation rate (liquid) at the		10 km		m/s	1 h	0.5 h		Potential realized
VAS	Precipitation rate (solid) at the		50 km		mm/h	1 h	0.5 h		Potential realized
VAS	Sea surface bulk temperature		10 km		0.5	1 h	0.5 h		Potential realized
VAS	Specific humidity profile	Higher troposphere (HT)	100 km	1 km	20 %	1 h	0.5 h		Potential realized
VAS	Specific humidity profile	Lower troposphere (LT)	100 km	1 km	15 %	1 h	0.5 h		Potential realized
VEGETATION	Land cover		1000 m		15 classes	0.01 y	3 d		Experimental
VEGETATION	Leaf Area Index (LAI)		1 km		20 % (Max)	30 d	3 d		Potential
VHRR	Wind profile (horizontal component)	Lower troposphere (LT)	150 km	5 km	4 m/s	1 h	2 h		Potential realized
VHRR	Wind profile (horizontal component)	Higher troposphere (HT)	150 km	5 km	6 m/s	1 d	2 h		Potential expected
VIIRS	Aerosol profile	Total column	5 km		%	12 h	2 h		Potential
VIIRS	Atmospheric temperature profile	Lower troposphere (LT)	5 km	1 km	2.5 K	12 h	2 h		Potential
VIIRS	Atmospheric temperature profile	Higher troposphere (HT)	5 km	1 km	2.5 K	12 h	2 h		Potential
VIIRS	Cloud cover		5 km		5 % (Max)	12 h	2 h		Potential
VIIRS	Cloud imagery		0.4 km			12 h	2 h		Experimental
VIIRS	Cloud optical thickness		5 km		20 %	12 h	2 h		Potential
VIIRS	Cloud top height		5 km		0.7 km	12 h	2 h		Experimental
VIIRS	Cloud top temperature		5 km		2 K	12 h	2 h		Experimental
VIIRS	Cloud type		1 km		8 classes	12 h	2 h		Experimental
VIIRS	Fire area		1 m2		5 % (Max)	0.5 d	0.08 d		Potential
VIIRS	Fire temperature		1 K		50 K	0.5 d	0.08 d		Potential
VIIRS	Fractional Photosynthetically Active Radiation (FPAR)		0.4 km		15 % (Max)	0.5 d	2 d		Experimental
VIIRS	Land cover		400 m		15 classes	0.01 y	0.08 d		Potential

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
VIIRS	Land surface imagery	400 m			2 d	2 d		Potential
VIIRS	Land surface temperature	1 km		1 K	12 h	2 h		Potential
VIIRS	Leaf Area Index (LAI)	0.4 km		20 % (Max)	30 d	0.08 d		Potential
VIIRS	Normalized Differential Vegetation Index (NDVI)	0.4 km		5 % (Max)	0.5 d	0.08 d		Potential
VIIRS	Outgoing long-wave radiation at	5 km		10 m/s	12 h	2 h		Potential
VIIRS	Outgoing short-wave radiation at	5 km		10 W/m2	12 h	2 h		Potential
VIIRS	Ozone profile	Total column		30 DU	12 h	2 h		Potential
VIIRS	Sea surface bulk temperature	1 km		0.3	12 h	2 h		Potential
VIIRS	Snow cover	0.4 km		5 % (Max)	12 h	2 h		Experimental
VIIRS	Specific humidity profile	Total column		2.5 kg/m2	12 h	2 h		Potential
VIIRS	Specific humidity profile	Higher troposphere (HT)	3 km	20 %	12 h	2 h		Potential
VIIRS	Specific humidity profile	Lower troposphere (LT)	2 km	20 %	12 h	2 h		Potential
VIIRS	Vegetation type	400 m		10 classes	1 d	0.08 d		Potential
VISSR (FY-2)	Cloud cover	20 km		15 % (Max)	1 h	1 h		Potential expected
VISSR (FY-2)	Cloud imagery	5 km			1 h	1 h		Potential expected
VISSR (FY-2)	Cloud top height	50 km		1 km	1 h	1 h		Potential expected
VISSR (FY-2)	Cloud top temperature	50 km		2 K	1 h	1 h		Potential expected
VISSR (FY-2)	Cloud type	50 km		3 classes	1 h	1 h		Potential expected
VISSR (FY-2)	Outgoing long-wave radiation at	50 km		20 m/s	1 h	12 h		Potential expected
VISSR (FY-2)	Outgoing short-wave radiation at	50 km		20 W/m2	1 h	12 h		Potential expected
VISSR (FY-2)	Precipitation rate (liquid) at the	5 km		10 m/s	1 h	3 h		Potential expected
VISSR (FY-2)	Sea surface bulk temperature	50 km		1	1 h	3 h		Potential expected
VISSR (FY-2)	Wind profile (horizontal component)	Lower troposphere (LT)	5 km	2 m/s	1 h	2 h		Potential expected
VISSR (FY-2)	Wind profile (horizontal component)	Higher troposphere (HT)	5 km	5 m/s	1 d	2 h		Potential expected
VISSR (GMS-5)	Cloud cover	20 km		15 % (Max)	1 h	1.5 h		Potential realized
VISSR (GMS-5)	Cloud imagery	5 km			1 h	0.1 h		Potential realized
VISSR (GMS-5)	Cloud top height	50 km		1 km	1 h	1.5 h		Potential realized
VISSR (GMS-5)	Cloud top temperature	50 km		2 K	3 h	1.5 h		Potential realized
VISSR (GMS-5)	Cloud type	50 km		2 classes	3 h	1.5 h		Potential realized
VISSR (GMS-5)	Outgoing long-wave radiation at	50 km		30 m/s	1 h	6 h		Potential realized
VISSR (GMS-5)	Outgoing short-wave radiation at	50 km		W/m2	1 h	6 h		Potential realized
VISSR (GMS-5)	Precipitation rate (liquid) at the	50 km		m/s	1 h	0.1 h		Potential realized
VISSR (GMS-5)	Precipitation rate (solid) at the	50 km		mm/h	1 h	0.1 h		Potential realized
VISSR (GMS-5)	Sea surface bulk temperature	50 km		1	1 h	1.5 h		Potential realized
VISSR (GMS-5)	Specific humidity profile	Higher troposphere (HT)	3 km	20 %	1 h	1 h		Potential realized
VISSR (GMS-5)	Specific humidity profile	Lower troposphere (LT)	2 km	20 %	1 h	0.5 h		Potential realized
VISSR (GMS-5)	Wind profile (horizontal component)	Lower troposphere (LT)	5 km	3 m/s	1 h	2 h		Potential realized
VISSR (GMS-5)	Wind profile (horizontal component)	Higher troposphere (HT)	5 km	5 m/s	1 d	2 h		Potential realized
WND P 449 RA-IV C	Wind profile (horizontal component)	Higher troposphere (HT)	0.32 km	1.5 m/s	1 d	0.5 h		Potential realized

Instrument	Parameter	Hor Res	Vert Res	Accuracy	Obsv Cycle	Delay	Comment	Con
WND P 449 RA-IV C	Wind profile (horizontal component) Lower troposphere (LT)	700 km	0.32 km	1.5 m/s	1 h	0.5 h		Potential realized
WND P 915 RA-IV C	Wind profile (horizontal component) Higher troposphere (HT)	1000 km	0.1 km	2 m/s	1 d	0.5 h		Potential realized
WND P 915 RA-IV C	Wind profile (horizontal component) Lower troposphere (LT)	1000 km	0.1 km	2 m/s	1 h	0.5 h		Potential realized

APPENDIX B

WMO requirements without match in user estimates but with a **match in space agency estimates**

WMO requirements without match in user estimates but with a match in space agency estimates

30-Jun-04

Parameter	Hor Res	Vert Res	Accuracy	Observing Cycle	Delay of availability
Instrument					
Cloud ice profile Higher troposphere (HT)					
CPR (Cloudsat)	3 km	0.5 km	50 %	h	h
Cloud ice profile Lower troposphere (LT)					
CPR (Cloudsat)	3 km	0.5 km	50 %	h	h
Cloud ice profile Total column					
CMIS	50 km		5 g/m2	12 h	2 h
Cloud water profile (< 100 µm) Higher troposphere (HT)					
CPR (Cloudsat)	3 km	0.5 km	25 %	h	h
Cloud water profile (< 100 µm) Lower troposphere (LT)					
ACE-FTS	km	km	%	h	h
AMSR-E	km	km	%	h	h
AMSU-B	km	km	%	h	h
APS	km	km	%	h	h
ATLID	km	km	%	h	h
CPR	km	km	%	h	h
CPR (Cloudsat)	3 km	0.5 km	25 %	h	h
GIFTS	km	km	%	h	h
HSB	km	km	%	h	h
IIR	km	km	%	h	h
IKFS-2	km	km	%	h	h
IVISSR (FY-2)	km	km	%	h	h
MAESTRO	km	km	%	h	h
MERIS	km	km	%	h	h
MHS	km	km	%	h	h
MR-2000M1	km	km	%	h	h
MTVZA	km	km	%	h	h
RM-08	km	km	%	h	h
Cloud water profile (> 100 µm) Higher troposphere (HT)					
CPR (Cloudsat)	3 km	0.5 km	25 %	h	h
Cloud water profile (> 100 µm) Lower troposphere (LT)					
CPR (Cloudsat)	3 km	0.5 km	25 %	h	h
TMI	21 km	2.5 km	%	24 h	24 h

Parameter	Hor Res	Vert Res	Accuracy	Observing Cycle	Delay of availability
Instrument					
Cloud water profile (> 100 µm) Total column					
ATMS	50 km		30 kg/m2	12 h	2 h
CPR (Cloudsat)	km		kg/m2	h	h
MHS	30 km		10 kg/m2	12 h	3 h
Ozone profile Higher stratosphere & mesosphere (HS & M)					
GOMOS	300 km	1 km	%	36 h	3 h
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS	km	km	%	h	h
ILAS-II	300 km	1 km	%	h	h
MIPAS	300 km	3 km	%	36 h	3 h
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
OSIRIS	km	km	5 %	h	h
SAGE III	100 km	1 km	6 %	48 h	24 h
SBUV/2	200 km	8 km	5 %	24 h	3 h
SBUV/3	200 km	8 km	10 %	24 h	3 h
SCIAMACHY	500 km	3 km	%	36 h	3 h
SOFIS	300 km	1 km	%	h	h
SOPRANO	50000 km	2 km	%	3 h	h
Specific humidity profile Higher stratosphere & mesosphere (HS & M)					
AIRS	50 km	2 km	30 %	12 h	24 h
GOMOS	300 km	1 km	%	36 h	3 h
HiRDLS	400 km	1 km	%	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
MIPAS	300 km	3 km	%	36 h	3 h
MLS (EOS-Aura)	200 km	2 km	10 %	12 h	h
SAGE III	100 km	1 km	%	48 h	24 h
SMR	500 km	2 km	20 %	h	h
SOFIS	300 km	1 km	%	h	h
SOPRANO	50000 km	4 km	%	3 h	h
Trace gas profile BrO Higher stratosphere & mesosphere (HS & M)					
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
OSIRIS	km	km	20 %	h	h
Trace gas profile BrO Higher troposphere (HT)					
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
Trace gas profile BrO Lower stratosphere (LS)					
MASTER	1000000 km	4 km	%	3 h	h
MIPAS	300 km	3 km	%	36 h	h

Parameter	Hor Res	Vert Res	Accuracy	Observing Cycle	Delay of availability
Instrument					
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
OSIRIS	km	km	20 %	h	h
SAGE III	100 km	1 km	20 %	48 h	h
SCIAMACHY	500 km	3 km	%	36 h	3 h
SOPRANO	50000 km	4 km	%	3 h	h
Trace gas profile BrO Lower troposphere (LT)					
SAGE I	km	km	%	h	h
SAGE II	km	km	%	h	h
Trace gas profile CFC 11 Higher stratosphere & mesosphere (HS & M)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS	km	km	%	h	h
ILAS-II	300 km	1 km	%	h	h
SOFIS	300 km	1 km	%	h	h
Trace gas profile CFC 11 Higher troposphere (HT)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
MIPAS	300 km	3 km	%	36 h	h
SOFIS	300 km	1 km	%	h	h
Trace gas profile CFC 11 Lower stratosphere (LS)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
MIPAS	300 km	3 km	%	36 h	h
SOFIS	300 km	1 km	%	h	h
Trace gas profile CFC 12 Higher stratosphere & mesosphere (HS & M)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
Trace gas profile CFC 12 Higher troposphere (HT)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
SOFIS	300 km	1 km	%	h	h
Trace gas profile CFC 12 Lower stratosphere (LS)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
MIPAS	300 km	3 km	%	36 h	h
SOFIS	300 km	1 km	%	h	h
Trace gas profile CH4 Higher stratosphere & mesosphere (HS & M)					

Parameter	Hor Res	Vert Res	Accuracy	Observing Cycle	Delay of availability
Instrument					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS	km	km	%	h	h
ILAS-II	300 km	1 km	%	h	h
MIPAS	300 km	3 km	%	36 h	3 h
SOFIS	300 km	1 km	%	h	h
TES	169 km	6 km	%	96 h	24 h
Trace gas profile ClO Higher stratosphere & mesosphere (HS & M)					
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
SMR	500 km	2 km	20 %	h	h
Trace gas profile ClO Higher troposphere (HT)					
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
Trace gas profile ClO Lower stratosphere (LS)					
MASTER	1000000 km	4 km	%	3 h	h
MIPAS	300 km	3 km	%	36 h	h
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
SAGE III	100 km	1 km	20 %	48 h	h
SCIAMACHY	500 km	3 km	%	36 h	3 h
SMR	500 km	2 km	20 %	h	h
SOPRANO	50000 km	4 km	%	3 h	h
Trace gas profile ClONO2 Higher stratosphere & mesosphere (HS & M)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
SOFIS	300 km	1 km	%	h	h
Trace gas profile ClONO2 Higher troposphere (HT)					
ILAS-II	300 km	1 km	%	h	h
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
SOFIS	300 km	1 km	%	h	h
Trace gas profile ClONO2 Lower stratosphere (LS)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
MASTER	1000000 km	4 km	%	3 h	h
MIPAS	300 km	3 km	%	36 h	h
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
SAGE III	100 km	1 km	20 %	48 h	h
SCIAMACHY	500 km	3 km	%	36 h	3 h
SOFIS	300 km	1 km	%	h	h

Parameter	Hor Res	Vert Res	Accuracy	Observing Cycle	Delay of availability
Instrument					
SOPRANO	50000 km	4 km	%	3 h	h
Trace gas profile HCl Higher stratosphere & mesosphere (HS & M)					
SOPRANO	50000 km	2 km	%	3 h	h
Trace gas profile HCl Higher troposphere (HT)					
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
Trace gas profile HCl Lower stratosphere (LS)					
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
SOPRANO	50000 km	2 km	%	3 h	h
Trace gas profile HNO3 Higher stratosphere & mesosphere (HS & M)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS	km	km	%	h	h
ILAS-II	300 km	1 km	%	h	h
MIPAS	300 km	3 km	%	36 h	3 h
SOFIS	300 km	1 km	%	h	h
Trace gas profile HNO3 Higher troposphere (HT)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
MIPAS	300 km	3 km	%	36 h	3 h
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
SOFIS	300 km	1 km	%	h	h
TES	169 km	3 km	%	96 h	24 h
Trace gas profile HNO3 Lower stratosphere (LS)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
MASTER	50000 km	2.5 km	%	3 h	h
MIPAS	300 km	3 km	%	36 h	3 h
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
SMR	500 km	2 km	20 %	h	h
SOFIS	300 km	1 km	%	h	h
TES	169 km	3 km	%	96 h	24 h
Trace gas profile HNO3 Lower troposphere (LT)					
TES	169 km	3 km	%	96 h	24 h
Trace gas profile N2O Higher stratosphere & mesosphere (HS & M)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS	km	km	%	h	h
ILAS-II	300 km	1 km	%	h	h

Parameter	Hor Res	Vert Res	Accuracy	Observing Cycle	Delay of availability
Instrument					
MIPAS	300 km	3 km	%	36 h	3 h
SOFIS	300 km	1 km	%	h	h
SOPRANO	50000 km	2 km	%	3 h	h
Trace gas profile N2O Higher troposphere (HT)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
MIPAS	300 km	3 km	%	36 h	3 h
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
SOFIS	300 km	1 km	%	h	h
TES	169 km	6 km	%	96 h	24 h
Trace gas profile N2O Lower stratosphere (LS)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
MIPAS	300 km	3 km	%	36 h	3 h
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	24 h
SMR	500 km	2 km	20 %	h	h
SOFIS	300 km	1 km	%	h	h
SOPRANO	50000 km	2 km	%	3 h	h
TES	169 km	6 km	%	96 h	24 h
Trace gas profile NO Higher stratosphere & mesosphere (HS & M)					
MIPAS	300 km	3 km	%	36 h	h
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	h
SOPRANO	50000 km	2 km	%	3 h	h
Trace gas profile NO Higher troposphere (HT)					
TES	169 km	3 km	%	96 h	24 h
Trace gas profile NO Lower stratosphere (LS)					
MIPAS	300 km	3 km	%	36 h	h
MLS (EOS-Aura)	200 km	2 km	5 %	12 h	h
SOPRANO	50000 km	4 km	%	3 h	h
TES	169 km	3 km	%	96 h	24 h
Trace gas profile NO Lower troposphere (LT)					
TES	169 km	3 km	%	96 h	24 h
Trace gas profile NO2 Higher stratosphere & mesosphere (HS & M)					
GOMOS	300 km	1 km	%	36 h	3 h
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h

Parameter	Hor Res	Vert Res	Accuracy	Observing Cycle	Delay of availability
Instrument					
MIPAS	300 km	3 km	%	36 h	h
OSIRIS	km	km	15 %	h	h
SAGE III	100 km	1 km	10 %	48 h	720 h
SOFIS	300 km	1 km	%	h	h
TES	169 km	3 km	%	96 h	24 h
Trace gas profile NO2 Higher troposphere (HT)					
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
MASTER	50000 km	2.5 km	%	3 h	h
SAGE III	100 km	1 km	10 %	48 h	720 h
SOFIS	300 km	1 km	%	h	h
TES	169 km	3 km	%	96 h	24 h
Trace gas profile NO2 Lower stratosphere (LS)					
GOMOS	300 km	1 km	%	36 h	3 h
HiRDLS	400 km	1 km	10 %	12 h	24 h
ILAS-II	300 km	1 km	%	h	h
MASTER	50000 km	2.5 km	%	3 h	h
MIPAS	300 km	3 km	%	36 h	h
OSIRIS	km	km	15 %	h	h
SAGE III	100 km	1 km	10 %	48 h	720 h
SOFIS	300 km	1 km	%	h	h
Trace gas profile NO2 Lower troposphere (LT)					
SAGE I	km	km	%	h	h
SAGE II	km	km	%	h	h
TES	169 km	3 km	%	96 h	24 h
Trace gas profile NO2 Total column					
GOME	320 km		20 %	72 h	336 h
SCIAMACHY	320 km		%	36 h	h

APPENDIX C

WMO OBSERVATIONAL DATA REQUIREMENTS

WMO 2004 rqmts Max/Min

30-Jun-04

Requirement	Application										Confidence	Remarks	Associate Ident	Source	
	Hor		Vert		Obs		Delay		Accuracy						
	Res	Min	Res	Min	Cycle	Min	avail	Min	Min	Min					
Atmospheric temperature profile - Lower troposphere (LT)	50 km	100 km	0.15 km	0.6 km	1 h	3 h	1 h	2 h	2 K	5 K	Firm		WMO_AeM_005	23/6/2000, ETODRRGO S-3	
Cloud drop size (at cloud top)	50 km	100 km			1 h	3 h	1 h	2 h	15 µm	30 µm	Firm	gnd - Fl 260	WMO_AeM_010	23/6/2000, ETODRRGO S-3	
Cloud ice profile - Higher troposphere (HT)	50 km	100 km	0.15 km	0.6 km	1 h	3 h	1 h	2 h	10 %	25 %	Firm		WMO_AeM_008	23/6/2000, ETODRRGO S-3	
Cloud ice profile - Lower troposphere (LT)	50 km	100 km	0.15 km	0.6 km	1 h	3 h	1 h	2 h	10 %	25 %	Firm		WMO_AeM_009	23/6/2000, ETODRRGO S-3	
Cloud water profile (< 100 µm) - Lower troposphere 23/6/2000, (LT)		50 km	100 km	0.15 km	0.6 km	1 h	3 h	1 h	2 h	10 %	25 %		Firm		WMO_AeM_006 ETODRRGO S-3
Cloud water profile (> 100 µm) - Lower troposphere 23/6/2000, (LT)		50 km	100 km	0.15 km	0.6 km	1 h	3 h	1 h	2 h	10 %	25 %		Firm		WMO_AeM_007 ETODRRGO S-3
Specific humidity profile - Lower troposphere (LT)	50 km	100 km	0.15 km	0.6 km	1 h	3 h	1 h	2 h	5 %	10 %	Firm		WMO_AeM_004	23/6/2000, ETODRRGO S-3	
Wind profile (horizontal component) - Higher troposphere (HT)	50 km	100 km	0.15 km	0.6 km	0.0833	0.167 h	1 h	3 h	2 m/s	5 m/s	Firm	Near steep topography or jet streams min requirements for vertical gradient information 5m/s1000ft	WMO_AeM_001	23/6/2000, ETODRRGO S-3	
Wind profile (horizontal component) - Lower stratosphere (LS)	50 km	100 km	0.15 km	0.6 km	0.0833	0.167 h	1 h	3 h	2 m/s	5 m/s	Firm	Near steep topography or jet streams min requirements for vertical gradient information 5m/s1000ft	WMO_AeM_002	23/6/2000, ETODRRGO S-3	
Wind profile (horizontal component) - Lower troposphere (LT)	50 km	100 km	0.15 km	0.6 km	0.0833	0.167 h	1 h	3 h	2 m/s	5 m/s	Firm	Near steep topography or jet streams min requirements for vertical gradient information 5m/s1000ft	WMO_AeM_003	23/6/2000, ETODRRGO S-3	

Agricultural Meteorology

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Fire area	0.01 km	10 km			0.25 d	1 d	0.0416	0.25 d	5 % (Max)	20 % (Max)	Reasonable	Saturation lvl not reached before fire detected	WMO_S_059A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Fire temperature	0.01 km	10 km			0.25 d	1 d	0.0416	0.25 d	50 K	200 K	Reasonable	Saturation lvl not reached before fire detected	WMO_S_059C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Land cover	100 m	1000 m			1 y	2 y	10 d	30 d	10 classes	4 classes	Reasonable	Land utilization map composition	WMO_Sfc_N003A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Land surface temperature	0.1 km	10 km			1 h	72 h	3 h	24 h	0.3 K	2 K	Reasonable	Detection of areas affected by frost; drought eval	WMO_Sfc_008D	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Leaf Area Index (LAI)	0.01 km	10 km			5 d	7 d	1 d	5 d	5 % (Max)	10 % (Max)	Reasonable	Evapotranspiration estimation; crop productivity	WMO_Sfc_N004A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Normalized Differential Vegetation Index (NDVI)	1 km	10 km			1 d	7 d	1 d	5 d	5 % (Max)	10 % (Max)	Reasonable	Event detection; crop state estimation	WMO_S_254D	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Photosynthetically Active Radiation (PAR)	5 km	100 km			0.0416	7 d	1 d	5 d	5 % (Max)	20 % (Max)	Reasonable	Photosynthesis estimation; crop productivity eval	WMO_Sfc_N061	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Precipitation index (daily cumulative)	10 km	50 km			24 h	72 h	24 h	48 h	2 mm/d	10 mm/d	Reasonable	Evaluation of soil moisture and avail to plants	WMO_Sfc_017B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Snow cover	1 km	10 km			120 h	168 h	24 h	144 h	2 % (Max)	10 % (Max)	Reasonable	Evaluation of crop wintering	WMO_Sfc_023C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Confidence	Remarks	Associate Ident	Source	
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min					
Snow water equivalent	1 km	10 km			168 h	720 h	24 h	168 h	5 mm	500 mm	Reasonable	Evaluation of soil water storage in spring	WMO_Sfc_027C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Soil moisture	0.1 km	1 km			1 d	7 d	1 d	5 d	10 g/kg	50 g/kg	Reasonable	Crop state and productivity estimation	WMO_Sfc_012F	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Soil type	0.1 km	10 km			1 y	2 y	10 d	30 d	15 classes	5 classes	Reasonable	Crop state estimation, soil moisture evaluation	WMO_Sfc_N060	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Vegetation type	50 m	500 m			30 d	60 d	1 d	7 d	30 classes	5 classes	Reasonable	Land utilization map composition; crop eval	WMO_Sfc_N058 A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Atmospheric chemistry															
Aerosol profile - Higher stratosphere & mesosphere WMO_GAW_03 (HS & M)	50 km	500 km	1 km	1 km	10 km	6 h	24 h	12 h	168 h	10 %	20 %	Firm	Ozone climatology	Ozone 8A	chem, Rad WMO TD No. 1052, SAT-26
Aerosol profile - Higher troposphere (HT)	50 km	500 km	1 km	5 km	6 h	24 h	12 h	168 h	10 %	20 %	Firm	Ozone chem, Rad climatology	WMO_GAW_03 2E	24/5/2002, WMO TD No. 1052, SAT-26	
Aerosol profile - Lower stratosphere (LS)	50 km	500 km	1 km	5 km	6 h	24 h	12 h	168 h	10 %	20 %	Firm	Ozone chem, Rad climatology	WMO_GAW_03 2G	24/5/2002, WMO TD No. 1052, SAT-26	
Aerosol profile - Lower troposphere (LT)	50 km	500 km	1 km	5 km	6 h	24 h	12 h	168 h	5 %	20 %	Firm	Ozone chem, Rad climatology	WMO_GAW_02 3B	24/5/2002, WMO TD No. 1052, SAT-26	
Cloud imagery	100 km	200 km			3 h	12 h	72 h	72 h			Firm	Rad climatology	WMO_GAW_02	24/5/2002, WMO TD No. 1052, SAT-26	
Ozone profile - Higher stratosphere & mesosphere WMO_GAW_04 (HS & M) TD No.	50 km	500 km	1 km	5 km	3 h	48 h	72 h	168 h	5 %	25 %	Firm	effects/clim, Ozone chem	Strat	chem/clim, Rad WMO TD No. 1052, SAT-26	

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Ozone profile - Higher troposphere (HT)	50 km	500 km	1 km	5 km	3 h	168 h	72 h	168 h	3 %	20 %	Firm	Trop chem/clim, Rad effects/clim, Ozone chem	WMO_GAW_04	24/5/2002, WMO TD No. 1052, SAT-26
Ozone profile - Lower stratosphere (LS)	50 km	500 km	1 km	5 km	3 h	168 h	72 h	168 h	3 %	20 %	Firm	Oxid cap, Rad effects/clim, Strat climat, O3 chem	WMO_GAW_04	24/5/2002, 5L WMO 1052, SAT-26
Ozone profile - Lower troposphere (LT)	50 km	500 km	1 km	5 km	3 h	168 h	72 h	168 h	3 %	20 %	Firm	Trop chem/clim, Rad effects/clim, Oxid cap	WMO_GAW_00	24/5/2002, WMO TD No. 1052, SAT-26
Ozone profile - Total column	25 km	100 km			6 h	48 h	3 h	168 h	6 DU	20 DU	Firm	UVB pred/anal, Dynamics	WMO_GAW_01	24/5/2002, WMO TD No. 1052, SAT-26
Specific humidity profile - Higher stratosphere & mesosphere (HS & M)	50 km	500 km	1 km	5 km	12 h	72 h	72 h	168 h	5 %	20 %	Firm	Atmos dynamics, Rad clim, Ozone chem, 5% RH	WMO_GAW_04 2E	24/5/2002, WMO TD No. 1052, SAT-26
Specific humidity profile - Higher troposphere (HT)	50 km	500 km	1 km	5 km	12 h	72 h	72 h	168 h	5 %	20 %	Firm	Oxid cap, Atm dyncs, Rad climat, Ozone chem, 5% RH	WMO_GAW_04	24/5/2002, 5K WMO 1052, SAT-26
Specific humidity profile - Lower stratosphere (LS)	50 km	500 km	1 km	5 km	12 h	72 h	72 h	168 h	5 %	20 %	Firm	Oxid cap, Atm dyncs, Rad climat, Ozone chem, 5% RH	WMO_GAW_04	24/5/2002, 5M WMO 1052, SAT-26
Specific humidity profile - Lower troposphere (LT)	50 km	500 km	1 km	5 km	6 h	72 h	72 h	168 h	5 %	20 %	Firm	Oxid cap, Atm dyncs, Rad clim, Ozone chem, 10% RH	WMO_GAW_01 4F	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile BrO - Higher stratosphere & mesosphere (HS & M)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Ozone chem	WMO_GAW_03 6C	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile BrO - Higher troposphere (HT)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Ozone chem	WMO_GAW_04 6C	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile BrO - Lower stratosphere (LS)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Ozone chem	WMO_GAW_04 6G	24/5/2002, WMO TD No. 1052, SAT-26

Requirement	Application										Confidence	Remarks	Associate Ident	Source	
	Hor		Vert		Obs	Delay		Accuracy							
	Res	Min	Res	Min	Cycle	Min	avail	Min	Min	Min					
Trace gas profile BrO - Lower troposphere (LT)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Ozone chem	WMO_GAW_04	24/5/2002, WMO TD No. 1052, SAT-26	
Trace gas profile CFC 11 - Higher stratosphere & mesosphere (HS & M)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Rad climatology, Atmos dynamics	WMO_GAW_03 9A	24/5/2002, WMO TD No. 1052, SAT-26	
Trace gas profile CFC 11 - Higher troposphere (HT) 24/5/2002,		100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Rad climatology	2A	WMO TD No. 1052, SAT-26
Trace gas profile CFC 11 - Lower stratosphere (LS) 24/5/2002,		100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Atmos dynamics	2C	WMO TD No. 1052, SAT-26
Trace gas profile CFC 11 - Lower troposphere (LT) 24/5/2002,		100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Rad climatology	7A	WMO TD No. 1052, SAT-26
Trace gas profile CFC 12 - Higher stratosphere & mesosphere (HS & M)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Rad climatology, Atmos dynamics	WMO_GAW_03 9B	24/5/2002, WMO TD No. 1052, SAT-26	
Trace gas profile CFC 12 - Higher troposphere (HT) 24/5/2002,		100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Rad climatology	2B	WMO TD No. 1052, SAT-26
Trace gas profile CFC 12 - Lower stratosphere (LS) 24/5/2002,		100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Atmos dynamics	2D	WMO TD No. 1052, SAT-26
Trace gas profile CFC 12 - Lower troposphere (LT) 24/5/2002,		100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Rad climatology	7B	WMO TD No. 1052, SAT-26
Trace gas profile CH4 - Higher stratosphere & mesosphere (HS & M)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	2 %	10 %	Firm	Ozone chem	WMO_GAW_03	24/5/2002, WMO TD No. 1052, SAT-26	
Trace gas profile CH4 - Higher troposphere (HT)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	2 %	10 %	Firm	Oxidizing cap, Atm dyncs, O3 chem, Rad clim	WMO_GAW_04	24/5/2002, WMO TD No. 1052, SAT-26	

Requirement	Application										Confidence	Remarks	Associate Ident	Source	
	Hor		Vert		Obs	Delay		Accuracy							
	Res	Min	Res	Min	Cycle	Min	avail	Min	2 %	Min					10 %
Trace gas profile CH4 - Lower stratosphere (LS)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	2 %	10 %	Firm	Oxidizing cap, Atm dyncs, O3 chem, Rad clim	WMO_GAW_04 5E	24/5/2002, WMO TD No. 1052, SAT-26	
Trace gas profile CH4 - Lower troposphere (LT)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	2 %	10 %	Firm	C budget, bdry	WMO_GAW_01	24/5/2002, WMO TD No. 1052, SAT-26	
Trace gas profile ClO - Higher stratosphere & mesosphere (HS & M)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Ozone chem	WMO_GAW_03 6B	24/5/2002, WMO TD No. 1052, SAT-26	
Trace gas profile ClO - Higher troposphere (HT)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Ozone chem	WMO_GAW_04 6D	24/5/2002, WMO TD No. 1052, SAT-26	
Trace gas profile ClO - Lower stratosphere (LS)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Ozone chem	WMO_GAW_04 6F	24/5/2002, WMO TD No. 1052, SAT-26	
Trace gas profile ClO - Lower troposphere (LT)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Ozone chem	WMO_GAW_04 7C	24/5/2002, WMO TD No. 1052, SAT-26	
Trace gas profile ClONO2 - Higher stratosphere & mesosphere (HS & M)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Ozone chem	WMO_GAW_03 6D	24/5/2002, WMO TD No. 1052, SAT-26	
Trace gas profile ClONO2 - Higher troposphere (HT) 24/5/2002,		100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Ozone chem	WMO_GAW_04 6E	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile ClONO2 - Lower stratosphere (LS) 24/5/2002,		100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Ozone chem	WMO_GAW_04 6H	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile CO - Higher troposphere (HT)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Oxidizing cap	WMO_GAW_04 5A	24/5/2002, WMO TD No. 1052, SAT-26	
Trace gas profile CO - Lower stratosphere (LS)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Oxidizing cap	WMO_GAW_04 5F	24/5/2002, WMO TD No. 1052, SAT-26	

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Trace gas profile CO - Lower troposphere (LT)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Oxidizing cap	WMO_GAW_01 4A	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile CO2 - Lower troposphere (LT)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	2 %	5 %	Firm	C budget, bdry	WMO_GAW_01 5A	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile COS - Higher troposphere (HT)	100 km	500 km	1 km	3 km	12 h	72 h	24 h	168 h	15 %	25 %	Firm	Strato aerosols	WMO_GAW_04	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile COS - Lower stratosphere (LS)	100 km	500 km	1 km	3 km	12 h	72 h	24 h	168 h	15 %	25 %	Firm	Strato aerosols	WMO_GAW_04 7K	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile COS - Lower troposphere (LT)	100 km	500 km	1 km	3 km	12 h	72 h	24 h	168 h	15 %	25 %	Firm	Strato aerosols	WMO_GAW_04	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile HCHO - Total column	50 km	500 km			24 h	48 h	72 h	168 h	5 %	15 %	Firm	Ozone precursor	WMO_GAW_04 7H	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile HCl - Higher stratosphere & mesosphere (HS & M)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	2 %	5 %	Firm	Ozone chem	WMO_GAW_03 7A	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile HCl - Higher troposphere (HT)	100 km	500 km	1 km	1.5 km	6 h	24 h	72 h	168 h	2 %	5 %	Firm	Ozone chem	WMO_GAW_03 0E	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile HCl - Lower stratosphere (LS)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	2 %	5 %	Firm	Ozone chem	WMO_GAW_03 0C	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile HNO3 - Higher stratosphere & mesosphere (HS & M)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Atmos dynamics, Ozone chem	WMO_GAW_04 2B	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile HNO3 - Higher troposphere (HT)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Oxidizing cap, Ozone chem, Atm dyncs	WMO_GAW_04 5D	24/5/2002, WMO TD No. 1052, SAT-26

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor		Vert		Obs	Delay		Accuracy						
	Res	Min	Res	Min	Cycle	Min	avail	Min	%	Min				
Trace gas profile HNO3 - Lower stratosphere (LS)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Oxidizing cap, Ozone chem, Atm dyns	WMO_GAW_04	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile HNO3 - Lower troposphere (LT)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Oxidizing cap, Ozone chem, Atm dyns	WMO_GAW_01 4D	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile N2O - Higher stratosphere & mesosphere (HS & M)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	2 %	20 %	Firm	Atmos dynamics, Rad clim, Ozone chem	WMO_GAW_04 2C	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile N2O - Higher troposphere (HT)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	2 %	20 %	Firm	Rad climatology, Atm dyns, Ozone chem	WMO_GAW_03	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile N2O - Lower stratosphere (LS)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	2 %	20 %	Firm	Rad climatology, Atm dyns, Ozone chem	WMO_GAW_03 4A	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile N2O - Lower troposphere (LT)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	2 %	20 %	Firm	Rad climatology, Atm dyns, Ozone chem	WMO_GAW_04 7D	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile NO - Higher stratosphere & mesosphere (HS & M)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Ozone chem	WMO_GAW_03	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile NO - Higher troposphere (HT)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Oxidizing cap, Ozone chem	WMO_GAW_04 5B	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile NO - Lower stratosphere (LS)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Oxidizing cap, Ozone chem	WMO_GAW_04 5G	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile NO - Lower troposphere (LT)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Oxidizing cap, Ozone chem	WMO_GAW_01 4B	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile NO2 - Higher stratosphere & mesosphere (HS & M)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Ozone chem	WMO_GAW_03 6A	24/5/2002, WMO TD No. 1052, SAT-26

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Trace gas profile NO2 - Higher troposphere (HT)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Oxidizing cap, Ozone chem	WMO_GAW_04 5C	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile NO2 - Lower stratosphere (LS)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Oxidizing cap, Ozone chem	WMO_GAW_04 5H	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile NO2 - Lower troposphere (LT)	50 km	500 km	1 km	4 km	6 h	24 h	72 h	168 h	5 %	10 %	Firm	Oxidizing cap, Ozone chem	WMO_GAW_01 4C	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile NO2 - Total column	50 km	500 km			24 h	48 h	72 h	168 h	5 %	15 %	Firm	Atmospheric chemistry	WMO_GAW_01 4G	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile OH - Higher stratosphere & mesosphere (HS & M)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	30 %	Firm	Ozone chem	WMO_GAW_04	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile OH - Higher troposphere (HT)	100 km	500 km	1 km	1.5 km	6 h	24 h	72 h	168 h	5 %	30 %	Firm	Ozone chem	WMO_GAW_02	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile OH - Lower stratosphere (LS)	100 km	500 km	1 km	3 km	6 h	24 h	72 h	168 h	5 %	30 %	Firm	Ozone chem	WMO_GAW_02 9A	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile OH - Lower troposphere (LT)	100 km	500 km	1 km	1.5 km	6 h	24 h	72 h	168 h	5 %	30 %	Firm	Ozone chem	WMO_GAW_01	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile SO2 - Higher troposphere (HT)	100 km	500 km	1 km	3 km	12 h	72 h	24 h	168 h	10 %	20 %	Firm	Volcanic eruptions	WMO_GAW_04 7F	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile SO2 - Lower stratosphere (LS)	100 km	500 km	1 km	3 km	12 h	72 h	24 h	168 h	10 %	20 %	Firm	Volcanic eruptions	WMO_GAW_04 7G	24/5/2002, WMO TD No. 1052, SAT-26
Trace gas profile SO2 - Lower troposphere (LT)	100 km	500 km	1 km	3 km	12 h	72 h	24 h	168 h	10 %	20 %	Firm	Volcanic eruptions	WMO_GAW_04 7E	24/5/2002, WMO TD No. 1052, SAT-26

Global NWP

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor		Vert		Obs Cycle	Delay		Accuracy						
	Res	Min	Res	Min		Min	avail	Min	Min					
Aerosol profile - Higher troposphere (HT)	50 km	500 km	1 km	5 km	6 h	168 h	12 h	168 h	10 %	20 %	Tentative	WMO-UA_017A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Aerosol profile - Lower stratosphere (LS)	50 km	500 km	1 km	10 km	6 h	168 h	12 h	168 h	10 %	20 %	Tentative	WMO-UA_017J	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Aerosol profile - Lower troposphere (LT)	50 km	500 km	0.1 km	1 km	1 h	168 h	1 h	168 h	10 %	20 %	Tentative	WMO-UA_017	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Aerosol profile - Total column	50 km	500 km			1 h	168 h	1 h	168 h	10 %	20 %	Tentative	WMO-UA_017F	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Air pressure over land surface	50 km	250 km			1 h	12 h	1 h	4 h	0.5 hPa	2 hPa	Firm	WMO_Sfc_004	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Air pressure over sea surface	50 km	250 km			1 h	12 h	1 h	4 h	0.5 hPa	2 hPa	Firm	WMO_Sfc_004B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Air specific humidity (at surface)	50 km	250 km			1 h	12 h	1 h	4 h	5 %	15 %	Reasonable	WMO_Sfc_N011	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Air temperature (at surface)	50 km	250 km			1 h	12 h	1 h	4 h	0.5 K	2 K	Reasonable	WMO_Sfc_008E	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Atmospheric temperature profile - Higher stratosphere & mesosphere (HS & M)	50 km	500 km	1 km	3 km	1 h	12 h	1 h	4 h	0.5 K	5 K	Reasonable	WMO-UA_003B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
	50 km	500 km	1 km	3 km	1 h	12 h	1 h	4 h	0.5 K	3 K				
Atmospheric temperature profile - Higher troposphere (HT)	50 km	500 km	1 km	3 km	1 h	12 h	1 h	4 h	0.5 K	3 K	Firm		WMO-UA_003A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Atmospheric temperature profile - Lower stratosphere (LS)	50 km	500 km	1 km	3 km	1 h	12 h	1 h	4 h	0.5 K	3 K	Firm		WMO-UA_003R	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Atmospheric temperature profile - Lower troposphere (LT)	50 km	500 km	0.3 km	3 km	1 h	12 h	1 h	4 h	0.5 K	3 K	Firm		WMO-UA_003	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud base height	50 km	250 km			1 h	12 h	1 h	4 h	0.5 km	1 km	Tentative		WMO-UA_N001	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud cover	50 km	250 km			1 h	12 h	1 h	4 h	5 % (Max)	20 % (Max)	Reasonable		WMO-UA_N023	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud drop size (at cloud top)	50 km	250 km			1 h	12 h	1 h	4 h	0.5 µm	2 µm	Speculative		WMO_Sfc_N022	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud ice profile - Higher troposphere (HT)	50 km	250 km	1 km	10 km	1 h	12 h	1 h	4 h	5 %	20 %	Tentative		WMO-UA_N016A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud ice profile - Lower troposphere (LT)	50 km	250 km	0.3 km	5 km	1 h	12 h	1 h	4 h	5 %	20 %	Tentative		WMO-UA_N015	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud ice profile - Total column	50 km	250 km			1 h	12 h	1 h	4 h	10 g/m2	20 g/m2	Tentative		WMO-UA_N018	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Cloud imagery	1 km	50 km			0.5 h	6 h	1 h	4 h				Firm	WMO_S_218	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud top height	50 km	250 km			1 h	12 h	1 h	4 h	0.5 km	1 km		Firm	WMO_UA_009	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud water profile (< 100 µm) - Higher troposphere 20/10/2003, (HT)		50 km	250 km	1 km	10 km	1 h	12 h	1 h	4 h	5 %	20 %		Tentative	WMO_UA_N013 ET ODRRGOS, Geneva, Nov 2003
Cloud water profile (< 100 µm) - Lower troposphere 20/10/2003, (LT)		50 km	250 km	0.3 km	5 km	1 h	12 h	1 h	4 h	5 %	20 %		Tentative	WMO_UA_N012 ET ODRRGOS, Geneva, Nov 2003
Cloud water profile (< 100 µm) - Total column	50 km	250 km			1 h	4 h	1 h	4 h	10 kg/m2	50 kg/m2		Tentative	WMO_UA_007B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud water profile (> 100 µm) - Higher troposphere 20/10/2003, (HT)		50 km	250 km	1 km	10 km	1 h	12 h	1 h	4 h	5 %	20 %		Tentative	WMO_UA_N013 B ET ODRRGOS, Geneva, Nov 2003
Cloud water profile (> 100 µm) - Lower troposphere 20/10/2003, (LT)		50 km	250 km	0.3 km	5 km	1 h	12 h	1 h	4 h	5 %	20 %		Tentative	WMO_UA_N012 A ET ODRRGOS, Geneva, Nov 2003
Cloud water profile (> 100 µm) - Total column	50 km	250 km			1 h	12 h	1 h	2 h	10 kg/m2	50 kg/m2		Tentative	WMO_UA_007	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Dominant wave direction	50 km	250 km			1 h	12 h	1 h	4 h	10 degrees	20 degrees		Firm	WMO_Sfc_018C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min			
Dominant wave period	50 km	250 km			1 h	12 h	1 h	4 h	0.5 s	1 s	Firm	WMO_Sfc_018	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Land surface temperature	50 km	250 km			1 h	12 h	1 h	4 h	0.5 K	4 K	Firm	WMO_Sfc_008A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Leaf Area Index (LAI)	50 km	100 km			7 d	30 d	1 d	7 d	5 % (Max)	20 % (Max)	Tentative	WMO_Sfc_N001	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Long-wave Earth surface emissivity	15 km	250 km			24 h	720 h	24 h	720 h	1 % (Max)	5 % (Max)	Tentative	WMO_Sfc_N020	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Normalized Differential Vegetation Index (NDVI)	50 km	100 km			7 d	30 d	1 d	7 d	1 % (Max)	5 % (Max)	Tentative	WMO_S_254	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Outgoing long-wave radiation at TOA	50 km	250 km			1 h	1 h	240 h	720 h	5 W/m2	10 W/m2	Firm	WMO_UA_016F	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Outgoing short-wave radiation at TOA	50 km	250 km			1 h	6 h	240 h	360 h	5 W/m2	10 W/m2	Firm	WMO_UA_016	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Ozone profile - Higher troposphere (HT)	50 km	500 km	1 km	10 km	1 h	12 h	1 h	4 h	5 %	20 %	Tentative	WMO_UA_014A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Ozone profile - Lower stratosphere (LS)	50 km	500 km	1 km	10 km	1 h	12 h	1 h	4 h	5 %	20 %	Tentative	WMO_UA_014K	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min			
Ozone profile - Lower troposphere (LT)	50 km	500 km	1 km	5 km	1 h	12 h	1 h	4 h	5 %	20 %	Tentative	WMO-UA_014	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Ozone profile - Total column	50 km	100 km			1 h	6 h	1 h	4 h	5 DU	20 DU	Reasonable	WMO-UA_014J	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Precipitation index (daily cumulative)	50 km	250 km			1 h	12 h	24 h	720 h	0.5 mm/d	5 mm/d	Reasonable	WMO_Sfc_017	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Precipitation rate (liquid) at the surface	50 km	100 km			1 h	12 h	1 h	4 h	0.1 mm/h	1 mm/h	Tentative	WMO-UA_N022 A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Precipitation rate (solid) at the surface	50 km	100 km			1 h	12 h	1 h	4 h	0.1 mm/h	1 mm/h	Tentative	WMO-UA_N022	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Sea surface bulk temperature	50 km	250 km			3 h	360 h	3 h	180 h	0.5 K	2 K	Firm	WMO_Sfc_006C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Sea-ice cover	15 km	250 km			1 d	15 d	1 d	7 d	5 % (Max)	50 % (Max)	Firm	WMO_Sfc_019	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Sea-ice surface temperature	15 km	200 km			1 h	12 h	1 h	4 h	0.5 K	4 K	Reasonable	WMO_Sfc_N014	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Sea-ice thickness	15 km	250 km			1 d	7 d	1 d	7 d	50 cm	100 cm	Speculative	WMO_Sfc_021	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Significant wave height	100 km	250 km			1 h	12 h	1 h	4 h	0.5 m	1 m	Firm		WMO_Sfc_N059	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Snow cover	15 km	250 km			12 h	168 h	12 h	24 h	10 % (Max)	50 % (Max)	Reasonable		WMO_Sfc_023	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Snow water equivalent	15 km	250 km			12 h	168 h	6 h	24 h	5 mm	20 mm	Tentative		WMO_Sfc_027	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Soil moisture	15 km	250 km			1 d	7 d	0.25 d	1 d	10 g/kg	50 g/kg	Reasonable		WMO_Sfc_012A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Specific humidity profile - Higher troposphere (HT)	50 km	250 km	1 km	3 km	1 h	12 h	1 h	4 h	5 %	20 %	Firm	Accuracy 5% in RH	WMO_UA_006A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Specific humidity profile - Lower troposphere (LT)	50 km	250 km	0.4 km	2 km	1 h	12 h	1 h	4 h	5 %	20 %	Firm	Accuracy 5% in RH	WMO_UA_006	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Specific humidity profile - Total column	50 km	500 km			1 h	12 h	1 h	4 h	1 kg/m2	5 kg/m2	Firm		WMO_Sfc_N044A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind profile (horizontal component) - Higher troposphere (HT)	50 km	500 km	1 km	10 km	1 h	12 h	1 h	4 h	1 m/s	8 m/s	Firm		WMO_UA_001A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind profile (horizontal component) - Lower stratosphere (LS)	50 km	500 km	1 km	10 km	1 h	12 h	1 h	4 h	1 m/s	5 m/s	Firm		WMO_UA_001O	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application											Confidence	Remarks	Associate Ident	Source
	Hor Res	Vert Res		Obs Cycle	Delay avail		Accuracy								
	Min	Min	Min	Min	Min	Min	Min	Min							
Wind profile (horizontal component) - Lower troposphere (LT)	50 km	500 km	0.4 km	5 km	1 h	12 h	1 h	4 h	1 m/s	5 m/s	Firm		WMO-UA_001	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Wind profile (vertical component) - Higher troposphere (HT)	50 km	500 km	0.5 km	10 km	1 h	12 h	1 h	4 h	1 cm/s	5 cm/s	Speculative		WMO-UA_N020	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Wind profile (vertical component) - Lower stratosphere (LS)	50 km	500 km	0.5 km	10 km	1 h	12 h	1 h	4 h	1 cm/s	5 cm/s	Speculative		WMO-UA_N020A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Wind profile (vertical component) - Lower troposphere (LT)	50 km	500 km	0.5 km	5 km	1 h	12 h	1 h	4 h	1 cm/s	5 cm/s	Speculative		WMO-UA_N019	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Wind speed over land surface (horizontal)	50 km	250 km			1 h	12 h	1 h	4 h	0.5 m/s	3 m/s	Reasonable		WMO_Sfc_010M	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Wind speed over sea surface (horizontal)	50 km	250 km			1 h	12 h	1 h	4 h	0.5 m/s	3 m/s	Firm		WMO_Sfc_010I	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Wind vector over land surface (horizontal)	50 km	250 km			1 h	12 h	1 h	4 h	0.5 m/s	5 m/s	Reasonable		WMO_Sfc_010E	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Wind vector over sea surface (horizontal)	50 km	250 km			1 h	12 h	1 h	4 h	0.5 m/s	5 m/s	Firm		WMO_Sfc_010A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	

Hydrology

Requirement	Application										Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min			
Iceberg fractional cover	1 km	50 km			1 d	12 d	1 d	4 d	10 % (Max)	20 % (Max)	Firm	WMO_S_154	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Iceberg height	1 km	50 km			1 d	12 d	1 d	4 d	1 m	2 m	Firm	WMO_S_154A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Land cover	10 m	250000			0.02 y	1 y	1 d	7 d	50 classes	5 classes	Reasonable	WMO_Sfc_N003	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Land surface imagery	10 m	250000			1 d	365 d	1 d	7 d			Reasonable	WMO_Sfc_N057	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Land surface temperature	0.01 km	250 km			1 h	168 h	24 h	168 h	0.3 K	3 K	Reasonable	WMO_Sfc_008C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Land surface topography	100 m	1000 m			10 y	50 y	30 d	600 d	1 m (vert.)	5 m (vert.)	Reasonable	WMO_Sfc_N005	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Leaf Area Index (LAI)	0.01 km	10 km			7 d	24 d	1 d	5 d	5 % (Max)	20 % (Max)	Reasonable	WMO_Sfc_N004	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Long-wave Earth surface emissivity	0.01 km	250 km			24 h	288 h	24 h	288 h	5 % (Max)	20 % (Max)	Reasonable	WMO_UA_N007	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Normalized Differential Vegetation Index (NDVI)	0.01 km	250 km			1 d	30 d	1 d	7 d	1 % (Max)	20 % (Max)	Reasonable	WMO_S_254C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min			
Outgoing long-wave radiation at TOA	10 km	100 km			1 h	12 h	24 h	168 h	5 W/m2	20 W/m2	Reasonable	WMO-UA_016G	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Outgoing short-wave radiation at TOA	0.1 km	200 km			1 h	6 h	24 h	168 h	5 W/m2	20 W/m2	Reasonable	WMO-UA_016D	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Permafrost	0.1 km	100 km			0.25 d	3 d	0.25 d	6 d	5 % (Max)	25 % (Max)	Reasonable	WMO_Sfc_N052	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Sea level	0.1 km	10 km			1 d	7 d	1 d	7 d	2 cm	10 cm	Reasonable	WMO_S_214	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Snow cover	0.1 km	100 km			24 h	168 h	24 h	144 h	5 % (Max)	20 % (Max)	Reasonable	WMO_Sfc_023D	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Snow melting conditions	0.1 km	10 km			0.5 h	288 h	1 h	144 h	5 classes	2 classes	Reasonable	WMO_Sfc_N008	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Snow water equivalent	0.1 km	10 km			24 h	168 h	24 h	144 h	5 mm	20 mm	Reasonable	WMO_Sfc_027B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Soil moisture	0.01 km	250 km			1 d	3 d	1 d	144 d	10 g/kg	50 g/kg	Reasonable	WMO_Sfc_012E	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Vegetation type	10 m	1000 m			7 d	365 d	1 d	30 d	50 classes	5 classes	Reasonable	WMO_Sfc_N058	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Cloud top temperature	1 km	10 km			0.01 h	0.5 h	0.02 h	0.5 h	0.5 K	2 K	Firm		WMO-UA_011B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud type	1 km	10 km			0.01 h	0.5 h	0.02 h	0.5 h	10 classes	5 classes	Firm		WMO-UA_013B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Fire area	5 km	250 km			0.25 d	12 d	1 d	4 d	5 % (Max)	20 % (Max)	Firm		WMO-S_059	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Fire temperature	5 km	250 km			0.25 d	12 d	1 d	4 d	500 K	1000 K	Firm		WMO-S_059B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Height of the top of the Planetary Boundary Layer	5 km	50 km			0.25 h	1 h	0.08 h	0.5 h	50 m	500 m	Firm		WMO-UA_N005	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Height of tropopause	10 km	200 km			0.5 h	6 h	0.5 h	2 h	0.1 km	1 km	Firm		WMO-UA_N006	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Land surface temperature	1 km	50 km			0.25 h	1 h	0.08 h	0.5 h	0.5 K	3 K	Firm		WMO_Sfc_008	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Normalized Differential Vegetation Index (NDVI)	5 km	10 km			1 d	12 d	1 d	5 d	5 % (Max)	10 % (Max)	Firm		WMO-S_254B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Ocean currents (vector)	10 km	50 km			0.25 d	6 d	0.25 d	4 d	0.5 cm/s	1 cm/s	Firm		WMO-S_165	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Precipitation rate (liquid) at the surface	5 km	50 km			0.08 h	1 h	0.08 h	0.5 h	0.1 mm/h	1 mm/h	Firm		WMO_S_118B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Precipitation rate (solid) at the surface	5 km	50 km			0.25 h	1 h	0.5 h	0.5 h	0.1 mm/h	1 mm/h	Firm		WMO_Sfc_N045A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Sea surface bulk temperature	5 km	50 km			1 h	6 h	1 h	2 h	0.5 K	2 K	Firm		WMO_Sfc_006A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Sea-ice cover	5 km	50 km			1 d	24 d	1 d	6 d	10 % (Max)	20 % (Max)	Firm		WMO_Sfc_019B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Snow cover	5 km	50 km			1 h	144 h	1 h	6 h	10 % (Max)	20 % (Max)	Firm		WMO_Sfc_023B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Soil moisture	5 km	50 km			0.5 d	2 d	0.25 d	1 d	10 g/kg	50 g/kg	Reasonable		WMO_Sfc_012D	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Specific humidity profile - Higher troposphere (HT)	5 km	200 km	1 km	3 km	0.25 h	1 h	0.08 h	0.5 h	5 %	20 %	Firm	Accuracy 10% in RH	WMO_UA_006G	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Specific humidity profile - Lower troposphere (LT)	5 km	200 km	0.5 km	1 km	0.25 h	1 h	0.08 h	0.5 h	5 %	20 %	Firm	Accuracy 5% in RH	WMO_UA_006F	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Specific humidity profile - Total column	5 km	50 km			0.25 h	1 h	0.08 h	0.5 h	1 kg/m2	5 kg/m2	Firm		WMO_Sfc_N044	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Temperature of tropopause	10 km	200 km			0.5 h	6 h	0.5 h	2 h	0.5 K	2 K	Firm		WMO-UA_N006A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind profile (horizontal component) - Higher troposphere (HT)	5 km	200 km	0.5 km	1 km	0.25 h	4 h	0.08 h	0.5 h	1 m/s	8 m/s	Firm		WMO-UA_001J	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind profile (horizontal component) - Lower stratosphere (LS)	5 km	200 km	0.5 km	1 km	0.25 h	6 h	0.25 h	2 h	1 m/s	5 m/s	Firm		WMO-UA_001P	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind profile (horizontal component) - Lower troposphere (LT)	5 km	200 km	0.5 km	1 km	0.25 h	6 h	0.25 h	2 h	1 m/s	5 m/s	Firm		WMO-UA_001I	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind profile (vertical component) - Lower troposphere (LT)	5 km	200 km	0.5 km	2 km	0.25 h	1 h	0.08 h	0.5 h	1 cm/s	5 cm/s	Firm		WMO-UA_N020B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind speed over land surface (horizontal)	5 km	50 km			0.25 h	3 h	0.25 h	1 h	1 m/s	5 m/s	Firm		WMO_Sfc_N007	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind speed over sea surface (horizontal)	5 km	50 km			0.25 h	3 h	0.25 h	1 h	1 m/s	5 m/s	Firm		WMO_Sfc_N007	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind vector over land surface (horizontal)	5 km	50 km			0.25 h	3 h	0.25 h	1 h	1 m/s	5 m/s	Firm		WMO_Sfc_N007A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind vector over sea surface (horizontal)	5 km	50 km			0.25 h	3 h	0.25 h	1 h	1 m/s	5 m/s	Firm		WMO_Sfc_N007	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Air pressure over land surface	10 km	250 km			0.5 h	12 h	0.5 h	2 h	0.5 hPa	1 hPa	Firm		WMO_Sfc_004A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Air pressure over sea surface	10 km	250 km			0.5 h	12 h	0.5 h	2 h	0.5 hPa	1 hPa	Firm		WMO_Sfc_004C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Air specific humidity (at surface)	10 km	250 km			0.5 h	12 h	0.5 h	2 h	5 %	15 %	Reasonable		WMO_Sfc_N031	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Air temperature (at surface)	10 km	250 km			0.5 h	12 h	0.5 h	2 h	0.5 K	2 K	Reasonable		WMO_Sfc_008F	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Atmospheric temperature profile - Higher troposphere (HT)	10 km	500 km	1 km	3 km	0.5 h	12 h	0.5 h	2 h	0.5 K	3 K	Firm		WMO_UA_003D	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Atmospheric temperature profile - Lower stratosphere (LS)	10 km	500 km	1 km	3 km	0.5 h	12 h	0.5 h	2 h	0.5 K	3 K	Firm		WMO_UA_003P	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Atmospheric temperature profile - Lower troposphere (LT)	10 km	500 km	0.3 km	3 km	0.5 h	12 h	0.5 h	2 h	0.5 K	3 K	Firm		WMO_UA_003C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud base height	10 km	250 km			0.5 h	12 h	0.5 h	3 h	0.5 km	1 km	Tentative		WMO_UA_N002	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Confidence	Remarks	Associate Ident	Source	
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min					
Cloud cover	10 km	250 km			0.5 h	12 h	0.5 h	2 h	5 % (Max)	20 % (Max)	Reasonable		WMO-UA_N043	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Cloud drop size (at cloud top)	10 km	250 km			0.5 h	12 h	0.5 h	2 h	0.5 µm	2 µm	Firm		WMO_Sfc_N043	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Cloud ice profile - Higher troposphere (HT)	10 km	250 km	1 km	10 km	0.5 h	12 h	0.5 h	2 h	5 %	20 %	Tentative		WMO-UA_N025	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Cloud ice profile - Lower troposphere (LT)	10 km	250 km	0.3 km	5 km	0.5 h	12 h	0.5 h	2 h	5 %	20 %	Tentative		WMO-UA_N024	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Cloud ice profile - Total column	10 km	250 km			0.5 h	12 h	0.5 h	2 h	10 g/m2	20 g/m2	Tentative		WMO-UA_N027	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Cloud imagery	1 km	50 km			0.25 h	6 h	0.5 h	2 h			Firm		WMO_S_218A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Cloud top height	10 km	250 km			0.5 h	12 h	0.5 h	2 h	0.5 km	1 km	Firm		WMO-UA_009A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Cloud water profile (< 100 µm) - Higher troposphere 20/10/2003, (HT)		10 km	250 km	1 km	10 km	0.5 h	12 h	0.5 h	2 h	5 %	20 %	Tentative		WMO-UA_N046	ET ODRRGOS, Geneva, Nov 2003
Cloud water profile (< 100 µm) - Lower troposphere 20/10/2003, (LT)		10 km	250 km	0.3 km	5 km	0.5 h	12 h	0.5 h	2 h	5 %	20 %	Tentative	ET	WMO-UA_N045	ODRRGOS, Geneva, Nov 2003

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Cloud water profile (< 100 µm) - Total column	10 km	250 km			0.5 h	12 h	0.5 h	2 h	10 kg/m2	50 kg/m2	Tentative		WMO-UA_007C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud water profile (> 100 µm) - Higher troposphere (HT)		10 km	250 km	1 km	10 km	0.5 h	12 h	0.5 h	2 h	5 %	20 %		Tentative	WMO-UA_N046
Cloud water profile (> 100 µm) - Lower troposphere (LT)		10 km	250 km	0.3 km	5 km	0.5 h	12 h	0.5 h	2 h	5 %	20 %		Tentative	WMO-UA_N045
Cloud water profile (> 100 µm) - Total column	10 km	250 km			0.5 h	12 h	0.5 h	4 h	10 kg/m2	50 kg/m2	Tentative		WMO-UA_007A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Dominant wave direction	10 km	50 km			1 h	12 h	0.5 h	2 h	10 degrees	20 degrees	Firm		WMO_Sfc_018D	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Dominant wave period	10 km	50 km			1 h	12 h	0.5 h	2 h	0.5 s	1 s	Firm		WMO_Sfc_018A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Land surface temperature	10 km	250 km			0.5 h	12 h	0.5 h	2 h	0.5 K	4 K	Firm		WMO_Sfc_008B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Leaf Area Index (LAI)	10 km	50 km			7 d	30 d	1 d	7 d	5 % (Max)	20 % (Max)	Tentative		WMO_Sfc_N006	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Long-wave Earth surface emissivity	5 km	250 km			24 h	720 h	24 h	720 h	1 % (Max)	5 % (Max)	Tentative		WMO_Sfc_N041	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Normalized Differential Vegetation Index (NDVI)	10 km	50 km			7 d	30 d	1 d	7 d	1 % (Max)	5 % (Max)	Tentative		WMO_S_254A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Outgoing long-wave radiation at TOA	10 km	250 km			0.5 h	1 h	240 h	720 h	5 W/m2	10 W/m2	Firm		WMO_UA_016J	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Outgoing short-wave radiation at TOA	10 km	250 km			0.5 h	1 h	240 h	360 h	5 W/m2	10 W/m2	Firm		WMO_UA_016C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Ozone profile - Higher troposphere (HT)	10 km	200 km	1 km	10 km	0.5 h	3 h	0.5 h	2 h	5 %	20 %	Tentative		WMO_UA_014E	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Ozone profile - Lower stratosphere (LS)	10 km	200 km	1 km	10 km	0.5 h	3 h	0.5 h	2 h	5 %	20 %	Tentative		WMO_UA_014	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Ozone profile - Lower troposphere (LT)	10 km	200 km	1 km	5 km	0.5 h	3 h	0.5 h	2 h	5 %	20 %	Tentative		WMO_UA_014D	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Ozone profile - Total column	10 km	100 km			0.5 h	6 h	0.5 h	2 h	5 DU	20 DU	Reasonable		WMO_UA_014N	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Precipitation index (daily cumulative)	10 km	250 km			0.5 h	12 h	24 h	720 h	0.5 mm/d	5 mm/d	Reasonable		WMO_Sfc_017A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Precipitation rate (liquid) at the surface	10 km	50 km			0.5 h	6 h	0.5 h	2 h	0.1 mm/h	1 mm/h	Tentative		WMO_UA_N044A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min			
Precipitation rate (solid) at the surface	10 km	100 km			0.5 h	12 h	0.5 h	2 h	0.1 mm/h	1 mm/h	Tentative	WMO-UA_N044	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Sea surface bulk temperature	25 km	50 km			1 h	12 h	1 h	24 h	0.5 K	1 K	Firm	WMO_Sfc_006D	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Sea-ice cover	25 km	50 km			0.5 d	7 d	0.3 d	3 d	5 % (Max)	50 % (Max)	Firm	WMO_Sfc_019A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Sea-ice surface temperature	5 km	100 km			0.5 h	12 h	0.5 h	2 h	0.5 K	4 K	Firm	WMO_Sfc_N034	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Sea-ice thickness	5 km	250 km			1 d	7 d	1 d	7 d	50 cm	100 cm	Speculative	WMO_Sfc_021A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Significant wave height	10 km	50 km			1 h	12 h	1 h	2 h	0.1 m	0.2 m	Firm	WMO_Sfc_N059 A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Snow cover	5 km	250 km			12 h	168 h	6 h	24 h	10 % (Max)	50 % (Max)	Reasonable	WMO_Sfc_023A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Snow water equivalent	5 km	250 km			6 h	288 h	6 h	24 h	5 mm	20 mm	Tentative	WMO_Sfc_027A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Soil moisture	5 km	250 km			1 d	7 d	7 d	7 d	10 g/kg	50 g/kg	Reasonable	WMO_Sfc_012C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
	10 km	100 km	1 km	3 km	0.5 h	12 h	0.5 h	2 h	5 %	20 %				
Specific humidity profile - Higher troposphere (HT)	10 km	100 km	1 km	3 km	0.5 h	12 h	0.5 h	2 h	5 %	20 %	Firm	Accuracy 5% in RH	WMO_UA_006	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Specific humidity profile - Lower troposphere (LT)	10 km	100 km	0.4 km	2 km	0.5 h	12 h	0.5 h	2 h	5 %	20 %	Firm	Accuracy 5% in RH	WMO_UA_006L	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Specific humidity profile - Total column	10 km	250 km			0.5 h	12 h	0.5 h	2 h	1 kg/m2	5 kg/m2	Firm		WMO_Sfc_N044	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind profile (horizontal component) - Higher troposphere (HT)	10 km	500 km	1 km	10 km	0.5 h	12 h	0.5 h	2 h	1 m/s	8 m/s	Firm		WMO_UA_001D	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind profile (horizontal component) - Lower stratosphere (LS)	10 km	500 km	1 km	10 km	0.5 h	12 h	0.5 h	2 h	1 m/s	5 m/s	Firm		WMO_UA_001Q	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind profile (horizontal component) - Lower troposphere (LT)	10 km	500 km	0.4 km	5 km	0.5 h	12 h	0.5 h	2 h	1 m/s	5 m/s	Firm		WMO_UA_001C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind profile (vertical component) - Higher troposphere (HT)	10 km	500 km	0.5 km	10 km	0.5 h	12 h	0.5 h	2 h	1 cm/s	5 cm/s	Speculative		WMO_UA_N029	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind profile (vertical component) - Lower stratosphere (LS)	10 km	500 km	0.5 km	10 km	0.5 h	12 h	0.5 h	2 h	1 cm/s	5 cm/s	Speculative		WMO_UA_N029A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind profile (vertical component) - Lower troposphere (LT)	10 km	500 km	0.5 km	5 km	0.5 h	12 h	0.5 h	2 h	1 cm/s	5 cm/s	Speculative		WMO_UA_N028	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min			
Wind speed over land surface (horizontal)	10 km	250 km			0.5 h	12 h	0.5 h	2 h	0.5 m/s	3 m/s	Reasonable	WMO_Sfc_010N	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind speed over sea surface (horizontal)	10 km	100 km			0.5 h	12 h	0.5 h	2 h	0.5 m/s	3 m/s	Firm	WMO_Sfc_010J	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind vector over land surface (horizontal)	10 km	250 km			0.5 h	12 h	0.5 h	2 h	0.5 m/s	5 m/s	Reasonable	WMO_Sfc_010F	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Wind vector over sea surface (horizontal)	10 km	100 km			0.5 h	12 h	0.5 h	2 h	0.5 m/s	5 m/s	Firm	WMO_Sfc_010B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
S & IA													
Fractional Photosynthetically Active Radiation (FPAR)	50 km	500 km			7 d	30 d	1 d	30 d	5 % (Max)	10 % (Max)	Firm	WMO_SIA075	23/6/2000, ETODRRGO S-3
Geoid	100 km	500 km			240 mo	360 mo	12 y	24 y	1 cm	5 cm	Firm	WMO_SIA030	23/6/2000, ETODRRGO S-3
Ocean chlorophyll	25 km	100 km			1 d	3 d	1 d	3 d	5 % (Max)	20 % (Max)	Firm	WMO_SIA036	23/6/2000, ETODRRGO S-3
Ocean dynamic topography	25 km	100 km			7 d	30 d	2 d	15 d	1 cm	4 cm	Firm	WMO_SIA039	23/6/2000, ETODRRGO S-3
Ocean salinity	100 km	250 km			30 d	60 d	9 d	120 d	0.1 psu	0.3 psu	Reasonable	WMO_SIA037	23/6/2000, ETODRRGO S-3
Ocean suspended sediment concentration	100 km	500 km			1 d	6 d	30 d	90 d	5 % (Max)	20 % (Max)	Speculative	WMO_SIA038	23/6/2000, ETODRRGO S-3
Ocean yellow substance absorbance	100 km	500 km			1 d	6 d	30 d	90 d	5 % (Max)	20 % (Max)	Speculative	WMO_SIA040	23/6/2000, ETODRRGO S-3
Sea surface bulk temperature	50 km	250 km			3 h	12 h	3 h	24 h	0.1 K	0.5 K	Firm	WMO_SIA068	23/6/2000, ETODRRGO S-3

Tropical ocean most important

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Snow water equivalent	50 km	500 km			24 h	168 h	24 h	168 h	5 mm	20 mm	Tentative		WMO_SIA056	23/6/2000, ETODRRGO S-3
Soil moisture	50 km	500 km			1 d	7 d	1 d	7 d	10 g/kg	50 g/kg	Reasonable		WMO_SIA057	23/6/2000, ETODRRGO S-3
Vegetation type	50000	500000			7 d	30 d	1 d	7 d	18 classes	9 classes	Firm		WMO_SIA074	23/6/2000, ETODRRGO S-3
Synoptic Meteorology														
Air temperature (at surface)	10 km	100 km			1 h	12 h	1 h	4 h	0.5 K	2 K	Firm		WMO_Sfc_008H	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Atmospheric stability index	20 km	200 km			1 h	6 h	1 h	3 h	Missing	Missing	Firm		WMO_UA_N003	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Atmospheric temperature profile - Higher troposphere (HT)	20 km	200 km	0.1 km	2 km	3 h	12 h	1 h	3 h	0.5 K	3 K	Firm		WMO_UA_003G	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Atmospheric temperature profile - Lower stratosphere (LS)	20 km	200 km	0.1 km	2 km	3 h	12 h	1 h	3 h	0.5 K	3 K	Firm		WMO_UA_003Q	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Atmospheric temperature profile - Lower troposphere (LT)	20 km	200 km	0.1 km	2 km	3 h	12 h	1 h	3 h	0.5 K	3 K	Firm		WMO_UA_003F	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud imagery	1 km	10 km			0.25 h	6 h	0.25 h	6 h			Firm		WMO_S_218B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Cloud top height	1 km	10 km			0.25 h	6 h	0.25 h	6 h	0.5 km	2 km	Firm		WMO_UA_009B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application										Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min				
Cloud type	20 km	200 km			0.25 h	6 h	0.25 h	6 h	10 classes	5 classes	Firm		WMO_UA_013A	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Dominant wave direction	50 km	200 km			3 h	12 h	1 h	3 h	20 degrees	30 degrees	Firm		WMO_Sfc_018E	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Dominant wave period	50 km	200 km			3 h	12 h	1 h	3 h	0.5 s	1 s	Firm		WMO_Sfc_018B	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Ozone profile - Total column	20 km	50 km			0.25 h	12 h	0.25 h	6 h	5 DU	20 DU	Firm		WMO_UA_014C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Precipitation rate (liquid) at the surface	20 km	100 km			1 h	6 h	0.25 h	6 h	0.1 mm/h	1 mm/h	Firm		WMO_S_118C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Precipitation rate (solid) at the surface	20 km	100 km			3 h	6 h	0.25 h	6 h	0.1 mm/h	1 mm/h	Firm		WMO_S_118	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Sea surface bulk temperature	5 km	50 km			3 h	24 h	1 h	24 h	0.5 K	2 K	Firm		WMO_Sfc_006	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Specific humidity profile - Higher troposphere (HT)	20 km	200 km	0.1 km	2 km	3 h	12 h	1 h	3 h	5 %	20 %	Firm	Accuracy 10% in RH	WMO_UA_006D	20/10/2003, ET ODRRGOS, Geneva, Nov 2003
Specific humidity profile - Lower troposphere (LT)	20 km	200 km	0.1 km	2 km	3 h	12 h	1 h	3 h	5 %	20 %	Firm	Accuracy 10% in RH	WMO_UA_006C	20/10/2003, ET ODRRGOS, Geneva, Nov 2003

Requirement	Application											Confidence	Remarks	Associate Ident	Source
	Hor Res	Min	Vert Res	Min	Obs Cycle	Min	Delay avail	Min	Accuracy	Min					
	20 km	200 km	0.1 km	2 km	3 h	12 h	1 h	3 h	2 m/s	8 m/s					
Wind profile (horizontal component) - Higher troposphere (HT)	20 km	200 km	0.1 km	2 km	3 h	12 h	1 h	3 h	2 m/s	8 m/s	Firm		WMO_UA_001G	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Wind profile (horizontal component) - Lower stratosphere (LS)	20 km	200 km	0.1 km	2 km	3 h	12 h	1 h	3 h	2 m/s	5 m/s	Firm		WMO_UA_001R	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Wind profile (horizontal component) - Lower troposphere (LT)	20 km	200 km	0.1 km	2 km	3 h	12 h	1 h	3 h	2 m/s	5 m/s	Firm		WMO_UA_001F	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Wind speed over land surface (horizontal)	20 km	200 km			1 h	12 h	1 h	3 h	2 m/s	5 m/s	Firm		WMO_Sfc_010L	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Wind speed over sea surface (horizontal)	20 km	200 km			1 h	12 h	1 h	3 h	2 m/s	5 m/s	Firm		WMO_Sfc_010H	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Wind vector over land surface (horizontal)	20 km	200 km			1 h	12 h	1 h	3 h	2 m/s	5 m/s	Firm		WMO_Sfc_010D	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	
Wind vector over sea surface (horizontal)	20 km	200 km			1 h	12 h	1 h	3 h	2 m/s	5 m/s	Firm		WMO_Sfc_010	20/10/2003, ET ODRRGOS, Geneva, Nov 2003	