

| "Requirement" | Hor Res Go | "HR B/T" | "HR T/H" | Vert Res Go | "VR B/T" | "VR T/H" | Obs Cycle | "OC B/T" | "OC T/H" | "Delay of a | "DA B/T" | "DA T/H" | Acc - RMS | "AC B/T" | "AC T/H" | CF_NAME |
|---|------------|----------|----------|-------------|----------|----------|-----------|----------|----------|-------------|----------|----------|-----------|----------|----------|---------|
| Atmospheric temperature profile - Lower troposphere (LT) | 50 km | 63 km | 100 km | 0.15 km | 0.238 km | 0.6 km | 1 h | 1.4 h | 3 h | 1 h | 1.3 h | 2 h | 2 K | 2.7 K | 5 K | Firm |
| Cloud drop size (at cloud top) | 50 km | 63 km | 100 km | | | | 1 h | 1.4 h | 3 h | 1 h | 1.3 h | 2 h | 15 µm | 18.9 µm | 30 µm | Firm |
| Cloud ice profile - Higher troposphere (HT) | 50 km | 63 km | 100 km | 0.15 km | 0.238 km | 0.6 km | 1 h | 1.4 h | 3 h | 1 h | 1.3 h | 2 h | 10 % | 13.6 % | 25 % | Firm |
| Cloud ice profile - Lower troposphere (LT) | 50 km | 63 km | 100 km | 0.15 km | 0.238 km | 0.6 km | 1 h | 1.4 h | 3 h | 1 h | 1.3 h | 2 h | 10 % | 13.6 % | 25 % | Firm |
| Cloud water profile (< 100 µm) - Lower troposphere (LT) | 50 km | 63 km | 100 km | 0.15 km | 0.238 km | 0.6 km | 1 h | 1.4 h | 3 h | 1 h | 1.3 h | 2 h | 10 % | 13.6 % | 25 % | Firm |
| Cloud water profile (> 100 µm) - Lower troposphere (LT) | 50 km | 63 km | 100 km | 0.15 km | 0.238 km | 0.6 km | 1 h | 1.4 h | 3 h | 1 h | 1.3 h | 2 h | 10 % | 13.6 % | 25 % | Firm |
| Specific humidity profile - Lower troposphere (LT) | 50 km | 63 km | 100 km | 0.15 km | 0.238 km | 0.6 km | 1 h | 1.4 h | 3 h | 1 h | 1.3 h | 2 h | 5 % | 6.3 % | 10 % | Firm |
| Wind profile (horizontal component) - Higher troposphere (HT) | 50 km | 63 km | 100 km | 0.15 km | 0.238 km | 0.6 km | 0.0833 h | 0.105 h | 0.167 h | 1 h | 1.4 h | 3 h | 2 m/s | 2.7 m/s | 5 m/s | Firm |
| Wind profile (horizontal component) - Lower stratosphere (LS) | 50 km | 63 km | 100 km | 0.15 km | 0.238 km | 0.6 km | 0.0833 h | 0.105 h | 0.167 h | 1 h | 1.4 h | 3 h | 2 m/s | 2.7 m/s | 5 m/s | Firm |
| Wind profile (horizontal component) - Lower troposphere (LT) | 50 km | 63 km | 100 km | 0.15 km | 0.238 km | 0.6 km | 0.0833 h | 0.105 h | 0.167 h | 1 h | 1.4 h | 3 h | 2 m/s | 2.7 m/s | 5 m/s | Firm |

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|--|------------|----------|----------|-------------|----------|----------|-----------|----------|----------|-------------|----------|----------|-----------|------------|------------|------------|
| Aerosol profile - Higher stratosphere & mesosphere (HS & M) | 15 km | 50 km | 250 km | 0.2 km | 2.99 km | 3 km | 1 h | 6 h | 24 h | 0.1 h | 0.5 h | 6 h | 10 % | 20 % | 50 % | Tentative |
| Aerosol profile - Higher troposphere (HT) | 15 km | 50 km | 250 km | 0.2 km | 2.99 km | 3 km | 1 h | 6 h | 24 h | 0.1 h | 0.5 h | 6 h | 10 % | 20 % | 50 % | Tentative |
| Aerosol profile - Lower stratosphere (LS) | 15 km | 50 km | 250 km | 0.2 km | 2.99 km | 3 km | 1 h | 6 h | 24 h | 0.1 h | 0.5 h | 6 h | 10 % | 20 % | 50 % | Tentative |
| Aerosol profile - Lower troposphere (LT) | 15 km | 50 km | 250 km | 0.2 km | 2.99 km | 3 km | 1 h | 6 h | 24 h | 0.1 h | 0.5 h | 6 h | 10 % | 20 % | 50 % | Tentative |
| Aerosol profile - Total column | 15 km | 50 km | 250 km | | | | 1 h | 6 h | 24 h | 0.1 h | 0.5 h | 6 h | 10 % | 20 % | 50 % | Tentative |
| Air pressure over land surface | 15 km | 100 km | 500 km | | | | 1 h | 6 h | 12 h | 0.1 h | 0.5 h | 6 h | 0.5 hPa | .99 hPa | 1 hPa | Firm |
| Air pressure over sea surface | 15 km | 100 km | 500 km | | | | 1 h | 6 h | 12 h | 0.1 h | 0.5 h | 6 h | 0.5 hPa | .99 hPa | 1 hPa | Firm |
| Air specific humidity (at surface) | 15 km | 50 km | 250 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 2 % | 5 % | 10 % | Reasonable |
| Air temperature (at surface) | 15 km | 50 km | 250 km | | | | 1 h | 6 h | 12 h | 0.1 h | 0.5 h | 6 h | 0.5 K | 1 K | 2 K | Reasonable |
| Atmospheric temperature profile - Higher stratosphere & mesosphere | 50 km | 100 km | 500 km | 0.3 km | 1 km | 3 km | 1 h | 6 h | 24 h | 0.1 h | 0.5 h | 6 h | 0.5 K | 3 K | 5 K | Reasonable |
| Atmospheric temperature profile - Higher troposphere (HT) | 15 km | 100 km | 500 km | 0.3 km | 1 km | 3 km | 1 h | 6 h | 24 h | 0.1 h | 0.5 h | 6 h | 0.5 K | 1 K | 3 K | Firm |
| Atmospheric temperature profile - Lower stratosphere (LS) | 15 km | 100 km | 500 km | 0.3 km | 1 km | 3 km | 1 h | 6 h | 24 h | 0.1 h | 0.5 h | 6 h | 0.5 K | 1 K | 3 K | Firm |
| Atmospheric temperature profile - Lower troposphere (LT) | 15 km | 100 km | 500 km | 0.3 km | 1 km | 3 km | 1 h | 6 h | 24 h | 0.1 h | 0.5 h | 6 h | 0.5 K | 1 K | 3 K | Firm |
| Cloud base height | 5 km | 15 km | 50 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 0.2 km | .5 km | 1 km | Reasonable |
| Cloud cover | 5 km | 15 km | 50 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 5 % (Max) | 10 % (Max) | 20 % (Max) | Reasonable |
| Cloud drop size (at cloud top) | 5 km | 15 km | 50 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 1 µm | 2 µm | 5 µm | Tentative |
| Cloud ice profile - Higher troposphere (HT) | 5 km | 15 km | 50 km | 0.2 km | 1 km | 2 km | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 20 % | 50 % | 100 % | Reasonable |
| Cloud ice profile - Lower troposphere (LT) | 5 km | 15 km | 50 km | 0.2 km | 1 km | 2 km | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 20 % | 50 % | 100 % | Reasonable |
| Cloud ice profile - Total column | 5 km | 15 km | 50 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 5 g/m2 | 10 g/m2 | 20 g/m2 | Reasonable |
| Cloud imagery | 0.99 km | 1 km | 5 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | | | | Firm |
| Cloud top height | 5 km | 15 km | 50 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 0.2 km | .5 km | 1 km | Firm |

| "Requirement" | Hor Res Go | "HR B/T" | "HR T/H" | Vert Res Go | "VR B/T" | "VR T/H" | Obs Cycle | "OC B/T" | "OC T/H" | "Delay of a | "DA B/T" | "DA T/H" | Acc - RMS | "AC B/T" | "AC T/H" | CF_NAME |
|---|------------|----------|----------|-------------|----------|----------|-----------|----------|----------|-------------|----------|----------|-------------|------------|------------|------------|
| Cloud water profile (< 100 µm) - Higher troposphere (HT) | 5 km | 15 km | 50 km | 0.2 km | 1 km | 2 km | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 20 % | 50 % | 100 % | Reasonable |
| Cloud water profile (< 100 µm) - Lower troposphere (LT) | 5 km | 15 km | 50 km | 0.2 km | 1 km | 2 km | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 20 % | 50 % | 100 % | Reasonable |
| Cloud water profile (< 100 µm) - Total column | 5 km | 15 km | 50 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 10 kg/m2 | 20 kg/m2 | 50 kg/m2 | Reasonable |
| Cloud water profile (> 100 µm) - Higher troposphere (HT) | 5 km | 15 km | 50 km | 0.2 km | 1 km | 2 km | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 20 % | 50 % | 100 % | Reasonable |
| Cloud water profile (> 100 µm) - Lower troposphere (LT) | 5 km | 15 km | 50 km | 0.2 km | 1 km | 2 km | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 20 % | 50 % | 100 % | Reasonable |
| Cloud water profile (> 100 µm) - Total column | 5 km | 15 km | 50 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 10 kg/m2 | 17.1 kg/m2 | 50 kg/m2 | Reasonable |
| Dominant wave direction | 15 km | 50 km | 250 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 10 degrees | 15 degrees | 30 degrees | Firm |
| Dominant wave period | 15 km | 50 km | 250 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 0.25 s | .5 s | 1 s | Firm |
| Downwelling long-wave radiation at the Earth surface | 10 km | 30 km | 100 km | | | | 1 h | 3 h | 12 h | 24 h | 120 h | 720 h | 1 W/m2 | 10 W/m2 | 20 W/m2 | Reasonable |
| Downwelling short-wave radiation at the Earth surface | 10 km | 30 km | 100 km | | | | 1 h | 3 h | 12 h | 24 h | 120 h | 720 h | 1 W/m2 | 10 W/m2 | 20 W/m2 | Reasonable |
| Land surface temperature | 5 km | 15 km | 250 km | | | | 0.5 h | 3 h | 6 h | 0.1 h | 0.5 h | 6 h | 0.5 K | 1 K | 4 K | Firm |
| Leaf Area Index (LAI) | 2 km | 10 km | 50 km | | | | 1 d | 5 d | 10 d | 0.125 d | 1 d | 10 d | 5 % (Max) | 10 % (Max) | 20 % (Max) | Reasonable |
| Long-wave Earth surface emissivity | 5 km | 15 km | 50 km | | | | 24 h | 120 h | 720 h | 24 h | 120 h | 720 h | 0.5 % (Max) | 1 % (Max) | 3 % (Max) | Reasonable |
| Normalized Differential Vegetation Index (NDVI) | 2 km | 10 km | 50 km | | | | 1 d | 5 d | 10 d | 0.125 d | 1 d | 10 d | 5 % (Max) | 10 % (Max) | 20 % (Max) | Reasonable |
| Outgoing long-wave Earth surface | 10 km | 30 km | 100 km | | | | 1 h | 3 h | 12 h | 24 h | 120 h | 720 h | 1 W/m2 | 10 W/m2 | 20 W/m2 | Reasonable |
| Outgoing long-wave radiation at TOA | 10 km | 30 km | 100 km | | | | 1 h | 3 h | 12 h | 24 h | 120 h | 720 h | 5 W/m2 | 10 W/m2 | 20 W/m2 | Firm |
| Outgoing short-wave radiation at TOA | 10 km | 30 km | 100 km | | | | 1 h | 3 h | 12 h | 24 h | 120 h | 720 h | 5 W/m2 | 10 W/m2 | 20 W/m2 | Firm |
| Outgoing spectral radiance at TOA | 10 km | 30 km | 100 km | | | | 0.004 d | 0.0125 d | 5 d | 24 h | 120 h | 720 h | 5 % (Max) | 10 % (Max) | 20 % (Max) | Reasonable |
| Ozone profile - Higher stratosphere & mesosphere (HS & M) | 15 km | 100 km | 250 km | 1 km | 2.2 km | 10 km | 1 h | 6 h | 12 h | 0.1 h | 0.5 h | 6 h | 5 % | 10 % | 20 % | Reasonable |
| Ozone profile - Higher troposphere (HT) | 15 km | 100 km | 250 km | 1 km | 2.2 km | 10 km | 1 h | 6 h | 12 h | 0.1 h | 0.5 h | 6 h | 5 % | 10 % | 20 % | Firm |
| Ozone profile - Lower stratosphere (LS) | 15 km | 100 km | 250 km | 1 km | 2.2 km | 10 km | 1 h | 6 h | 12 h | 0.1 h | 0.5 h | 6 h | 5 % | 10 % | 20 % | Firm |

| "Requirement" | "Hor Res Go" | "HR B/T" | "HR T/H" | "Vert Res Go" | "VR B/T" | "VR T/H" | "Obs Cycle" | "OC B/T" | "OC T/H" | "Delay of a" | "DA B/T" | "DA T/H" | "Acc - RMS" | "AC B/T" | "AC T/H" | "CF_NAME" |
|--|--------------|----------|----------|---------------|----------|----------|-------------|----------|----------|--------------|----------|----------|-------------|------------|------------|------------|
| Ozone profile - Lower troposphere (LT) | 15 km | 100 km | 250 km | 1 km | 2.2 km | 10 km | 1 h | 6 h | 12 h | 0.1 h | 0.5 h | 6 h | 5 % | 10 % | 20 % | Firm |
| Ozone profile - Total column | 15 km | 100 km | 250 km | | | | 1 h | 6 h | 12 h | 0.1 h | 0.5 h | 6 h | 5 DU | 10 DU | 20 DU | Firm |
| Precipitation index (daily cumulative) | 10 km | 30 km | 100 km | | | | 1 h | 3 h | 12 h | 24 h | 120 h | 720 h | 0.5 mm/d | 2 mm/d | 5 mm/d | Firm |
| Precipitation rate (liquid) at the surface | 5 km | 15 km | 50 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 0.1 mm/h | .5 mm/h | 1 mm/h | Reasonable |
| Precipitation rate (solid) at the surface | 5 km | 15 km | 50 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 0.1 mm/h | .5 mm/h | 1 mm/h | Reasonable |
| Sea surface temperature | 5 km | 15 km | 250 km | | | | 3 h | 24 h | 120 h | 3 h | 24 h | 120 h | 0.3 K | .5 K | 1 K | Firm |
| Sea-ice cover | 5 km | 15 km | 100 km | | | | 0.125 d | 1 d | 5 d | 0.125 d | 1 d | 5 d | 5 % (Max) | 10 % (Max) | 20 % (Max) | Firm |
| Sea-ice surface temperature | 5 km | 15 km | 250 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 0.5 K | 1 K | 4 K | Reasonable |
| Sea-ice thickness | 15 km | 50 km | 250 km | | | | 1 d | 5 d | 30 d | 1 d | 5 d | 30 d | 20 cm | 50 cm | 100 cm | Tentative |
| Sea-ice type | 10 km | 25 km | 100 km | | | | 0.125 d | 1 d | 5 d | 0.125 d | 1 d | 5 d | 4 classes | 3 classes | 2 classes | Tentative |
| Short-wave cloud reflectance | 10 km | 30 km | 100 km | | | | 1 h | 3 h | 12 h | 24 h | 120 h | 720 h | 1 % (Max) | 3 % (Max) | 10 % (Max) | Reasonable |
| Short-wave Earth surface bi-directional reflectance | 10 km | 30 km | 100 km | | | | 1 h | 3 h | 12 h | 24 h | 120 h | 720 h | 1 % (Max) | 2 % (Max) | 5 % (Max) | Reasonable |
| Significant wave height | 15 km | 50 km | 250 km | | | | 1 h | 3 h | 12 h | 0.1 h | 0.5 h | 6 h | 0.1 m | .3 m | 0.5 m | Firm |
| Snow cover | 5 km | 15 km | 100 km | | | | 3 h | 24 h | 120 h | 3 h | 24 h | 120 h | 10 % (Max) | 20 % (Max) | 50 % (Max) | Firm |
| Snow water equivalent | 5 km | 15 km | 100 km | | | | 3 h | 24 h | 120 h | 3 h | 24 h | 120 h | 2 mm | 10 mm | 20 mm | Reasonable |
| Soil moisture | 5 km | 15 km | 100 km | | | | 0.125 d | 1 d | 5 d | 0.125 d | 1 d | 5 d | 10 g/kg | 20 g/kg | 50 g/kg | Reasonable |
| Specific humidity profile - Higher troposphere (HT) | 15 km | 50 km | 250 km | 0.5 km | 1 km | 3 km | 1 h | 6 h | 12 h | 0.1 h | 0.5 h | 6 h | 2 % | 5 % | 10 % | Firm |
| Specific humidity profile - Lower troposphere (LT) | 15 km | 50 km | 250 km | 0.3 km | 1 km | 3 km | 1 h | 6 h | 12 h | 0.1 h | 0.5 h | 6 h | 2 % | 5 % | 10 % | Firm |
| Specific humidity profile - Total column | 15 km | 50 km | 250 km | | | | 1 h | 6 h | 12 h | 0.1 h | 0.5 h | 6 h | 1 kg/m2 | 2 kg/m2 | 5 kg/m2 | Firm |
| Wind profile (horizontal component) - Higher stratosphere & mesosphere | 50 km | 100 km | 500 km | 1 km | 2 km | 3 km | 1 h | 6 h | 12 h | 0.1 h | 0.5 h | 6 h | 1 m/s | 5 m/s | 10 m/s | Firm |
| Wind profile (horizontal component) - Higher troposphere (HT) | 15 km | 100 km | 500 km | 0.5 km | 1 km | 3 km | 1 h | 6 h | 12 h | 0.1 h | 0.5 h | 6 h | 1 m/s | 3 m/s | 8 m/s | Firm |

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|---|------------|----------|----------|------------|----------|----------|-----------|----------|----------|-------------|----------|----------|-----------|-------------|------------|------------|
| Air pressure over land surface | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.79 h | 2 h | 0.5 hPa | 0.63 hPa | 1 hPa | Firm |
| Air pressure over sea surface | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.794 h | 2 h | 0.5 hPa | 0.63 hPa | 1 hPa | Firm |
| Air specific humidity (at surface) | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.794 h | 2 h | 5 % | 7.2 % | 15 % | Reasonable |
| Air temperature (at surface) | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.794 h | 2 h | 0.5 K | 0.794 K | 2 K | Reasonable |
| Atmospheric temperature profile - Higher troposphere (HT) | 10 km | 36.8 km | 500 km | 1 km | 1.4 km | 3 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 0.5 K | 0.909 K | 3 K | Firm |
| Atmospheric temperature profile - Lower stratosphere (LS) | 10 km | 36.8 km | 500 km | 1 km | 1.4 km | 3 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 0.5 K | 0.909 K | 3 K | Firm |
| Atmospheric temperature profile - Lower troposphere (LT) | 10 km | 36.8 km | 500 km | 0.3 km | 0.646 km | 3 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 0.5 K | 0.909 K | 3 K | Firm |
| Cloud base height | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.909 h | 3 h | 0.5 km | 0.63 km | 1 km | Tentative |
| Cloud cover | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.794 h | 2 h | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Reasonable |
| Cloud drop size (at cloud top) | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.794 h | 2 h | 0.5 µm | 0.794 µm | 2 µm | Firm |
| Cloud ice profile - Higher troposphere (HT) | 10 km | 29.2 km | 250 km | 1 km | 2.2 km | 10 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud ice profile - Lower troposphere (LT) | 10 km | 29.2 km | 250 km | 0.3 km | 0.766 km | 5 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud ice profile - Total column | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 10 g/m2 | 12.6 g/m2 | 20 g/m2 | Tentative |
| Cloud imagery | 1 km | 3.7 km | 50 km | | | | 0.25 h | 0.721 h | 6 h | 0.5 h | 0.794 h | 2 h | | | | Firm |
| Cloud top height | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.794 h | 2 h | 0.5 km | 0.63 km | 1 km | Firm |
| Cloud water profile (< 100 µm) - Higher troposphere (HT) | 10 km | 29.2 km | 250 km | 1 km | 2.2 km | 10 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud water profile (< 100 µm) - Lower troposphere (LT) | 10 km | 29.2 km | 250 km | 0.3 km | 0.766 km | 5 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud water profile (< 100 µm) - Total column | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 10 kg/m2 | 17.1 kg/m2 | 50 kg/m2 | Tentative |
| Cloud water profile (> 100 µm) - Higher troposphere (HT) | 10 km | 29.2 km | 250 km | 1 km | 2.2 km | 10 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud water profile (> 100 µm) - Lower troposphere (LT) | 10 km | 29.2 km | 250 km | 0.3 km | 0.766 km | 5 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud water profile (> 100 µm) - Total column | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 4 h | 10 kg/m2 | 17.1 kg/m2 | 50 kg/m2 | Tentative |

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|---|------------|----------|----------|------------|----------|----------|-----------|----------|----------|-------------|----------|----------|------------|--------------|------------|-------------|
| Dominant wave direction | 10 km | 17.1 km | 50 km | | | | 1 h | 2.3 h | 12 h | 0.5 h | 0.794 h | 2 h | 10 degrees | 12.6 degrees | 20 degrees | Firm |
| Dominant wave period | 10 km | 17.1 km | 50 km | | | | 1 h | 2.3 h | 12 h | 0.5 h | 0.794 h | 2 h | 0.5 s | 0.63 s | 1 s | Firm |
| Land surface temperature | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.794 h | 2 h | 0.5 K | 1 K | 4 K | Firm |
| Leaf Area Index (LAI) | 10 km | 17.1 km | 50 km | | | | 7 d | 11.4 d | 30 d | 1 d | 1.9 d | 7 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Tentative |
| Long-wave Earth surface emissivity | 5 km | 18.4 km | 250 km | | | | 24 h | 74.6 h | 720 h | 24 h | 74.6 h | 720 h | 1 % (Max) | 1.7 % (Max) | 5 % (Max) | Tentative |
| Normalized Differential Vegetation Index (NDVI) | 10 km | 17.1 km | 50 km | | | | 7 d | 11.4 d | 30 d | 1 d | 1.9 d | 7 d | 1 % (Max) | 1.7 % (Max) | 5 % (Max) | Tentative |
| Outgoing long-wave radiation at TOA | 10 km | 29.2 km | 250 km | | | | 0.5 h | 0.63 h | 1 h | 240 h | 346.1 h | 720 h | 5 W/m2 | 6.3 W/m2 | 10 W/m2 | Firm |
| Outgoing short-wave radiation at TOA | 10 km | 29.2 km | 250 km | | | | 0.5 h | 0.63 h | 1 h | 240 h | 274.7 h | 360 h | 5 W/m2 | 6.3 W/m2 | 10 W/m2 | Firm |
| Ozone profile - Higher troposphere (HT) | 10 km | 27.1 km | 200 km | 1 km | 2.2 km | 10 km | 0.5 h | 0.909 h | 3 h | 0.25 h | 0.5 h | 2 h | 5 % | 7.9 % | 20 % | Tentative |
| Ozone profile - Lower stratosphere (LS) | 10 km | 27.1 km | 200 km | 1 km | 2.2 km | 10 km | 0.5 h | 0.909 h | 3 h | 0.25 h | 0.5 h | 2 h | 5 % | 7.9 % | 20 % | Tentative |
| Ozone profile - Lower troposphere (LT) | 10 km | 27.1 km | 200 km | 1 km | 1.7 km | 5 km | 0.5 h | 0.909 h | 3 h | 0.25 h | 0.5 h | 2 h | 5 % | 7.9 % | 20 % | Tentative |
| Ozone profile - Total column | 10 km | 21.5 km | 100 km | | | | 0.5 h | 1.145 h | 6 h | 0.25 h | 0.5 h | 2 h | 5 DU | 7.9 DU | 20 DU | Reasonable |
| Precipitation index (daily cumulative) | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 24 h | 74.6 h | 720 h | 0.5 mm/d | 1.077 mm/d | 5 mm/d | Reasonable |
| Precipitation rate (liquid) at the surface | 10 km | 17.1 km | 50 km | | | | 0.5 h | 1.145 h | 6 h | 0.5 h | 0.794 h | 2 h | 0.1 mm/h | 0.215 mm/h | 1 mm/h | Tentative |
| Precipitation rate (solid) at the surface | 10 km | 21.5 km | 100 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.794 h | 2 h | 0.1 mm/h | 0.215 mm/h | 1 mm/h | Tentative |
| Sea surface temperature | 25 km | 31.5 km | 50 km | | | | 1 h | 2.3 h | 12 h | 1 h | 2.9 h | 24 h | 0.5 K | 0.63 K | 1 K | Firm |
| Sea-ice cover | 25 km | 31.5 km | 50 km | | | | 0.5 d | 1.205 d | 7 d | 0.3 d | 0.646 d | 3 d | 5 % (Max) | 10.8 % (Max) | 50 % (Max) | Firm |
| Sea-ice surface temperature | 5 km | 13.6 km | 100 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.794 h | 2 h | 0.5 K | 1 K | 4 K | Firm |
| Sea-ice thickness | 5 km | 18.4 km | 250 km | | | | 1 d | 1.9 d | 7 d | 1 d | 1.9 d | 7 d | 50 cm | 63 cm | 100 cm | Speculative |
| Significant wave height | 10 km | 17.1 km | 50 km | | | | 1 h | 2.3 h | 12 h | 1 h | 1.3 h | 2 h | 0.1 m | 0.126 m | 0.2 m | Firm |
| Snow cover | 5 km | 18.4 km | 250 km | | | | 12 h | 28.9 h | 168 h | 6 h | 9.5 h | 24 h | 10 % (Max) | 17.1 % (Max) | 50 % (Max) | Reasonable |

| "Requirement" | Hor Res Go | "HR B/T" | "HR T/H" | ert Res Go | "VR B/T" | "VR T/H" | Obs Cycle | "OC B/T" | "OC T/H" | "Delay of a | "DA B/T" | "DA T/H" | Acc - RMS | "AC B/T" | "AC T/H" | CF_NAME |
|---|------------|----------|----------|------------|----------|----------|-----------|----------|----------|-------------|----------|----------|-----------|-----------|----------|-------------|
| Snow water equivalent | 5 km | 18.4 km | 250 km | | | | 6 h | 21.8 h | 288 h | 6 h | 9.5 h | 24 h | 5 mm | 7.9 mm | 20 mm | Tentative |
| Soil moisture | 5 km | 18.4 km | 250 km | | | | 1 d | 1.9 d | 7 d | 7 d | 10 d | 30 d | 10 g/kg | 17.1 g/kg | 50 g/kg | Reasonable |
| Specific humidity profile - Higher troposphere (HT) | 10 km | 21.5 km | 100 km | 1 km | 1.4 km | 3 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 5 % | 7.9 % | 20 % | Firm |
| Specific humidity profile - Lower troposphere (LT) | 10 km | 21.5 km | 100 km | 0.4 km | 0.684 km | 2 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 5 % | 7.9 % | 20 % | Firm |
| Specific humidity profile - Total column | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 1 kg/m2 | 1.7 kg/m2 | 5 kg/m2 | Firm |
| Wind profile (horizontal component) - Higher troposphere (HT) | 10 km | 36.8 km | 500 km | 1 km | 2.2 km | 10 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 1 m/s | 2 m/s | 8 m/s | Firm |
| Wind profile (horizontal component) - Lower stratosphere (LS) | 10 km | 36.8 km | 500 km | 1 km | 2.2 km | 10 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 1 m/s | 1.7 m/s | 5 m/s | Firm |
| Wind profile (horizontal component) - Lower troposphere (LT) | 10 km | 36.8 km | 500 km | 0.4 km | 0.928 km | 5 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 1 m/s | 1.7 m/s | 5 m/s | Firm |
| Wind profile (vertical component) - Higher troposphere (HT) | 10 km | 36.8 km | 500 km | 0.5 km | 1.357 km | 10 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 1 cm/s | 1.7 cm/s | 5 cm/s | Speculative |
| Wind profile (vertical component) - Lower stratosphere (LS) | 10 km | 36.8 km | 500 km | 0.5 km | 1.357 km | 10 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 1 cm/s | 1.7 cm/s | 5 cm/s | Speculative |
| Wind profile (vertical component) - Lower troposphere (LT) | 10 km | 36.8 km | 500 km | 0.5 km | 1.077 km | 5 km | 0.5 h | 1.442 h | 12 h | 0.25 h | 0.5 h | 2 h | 1 cm/s | 1.7 cm/s | 5 cm/s | Speculative |
| Wind speed over land surface (horizontal) | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.794 h | 2 h | 0.5 m/s | 0.909 m/s | 3 m/s | Reasonable |
| Wind speed over sea surface (horizontal) | 10 km | 21.5 km | 100 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.794 h | 2 h | 0.5 m/s | 0.909 m/s | 3 m/s | Firm |
| Wind vector over land surface (horizontal) | 10 km | 29.2 km | 250 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.794 h | 2 h | 0.5 m/s | 1.077 m/s | 5 m/s | Reasonable |
| Wind vector over sea surface (horizontal) | 10 km | 21.5 km | 100 km | | | | 0.5 h | 1.442 h | 12 h | 0.5 h | 0.794 h | 2 h | 0.5 m/s | 1.077 m/s | 5 m/s | Firm |

| "Requirement" | "Hor Res Go" | "HR B/T" | "HR T/H" | "Vert Res Go" | "VR B/T" | "VR T/H" | "Obs Cycle" | "OC B/T" | "OC T/H" | "Delay of a" | "DA B/T" | "DA T/H" | "Acc - RMS" | "AC B/T" | "AC T/H" | "CF_NAME" |
|---|--------------|----------|----------|---------------|----------|----------|-------------|----------|----------|--------------|----------|----------|-------------|--------------|------------|-----------|
| Air temperature (at surface) | 10 km | 21.5 km | 100 km | | | | 1 h | 2.3 h | 12 h | 1 h | 1.6 h | 4 h | 0.5 K | 0.794 K | 2 K | Firm |
| Atmospheric stability index | 20 km | 43.1 km | 200 km | | | | 1 h | 1.8 h | 6 h | 1 h | 1.4 h | 3 h | Missing | K | Missing | Firm |
| Atmospheric temperature profile - Higher troposphere (HT) | 20 km | 43.1 km | 200 km | 0.1 km | 0.271 km | 2 km | 3 h | 4.8 h | 12 h | 1 h | 1.4 h | 3 h | 0.5 K | 0.909 K | 3 K | Firm |
| Atmospheric temperature profile - Lower stratosphere (LS) | 20 km | 43.1 km | 200 km | 0.1 km | 0.271 km | 2 km | 3 h | 4.8 h | 12 h | 1 h | 1.4 h | 3 h | 0.5 K | 0.909 K | 3 K | Firm |
| Atmospheric temperature profile - Lower troposphere (LT) | 20 km | 43.1 km | 200 km | 0.1 km | 0.271 km | 2 km | 3 h | 4.8 h | 12 h | 1 h | 1.4 h | 3 h | 0.5 K | 0.909 K | 3 K | Firm |
| Cloud imagery | 1 km | 2.2 km | 10 km | | | | 0.25 h | 0.721 h | 6 h | 0.25 h | 0.721 h | 6 h | | | | Firm |
| Cloud top height | 1 km | 2.2 km | 10 km | | | | 0.25 h | 0.721 h | 6 h | 0.25 h | 0.721 h | 6 h | 0.5 km | 0.794 km | 2 km | Firm |
| Cloud type | 20 km | 43.1 km | 200 km | | | | 0.25 h | 0.721 h | 6 h | 0.25 h | 0.721 h | 6 h | 10 classes | 7.9 classes | 5 classes | Firm |
| Dominant wave direction | 50 km | 79.4 km | 200 km | | | | 3 h | 4.8 h | 12 h | 1 h | 1.4 h | 3 h | 20 degrees | 22.9 degrees | 30 degrees | Firm |
| Dominant wave period | 50 km | 79.4 km | 200 km | | | | 3 h | 4.8 h | 12 h | 1 h | 1.4 h | 3 h | 0.5 s | 0.63 s | 1 s | Firm |
| Ozone profile - Total column | 20 km | 27.1 km | 50 km | | | | 0.25 h | 0.909 h | 12 h | 0.25 h | 0.721 h | 6 h | 5 DU | 7.9 DU | 20 DU | Firm |
| Precipitation rate (liquid) at the surface | 20 km | 34.2 km | 100 km | | | | 1 h | 1.8 h | 6 h | 0.25 h | 0.721 h | 6 h | 0.1 mm/h | 0.215 mm/h | 1 mm/h | Firm |
| Precipitation rate (solid) at the surface | 20 km | 34.2 km | 100 km | | | | 3 h | 3.8 h | 6 h | 0.25 h | 0.721 h | 6 h | 0.1 mm/h | 0.215 mm/h | 1 mm/h | Firm |
| Sea surface temperature | 5 km | 10.8 km | 50 km | | | | 3 h | 6 h | 24 h | 1 h | 2.9 h | 24 h | 0.5 K | 0.794 K | 2 K | Firm |
| Specific humidity profile - Higher troposphere (HT) | 20 km | 43.1 km | 200 km | 0.1 km | 0.271 km | 2 km | 3 h | 4.8 h | 12 h | 1 h | 1.4 h | 3 h | 5 % | 7.9 % | 20 % | Firm |
| Specific humidity profile - Lower troposphere (LT) | 20 km | 43.1 km | 200 km | 0.1 km | 0.271 km | 2 km | 3 h | 4.8 h | 12 h | 1 h | 1.4 h | 3 h | 5 % | 7.9 % | 20 % | Firm |
| Wind profile (horizontal component) - Higher troposphere (HT) | 20 km | 43.1 km | 200 km | 0.1 km | 0.271 km | 2 km | 3 h | 4.8 h | 12 h | 1 h | 1.4 h | 3 h | 2 m/s | 3.2 m/s | 8 m/s | Firm |
| Wind profile (horizontal component) - Lower stratosphere (LS) | 20 km | 43.1 km | 200 km | 0.1 km | 0.271 km | 2 km | 3 h | 4.8 h | 12 h | 1 h | 1.4 h | 3 h | 2 m/s | 2.7 m/s | 5 m/s | Firm |
| Wind profile (horizontal component) - Lower troposphere (LT) | 20 km | 43.1 km | 200 km | 0.1 km | 0.271 km | 2 km | 3 h | 4.8 h | 12 h | 1 h | 1.4 h | 3 h | 2 m/s | 2.7 m/s | 5 m/s | Firm |
| Wind speed over land surface (horizontal) | 20 km | 43.1 km | 200 km | | | | 1 h | 2.3 h | 12 h | 1 h | 1.4 h | 3 h | 2 m/s | 2.7 m/s | 5 m/s | Firm |
| Wind speed over sea surface (horizontal) | 20 km | 43.1 km | 200 km | | | | 1 h | 2.3 h | 12 h | 1 h | 1.4 h | 3 h | 2 m/s | 2.7 m/s | 5 m/s | Firm |
| Wind vector over land surface (horizontal) | 20 km | 43.1 km | 200 km | | | | 1 h | 2.3 h | 12 h | 1 h | 1.4 h | 3 h | 2 m/s | 2.7 m/s | 5 m/s | Firm |
| Wind vector over sea surface (horizontal) | 20 km | 43.1 km | 200 km | | | | 1 h | 2.3 h | 12 h | 1 h | 1.4 h | 3 h | 2 m/s | 2.7 m/s | 5 m/s | Firm |

| "Requirement" | Hor Res Go | "HR B/T" | "HR T/H" | Vert Res Go | "VR B/T" | "VR T/H" | Obs Cycle | "OC B/T" | "OC T/H" | "Delay of a | "DA B/T" | "DA T/H" | Acc - RMS | "AC B/T" | "AC T/H" | CF_NAME |
|--|------------|------------|----------|-------------|----------|----------|-----------|----------|----------|-------------|----------|----------|------------|--------------|------------|-------------|
| Fractional Photosynthetically Active Radiation (fAPAR) | 50 km | 107.7 km | 500 km | | | | 7 d | 11.4 d | 30 d | 1 d | 3.1 d | 30 d | 5 % (Max) | 6.3 % (Max) | 10 % (Max) | Firm |
| Geoid | 100 km | 171 km | 500 km | | | | 240 mo | 274.7 mo | 360 mo | 12 y | 15.1 y | 24 y | 1 cm | 1.7 cm | 5 cm | Firm |
| Ocean chlorophyll | 25 km | 39.7 km | 100 km | | | | 1 d | 1.4 d | 3 d | 1 d | 1.4 d | 3 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Firm |
| Ocean dynamic topography | 25 km | 39.7 km | 100 km | | | | 7 d | 11.4 d | 30 d | 2 d | 3.9 d | 15 d | 1 cm | 1.6 cm | 4 cm | Firm |
| Ocean surface salinity | 100 km | 135.7 km | 250 km | | | | 30 d | 37.8 d | 60 d | 9 d | 21.3 d | 120 d | 0.1 psu | 0.144 psu | 0.3 psu | Reasonable |
| Ocean suspended sediment concentration | 100 km | 171 km | 500 km | | | | 1 d | 1.8 d | 6 d | 30 d | 43.3 d | 90 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Speculative |
| Ocean yellow substance absorbance | 100 km | 171 km | 500 km | | | | 1 d | 1.8 d | 6 d | 30 d | 43.3 d | 90 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Speculative |
| Sea surface temperature | 50 km | 85.5 km | 250 km | | | | 3 h | 4.8 h | 12 h | 3 h | 6 h | 24 h | 0.1 K | 0.171 K | 0.5 K | Firm |
| Snow water equivalent | 50 km | 107.7 km | 500 km | | | | 24 h | 45.9 h | 168 h | 24 h | 45.9 h | 168 h | 5 mm | 7.9 mm | 20 mm | Tentative |
| Soil moisture | 50 km | 107.7 km | 500 km | | | | 1 d | 1.9 d | 7 d | 1 d | 1.9 d | 7 d | 10 g/kg | 17.1 g/kg | 50 g/kg | Reasonable |
| Vegetation type | 50000 m | 107721.7 m | 500000 m | | | | 7 d | 11.4 d | 30 d | 1 d | 1.9 d | 7 d | 18 classes | 14.3 classes | 9 classes | Firm |

| "Requirement" | Hor Res Go | "HR B/T" | "HR T/H" | Vert Res Go | "VR B/T" | "VR T/H" | Obs Cycle | "OC B/T" | "OC T/H" | "Delay of a | "DA B/T" | "DA T/H" | Acc - RMS | "AC B/T" | "AC T/H" | CF_NAME |
|---|------------|----------|----------|-------------|----------|----------|-----------|----------|----------|-------------|----------|----------|------------|--------------|------------|------------|
| Aerosol profile - Total column | 5 km | 10.8 km | 50 km | | | | 0.25 h | 0.909 h | 12 h | 0.25 h | 0.5 h | 2 h | 10 % | 12.6 % | 20 % | Firm |
| Air temperature (at surface) | 5 km | 7.9 km | 20 km | | | | 0.25 h | 0.397 h | 1 h | 0.25 h | 0.315 h | 0.5 h | 0.5 K | 0.63 K | 1 K | Reasonable |
| Atmospheric stability index | 5 km | 10.8 km | 50 km | | | | 0.08 h | 0.147 h | 0.5 h | 0.25 h | 0.397 h | 1 h | Missing | K | Missing | Firm |
| Atmospheric temperature profile - Higher troposphere (HT) | 5 km | 17.1 km | 200 km | 1 km | 1.4 km | 3 km | 0.25 h | 0.397 h | 1 h | 0.08 h | 0.147 h | 0.5 h | 1 K | 1.3 K | 2 K | Firm |
| Atmospheric temperature profile - Lower troposphere (LT) | 5 km | 17.1 km | 200 km | 0.5 km | 0.63 km | 1 km | 0.25 h | 0.397 h | 1 h | 0.08 h | 0.147 h | 0.5 h | 0.5 K | 0.794 K | 2 K | Firm |
| Cloud cover | 1 km | 2.7 km | 20 km | | | | 0.0083 h | 0.041 h | 1 h | 0.016 h | 0.05 h | 0.5 h | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Firm |
| Cloud imagery | 1 km | 1.7 km | 5 km | | | | 0.05 h | 0.108 h | 0.5 h | 0.25 h | 0.397 h | 1 h | | | | Firm |
| Cloud top height | 1 km | 2.2 km | 10 km | | | | 0.01 h | 0.037 h | 0.5 h | 0.02 h | 0.058 h | 0.5 h | 0.1 km | 0.215 km | 1 km | Firm |
| Cloud top temperature | 1 km | 2.2 km | 10 km | | | | 0.01 h | 0.037 h | 0.5 h | 0.02 h | 0.058 h | 0.5 h | 0.5 K | 0.794 K | 2 K | Firm |
| Cloud type | 1 km | 2.2 km | 10 km | | | | 0.01 h | 0.037 h | 0.5 h | 0.02 h | 0.058 h | 0.5 h | 10 classes | 7.9 classes | 5 classes | Firm |
| Fire area | 5 km | 18.4 km | 250 km | | | | 0.25 d | 0.909 d | 12 d | 1 d | 1.6 d | 4 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Firm |
| Fire temperature | 5 km | 18.4 km | 250 km | | | | 0.25 d | 0.909 d | 12 d | 1 d | 1.6 d | 4 d | 500 K | 630 K | 1000 K | Firm |
| Height of the top of the Planetary Boundary Layer | 5 km | 10.8 km | 50 km | | | | 0.25 h | 0.397 h | 1 h | 0.08 h | 0.147 h | 0.5 h | 50 m | 107.7 m | 500 m | Firm |
| Height of tropopause | 10 km | 27.1 km | 200 km | | | | 0.5 h | 1.145 h | 6 h | 0.5 h | 0.794 h | 2 h | 0.1 km | 0.215 km | 1 km | Firm |
| Land surface temperature | 1 km | 3.7 km | 50 km | | | | 0.25 h | 0.397 h | 1 h | 0.08 h | 0.147 h | 0.5 h | 0.5 K | 0.909 K | 3 K | Firm |
| Normalized Differential Vegetation Index (NDVI) | 5 km | 6.3 km | 10 km | | | | 1 d | 2.3 d | 12 d | 1 d | 1.7 d | 5 d | 5 % (Max) | 6.3 % (Max) | 10 % (Max) | Firm |
| Ocean surface currents (vector) | 10 km | 17.1 km | 50 km | | | | 0.25 d | 0.721 d | 6 d | 0.25 d | 0.63 d | 4 d | 0.5 cm/s | 0.63 cm/s | 1 cm/s | Firm |
| Precipitation rate (liquid) at the surface | 5 km | 10.8 km | 50 km | | | | 0.08 h | 0.186 h | 1 h | 0.08 h | 0.147 h | 0.5 h | 0.1 mm/h | 0.215 mm/h | 1 mm/h | Firm |
| Precipitation rate (solid) at the surface | 5 km | 10.8 km | 50 km | | | | 0.25 h | 0.397 h | 1 h | 0.5 h | 0.79 h | 2 h | 0.1 mm/h | 0.215 mm/h | 1 mm/h | Firm |
| Sea surface temperature | 5 km | 10.8 km | 50 km | | | | 1 h | 1.8 h | 6 h | 1 h | 1.3 h | 2 h | 0.5 K | 0.794 K | 2 K | Firm |
| Sea-ice cover | 5 km | 10.8 km | 50 km | | | | 1 d | 2.9 d | 24 d | 1 d | 1.8 d | 6 d | 10 % (Max) | 12.6 % (Max) | 20 % (Max) | Firm |
| Snow cover | 5 km | 10.8 km | 50 km | | | | 1 h | 5.2 h | 144 h | 1 h | 1.8 h | 6 h | 10 % (Max) | 12.6 % (Max) | 20 % (Max) | Firm |

| "Requirement" | Hor Res Go | "HR B/T" | "HR T/H" | ert Res Go | "VR B/T" | "VR T/H" | Obs Cycle | "OC B/T" | "OC T/H" | "Delay of a | "DA B/T" | "DA T/H" | Acc - RMS | "AC B/T" | "AC T/H" | CF_NAME |
|---|------------|----------|----------|------------|----------|----------|-----------|----------|----------|-------------|----------|----------|-----------|----------|----------|---------|
| Aerosol profile - Higher stratosphere & mesosphere (HS & M) | 50 km | 107.7 km | 500 km | 1 km | 2.2 km | 10 km | 6 h | 9.5 h | 24 h | 12 h | 28.9 h | 168 h | 10 % | 12.6 % | 20 % | Firm |
| Aerosol profile - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 6 h | 9.5 h | 24 h | 12 h | 28.9 h | 168 h | 10 % | 12.6 % | 20 % | Firm |
| Aerosol profile - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 6 h | 9.5 h | 24 h | 12 h | 28.9 h | 168 h | 10 % | 12.6 % | 20 % | Firm |
| Aerosol profile - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 6 h | 9.5 h | 24 h | 12 h | 28.9 h | 168 h | 5 % | 7.9 % | 20 % | Firm |
| Cloud imagery | 100 km | 126 km | 200 km | | | | 3 h | 4.8 h | 12 h | 72 h | 95.5 h | 168 h | | | | Firm |
| Ozone profile - Higher stratosphere & mesosphere (HS & M) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 3 h | 7.6 h | 48 h | 72 h | 95.5 h | 168 h | 5 % | 8.5 % | 25 % | Firm |
| Ozone profile - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 3 h | 11.5 h | 168 h | 72 h | 95.5 h | 168 h | 3 % | 5.6 % | 20 % | Firm |
| Ozone profile - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 3 h | 11.5 h | 168 h | 72 h | 95.5 h | 168 h | 3 % | 5.6 % | 20 % | Firm |
| Ozone profile - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 3 h | 11.5 h | 168 h | 72 h | 95.5 h | 168 h | 3 % | 5.6 % | 20 % | Firm |
| Ozone profile - Total column | 25 km | 39.7 km | 100 km | | | | 6 h | 12 h | 48 h | 3 h | 11.5 h | 168 h | 6 DU | 9 DU | 20 DU | Firm |
| Specific humidity profile - Higher stratosphere & mesosphere (HS & M) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 12 h | 21.8 h | 72 h | 72 h | 95.5 h | 168 h | 5 % | 7.9 % | 20 % | Firm |
| Specific humidity profile - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 12 h | 21.8 h | 72 h | 72 h | 95.5 h | 168 h | 5 % | 7.9 % | 20 % | Firm |
| Specific humidity profile - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 12 h | 21.8 h | 72 h | 72 h | 95.5 h | 168 h | 5 % | 7.9 % | 20 % | Firm |
| Specific humidity profile - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 6 h | 13.7 h | 72 h | 72 h | 95.5 h | 168 h | 5 % | 7.9 % | 20 % | Firm |
| Trace gas profile BrO - Higher stratosphere & mesosphere (HS & M) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile BrO - Higher troposphere (HT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile BrO - Lower stratosphere (LS) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile BrO - Lower troposphere (LT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile CFC 11 - Higher stratosphere & mesosphere (HS & M) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile CFC 11 - Higher troposphere (HT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile CFC 11 - Lower stratosphere (LS) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile CFC 11 - Lower troposphere (LT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |

| "Requirement" | "Hor Res Go" | "HR B/T" | "HR T/H" | "Vert Res Go" | "VR B/T" | "VR T/H" | "Obs Cycle" | "OC B/T" | "OC T/H" | "Delay of a" | "DA B/T" | "DA T/H" | "Acc - RMS" | "AC B/T" | "AC T/H" | "CF_NAME" |
|--|--------------|----------|----------|---------------|----------|----------|-------------|----------|----------|--------------|----------|----------|-------------|----------|----------|-----------|
| Trace gas profile CFC 12 - Higher stratosphere & mesosphere (HS & M) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile CFC 12 - Higher troposphere (HT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile CFC 12 - Lower stratosphere (LS) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile CFC 12 - Lower troposphere (LT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile CH4 - Higher stratosphere & mesosphere (HS & M) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 2 % | 3.4 % | 10 % | Firm |
| Trace gas profile CH4 - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 2 % | 3.4 % | 10 % | Firm |
| Trace gas profile CH4 - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 2 % | 3.4 % | 10 % | Firm |
| Trace gas profile CH4 - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 2 % | 3.4 % | 10 % | Firm |
| Trace gas profile ClO - Higher stratosphere & mesosphere (HS & M) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile ClO - Higher troposphere (HT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile ClO - Lower stratosphere (LS) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile ClO - Lower troposphere (LT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile ClONO2 - Higher stratosphere & mesosphere (HS & M) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile ClONO2 - Higher troposphere (HT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile ClONO2 - Lower stratosphere (LS) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile CO - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile CO - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile CO - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile CO2 - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 2 % | 2.7 % | 5 % | Firm |
| Trace gas profile COS - Higher troposphere (HT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 12 h | 21.8 h | 72 h | 24 h | 45.9 h | 168 h | 15 % | 17.8 % | 25 % | Firm |
| Trace gas profile COS - Lower stratosphere (LS) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 12 h | 21.8 h | 72 h | 24 h | 45.9 h | 168 h | 15 % | 17.8 % | 25 % | Firm |
| Trace gas profile COS - Lower troposphere (LT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 12 h | 21.8 h | 72 h | 24 h | 45.9 h | 168 h | 15 % | 17.8 % | 25 % | Firm |

| "Requirement" | Hor Res Go | "HR B/T" | "HR T/H" | ert Res Go | "VR B/T" | "VR T/H" | Obs Cycle | "OC B/T" | "OC T/H" | "Delay of a | "DA B/T" | "DA T/H" | Acc - RMS | "AC B/T" | "AC T/H" | CF_NAME |
|--|------------|----------|----------|------------|----------|----------|-----------|----------|----------|-------------|----------|----------|-----------|----------|----------|---------|
| Trace gas profile HCHO - Total column | 50 km | 107.7 km | 500 km | | | | 24 h | 30.2 h | 48 h | 72 h | 95.5 h | 168 h | 5 % | 7.2 % | 15 % | Firm |
| Trace gas profile HCl - Higher stratosphere & mesosphere (HS & M) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 2 % | 2.7 % | 5 % | Firm |
| Trace gas profile HCl - Higher troposphere (HT) | 100 km | 171 km | 500 km | 1 km | 1.1 km | 1.5 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 2 % | 2.7 % | 5 % | Firm |
| Trace gas profile HCl - Lower stratosphere (LS) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 2 % | 2.7 % | 5 % | Firm |
| Trace gas profile HNO3 - Higher stratosphere & mesosphere (HS & M) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile HNO3 - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile HNO3 - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile HNO3 - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile N2O - Higher stratosphere & mesosphere (HS & M) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 2 % | 4.3 % | 20 % | Firm |
| Trace gas profile N2O - Higher troposphere (HT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 2 % | 4.3 % | 20 % | Firm |
| Trace gas profile N2O - Lower stratosphere (LS) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 2 % | 4.3 % | 20 % | Firm |
| Trace gas profile N2O - Lower troposphere (LT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 2 % | 4.3 % | 20 % | Firm |
| Trace gas profile NO - Higher stratosphere & mesosphere (HS & M) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile NO - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile NO - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile NO - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile NO2 - Higher stratosphere & mesosphere (HS & M) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile NO2 - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile NO2 - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile NO2 - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 1 km | 1.6 km | 4 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 6.3 % | 10 % | Firm |
| Trace gas profile NO2 - Total column | 50 km | 107.7 km | 500 km | | | | 24 h | 30.2 h | 48 h | 72 h | 95.5 h | 168 h | 5 % | 7.2 % | 15 % | Firm |
| Trace gas profile OH - Higher stratosphere & mesosphere (HS & M) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 9.1 % | 30 % | Firm |

| "Requirement" | Hor Res Go | "HR B/T" | "HR T/H" | ert Res Go | "VR B/T" | "VR T/H" | Obs Cycle | "OC B/T" | "OC T/H" | "Delay of a | "DA B/T" | "DA T/H" | Acc - RMS | "AC B/T" | "AC T/H" | CF_NAME |
|---|------------|----------|----------|------------|----------|----------|-----------|----------|----------|-------------|----------|----------|-----------|----------|----------|---------|
| Trace gas profile OH - Higher troposphere (HT) | 100 km | 171 km | 500 km | 1 km | 1.1 km | 1.5 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 9.1 % | 30 % | Firm |
| Trace gas profile OH - Lower stratosphere (LS) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 9.1 % | 30 % | Firm |
| Trace gas profile OH - Lower troposphere (LT) | 100 km | 171 km | 500 km | 1 km | 1.1 km | 1.5 km | 6 h | 9.5 h | 24 h | 72 h | 95.5 h | 168 h | 5 % | 9.1 % | 30 % | Firm |
| Trace gas profile SO2 - Higher troposphere (HT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 12 h | 21.8 h | 72 h | 24 h | 45.9 h | 168 h | 10 % | 12.6 % | 20 % | Firm |
| Trace gas profile SO2 - Lower stratosphere (LS) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 12 h | 21.8 h | 72 h | 24 h | 45.9 h | 168 h | 10 % | 12.6 % | 20 % | Firm |
| Trace gas profile SO2 - Lower troposphere (LT) | 100 km | 171 km | 500 km | 1 km | 1.4 km | 3 km | 12 h | 21.8 h | 72 h | 24 h | 45.9 h | 168 h | 10 % | 12.6 % | 20 % | Firm |

| "Requirement" | "Hor Res Go" | "HR B/T" | "HR T/H" | "Vert Res Go" | "VR B/T" | "VR T/H" | Obs Cycle | "OC B/T" | "OC T/H" | "Delay of a" | "DA B/T" | "DA T/H" | Acc - RMS | "AC B/T" | "AC T/H" | CF_NAME |
|--|--------------|----------|----------|---------------|----------|----------|-----------|----------|----------|--------------|----------|----------|------------|--------------|------------|------------|
| Fire area | 0.01 km | 0.1 km | 10 km | | | | 0.25 d | 0.397 d | 1 d | 0.0416 d | 0.076 d | 0.25 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Reasonable |
| Fire temperature | 0.01 km | 0.1 km | 10 km | | | | 0.25 d | 0.397 d | 1 d | 0.0416 d | 0.076 d | 0.25 d | 50 K | 79.4 K | 200 K | Reasonable |
| Fractional Photosynthetically Active Radiation (fAPAR) | 5 km | 13.6 km | 100 km | | | | 0.0416 d | 0.23 d | 7 d | 1 d | 1.7 d | 5 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Reasonable |
| Land cover | 100 m | 215.4 m | 1000 m | | | | 1 y | 1.3 y | 2 y | 10 d | 14.4 d | 30 d | 10 classes | 7.4 classes | 4 classes | Reasonable |
| Land surface temperature | 0.1 km | 0.464 km | 10 km | | | | 1 h | 4.2 h | 72 h | 3 h | 6 h | 24 h | 0.3 K | 0.565 K | 2 K | Reasonable |
| Leaf Area Index (LAI) | 0.01 km | 0.1 km | 10 km | | | | 5 d | 5.6 d | 7 d | 1 d | 1.7 d | 5 d | 5 % (Max) | 6.3 % (Max) | 10 % (Max) | Reasonable |
| Normalized Differential Vegetation Index (NDVI) | 1 km | 2.2 km | 10 km | | | | 1 d | 1.9 d | 7 d | 1 d | 1.7 d | 5 d | 5 % (Max) | 6.3 % (Max) | 10 % (Max) | Reasonable |
| Precipitation index (daily cumulative) | 10 km | 17.1 km | 50 km | | | | 24 h | 34.6 h | 72 h | 24 h | 30.2 h | 48 h | 2 mm/d | 3.4 mm/d | 10 mm/d | Reasonable |
| Snow cover | 1 km | 2.2 km | 10 km | | | | 120 h | 134.2 h | 168 h | 24 h | 43.6 h | 144 h | 2 % (Max) | 3.4 % (Max) | 10 % (Max) | Reasonable |
| Snow water equivalent | 1 km | 2.2 km | 10 km | | | | 168 h | 272.9 h | 720 h | 24 h | 45.9 h | 168 h | 5 mm | 23.2 mm | 500 mm | Reasonable |
| Soil moisture | 0.1 km | 0.215 km | 1 km | | | | 1 d | 1.9 d | 7 d | 1 d | 1.7 d | 5 d | 10 g/kg | 17.1 g/kg | 50 g/kg | Reasonable |
| Soil type | 0.1 km | 0.464 km | 10 km | | | | 1 y | 1.3 y | 2 y | 10 d | 14.4 d | 30 d | 15 classes | 10.4 classes | 5 classes | Reasonable |
| Vegetation type | 50 m | 107.7 m | 500 m | | | | 30 d | 37.8 d | 60 d | 1 d | 1.9 d | 7 d | 30 classes | 16.5 classes | 5 classes | Reasonable |

| "Requirement" | Hor Res Go | "HR B/T" | "HR T/H" | Vert Res Go | "VR B/T" | "VR T/H" | Obs Cycle | "OC B/T" | "OC T/H" | "Delay of a | "DA B/T" | "DA T/H" | Acc - RMS | "AC B/T" | "AC T/H" | CF_NAME |
|---|------------|----------|----------|-------------|----------|----------|-----------|----------|----------|-------------|----------|----------|------------|------------|-----------|-------------|
| Aerosol absorption optical depth (VIS) - Higher Stratosphere & Mesosphere | 1 km | 2 km | 10 km | | | | 1 d | 2 d | 7 d | 7 d | 14 d | 60 d | 0.004 1/km | 0.01 1/km | 0.02 1/km | Reasonable |
| Aerosol absorption optical depth (VIS) - Higher Troposphere column | 1 km | 2 km | 10 km | | | | 1 d | 2 d | 7 d | 7 d | 14 d | 60 d | 0.004 1/km | 0.01 1/km | 0.02 1/km | Reasonable |
| Aerosol absorption optical depth (VIS) - Lower Stratosphere column | 1 km | 2 km | 10 km | | | | 1 d | 2 d | 7 d | 7 d | 14 d | 60 d | 0.004 1/km | 0.01 1/km | 0.02 1/km | Reasonable |
| Aerosol absorption optical depth (VIS) - Lower Troposphere column | 1 km | 2 km | 10 km | | | | 1 d | 2 d | 7 d | 7 d | 14 d | 60 d | 0.004 1/km | 0.01 1/km | 0.02 1/km | Reasonable |
| Aerosol extinction coefficient (VIS) - Higher stratosphere & mesosphere | 10 km | 20 km | 100 km | 0.5 km | 0.65 km | 1 km | 1 d | 2 d | 7 d | 7 d | 14 d | 60 d | 0.01 1/km | 0.015 1/km | 0.02 1/km | Reasonable |
| Aerosol extinction coefficient (VIS) - Higher troposphere (HT) | 10 km | 20 km | 100 km | 0.5 km | 0.65 km | 1 km | 1 d | 2 d | 7 d | 7 d | 14 d | 60 d | 0.01 1/km | 0.015 1/km | 0.02 1/km | Reasonable |
| Aerosol extinction coefficient (VIS) - Lower stratosphere (LS) | 10 km | 20 km | 100 km | 0.5 km | 0.65 km | 1 km | 1 d | 2 d | 7 d | 7 d | 14 d | 60 d | 0.01 1/km | 0.015 1/km | 0.02 1/km | Reasonable |
| Aerosol extinction coefficient (VIS) - Lower troposphere (LT) | 10 km | 20 km | 100 km | 0.5 km | 0.65 km | 1 km | 1 d | 2 d | 7 d | 7 d | 14 d | 60 d | 0.01 1/km | 0.015 1/km | 0.02 1/km | Reasonable |
| Aerosol optical depth (VIS+IR) - Higher Stratosphere & Mesosphere | 1 km | 2 km | 10 km | | | | 1 d | 2 d | 7 d | 7 d | 14 d | 60 d | 0.01 1/km | 0.015 1/km | 0.02 1/km | Reasonable |
| Aerosol optical depth (VIS+IR) - Higher Troposphere column | 1 km | 2 km | 10 km | | | | 1 d | 2 d | 7 d | 7 d | 14 d | 60 d | 0.01 1/km | 0.015 1/km | 0.02 1/km | Reasonable |
| Aerosol optical depth (VIS+IR) - Lower Stratosphere column | 1 km | 2 km | 10 km | | | | 1 d | 2 d | 7 d | 7 d | 14 d | 60 d | 0.01 1/km | 0.015 1/km | 0.02 1/km | Reasonable |
| Aerosol optical depth (VIS+IR) - Lower Troposphere column | 1 km | 2 km | 10 km | | | | 1 d | 2 d | 7 d | 7 d | 14 d | 60 d | 0.01 1/km | 0.015 1/km | 0.02 1/km | Reasonable |
| Aerosol profile - Higher stratosphere & mesosphere (HS & M) | 100 km | 171 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 10 % | 12.6 % | 20 % | Tentative |
| Aerosol profile - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 6 h | 18.2 h | 168 h | 720 h | 907.1 h | 1440 h | 10 % | 12.6 % | 20 % | Tentative |
| Aerosol profile - Higher troposphere (HT) | 100 km | 171 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 10 % | 12.6 % | 20 % | Tentative |
| Aerosol profile - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 1 km | 2.2 km | 10 km | 6 h | 18.2 h | 168 h | 720 h | 907.1 h | 1440 h | 10 % | 12.6 % | 20 % | Tentative |
| Aerosol profile - Lower stratosphere (LS) | 100 km | 171 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 10 % | 12.6 % | 20 % | Tentative |
| Aerosol profile - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 0.1 km | 0.215 km | 1 km | 6 h | 18.2 h | 168 h | 720 h | 907.1 h | 1440 h | 10 % | 12.6 % | 20 % | Tentative |
| Aerosol profile - Lower troposphere (LT) | 100 km | 171 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 10 % | 12.6 % | 20 % | Tentative |
| Air pressure over land surface | 200 km | 300 km | 500 km | | | | 3 h | 6 h | 24 h | 3 h | 6 h | 12 h | 0.5 hPa | 0.65 hPa | 1 hPa | Reasonable |
| Air pressure over sea surface | 200 km | 300 km | 500 km | | | | 3 h | 6 h | 24 h | 3 h | 6 h | 12 h | 0.5 hPa | 0.65 hPa | 1 hPa | Reasonable |
| Air specific humidity (at surface) | 25 km | 50 km | 100 km | | | | 3 h | 4 h | 6 h | 24 h | 48 h | 72 h | 1 % | 1.3 % | 2 % | Speculative |
| Air specific humidity (at surface) | 100 km | 171 km | 500 km | | | | 12 h | 15.1 h | 24 h | 24 h | 30.2 h | 48 h | 10 % | 12.6 % | 20 % | Tentative |
| Air temperature (at surface) | 25 km | 50 km | 100 km | | | | 3 h | 6 h | 12 h | 24 h | 36 h | 48 h | 0.1 K | 0.15 K | 0.3 K | Firm |

| "Requirement" | "Hor Res Go" | "HR B/T" | "HR T/H" | "Vert Res Go" | "VR B/T" | "VR T/H" | "Obs Cycle" | "OC B/T" | "OC T/H" | "Delay of a" | "DA B/T" | "DA T/H" | "Acc - RMS" | "AC B/T" | "AC T/H" | "CF_NAME" |
|--|--------------|----------|----------|---------------|----------|----------|-------------|----------|----------|--------------|----------|----------|-------------|--------------|------------|------------|
| Air temperature (at surface) | 100 km | 171 km | 500 km | | | | 12 h | 15.1 h | 24 h | 24 h | 30.2 h | 48 h | 0.2 K | 0.271 K | 0.5 K | Tentative |
| Air-sea delta pCO2 | 5 km | 10 km | 50 km | | | | 1 d | 3 d | 30 d | 30 d | 70 d | 360 d | 1 microatm | 1.5 microatm | 3 microatm | Reasonable |
| Albedo | 1 km | 2 km | 10 km | | | | 1 d | 3 d | 30 d | 30 d | 45 d | 90 d | 5 % (Max) | 7 % (Max) | 10 % (Max) | Reasonable |
| Atmospheric temperature profile - Higher stratosphere & mesosphere | 100 km | 200 km | 500 km | 2 km | 2.5 km | 3 km | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 0.5 K | 1 K | 3 K | Firm |
| Atmospheric temperature profile - Higher stratosphere & mesosphere | 50 km | 107.7 km | 500 km | 5 km | 6.3 km | 10 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 1 K | 1.4 K | 3 K | Reasonable |
| Atmospheric temperature profile - Higher stratosphere & mesosphere | 50 km | 107.7 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 0.5 K | 0.63 K | 1 K | Reasonable |
| Atmospheric temperature profile - Higher troposphere (HT) | 100 km | 200 km | 500 km | 0.1 km | 0.2 km | 0.5 km | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 0.5 K | 1 K | 2 K | Firm |
| Atmospheric temperature profile - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 1 km | 1.4 km | 3 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 0.5 K | 0.909 K | 3 K | Reasonable |
| Atmospheric temperature profile - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 0.5 K | 0.63 K | 1 K | Reasonable |
| Atmospheric temperature profile - Lower stratosphere (LS) | 100 km | 200 km | 500 km | 2 km | 2.5 km | 3 km | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 0.5 K | 1 K | 2 K | Firm |
| Atmospheric temperature profile - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 1 km | 1.4 km | 3 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 0.5 K | 0.909 K | 3 K | Reasonable |
| Atmospheric temperature profile - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 0.5 K | 0.63 K | 1 K | Reasonable |
| Atmospheric temperature profile - Lower troposphere (LT) | 100 km | 200 km | 500 km | 0.1 km | 0.2 km | 0.5 km | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 0.5 K | 1 K | 2 K | Firm |
| Atmospheric temperature profile - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 0.3 km | 0.646 km | 3 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 0.5 K | 0.909 K | 3 K | Reasonable |
| Atmospheric temperature profile - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 0.5 K | 0.63 K | 1 K | Reasonable |
| Biomass | 0.01 km | 0.1 km | 10 km | | | | 360 d | 450 d | 720 d | 30 d | 45 d | 90 d | 5 t/ha | 7 t/ha | 10 t/ha | Reasonable |
| Cloud base height | 50 km | 85.5 km | 250 km | | | | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 0.5 km | 0.794 km | 2 km | Tentative |
| Cloud cover | 99 km | 100 km | 500 km | | | | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 10 % (Max) | 15 % (Max) | 20 % (Max) | Firm |
| Cloud cover | 50 km | 85.5 km | 250 km | | | | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Reasonable |
| Cloud ice profile - Higher stratosphere & mesosphere (HS & M) | 50 km | 85.5 km | 250 km | 1 km | 1.7 km | 5 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud ice profile - Higher troposphere (HT) | 50 km | 85.5 km | 250 km | 1 km | 1.7 km | 5 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud ice profile - Lower stratosphere (LS) | 50 km | 85.5 km | 250 km | 1 km | 1.7 km | 5 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud ice profile - Lower troposphere (LT) | 50 km | 85.5 km | 250 km | 1 km | 1.3 km | 2 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud ice profile - Total column | 100 km | 200 km | 500 km | | | | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 10 g/m2 | 15 g/m2 | 20 g/m2 | Firm |

| "Requirement" | Hor Res Go | "HR B/T" | "HR T/H" | Vert Res Go | "VR B/T" | "VR T/H" | Obs Cycle | "OC B/T" | "OC T/H" | "Delay of a | "DA B/T" | "DA T/H" | Acc - RMS | "AC B/T" | "AC T/H" | CF_NAME |
|--|------------|----------|----------|-------------|----------|----------|-----------|----------|----------|-------------|----------|----------|-----------|------------|------------|------------|
| Cloud ice profile - Total column | 50 km | 85.5 km | 250 km | | | | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 10 g/m2 | 12.6 g/m2 | 20 g/m2 | Tentative |
| Cloud optical thickness | 100 km | 171 km | 500 km | | | | 12 h | 15.1 h | 24 h | 24 h | 30.2 h | 48 h | 15 % | 18.9 % | 30 % | Reasonable |
| Cloud top height | 100 km | 200 km | 500 km | | | | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 0.5 km | 1 km | 2 km | Firm |
| Cloud top height | 100 km | 171 km | 500 km | | | | 12 h | 15.1 h | 24 h | 24 h | 30.2 h | 48 h | 0.5 km | 0.63 km | 1 km | Reasonable |
| Cloud top temperature | 100 km | 200 km | 500 km | | | | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 0.3 K | 0.4 K | 0.6 K | Firm |
| Cloud top temperature | 50 km | 85.5 km | 250 km | | | | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 0.5 K | 0.794 K | 2 K | Reasonable |
| Cloud water profile (< 100 μm) - Higher troposphere (HT) | 50 km | 85.5 km | 250 km | 1 km | 2.2 km | 10 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud water profile (< 100 μm) - Lower troposphere (LT) | 50 km | 85.5 km | 250 km | 1 km | 1.7 km | 5 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud water profile (< 100 μm) - Total column | 100 km | 200 km | 500 km | | | | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 10 kg/m2 | 20 kg/m2 | 50 kg/m2 | Firm |
| Cloud water profile (< 100 μm) - Total column | 50 km | 85.5 km | 250 km | | | | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 10 kg/m2 | 17.1 kg/m2 | 50 kg/m2 | Tentative |
| Cloud water profile (> 100 μm) - Higher troposphere (HT) | 50 km | 85.5 km | 250 km | 1 km | 2.2 km | 10 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud water profile (> 100 μm) - Lower troposphere (LT) | 50 km | 85.5 km | 250 km | 1 km | 1.7 km | 5 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 5 % | 7.9 % | 20 % | Tentative |
| Cloud water profile (> 100 μm) - Total column | 100 km | 200 km | 500 km | | | | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 5 kg/m2 | 10 kg/m2 | 20 kg/m2 | Firm |
| Cloud water profile (> 100 μm) - Total column | 50 km | 85.5 km | 250 km | | | | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 10 kg/m2 | 17.1 kg/m2 | 50 kg/m2 | Tentative |
| Coastal sea level change | 25 km | 100 km | 1000 km | | | | 24 h | 50 h | 240 h | 1 h | 3 h | 24 h | 1 cm | 2 cm | 10 cm | Reasonable |
| Downwelling long-wave radiation at the Earth surface | 25 km | 50 km | 100 km | | | | 3 h | 4 h | 6 h | 24 h | 48 h | 120 h | 5 W/m2 | 6.5 W/m2 | 10 W/m2 | Firm |
| Downwelling short-wave radiation at the Earth surface | 25 km | 50 km | 100 km | | | | 24 h | 48 h | 120 h | 24 h | 72 h | 720 h | 5 W/m2 | 6.5 W/m2 | 10 W/m2 | Firm |
| Downwelling solar radiation at TOA | 100 km | 200 km | 500 km | | | | 3 d | 4 d | 6 d | 3 d | 7 d | 24 d | 1 W/m2 | 1.3 W/m2 | 2 W/m2 | Reasonable |
| Downwelling solar radiation at TOA | 25 km | 39.7 km | 100 km | | | | 1 d | 1.8 d | 6 d | 30 d | 43.3 d | 90 d | 0.1 W/m2 | 0.215 W/m2 | 1 W/m2 | Reasonable |
| Fire area | 0.25 km | 0.85 km | 10 km | | | | 1 d | 1.5 d | 3 d | 360 d | 450 d | 720 d | 5 % (Max) | 7 % (Max) | 10 % (Max) | Reasonable |
| Fractional Photosynthetically Active Radiation (fAPAR) | 0.25 km | 0.5 km | 2 km | | | | 1 d | 3 d | 30 d | 10 d | 15 d | 30 d | 5 % (Max) | 7 % (Max) | 10 % (Max) | Firm |
| Glacier cover | 30 m | 45 m | 100 m | | | | 1 y | 1.5 y | 5 y | 360 d | 450 d | 720 d | 5 % (Max) | 7 % (Max) | 10 % (Max) | Firm |
| Glacier topography | 30 m | 45 m | 100 m | | | | 1 y | 1.5 y | 5 y | 360 d | 450 d | 720 d | 10 cm | 22 cm | 100 cm | Firm |
| Ground water | 1 km | 2 km | 10 km | | | | 30 d | 70 d | 360 d | 30 d | 45 d | 90 d | 5 % (Max) | 7 % (Max) | 10 % (Max) | Firm |

| "Requirement" | "Hor Res Go" | "HR B/T" | "HR T/H" | "Vert Res Go" | "VR B/T" | "VR T/H" | "Obs Cycle" | "OC B/T" | "OC T/H" | "Delay of a" | "DA B/T" | "DA T/H" | "Acc - RMS" | "AC B/T" | "AC T/H" | CF_NAME |
|--|--------------|----------|----------|---------------|----------|----------|-------------|----------|----------|--------------|----------|----------|---------------|----------------|---------------|-------------|
| Iceberg fractional cover | 1 km | 2.2 km | 10 km | | | | 365 d | 584.6 d | 1500 d | 30 d | 43.3 d | 90 d | 10 % (Max) | 12.6 % (Max) | 20 % (Max) | Tentative |
| Iceberg height | 1 km | 2.2 km | 10 km | | | | 365 d | 584.6 d | 1500 d | 30 d | 43.3 d | 90 d | 1 m | 1.4 m | 3 m | Tentative |
| Ice-sheet topography | 0.01 km | 0.015 km | 0.05 km | | | | 1 y | 2 y | 10 y | 360 d | 450 d | 720 d | 10 cm (vert.) | 15 cm (vert.) | 20 cm (vert.) | Speculative |
| Ice-sheet topography | 0.1 km | 0.171 km | 0.5 km | | | | 10 y | 11.4 y | 15 y | 30 d | 43.3 d | 90 d | 5 cm (vert.) | 6.3 cm (vert.) | 10 cm (vert.) | Tentative |
| Lake level | 4 km | 8 km | 40 km | | | | 30 d | 45 d | 90 d | 30 d | 45 d | 90 d | 10 cm | 15 cm | 20 cm | Reasonable |
| Lake surface temperature | 1 km | 2 km | 10 km | | | | 1 d | 2 d | 10 d | 30 d | 45 d | 90 d | 0.2 K | 0.3 K | 0.4 K | Firm |
| Land cover | 250 m | 400 m | 1000 m | | | | 1 y | 1.5 y | 5 y | 1 d | 7 d | 360 d | 50 classes | 25 classes | 5 classes | Firm |
| Land surface imagery | 250 m | 550 m | 2500 m | | | | 30 d | 45 d | 90 d | 30 d | 45 d | 90 d | | | | Firm |
| Land surface temperature | 1 km | 10 km | 500 km | | | | 24 h | 48 h | 72 h | 3 h | 4 h | 6 h | 1 K | 1.3 K | 2 K | Firm |
| Land surface temperature | 50 km | 85.5 km | 250 km | | | | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 1 K | 1.6 K | 4 K | Reasonable |
| Land surface topography | 250 m | 850 m | 10000 m | | | | 5 y | 6 y | 10 y | 360 d | 450 d | 720 d | 1 m (vert.) | 2 m (vert.) | 10 m (vert.) | Firm |
| Leaf Area Index (LAI) | 0.25 km | 0.85 km | 10 km | | | | 1 d | 3 d | 30 d | 30 d | 45 d | 90 d | 5 % (Max) | 7 % (Max) | 10 % (Max) | Tentative |
| Ocean carbon content change | 50 km | 60 km | 100 km | 10 | 13 | 20 | 5 y | 6 y | 10 y | 1 y | 1.3 y | 2 y | DIC/μmol/kg | DIC/μmol/kg | DIC/μmol/kg | Reasonable |
| Ocean chlorophyll | 1 km | 5 km | 100 km | | | | 1 d | 1.5 d | 3 d | 1 d | 1.5 d | 3 d | 5 % (Max) | 8.5 % (Max) | 25 % (Max) | Firm |
| Ocean chlorophyll | 100 km | 171 km | 500 km | | | | 1 d | 1.8 d | 6 d | 30 d | 43.3 d | 90 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Speculative |
| Ocean dynamic topography | 25 km | 50 km | 250 km | | | | 1 d | 3 d | 30 d | 0.125 d | 0.25 d | 1 d | 1 cm | 1.5 cm | 5 cm | Firm |
| Ocean dynamic topography | 100 km | 126 km | 200 km | | | | 5 d | 6.3 d | 10 d | 10 d | 14.4 d | 30 d | 2 cm | 2.7 cm | 5 cm | Speculative |
| Ocean salinity - Deep-ocean | 50 km | 60 km | 100 km | 2 | 2.5 | 4 | 30 d | 70 d | 360 d | 60 d | 110 d | 360 d | 0.002 psu | 0.003 psu | 0.005 psu | Reasonable |
| Ocean salinity - Upper-ocean | 15 km | 40 km | 300 km | 1 m | 2 m | 10 m | 1 d | 2 d | 10 d | 0.5 h | 0.6 h | 1 h | 0.001 psu | 0.002 psu | 0.01 psu | Reasonable |
| Ocean surface salinity | 100 km | 170 km | 500 km | | | | 7 d | 11 d | 30 d | 10 d | 15 d | 30 d | 0.05 psu | 0.09 psu | 0.3 psu | Firm |
| Ocean surface salinity | 100 km | 135.7 km | 250 km | | | | 30 d | 37.8 d | 60 d | 9 d | 21.3 d | 120 d | 0.1 psu | 0.144 psu | 0.3 psu | Reasonable |
| Ocean suspended sediment concentration | 100 km | 171 km | 500 km | | | | 1 d | 1.8 d | 6 d | 30 d | 43.3 d | 90 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Speculative |
| Ocean temperature - Deep-ocean | 50 km | 60 km | 100 km | 2 | 2.5 | 4 | 30 d | 150 d | 3600 d | 60 d | 110 d | 360 d | 0.002 K | 0.003 K | 0.005 K | Reasonable |
| Ocean temperature - Upper-ocean | 1 km | 6 km | 300 km | 1 m | 2 m | 10 m | 1 d | 2 d | 10 d | 0.5 h | 0.6 h | 1 h | 0.001 K | 0.002 K | 0.01 K | Reasonable |

| "Requirement" | Hor Res Go | "HR B/T" | "HR T/H" | Vert Res Go | "VR B/T" | "VR T/H" | Obs Cycle | "OC B/T" | "OC T/H" | "Delay of a | "DA B/T" | "DA T/H" | Acc - RMS | "AC B/T" | "AC T/H" | CF_NAME |
|---|------------|----------|----------|-------------|----------|----------|-----------|----------|----------|-------------|----------|----------|-----------|-------------|------------|-------------|
| Ocean yellow substance absorbance | 100 km | 171 km | 500 km | | | | 1 d | 1.8 d | 6 d | 30 d | 43.3 d | 90 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Speculative |
| Outgoing long-wave Earth surface | 25 km | 50 km | 100 km | | | | 3 h | 4 h | 6 h | 24 h | 48 h | 120 h | 5 W/m2 | 6.5 W/m2 | 10 W/m2 | Speculative |
| Outgoing long-wave radiation at TOA | 100 km | 200 km | 500 km | | | | 3 h | 4 h | 6 h | 3 h | 6 h | 24 h | 5 W/m2 | 6.5 W/m2 | 10 W/m2 | Firm |
| Outgoing long-wave radiation at TOA | 50 km | 85.5 km | 250 km | | | | 3 h | 3.8 h | 6 h | 720 h | 1038.4 h | 2160 h | 5 W/m2 | 6.3 W/m2 | 10 W/m2 | Reasonable |
| Outgoing short-wave radiation at TOA | 100 km | 200 km | 500 km | | | | 3 h | 4 h | 6 h | 3 h | 6 h | 24 h | 5 W/m2 | 6.5 W/m2 | 10 W/m2 | Firm |
| Outgoing short-wave radiation at TOA | 50 km | 85.5 km | 250 km | | | | 3 h | 3.8 h | 6 h | 720 h | 1038.4 h | 2160 h | 5 W/m2 | 6.3 W/m2 | 10 W/m2 | Reasonable |
| Ozone profile - Higher stratosphere & mesosphere (HS & M) | 50 km | 100 km | 500 km | 0.5 km | 1 km | 3 km | 3 h | 9 h | 48 h | 720 h | 1440 h | 4520 h | 5 % | 8 % | 20 % | Firm |
| Ozone profile - Higher stratosphere & mesosphere (HS & M) | 50 km | 107.7 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 5 % | 6.3 % | 10 % | Reasonable |
| Ozone profile - Higher troposphere (HT) | 5 km | 20 km | 100 km | 0.5 km | 1 km | 2 km | 3 h | 9 h | 72 h | 720 h | 1440 h | 4520 h | 10 % | 15 % | 30 % | Firm |
| Ozone profile - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 5 % | 6.3 % | 10 % | Reasonable |
| Ozone profile - Lower stratosphere (LS) | 50 km | 75 km | 100 km | 0.5 km | 1 km | 3 km | 3 h | 9 h | 72 h | 720 h | 1440 h | 4520 h | 5 % | 8 % | 20 % | Firm |
| Ozone profile - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 5 % | 6.3 % | 10 % | Reasonable |
| Ozone profile - Lower troposphere (LT) | 5 km | 10 km | 50 km | 0.5 km | 1 km | 2 km | 3 h | 9 h | 72 h | 720 h | 1440 h | 4520 h | 10 % | 13 % | 20 % | Firm |
| Ozone profile - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 5 % | 6.3 % | 10 % | Reasonable |
| Ozone profile - Total column | 5 km | 10 km | 50 km | | | | 3 h | 9 h | 72 h | 720 h | 1440 h | 4520 h | 5 DU | 8 DU | 15 DU | Firm |
| Ozone profile - Troposphere column | 5 km | 10 km | 50 km | | | | 3 h | 9 h | 72 h | 720 h | 1440 h | 4520 h | 5 DU | 8 DU | 15 DU | Firm |
| Permafrost | 0.25 km | 0.85 km | 10 km | | | | 1 d | 1.5 d | 5 d | 1 d | 1.5 d | 5 d | 5 % (Max) | 7 % (Max) | 10 % (Max) | Firm |
| Precipitation index (daily cumulative) | 100 km | 200 km | 500 km | | | | 12 h | 16 h | 24 h | 24 h | 72 h | 288 h | 1 mm/d | 1.3 mm/d | 2 mm/d | Firm |
| Precipitation index (daily cumulative) | 50 km | 85.5 km | 250 km | | | | 1 h | 2.3 h | 12 h | 720 h | 907.1 h | 1440 h | 0.5 mm/d | 1.077 mm/d | 5 mm/d | Reasonable |
| Precipitation rate (liquid) at the surface | 100 km | 200 km | 500 km | | | | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 0.1 mm/h | 0.3 mm/h | 2 mm/h | Firm |
| Precipitation rate (solid) at the surface | 100 km | 200 km | 500 km | | | | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 0.1 mm/h | 0.3 mm/h | 2 mm/h | Firm |
| River discharge | 10 km | 20 km | 100 km | | | | 1 d | 2 d | 7 d | 30 d | 45 d | 90 d | 5 % (Max) | 7 % (Max) | 10 % (Max) | Reasonable |
| Sea surface temperature | 10 km | 50 km | 500 km | | | | 3 h | 6 h | 24 h | 3 h | 6 h | 12 h | 0.25 K | 0.4 K | 1 K | Firm |
| Sea surface temperature | 1 km | 8 km | 500 km | | | | 1 h | 3 h | 24 h | 3 h | 5 h | 12 h | 0.1 K | 0.126 K | 0.2 K | Reasonable |

| "Requirement" | "Hor Res Go" | "HR B/T" | "HR T/H" | "Vert Res Go" | "VR B/T" | "VR T/H" | "Obs Cycle" | "OC B/T" | "OC T/H" | "Delay of a" | "DA B/T" | "DA T/H" | "Acc - RMS" | "AC B/T" | "AC T/H" | CF_NAME |
|---|--------------|----------|----------|---------------|----------|----------|-------------|----------|----------|--------------|----------|----------|-------------|--------------|------------|-------------|
| Sea surface temperature | 50 km | 85.5 km | 250 km | | | | 1 h | 2.3 h | 12 h | 720 h | 907.1 h | 1440 h | 0.5 K | 0.794 K | 2 K | Reasonable |
| Sea surface temperature | 25 km | 39.7 km | 100 km | | | | 24 h | 30.2 h | 48 h | 720 h | 907.1 h | 1440 h | 0.5 K | 0.794 K | 2 K | Reasonable |
| Sea surface temperature | 10 km | 17.1 km | 50 km | | | | 3 h | 3.8 h | 6 h | 24 h | 34.6 h | 72 h | 0.1 K | 0.144 K | 0.3 K | Reasonable |
| Sea-ice cover | 12 km | 25 km | 100 km | | | | 1 d | 2 d | 7 d | 0.125 d | 0.25 d | 1 d | 5 % (Max) | 6 % (Max) | 10 % (Max) | Firm |
| Sea-ice cover | 15 km | 38.3 km | 250 km | | | | 1 d | 2.5 d | 15 d | 30 d | 43.3 d | 90 d | 5 % (Max) | 10.8 % (Max) | 50 % (Max) | Reasonable |
| Sea-ice cover | 25 km | 39.7 km | 100 km | | | | 1 d | 1.9 d | 7 d | 7 d | 11.4 d | 30 d | 5 % (Max) | 6.3 % (Max) | 10 % (Max) | Reasonable |
| Sea-ice cover | 15 km | 22.4 km | 50 km | | | | 1 d | 1.4 d | 3 d | 3 d | 4 d | 7 d | 2 % (Max) | 2.7 % (Max) | 5 % (Max) | Reasonable |
| Sea-ice surface temperature | 100 km | 171 km | 500 km | | | | 12 h | 15.1 h | 24 h | 24 h | 30.2 h | 48 h | 1 K | 1.3 K | 2 K | Reasonable |
| Sea-ice thickness | 100 km | 170 km | 500 km | | | | 1 d | 2 d | 7 d | 1 d | 3 d | 24 d | 0.1 cm | 0.2 cm | 1 cm | Reasonable |
| Sea-ice thickness | 200 km | 271.4 km | 500 km | | | | 7 d | 11.4 d | 30 d | 30 d | 43.3 d | 90 d | 100 cm | 126 cm | 200 cm | Tentative |
| Short-wave Earth surface bi-directional reflectance | 25 km | 50 km | 100 km | | | | 3 h | 4 h | 6 h | 24 h | 48 h | 120 h | 5 % (Max) | 6.5 % (Max) | 10 % (Max) | Speculative |
| Significant wave height | 25 km | 50 km | 250 km | | | | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 0.1 m | 0.3 m | 2 m | Firm |
| Significant wave height | 100 km | 135.7 km | 250 km | | | | 12 h | 15.1 h | 24 h | 720 h | 907.1 h | 1440 h | 0.5 m | 0.63 m | 1 m | Reasonable |
| Snow cover | 0.1 km | 0.45 km | 10 km | | | | 24 h | 75 h | 720 h | 30 h | 70 h | 360 h | 5 % (Max) | 7 % (Max) | 10 % (Max) | Firm |
| Snow cover | 100 km | 200 km | 500 km | | | | 24 h | 48 h | 168 h | 6 h | 12 h | 24 h | 10 % (Max) | 13 % (Max) | 20 % (Max) | Firm |
| Snow cover | 15 km | 38.3 km | 250 km | | | | 24 h | 45.9 h | 168 h | 720 h | 1038.4 h | 2160 h | 10 % (Max) | 17.1 % (Max) | 50 % (Max) | Reasonable |
| Snow cover | 1 km | 2.9 km | 25 km | | | | 24 h | 41 h | 120 h | 168 h | 272.9 h | 720 h | 10 % (Max) | 12.6 % (Max) | 20 % (Max) | Reasonable |
| Snow water equivalent | 100 km | 200 km | 500 km | | | | 24 h | 48 h | 168 h | 6 h | 12 h | 24 h | 5 mm | 6.5 mm | 10 mm | Firm |
| Snow water equivalent | 15 km | 38.3 km | 250 km | | | | 12 h | 28.9 h | 168 h | 720 h | 1038.4 h | 2160 h | 5 mm | 7.9 mm | 20 mm | Tentative |
| Snow water equivalent | 10 km | 13.6 km | 25 km | | | | 24 h | 41 h | 120 h | 168 h | 272.9 h | 720 h | 5 mm | 7.9 mm | 20 mm | Tentative |
| Soil moisture | 50 km | 60 km | 100 km | | | | 7 d | 11 d | 30 d | 360 d | 450 d | 720 d | 5 g/kg | 7 g/kg | 10 g/kg | Speculative |
| Soil moisture | 15 km | 38.3 km | 250 km | | | | 1 d | 2.2 d | 10 d | 10 d | 14.4 d | 30 d | 10 g/kg | 17.1 g/kg | 50 g/kg | Tentative |
| Specific humidity profile - Higher stratosphere & mesosphere (HS & M) | 50 km | 100 km | 200 km | 2 km | 3 km | 5 km | 3 h | 4 h | 6 h | 168 h | 336 h | 1440 h | 2 % | 5 % | 20 % | Firm |
| Specific humidity profile - Higher stratosphere & mesosphere (HS & M) | 50 km | 85.5 km | 250 km | 1 km | 1.4 km | 3 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 5 % | 7.9 % | 20 % | Reasonable |

| "Requirement" | Hor Res Go | "HR B/T" | "HR T/H" | Vert Res Go | "VR B/T" | "VR T/H" | Obs Cycle | "OC B/T" | "OC T/H" | "Delay of a | "DA B/T" | "DA T/H" | Acc - RMS | "AC B/T" | "AC T/H" | CF_NAME |
|---|------------|----------|----------|-------------|----------|----------|-----------|----------|----------|-------------|----------|----------|-----------|-----------|----------|------------|
| Specific humidity profile - Higher stratosphere & mesosphere (HS & M) | 50 km | 107.7 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 2 % | 2.7 % | 5 % | Reasonable |
| Specific humidity profile - Higher troposphere (HT) | 20 km | 50 km | 100 km | 0.1 km | 0.5 km | 2 km | 3 h | 4 h | 6 h | 168 h | 336 h | 1440 h | 2 % | 5 % | 20 % | Firm |
| Specific humidity profile - Higher troposphere (HT) | 50 km | 63 km | 100 km | 0.5 km | 0.794 km | 2 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 5 % | 7.9 % | 20 % | Reasonable |
| Specific humidity profile - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 2 % | 2.7 % | 5 % | Reasonable |
| Specific humidity profile - Lower stratosphere (LS) | 50 km | 100 km | 200 km | 2 km | 2.5 km | 3 km | 3 h | 4 h | 6 h | 168 h | 336 h | 1440 h | 2 % | 5 % | 20 % | Firm |
| Specific humidity profile - Lower stratosphere (LS) | 50 km | 85.5 km | 250 km | 0.5 km | 0.794 km | 2 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 5 % | 7.9 % | 20 % | Reasonable |
| Specific humidity profile - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 2 % | 2.7 % | 5 % | Reasonable |
| Specific humidity profile - Lower troposphere (LT) | 10 km | 15 km | 25 km | 0.1 km | 0.2 km | 1 km | 3 h | 4 h | 6 h | 168 h | 336 h | 1440 h | 2 % | 4 % | 15 % | Firm |
| Specific humidity profile - Lower troposphere (LT) | 50 km | 63 km | 100 km | 0.5 km | 0.794 km | 2 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 5 % | 7.9 % | 20 % | Reasonable |
| Specific humidity profile - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 2 % | 2.7 % | 5 % | Reasonable |
| Specific humidity profile - Total column | 50 km | 100 km | 200 km | | | | 3 h | 4 h | 6 h | 168 h | 336 h | 1440 h | 1 kg/m2 | 1.4 kg/m2 | 3 kg/m2 | Firm |
| Specific humidity profile - Troposphere column | 10 km | 25 km | 200 km | | | | 3 h | 4 h | 6 h | 168 h | 336 h | 1440 h | 1 kg/m2 | 1.4 kg/m2 | 3 kg/m2 | Reasonable |
| Trace gas profile CH4 - Higher stratosphere & mesosphere (HS & M) | 50 km | 100 km | 250 km | 2 km | 2.5 km | 4 km | 3 h | 4 h | 6 h | 720 h | 1440 h | 4320 h | 2 % | 4 % | 10 % | Firm |
| Trace gas profile CH4 - Higher troposphere (HT) | 50 km | 100 km | 250 km | 2 km | 2.5 km | 4 km | 3 h | 4 h | 6 h | 720 h | 1440 h | 4320 h | 2 % | 4 % | 10 % | Firm |
| Trace gas profile CH4 - Lower stratosphere (LS) | 50 km | 100 km | 250 km | 2 km | 2.5 km | 4 km | 3 h | 4 h | 6 h | 720 h | 1440 h | 4320 h | 2 % | 4 % | 10 % | Firm |
| Trace gas profile CH4 - Lower troposphere (LT) | 10 km | 20 km | 50 km | 2 km | 2.5 km | 3 km | 3 h | 4 h | 6 h | 720 h | 1440 h | 4320 h | 2 % | 4 % | 10 % | Firm |
| Trace gas profile CH4 - Total column | 10 km | 50 km | 250 km | | | | 3 h | 4 h | 6 h | 720 h | 1440 h | 4320 h | 2 % | 4 % | 10 % | Reasonable |
| Trace gas profile CH4 - Troposphere column | 10 km | 20 km | 50 km | | | | 3 h | 4 h | 6 h | 720 h | 1440 h | 4320 h | 2 % | 4 % | 10 % | Reasonable |
| Trace gas profile CO2 - Higher troposphere (HT) | 50 km | 100 km | 250 km | 1 km | 1.5 km | 2 km | 3 h | 4 h | 6 h | 168 h | 336 h | 1440 h | 1 % | 1.3 % | 2 % | Reasonable |
| Trace gas profile CO2 - Higher stratosphere & mesosphere (HS & M) | 250 km | 350 km | 500 km | 2 km | 3 km | 4 km | 3 h | 4 h | 6 h | 720 h | 1440 h | 4320 h | 1 % | 1.3 % | 2 % | Reasonable |
| Trace gas profile CO2 - Lower stratosphere (LS) | 250 km | 350 km | 500 km | 1 km | 2 km | 4 km | 3 h | 4 h | 6 h | 720 h | 1440 h | 4320 h | 1 % | 1.3 % | 2 % | Reasonable |
| Trace gas profile CO2 - Lower troposphere (LT) | 10 km | 50 km | 500 km | 0.5 km | 1 km | 2 km | 3 h | 6 h | 12 h | 168 h | 336 h | 1440 h | 1 % | 1.3 % | 2 % | Firm |
| Trace gas profile CO2 - Total column | 50 km | 100 km | 500 km | | | | 3 h | 4 h | 6 h | 720 h | 1440 h | 4320 h | 1 % | 1.3 % | 2 % | Reasonable |
| Trace gas profile CO2 - Troposphere column | 10 km | 50 km | 500 km | | | | 3 h | 4 h | 6 h | 168 h | 336 h | 1440 h | 1 % | 1.3 % | 2 % | Reasonable |

| "Requirement" | "Hor Res Go" | "HR B/T" | "HR T/H" | "Vert Res Go" | "VR B/T" | "VR T/H" | "Obs Cycle" | "OC B/T" | "OC T/H" | "Delay of a" | "DA B/T" | "DA T/H" | "Acc - RMS" | "AC B/T" | "AC T/H" | "CF_NAME" |
|--|--------------|----------|----------|---------------|----------|----------|-------------|----------|----------|--------------|----------|----------|-------------|-----------|------------|------------|
| Wetland extent | 0.25 km | 0.85 km | 10 km | | | | 7 d | 11 d | 30 d | 30 d | 45 d | 90 d | 5 % (Max) | 7 % (Max) | 10 % (Max) | Reasonable |
| Wind profile (horizontal component) - Higher stratosphere & mesosphere | 100 km | 200 km | 500 km | 0.5 km | 1 km | 3 km | 3 h | 3.8 h | 6 h | 3 h | 6 h | 12 h | 2 m/s | 3 m/s | 7 m/s | Firm |
| Wind profile (horizontal component) - Higher stratosphere & mesosphere | 50 km | 107.7 km | 500 km | 2 km | 2.7 km | 5 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 3 m/s | 3.6 m/s | 5 m/s | Reasonable |
| Wind profile (horizontal component) - Higher stratosphere & mesosphere | 200 km | 271.4 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 3 m/s | 3.6 m/s | 5 m/s | Reasonable |
| Wind profile (horizontal component) - Higher troposphere (HT) | 100 km | 200 km | 500 km | 0.5 km | 0.65 km | 1 km | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 2 m/s | 3 m/s | 5 m/s | Firm |
| Wind profile (horizontal component) - Higher troposphere (HT) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 2 m/s | 2.7 m/s | 5 m/s | Reasonable |
| Wind profile (horizontal component) - Higher troposphere (HT) | 200 km | 271.4 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 3 m/s | 3.6 m/s | 5 m/s | Reasonable |
| Wind profile (horizontal component) - Lower stratosphere (LS) | 100 km | 200 km | 500 km | 0.5 km | 0.65 km | 1 km | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 2 m/s | 3 m/s | 5 m/s | Firm |
| Wind profile (horizontal component) - Lower stratosphere (LS) | 50 km | 107.7 km | 500 km | 1 km | 1.7 km | 5 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 2 m/s | 2.7 m/s | 5 m/s | Reasonable |
| Wind profile (horizontal component) - Lower stratosphere (LS) | 200 km | 271.4 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 3 m/s | 3.6 m/s | 5 m/s | Reasonable |
| Wind profile (horizontal component) - Lower troposphere (LT) | 100 km | 200 km | 500 km | 0.5 km | 1 km | 2 km | 3 h | 4 h | 6 h | 3 h | 6 h | 12 h | 2 m/s | 3 m/s | 5 m/s | Firm |
| Wind profile (horizontal component) - Lower troposphere (LT) | 50 km | 107.7 km | 500 km | 0.3 km | 0.766 km | 5 km | 3 h | 4.8 h | 12 h | 720 h | 907.1 h | 1440 h | 2 m/s | 2.7 m/s | 5 m/s | Reasonable |
| Wind profile (horizontal component) - Lower troposphere (LT) | 200 km | 271.4 km | 500 km | 0.5 km | 0.794 km | 2 km | 6 h | 13.7 h | 72 h | 24 h | 45.9 h | 168 h | 3 m/s | 3.6 m/s | 5 m/s | Reasonable |
| Wind speed over sea surface (horizontal) | 10 km | 40 km | 500 km | | | | 1 h | 3 h | 24 h | 1 h | 2 h | 12 h | 0.5 m/s | 0.6 m/s | 1 m/s | Reasonable |
| Wind vector over sea surface (horizontal) | 10 km | 20 km | 100 km | | | | 1 h | 3 h | 24 h | 3 h | 5 h | 12 h | 0.5 m/s | 1 m/s | 5 m/s | Firm |
| Wind vector over sea surface (horizontal) | 10 km | 50 km | 500 km | | | | 1 h | 3 h | 6 h | 3 h | 6 h | 12 h | 0.5 m/s | 1 m/s | 5 m/s | Firm |
| Wind vector over sea surface (horizontal) | 50 km | 85.5 km | 250 km | | | | 12 h | 15.1 h | 24 h | 720 h | 907.1 h | 1440 h | 1 m/s | 1.7 m/s | 5 m/s | Reasonable |
| Wind vector over sea surface (horizontal) | 25 km | 39.7 km | 100 km | | | | 12 h | 15.1 h | 24 h | 720 h | 907.1 h | 1440 h | 1 m/s | 1.7 m/s | 5 m/s | Reasonable |
| Wind vector over sea surface (horizontal) | 50 km | 85.5 km | 250 km | | | | 12 h | 15.1 h | 24 h | 72 h | 95.5 h | 168 h | 1 m/s | 1.7 m/s | 5 m/s | Reasonable |

| "Requirement" | "Hor Res Go" | "HR B/T" | "HR T/H" | "Vert Res Go" | "VR B/T" | "VR T/H" | "Obs Cycle" | "OC B/T" | "OC T/H" | "Delay of a" | "DA B/T" | "DA T/H" | "Acc - RMS" | "AC B/T" | "AC T/H" | "CF_NAME" |
|--|--------------|----------|----------|---------------|----------|----------|-------------|----------|----------|--------------|----------|----------|-------------|---------------|-------------|-----------|
| Aerosol (total column) size | 4 km | 9.3 km | 50 km | | | | 24 h | 30.2 h | 48 h | 3 h | 4 h | 7 h | 0.1 µm | 0.215 µm | 1 µm | Firm |
| Aerosol (total column) size | 1 km | 2.2 km | 10 km | | | | 24 h | 30.2 h | 48 h | 3 h | 4 h | 7 h | 0.1 µm | 0.215 µm | 1 µm | Firm |
| Air pressure over sea surface | 50 km | 63 km | 100 km | | | | 24 h | 30.2 h | 48 h | 3 h | 4 h | 7 h | 10 hPa | 11.4 hPa | 15 hPa | Firm |
| Dominant wave direction | 10 km | 14.4 km | 30 km | | | | 1 h | 1.8 h | 6 h | 2 h | 2.5 h | 4 h | 10 degrees | 12.6 degrees | 20 degrees | Firm |
| Dominant wave period | 10 km | 14.4 km | 30 km | | | | 1 h | 1.8 h | 6 h | 2 h | 2.5 h | 4 h | 0.5 s | 0.63 s | 1 s | Firm |
| Fractional Photosynthetically Active Radiation (fAPAR) | 10 km | 17.1 km | 50 km | | | | 0.04 d | 0.117 d | 1 d | 3 d | 4 d | 7 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Firm |
| Fractional Photosynthetically Active Radiation (fAPAR) | 1 km | 1.7 km | 5 km | | | | 0.04 d | 0.117 d | 1 d | 3 d | 4 d | 7 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Firm |
| Geoid | 250 km | 315 km | 500 km | | | | 240 mo | 274.7 mo | 360 mo | 12 y | 15.1 y | 24 y | 2 cm | 2.7 cm | 5 cm | Firm |
| Ocean chlorophyll | 10 km | 17.1 km | 50 km | | | | 1 d | 1.4 d | 3 d | 3 d | 4 d | 7 d | 0.1 % (Max) | 0.171 % (Max) | 0.5 % (Max) | Firm |
| Ocean chlorophyll | 1 km | 1.7 km | 5 km | | | | 1 d | 1.4 d | 3 d | 3 d | 4 d | 7 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Firm |
| Ocean chlorophyll | 25 km | 39.7 km | 100 km | | | | 1 d | 1.4 d | 3 d | 1 d | 1.4 d | 3 d | 0.1 % (Max) | 0.171 % (Max) | 0.5 % (Max) | Firm |
| Ocean dynamic topography | 100 km | 144.2 km | 300 km | | | | 10 d | 14.4 d | 30 d | 10 d | 14.4 d | 30 d | 2 cm | 2.7 cm | 5 cm | Firm |
| Ocean dynamic topography | 25 km | 39.7 km | 100 km | | | | 7 d | 11.4 d | 30 d | 2 d | 3.9 d | 15 d | 2 cm | 3.4 cm | 10 cm | Firm |
| Ocean surface salinity | 200 km | 271.4 km | 500 km | | | | 10 d | 14.4 d | 30 d | 10 d | 14.4 d | 30 d | 0.1 psu | 0.215 psu | 1 psu | Firm |
| Ocean yellow substance absorbance | 1 km | 1.7 km | 5 km | | | | 1 d | 1.3 d | 2 d | 3 d | 4 d | 7 d | 5 % (Max) | 7.9 % (Max) | 20 % (Max) | Firm |
| Ozone profile - Total column | 50 km | 79.4 km | 200 km | | | | 24 h | 30.2 h | 48 h | 3 h | 4 h | 7 h | 10 DU | 12.6 DU | 20 DU | Firm |
| Sea surface temperature | 10 km | 17.1 km | 50 km | | | | 24 h | 30.2 h | 48 h | 3 h | 4 h | 7 h | 0.1 K | 0.171 K | 0.5 K | Firm |
| Sea surface temperature | 1 km | 1.7 km | 5 km | | | | 24 h | 30.2 h | 48 h | 3 h | 4 h | 7 h | 0.1 K | 0.171 K | 0.5 K | Firm |
| Sea surface temperature | 10 km | 31.1 km | 300 km | | | | 6 h | 29.6 h | 720 h | 6 h | 29.6 h | 720 h | 0.1 K | 0.215 K | 1 K | Firm |
| Sea surface temperature | 1 km | 2.2 km | 10 km | | | | 6 h | 7.6 h | 12 h | 2 h | 2.5 h | 4 h | 0.1 K | 0.271 K | 2 K | Firm |
| Sea-ice cover | 10 km | 21.5 km | 100 km | | | | 1 d | 1.8 d | 6 d | 0.125 d | 0.25 d | 1 d | 2 % (Max) | 3.4 % (Max) | 10 % (Max) | Firm |

| "Requirement" | "Hor Res Go" | "HR B/T" | "HR T/H" | "Vert Res Go" | "VR B/T" | "VR T/H" | "Obs Cycle" | "OC B/T" | "OC T/H" | "Delay of a" | "DA B/T" | "DA T/H" | "Acc - RMS" | "AC B/T" | "AC T/H" | CF_NAME |
|---|--------------|----------|----------|---------------|----------|----------|-------------|----------|----------|--------------|----------|----------|-------------|-----------|----------|---------|
| Sea-ice thickness | 25 km | 39.7 km | 100 km | | | | 1 d | 1.8 d | 6 d | 1 d | 1.8 d | 6 d | 50 cm | 63 cm | 100 cm | Firm |
| Specific humidity profile - Total column | 25 km | 39.7 km | 100 km | | | | 24 h | 45.9 h | 168 h | 3 h | 4 h | 7 h | 5 kg/m2 | 6.3 kg/m2 | 10 kg/m2 | Firm |
| Wind speed over sea surface (horizontal) | 25 km | 39.7 km | 100 km | | | | 24 h | 45.9 h | 168 h | 24 h | 45.9 h | 168 h | 1 m/s | 1.3 m/s | 2 m/s | Firm |
| Wind vector over sea surface (horizontal) | 4 km | 9.3 km | 50 km | | | | 24 h | 30.2 h | 48 h | 3 h | 4 h | 7 h | 2 m/s | 2.7 m/s | 5 m/s | Firm |
| Wind vector over sea surface (horizontal) | 25 km | 39.7 km | 100 km | | | | 24 h | 45.9 h | 168 h | 24 h | 45.9 h | 168 h | 1 m/s | 1.3 m/s | 2 m/s | Firm |