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In reply refer to / Dans la réponse, mentionner
N° W/OIS

Geneva, 15 November 1983

Annexes: 3

Subject: Monthly letter on the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) (November 1983)

Action required: To be noted and brought to the attention of appropriate operational units

Dear Sir/Madam,

As you are aware, all the information on changes to the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) is being assembled and distributed by the Secretariat on a monthly basis to facilitate updating and follow-up action.

In this connection, please find attached the annexes providing the latest operational information on WWW and MMS. Those items and sub-items for which information is provided are listed below:

Annex I - Global Observing System

C. Information on operational status of elements of the surface-based sub-system

1. Publication No. 9, Volume A - Stations

- 1.1 New stations
- 1.2 Deleted stations
- 1.3 Changes to existing stations
- 1.4 Temporary changes

3. Automatic marine stations

4. ARGOS monthly status report

D. Information on operational status of space sub-system

To: Permanent Representatives (or Directors of Meteorological or Hydro-meteorological Services) of Members of WMO (PR-3623)
Directors of Meteorological Services of non-Member countries (MC-2278)
Presidents and Vice-Presidents of Regional Associations (P.RA-1046)
Presidents and Vice-Presidents of Technical Commissions (P.TC-1113)
Chairmen of CBS Working Groups
Secretary-General of ICAO
Secretary of IOC
Director-General of ASECNA
Director of ECMWF

Annex III - Global Telecommunication System

C. Information on the operation of the GTS

1. Catalogue of Meteorological Bulletins (Publication No. 9, Volume C, Chapter I)
 - 1.3 Changes to bulletins
2. Transmission schedules (Publication No. 9, Volume C, Chapter II)
 - 2.3 Changes in schedules/technical specifications

Annex IV - Codes (Revised English version of this Annex to the October 1983 monthly letter)

B. Manual on Codes

2. Regional practices
3. National practices
 - 3.1 New codes

Your co-operation in ensuring that the above information reaches the appropriate operational units of your service is greatly appreciated. If you wish to receive additional copies of the monthly circular letter, please inform me accordingly.

Yours faithfully,



for the Secretary-General
(G.K. Weiss)
Director
World Weather Watch Department

Annex I - Global Observing System

Date: 15 November 1983

C. Information on operational status of elements of the surface-based sub-system

1. Publication No. 9, Volume A - Stations

1.1 New stations

41217	ABU DHABI NEW INT. AIRPORT	2426N	5439E	-	-	X	X	X	X	X	X	X	X	X	S00-24	RW	P	RW	.	/
91700	CANTON ISLAND	0246S	17143W	2	-	X	.	X	.	X	.	X	.	X	.	.	.	.	.	/
93004	CAPE REINGA	3426S	17241E	-	191	X	X	X	X	X	X	X	X	X	.	.	.	.	.	(AUT)/
93127	ROTOROA ISLAND	3449S	17512E	-	31	.	X	.	.	.	.	.	.	X	.	.	.	.	.	/
93292	GISBORNE AERODROME	3840S	17759E	7	5	X	X	X	X	X	X	X	X	X	.	.	.	.	.	(AUT)/
93304	QAONUJI	3924S	17349E	40	33	.	.	.	.	.	.	.	.	X	.	.	.	.	.	/
93309	NEW PLYMOUTH	3901S	17411E	28	28	X	X	X	X	X	X	X	X	X	.	.	.	.	.	(AUT)/
93586	BROTHERS ISLAND	4106S	17426E	68	64	X	X	X	X	X	X	X	X	X	.	.	.	.	.	(AUT)/
93887	NUGGET POINT	4627S	16949E	129	131	X	X	X	X	X	X	X	X	X	.	.	.	.	.	(AUT)/
94602	ROTTNEST ISLAND AWS	3200S	11530E	44	43	01	04	07	10	13	16	19	22	.	.	.	.	.	.	/
94611	MOORA	3038S	11600E	-	203	01	.	07	.	.	.	.	.	.	.	.	.	.	.	/
94828	PORTLAND AIRPORT	3819S	14128E	-	81	23	02	05	08	.	.	.	.	20	.	.	.	.	.	/
94896	ALBURY AIRPORT	3604S	14657E	165	165	23	02	05	08	.	.	.	.	20	.	.	.	.	.	/
01435	HAUKELISAETER	5949N	0713E	-	1019	.	.	X	X	X	X	X	.	.	.	.	.	.	.	/
03055	RACKWICK	5852N	0323W	-	20	.	.	07	X	X	X	X	X	.	.	.	.	.	.	/
03058	INVERGORDON HARBOUR	5741N	0410W	-	3	X	X	X	X	X	X	X	X	.	.	.	.	.	.	/
03210	ST. BEES HEAD	5431N	0336W	-	124	X	X	X	X	X	X	X	X	.	.	.	.	.	.	(AUT)/
03212	KESWICK	5437N	0309W	-	81	X	X	X	X	X	X	X	X	.	.	.	.	.	.	(AUT)/
03493	CROMER LIGHTHOUSE	5255N	0119E	-	62	.	.	08	X	X	.	.	.	.	H09-11	.	.	.	.	/
03527	GREAT MALVERN	5207N	0218W	-	46	.	.	X	X	X	X	X	X	.	H06-09	.	.	.	.	/
03704	HARTLAND	5059N	0428W	-	142	X	X	X	X	X	X	X	X	.	H00-24	.	.	.	.	/
07471	LE PUY	4505N	0346E	835	832	X	X	X	X	X	X	X	X	.	H05-18	.	P	.	.	/
02045	KIRUNA GEOPHYSISKA	6750N	2026E	-	408	X	X	X	X	X	X	X	X	.	H00-24	.	.	.	.	(AUT)/
02105	ABELVATTNET	6532N	1459E	-	670	X	X	X	X	X	X	X	X	.	H00-24	.	.	.	.	(AUT)/
02141	NAUSTA	6622N	1907E	470	-	X	X	X	X	X	X	X	X	.	.	.	.	.	.	(AUT)/
02143	PALJAMYREN	6613N	1908E	570	-	X	X	X	X	X	X	X	X	.	.	.	.	.	.	(AUT)/
02145	TELLEJAUR	6609N	1938E	436	-	X	X	X	X	X	X	X	X	.	.	.	.	.	.	/
02283	UMEA ROBACKSALEN	6349N	2015E	-	10	X	X	X	X	X	X	X	X	.	H00-24	.	.	.	.	(AUT)/
02287	BREDSKAR	6340N	2020E	-	35	.	.	X	.	.	.	.	.	.	.	.	.	.	.	/
02367	ALNON	6222N	1732E	-	33	.	.	X	.	.	.	.	.	.	.	.	.	.	.	/
02407	GALLEUDE	5829N	1229E	-	-	.	.	X	.	.	.	.	.	X	.	.	.	.	.	/
02419	SOOKOJAN	5918N	1340E	-	-	.	.	X	.	.	.	.	.	X	.	.	.	.	.	/
02433	FALUN	6037N	1540E	-	157	.	.	X	.	X	.	.	.	X	.	.	.	.	.	/
02447	ESKILSTUNA	5923N	1628E	-	8	.	.	X	.	.	.	.	.	X	.	.	.	.	.	/
02479	OSTHAMMAR-VALO	6016N	1805E	-	-	X	X	X	X	X	X	X	X	.	H00-24	.	.	.	.	(AUT)/
02483	STOCKHOLM KTH	5921N	1804E	-	30	X	X	X	X	X	X	X	X	.	H00-24	.	.	.	.	(AUT)/
02485	STOCKHOLM	5920N	1803E	52	-	X	X	X	X	X	X	X	X	.	H00-24	.	.	.	.	(AUT)/
	STOCKHOLM	5920N	1803E	52	-	.	.	X	.	X	.	.	.	X	.	.	.	.	.	/
02513	GOTEBORG	5742N	1200E	-	5	X	X	X	X	X	X	X	X	.	H00-24	.	.	.	.	(AUT)/
02519	RINGHALS	5716N	1207E	-	-	X	X	X	X	X	X	X	X	.	H00-24	.	.	.	.	(AUT)/
02529	VARBERG	5707N	1216E	-	20	.	.	X	.	.	.	.	.	X	.	.	.	.	.	/
02535	ELSABOBY	5741N	1349E	-	330	.	.	X	.	.	.	.	.	.	.	.	.	.	.	/
02589	LUMMELUNDA	5744N	1826E	-	50	.	.	X	.	.	.	.	.	.	.	.	.	.	.	/
02599	NASUDDEN	5704N	1813E	-	-	X	X	X	X	X	X	X	X	.	H00-24	.	.	.	.	(AUT)/
02611	HELSINGBORG	5603N	1241E	-	5	.	.	X	X	X	X	X	.	.	.	.	.	.	.	/
02613	BARSEBACK	5545N	1255E	-	5	.	.	X	.	.	.	.	.	.	.	.	.	.	.	/
02614	OSKARSGRUNDET	5536N	1251E	-	10	X	X	X	X	X	X	X	X	.	H00-24	.	.	.	.	(AUT)/
02615	KLAGSHAMN	5531N	1255E	-	2	.	.	X	.	.	.	.	.	.	.	.	.	.	.	/
02617	MAGLARP	5523N	1304E	-	-	X	X	X	X	X	X	X	X	.	H00-24	.	.	.	.	(AUT)/
02627	LUND LTH	5543N	1313E	-	73	X	X	X	X	X	X	X	X	.	H00-24	.	.	.	.	(AUT)/
02629	LINDEROD	5558N	1351E	-	130	.	.	X	.	.	.	.	.	.	.	.	.	.	.	/
02631	LUND	5542N	1312E	-	52	.	.	X	X	X	X	X	.	.	.	.	.	.	.	/
02635	MALMO	5535N	1301E	-	13	.	.	X	.	.	.	.	.	X	.	H04,05,11	.	.	.	/

3. Automatic marine stationsNORWAY

List of drifting and moored buoys and other stations deployed by Norway, whose reports are to be transmitted on the GTS in the DRIBU code (as per end October 1983).

<u>WMO buoy Identifier</u>	<u>Argos Identifier</u>	<u>Position end of October</u>	<u>Type of ODAS/buoy</u>	<u>Parameters transmitted</u>	<u>Operated by</u>
63001	09400	80°41'N 20°52'E	landbased	PPPP,dd,ff,TTT,app	1)2)
63002	03670	72°59'N 16°03'E	moored	PPPP,T _w T _w T _w ,TTT,app	1)
63005	09401	78°51'N 29°18'E	landbased	PPPP,dd,ff,TTT	1)2)
63008	03671	74°31'N 28°59'E	moored	PPPP,T _w T _w T _w ,TTT,app	1)
63510	03675	66°00'N 02°00'E	repl. OWS M	PPPP,T _w T _w T _w ,app	1)
63511	03693	75°09'N 06°50'E	drifting	PPPP,T _w T _w T _w ,TTT,app	1)
63512	03067	66°17'N 09°31'E	moored	PPPP,T _w T _w T _w ,dd,ff,TTT	3)
63514	03690	70°16'N 00°47'W	drifting	PPPP,T _w T _w T _w ,TTT,app	1)
63515	03060	60°30'N 02°47'E	moored	PPPP,T _w T _w T _w ,TTT	3)
63519	03723	68°42'N 15°25'E	drifting	PPPP,T _w T _w T _w	1)
63520	03844	82°08'N 19°12'E	icedrift	PPPP,TTT,app	1)2)
63521	03066	65°03'N 07°34'E	moored	PPPP,T _w T _w T _w ,dd,ff,TTT	3)
63522	03725	72°59'N 38°59'E	drifting	PPPP,T _w T _w T _w ,TTT	1)
63523	03724	72°39'N 27°01'E	moored	PPPP,T _w T _w T _w ,TTT	1)
63524	03696	77°22'N 00°40'E	drifting	PPPP,T _w T _w T _w ,app	1)
64501	03698	68°46'N 07°25'W	drifting	PPPP,T _w T _w T _w ,app	1)
64502	03697	68°15'N 10°30'W	drifting	PPPP,T _w T _w T _w ,app	1)
64507	03720	64°58'N 00°31'W	drifting	PPPP,T _w T _w T _w	1)
64509	03714	66°13'N 03°40'W	drifting	PPPP,T _w T _w T _w	1)
64510	03691	61°11'N 02°58'W	drifting	PPPP,T _w T _w T _w ,TTT,app	1)
64513	03842	81°57'N 11°23'W	icedrift	PPPP,TTT,app	1)
64514	04050	61°52'N 14°03'W	moored	PPPP,T _w T _w T _w ,dd,ff,TTT,app	4)5)
64516	03699	67°42'N 03°00'W	drifting	PPPP,T _w T _w T _w ,app	1)

Note: Pressure tendency (app) will not be distributed on the GTS before the revised version of the DRIBU code becomes effective on 1 July 1984.

Legend:

- 1) Norwegian Meteorological Institute, P.O. Box 320 Blindern, Oslo 3, Norway
- 2) Norwegian Polar Research Institute, P.O. Box 158, 1330 Oslo Lufthavn, Norway
- 3) Continental Shelf Institute, P.O. Box 1883, 7001 Trondheim, Norway
- 4) Chr. Michelsens Institute, Fantoftveien 38, 5036 Fantoft, Norway
- 5) COST-43

Date: 15 November 1983

C. Information on the operation of the GTS

1. Catalogue of Meteorological Bulletins (Publication No. 9, Volume C, Chapter I)

1.3 Changes to bulletins

NMC Bissau:

As from 1 September 1983, the location indicator for NMC Bissau has been changed from GPBS to GGBS.

NMC Harare:

As from 1 January 1984 0000 GMT, the location indicator of bulletins compiled by Zimbabwe will be changed to FVHA.

2. Transmission schedules (Publication No. 9, Volume C, Chapter II)

2.3 Changes in schedules/technical specifications

(i) changes in schedules

- VI-iii Norrkoping/Karlsborg radio-facsimile broadcast, for the period 31 October 1983 - 23 March 1984, transmission times of the following charts are changed as indicated below:

<u>Transmission times</u>	<u>Charts</u>	<u>Drum speed/index of co-operation</u>
0416 by 0315	ASXX 00	120/288
1000 by 0930	ASXX 06	120/288
1451 by 1617	AUEU 12 WITH PILOT	120/576
1533 by 1538	UXEU 12	120/576
1555 by 1557	FS/FUXX 12 H+12	120/576
1623 by 1450	ASXX 12	120/288
1820 by 1800	FS/FXXX 12 H+18, H+30	120/576
2230 by 2050	ASXX 18	120/288

(ii) changes in technical specifications

- VI-iii Prague-Komorany QLT21 radio-facsimile broadcast effective 15.12.83 replace 100,95 kHz by 111,8 kHz.
-

W_d	Additional information on past weather
<u>Code figure</u>	
0	Dew
1	Hoar frost, rime
2	Blowing snow
3	Fog
4	Glaze
5	Rain, rain showers or drizzle
6	Rain and snow, showers of rain and snow
7	Snow, snow showers, snow grains, diamond dust
8	Hail, small hail, ice pellets
9	Thunderstorm
/	No additional information

Annex IV - Codes (Revision)

(Revised English version of Annex IV to the October 1983 monthly letter)

Date: 15 November 1983

8. Manual on codes

2. Regional practices

Region VI

Regional code for general aviation forecasts in Europe - GAFOR

Specifications of zone number(s) of sub-areas/route segments for which GAFOR forecasts will be provided, as notified by Members

Maps showing the sub-areas/route segments for Denmark, Finland, Germany (Federal Republic of), Netherlands, Spain and Switzerland are attached as appendices to this Annex.

3. National practices

3.1 New codes

Region V-Section E - National coding procedures with regard to international code forms

FM 50-VIII WINTEM

NEW ZEALAND

In the WINTEM forecast issued by New Zealand, each latitude and longitude co-ordinate shall include a decimal point dot (.) between the values of degrees and tenths.

Region VI-Section F - National code forms

NORWAY

FM 12-VII/FM 13-VII

Section 5 - National code groups transmitted regularly or occasionally on the GTS:

0St_zf_xf_x This group is used to report state of sea (S) (Code 3700) and maximum wind speed.

t_z Time of maximum mean wind speed or changes in wind speed during preceding 3 hours.

Code figure

0	At observation time)		
1	0-1 hour before observation time)		
2	1-2 hours before observation time)		
3	2-3 hours before observation time	)	Time indication of maximum mean wind speed
4	3-6 hours before observation time)		
5	6-9 hours before observation time)		
6	9-12 hours before observation time)		
7	Wind speed decreasing)		Not possible to indicate time for maximum wind speed
8	Wind speed unchanged)		
9	Wind speed increasing)		
x	Maximum wind speed or changes in wind speed cannot be indicated			

f_x Maximum mean wind speed in knots since the preceding main observation hour, or maximum mean wind speed during preceding 12 hours for stations which do not observe at all main observational hours.

1s $\begin{matrix} T & T & T & T \\ n & x & x & x \end{matrix}$ This group is included at 0600 GMT to report maximum night temperature the preceding 12 hours.

2s $\begin{matrix} T & T & T & T \\ n & n & n & n \end{matrix}$ This group is included at 1800 GMT to report minimum day temperature the preceding 12 hours.

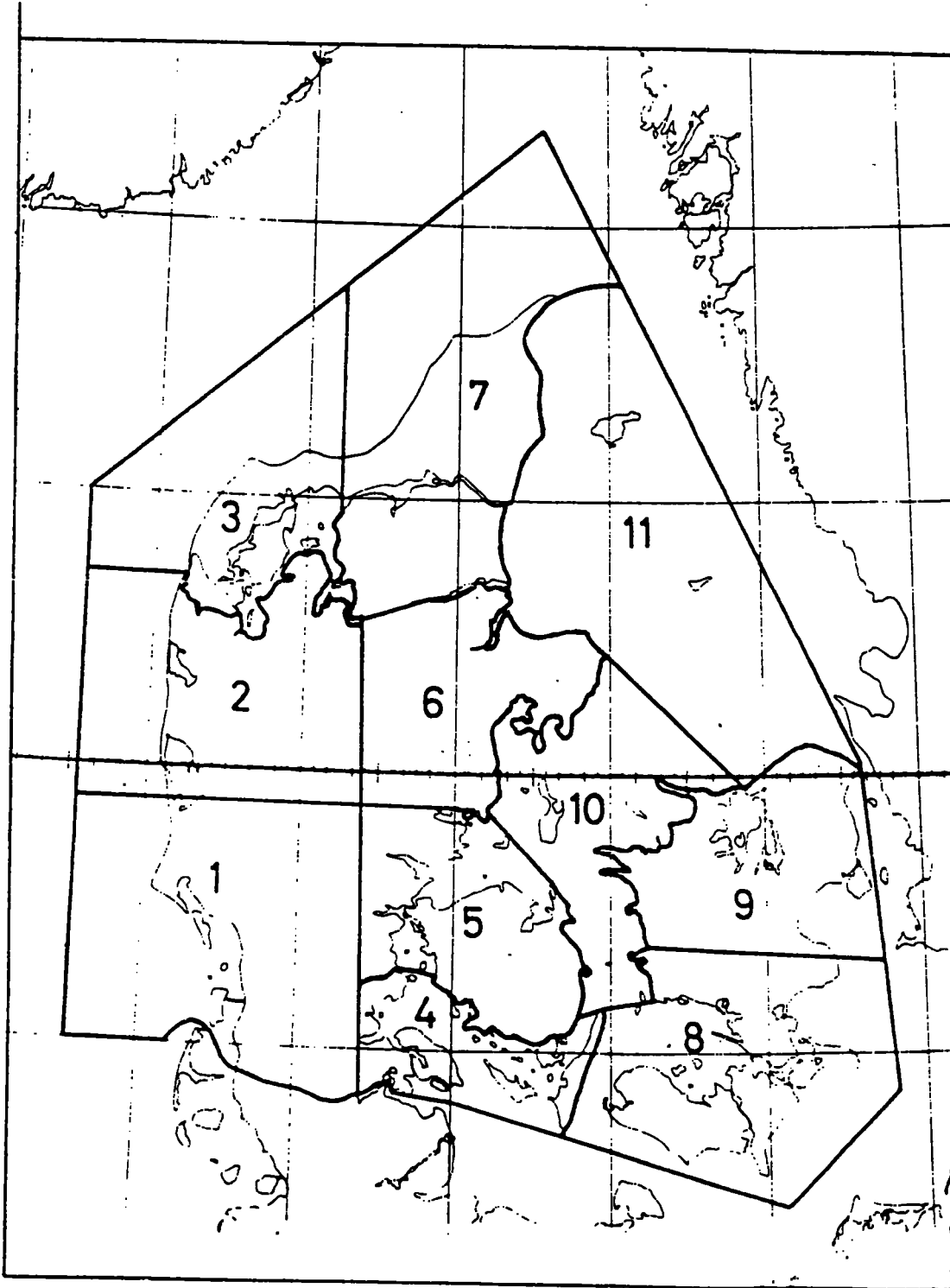
3s $\begin{matrix} T & T & T \\ n & 9 & 9 & 9 \end{matrix}$ This group is included at 0600 GMT to report minimum temperature just above the ground the preceding night.

4R $\begin{matrix} W & W & W \\ T & d & d & d \end{matrix}$ This group gives additional information on weather phenomena reported in other sections. R_T is used to report tenths of mm precipitation. This group is also included when precipitation amount is under 1 mm.

$W_d W_d W_d$ gives additional information on past weather which cannot be reported under $W_1 W_2$, or, for stations which do not observe at all main observational hours, past weather since the preceding main observation before the period covered by $W_1 W_2$.

DENMARK

GAFOR sub-areas



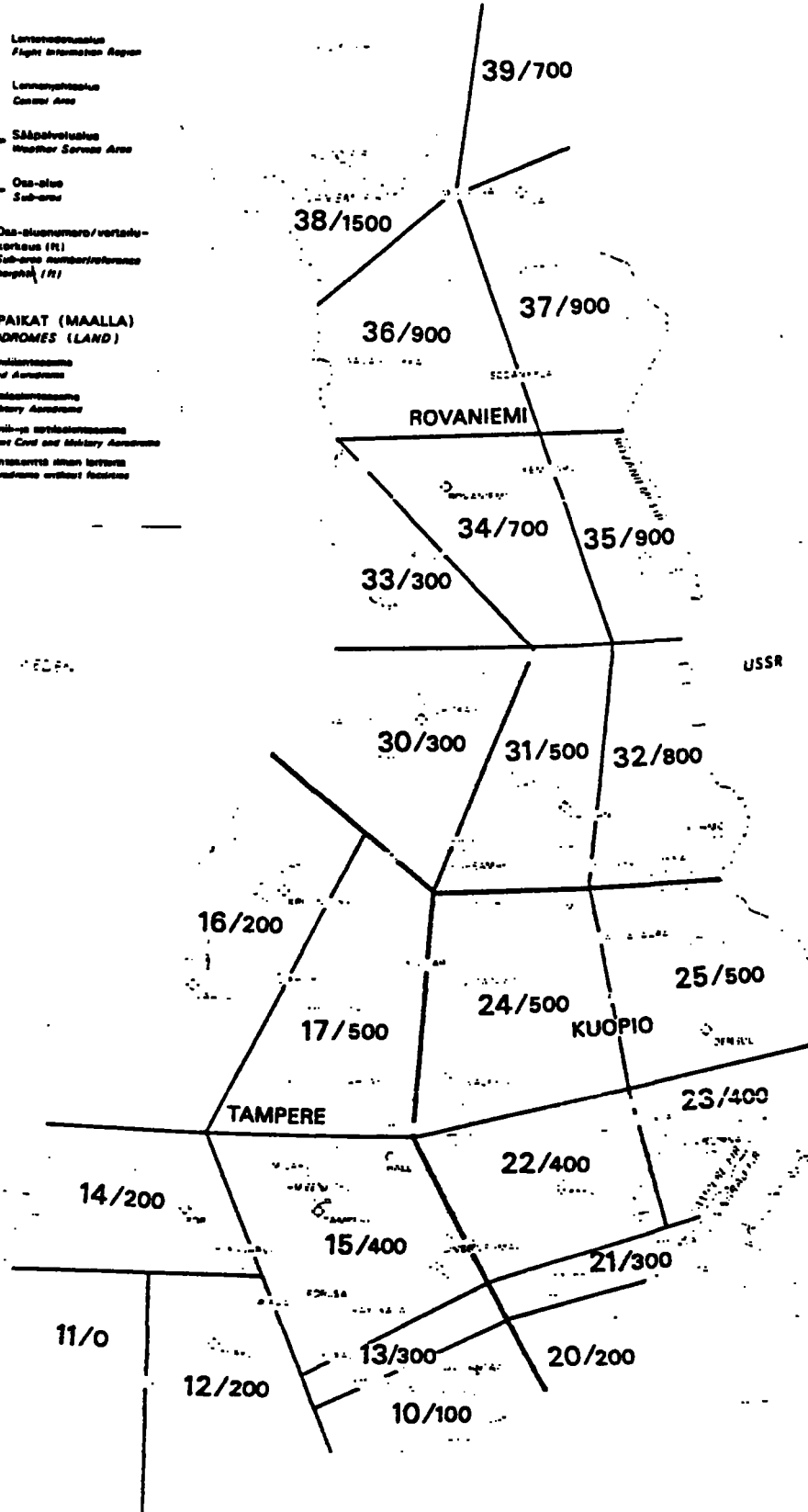
FINLAND
GAFOR sub-areas

MERKKIEN SELITYKSET / LEGEND

- Lentoaluealue
Flight Information Region
- Lennonyhteisalue
Control Area
- Sääpalvelusalue
Weather Service Area
- Osa-alue
Sub-area
- 11/0 Osa-aluenumero / vertailu-
luku (FI)
Sub-area number/reference
number (FI)

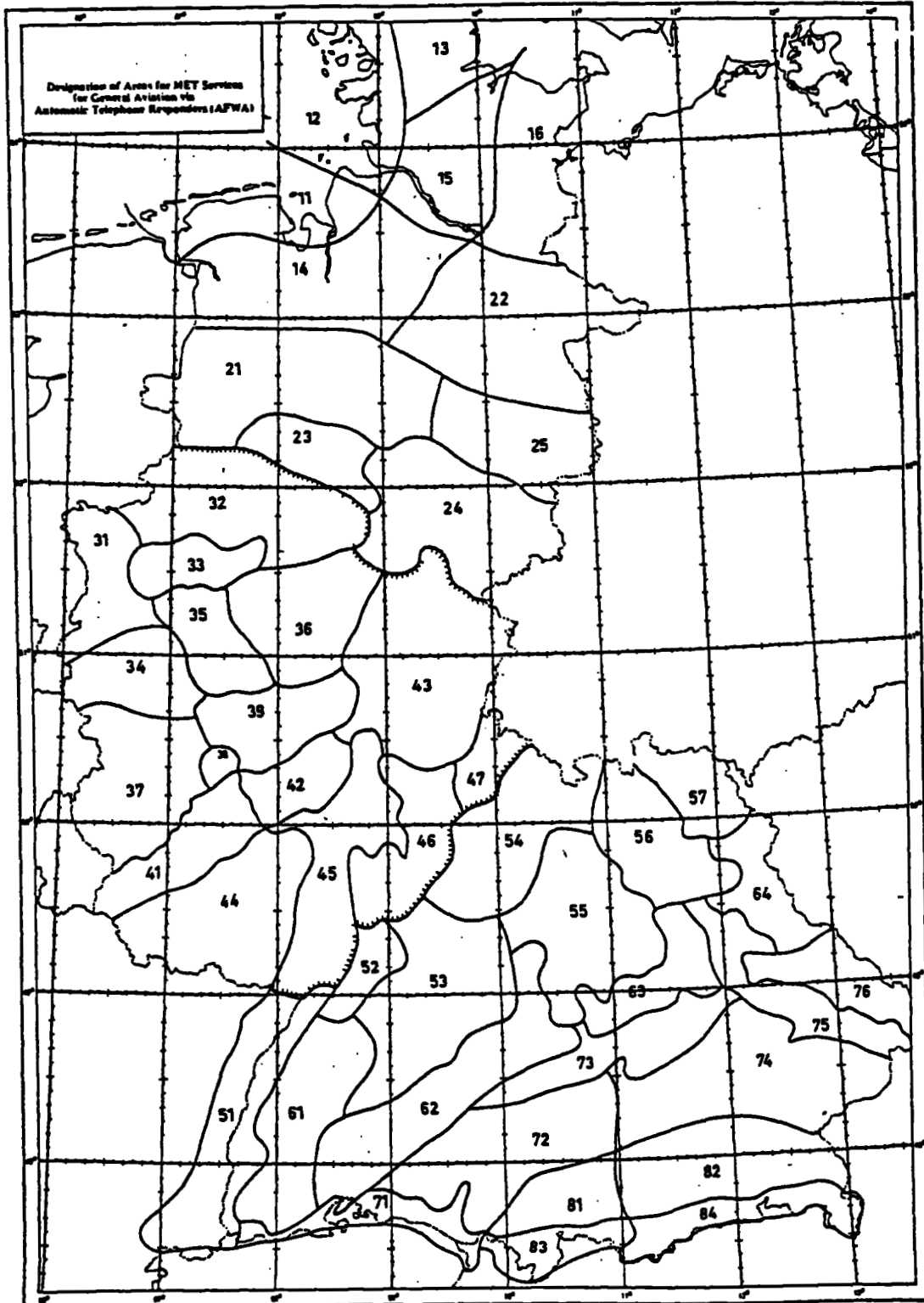
**LENTOPAIKAT (MAALLA)
AERODROMES (LAND)**

- Siviililentoasema
Civil Aerodrome
- Sotilaislentoasema
Military Aerodrome
- Siviil- ja sotilaislentoasema
Joint Civil and Military Aerodrome
- Lentokenttä ilman turvata
Aerodrome without facilities



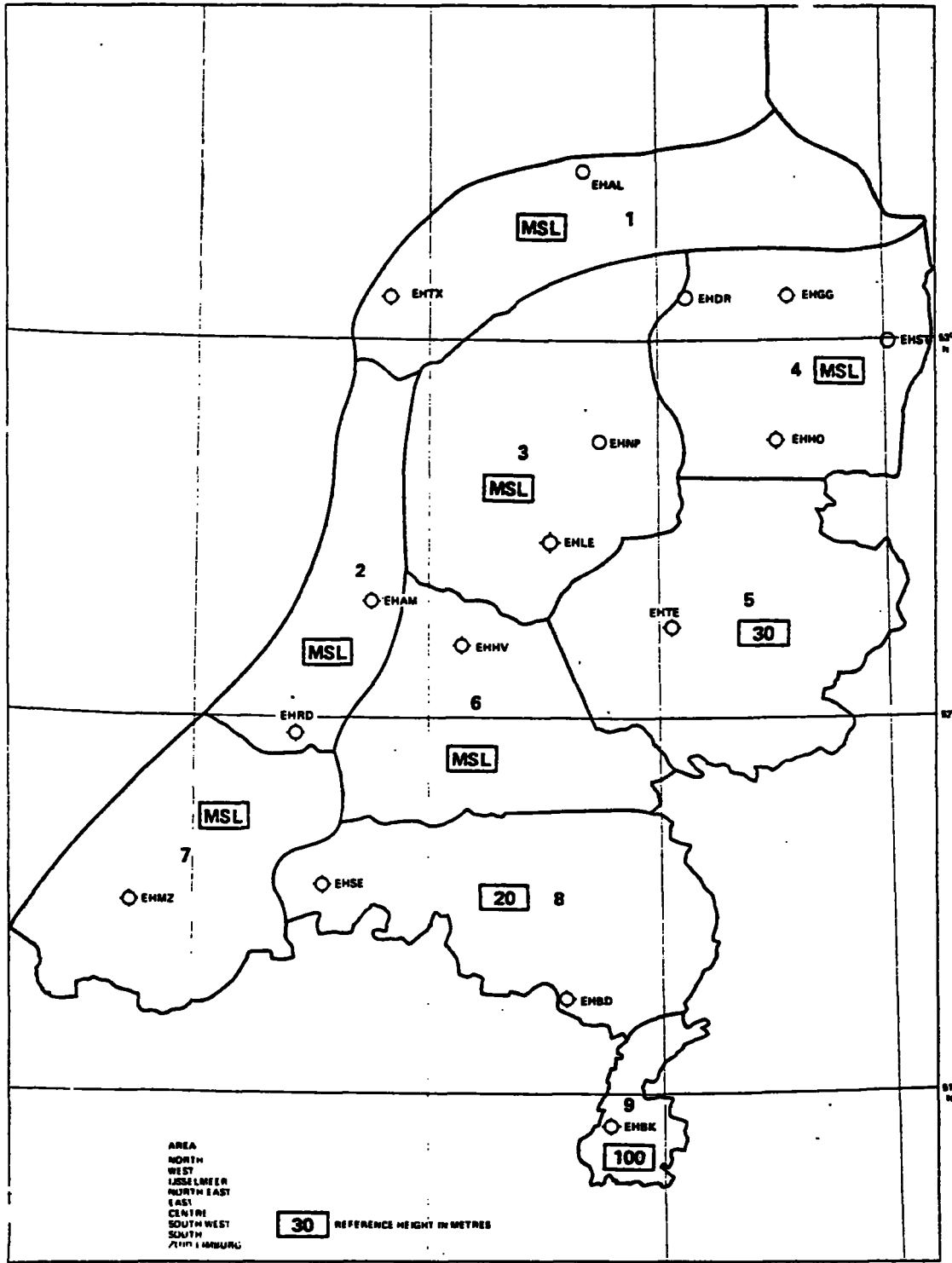
GERMANY, FEDERAL REPUBLIC OF

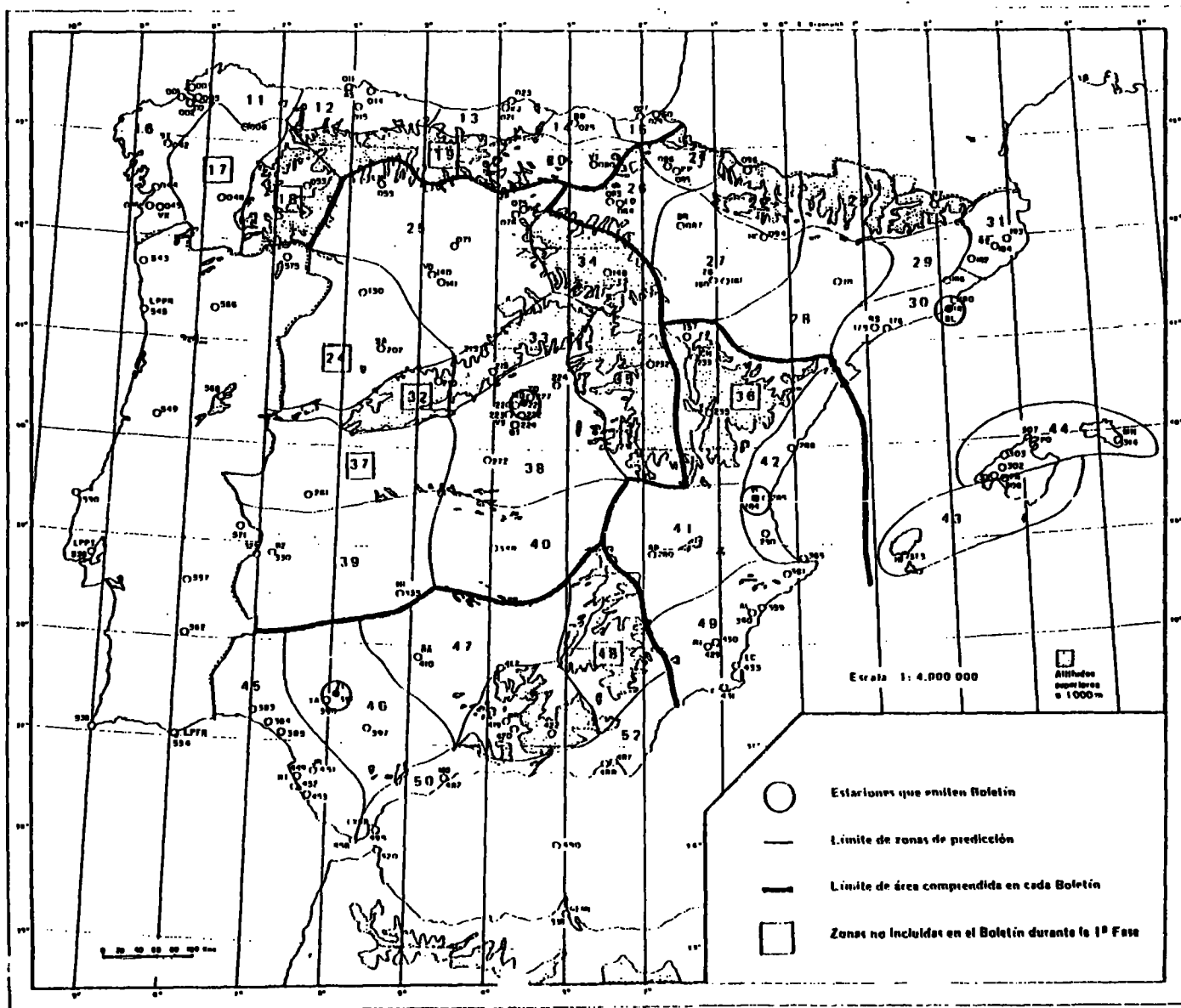
GAFOR sub-areas



NETHERLANDS

GAFOR sub-areas





GAFOR sub-areas

S P A I N