

ADDITIONAL DATA AND PRODUCTS



Secretariat of the World Meteorological Organization, Geneva, Switzerland

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NOTE

The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of the World Meteorological Organization concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

1. CONTENTS

The Twelfth World Meteorological Congress (1995) adopted Resolution 40 (Cg-XII) - "WMO Policy and Practice for the Exchange of Meteorological and Related Data and Products Including Guidelines on Relationships in Commercial Meteorological Activities", see page 5.

When adopting the resolution, Congress reminded members of their obligations under Article 2 of the WMO Convention to facilitate worldwide co-operation in the establishment of observing networks and to promote the exchange of meteorological and related information in the interest of all nations, and urged Members to implement the practice on the international exchange of meteorological and related data and products.

According to the practice adopted by Congress, all meteorological and related data and products required to fulfil Members' obligations under WMO Programmes would be encompassed by the combination of essential and additional data and products exchanged by Members. In Annex 1 to Resolution 40 (Cg-XII) Congress urged Members to make known to all Members, through the WMO Secretariat, those additional meteorological and related data and products on which Members placed conditions related to their re-export for commercial purposes outside the receiving country (or group of countries forming a single economic group). Congress believed that, as a result of the implementation of the practice by all Members, the volume of data and products exchanged internationally would increase.

In accordance with the pertinent deliberations of the Commission for Basic Systems at its eleventh session (28 October - 7 November 1996, Cairo, Egypt), the WMO Secretariat will also publish the list of "additional" data and products in the Operational Newsletter as a means of expeditious dissemination of that information. This method of publication does not replace circular letters to be issued by the Secretary-General when necessary, nor does it contain information on the conditions some Members have attached to the "additional" data and products. The text of these conditions will continue to be published through circular letters issued by the Secretary-General.

2. GENERAL PRESENTATION AND LAYOUT

2.1 The list of Additional Data and Products is arranged in sections corresponding to the World Meteorological Organization regions:

- Region I - Africa
- Region II - Asia
- Region III - South America
- Region IV - North and Central America
- Region V - South-West Pacific
- Region VI - Europe

2.2 Each list starts with the name of the country and the name of the national and compiling centre.

2.3 The date given at the top of the page is the date WMO was notified of the changes and, when available, the date of implementation.

2.4 The Abbreviated Heading: full details as regards abbreviated headings are contained in WMO Publication No. 386 - *Manual on the Global Telecommunication Systems*. The list of international four-letter location indicators (CCCC) is given in Publication No. 9, Volume C - *Catalogue of Meteorological Bulletins*.

2.5 Code Form Used: this column indicates the FM code number used in accordance with the FM code system prescribed in WMO Publication No. 306 - *Manual on Codes*. The indication "Plain Language" is given for those bulletins which are not in coded form.

2.6 Time Group (GG): This column indicates the following:

- (a) For bulletins containing meteorological reports the standard time of observation in UTC;

- (b) For aerodrome, route and area (aeronautical) forecasts: the full hour in UTC preceding the transmission time. For other forecasts and analyses: the standard time of observation in UTC on which the forecast or analysis is based;
- (c) For other messages the time of origin in UTC.

2.7 **Content of Bulletin and Remarks:** this column gives the international index number or the international four-letter location indicator of the stations whose reports are included in the bulletin. The indications - SHIP, AIREP and CODAR are also used when appropriate. Other remarks are also given if necessary.

3. UPDATING

The Secretariat of the World Meteorological Organization (WMO) seeks to maintain a high standard of accuracy in the material published, and in this endeavour depends entirely on the goodwill of the Meteorological Services throughout the world which provide the information published. Members are therefore kindly requested to notify the WMO Secretariat whenever changes occur in the information published.

A blank form is provided to facilitate the task of Members in conveying to the Secretariat new or up-dated information. The *Feedback Form* should be sent to the address given below:

WORLD METEOROLOGICAL ORGANIZATION
Secretariat,
WWW/PWOI
41, avenue Giuseppe Motta
P.O. Box 2300
CH-1211 GENEVA
Switzerland

For a speedier update service changes can be sent to WMO via electronic mail. Our e-mail address is as follows:
pwoi@www.wmo.ch

RESOLUTION 40 (Cg-XII)

**WMO POLICY AND PRACTICE FOR THE EXCHANGE OF
METEOROLOGICAL AND RELATED DATA AND PRODUCTS
INCLUDING GUIDELINES ON RELATIONSHIPS IN COMMERCIAL
METEOROLOGICAL ACTIVITIES**

THE CONGRESS,

NOTING:

- (1) Resolution 23 (EC-XLII) - Guidelines on international aspects of provision of basic and special meteorological services,
- (2) Resolution 20 (EC-XLVI) - WMO policy on the exchange of meteorological and related data and products,
- (3) Resolution 21 (EC-XLVI) - Proposed new practice for the exchange of meteorological and related data and products,
- (4) Resolution 22 (EC-XLVI) - WMO guidelines on commercial activities,
- (5) The report to Twelfth Congress of the chairman of the Executive Council Working Group on the Commercialization of Meteorological and Hydrological Services, established at the request of Eleventh Congress by the Executive Council in Resolution 2 (EC-XLIII).

RECALLING:

- (1) The general policies of the Organization, as set down in the Third WMO Long-term Plan (1992-2001) adopted by Eleventh Congress, which include, *inter alia*, that Members should reaffirm their commitment to the free and unrestricted international exchange of basic meteorological data and products, as defined in WMO Programmes (*Third WMO Long-term Plan*, Part I, Chapter 4, paragraph 127),
- (2) The concern expressed by Eleventh Congress that commercial meteorological activities had the potential to undermine the free exchange of meteorological data and products between national Meteorological Services,

CONSIDERING:

- (1) The continuing fundamental importance, for the provision of meteorological services in all countries, of the exchange of meteorological data and products between WMO Members' national Meteorological or Hydrometeorological Services (NMSs), WMCs, and RSMCs of the WWW Programme,
- (2) Other programmes of world importance such as GCOS, GOOS, WCRP, and IGOSS, which are sponsored and implemented in cooperation with other international organizations,
- (3) The basic role of WMO Members' NMSs in furthering applications of meteorology to all human activities,

- (4) The call by the world leaders at UNCED (Brazil, 1992) for increasing global commitment to exchange scientific data and analysis and for promoting access to strengthened systematic observations,
- (5) The provision in the UN/FCCC committing all Parties to the Convention to promote and cooperate in the full, open, and prompt exchange of information related to the climate system and climate change,

RECOGNIZING:

- (1) The increasing requirement for the global exchange of all types of environmental data in addition to the established ongoing exchange of meteorological data and products under the auspices of the WWW,
- (2) The basic responsibility of Members and their NMSs to provide universal services in support of safety, security and economic benefits for the peoples of their countries,
- (3) The dependence of Members and their NMSs on the stable, cooperative international exchange of meteorological and related data and products for discharging their responsibilities,
- (4) The continuing requirement for Governments to provide for the meteorological infrastructure of their countries,
- (5) The continuing need for, and benefits from, strengthening the capabilities of NMSs, in particular in developing countries, to improve the provision of services,
- (6) The dependence of the research and education communities on access to meteorological and related data and products,
- (7) The right of Governments to choose the manner by, and the extent to, which they make data and products available domestically or for international exchange,

RECOGNIZING FURTHER:

- (1) The existence of a trend towards the commercialization of many meteorological and hydrological activities,
- (2) The requirement by some Members that their NMSs initiate or increase their commercial activities,
- (3) The risk arising from commercialization to the established system of free and unrestricted exchange of data and products, which forms the basis for the WWW, and to global cooperation in meteorology,
- (4) Both positive and negative impacts on the capacities, expertise and development of NMSs, and particularly those of developing countries, from commercial operations within their territories by the commercial

<p>sector including the commercial activities of other NMSs,</p> <p>REMINDS Members of their obligations under Article 2 of the WMO Convention to facilitate worldwide cooperation in the establishment of observing networks and to promote the exchange of meteorological and related information; and of the need to ensure stable ongoing commitment of resources to meet this obligation in the common interest of all nations;</p> <p>ADOPTS the following policy on the international exchange of meteorological and related data and products:</p> <p style="padding-left: 20px;"><i>As a fundamental principle of the World Meteorological Organization (WMO), and in consonance with the expanding requirements for its scientific and technical expertise, WMO commits itself to broadening and enhancing the free and unrestricted¹ international exchange of meteorological and related data and products;</i></p> <p>ADOPTS the following practice on the international exchange of meteorological and related data and products²:</p> <ol style="list-style-type: none"> (1) Members shall provide on a free and unrestricted basis essential data and products which are necessary for the provision of services in support of the protection of life and property and the well-being of all nations, particularly those basic data and products, as, at a minimum, described in Annex 1 to this resolution, required to describe and forecast accurately weather and climate, and support WMO Programmes; (2) Members should also provide the additional data and products which are required to sustain WMO Programmes at the global, regional, and national levels and, further, as agreed, to assist other Members in the provision of meteorological services in their countries. <p>While increasing the volume of data and products available to all Members by providing these additional data and products, it is understood that WMO Members may be justified in placing conditions on their re-export for commercial purposes outside of the receiving country or group of countries forming a single economic group, for reasons such as national laws or costs of production;</p> <ol style="list-style-type: none"> (3) Members should provide to the research and education communities, for their non-commercial activities, free and unrestricted access to all data and products exchanged under the auspices of WMO with the understanding that their commercial activities are subject to the same conditions identified in ADOPTS (2) above; <p>STRESSES that all meteorological and related data and products required to fulfil Members' obligations under WMO Programmes will be encompassed by the combination</p>	<p>of essential and additional data and products exchanged by Members;</p> <p>URGES Members to:</p> <ol style="list-style-type: none"> (1) Strengthen their commitment to the free and unrestricted exchange of meteorological and related data and products; (2) Increase the volume of data and products exchanged to meet the needs of WMO Programmes; (3) Assist other Members, to the extent possible, and as agreed, by providing additional data and products in support of time-sensitive operations regarding severe weather warnings; (4) Strengthen their commitments to the WMO and ICSU WDCs in their collection and supply of meteorological and related data and products on a free and unrestricted basis; (5) Implement the practice on the international exchange of meteorological and related data and products, as described in ADOPTS (1) to (3) above; (6) Make known to all Members, through the WMO Secretariat, those meteorological and related data and products which have conditions related to their re-export for commercial purposes outside of the receiving country or group of countries forming a single economic group; (7) Make their best efforts to ensure that the conditions which have been applied by the originator of additional data and products are made known to initial and subsequent recipients; <p>FURTHER URGES Members to comply with:</p> <ol style="list-style-type: none"> (1) The Guidelines for Relations among National Meteorological or Hydrometeorological Services Regarding Commercial Activities as given in Annex 2 to this resolution; (2) The Guidelines for Relations between National Meteorological or Hydrometeorological Services and the Commercial Sector as given in Annex 3 to this resolution; <p>INVITES Members to provide explanation of the WMO policy, practice, and guidelines to the commercial sector and other appropriate agencies and organizations;</p> <p>REQUESTS the Executive Council to:</p> <ol style="list-style-type: none"> (1) Invite the president of CBS, in collaboration with the other technical commissions as appropriate, to provide advice and assistance on the technical aspects of implementation of the practice; (2) Invite the president of CHy to continue his work on the issue of commercialization and the international exchange of hydrological data and products; (3) Keep the implementation of this resolution under review and report to Thirteenth Congress; <p>REQUESTS the Secretary-General to:</p> <ol style="list-style-type: none"> (1) Keep Members informed on the impacts of commercialization on WMO Programmes and to
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- facilitate the exchange of relevant information on commercialization among NMSs;
- (2) Report on a timely basis to all Members on those meteorological and related data and products on which Members have placed conditions related to their re-export for commercial purposes;
- (3) Maintain effective coordination with IOC and other involved international organizations in respect of joint programmes during WMO's implementation of the practice;
- DECIDES** to review the implementation of this resolution at Thirteenth Congress.

ANNEX 1 TO RESOLUTION 40 (Cg-XII)

DATA AND PRODUCTS TO BE EXCHANGED WITHOUT CHARGE AND WITH NO CONDITIONS ON USE

Purpose

The purpose of this listing of meteorological and related data and products is to identify a minimum set of data and products which are essential to support WMO Programmes and which Members shall exchange without charge and with no conditions on use. The meteorological and related data and products which are essential to support WMO Programmes include, in general, the data from the RBSNs and as many data as possible that will assist in defining the state of the atmosphere at least on a scale of the order of 200 km in the horizontal and six to 12 hours in time.

Contents

- (1) Six-hourly surface synoptic data from RBSNs, e.g. data in SYNOP, BUFR or other general purpose WMO code;
- (2) All available *in situ* observations from the marine environment, e.g. data in SHIP, BUOY, BATHY, TESAC codes, etc.;

- (3) All available aircraft reports, e.g. data in AMDAR, AIREP codes, etc.;
- (4) All available data from upper air sounding networks, e.g. data in TEMP, PILOT, TEMP SHIP, PILOT SHIP codes etc.;
- (5) All reports from the network of stations recommended by the regional associations as necessary to provide a good representation of climate, e.g. data in CLIMAT/CLIMAT TEMP and CLIMAT SHIP/CLIMAT TEMP SHIP codes, etc.;
- (6) Products distributed by WMCs and RSMCs to meet their WMO obligations;
- (7) Severe weather warnings and advisories for the protection of life and property targeted upon end-users;
- (8) Those data and products from operational meteorological satellites that are agreed between WMO and satellite operators. (These should include data and products necessary for operations regarding severe weather warnings and tropical cyclone warnings).

ANNEX 2 TO RESOLUTION 40 (Cg-XII)

GUIDELINES FOR RELATIONS AMONG NATIONAL METEOROLOGICAL OR HYDROMETEOROLOGICAL SERVICES (NMSS) REGARDING COMMERCIAL ACTIVITIES

Purpose

The purpose of these guidelines is to maintain and strengthen in the public interest the cooperative and supportive relations among NMSs in the face of differing national approaches to the growth of commercial meteorological activities.

Guidelines

In order to ensure the maintenance of the international exchange of data and products among WMO Members, and to develop the applications of meteorology, while adapting to the new challenge from the growth of commercial meteorological activities:

1. NMSs should provide the first point of receipt within a country for WWW data and products, in order to have complete and timely access to all the information necessary for the production of weather forecasts and

warnings and other meteorological/climatological services necessary for the protection of life and property and other public interest responsibilities entrusted to the NMSs and without prejudice to the national laws of their territory of location;

2. NMSs should make their best efforts to ensure that the conditions which have been applied by the originator of additional data and products³ are made known to initial and subsequent recipients;
3. In the case where conditions accompanying the exchange of additional data and products are not honoured, the originating NMS may take appropriate actions including denial of access of these additional data and products to the receiving Member;
4. NMSs may export NWP regional model products employing additional data and products for commercial purposes outside the country of the Member running the model, unless objected to by an affected Member. Every effort should be made to coordinate the

- provision of such services prior to implementation to avoid possible harm to other Members;
5. NMSs may distribute and export products from global NWP models without regard to conditions which were attached to the original data used in the models;
 6. Services or products whose construction would suffer significant degradation by removal of the additional data or products and from which the additional data and/or products can be retrieved easily, or their use can be identified unambiguously, should carry the same conditions on their re-export for commercial purposes as those additional data or products;
 7. An NMS receiving a request from a local client for service that it cannot fulfil may seek assistance from another NMS with the capacity to provide it. Where appropriate to enhance the free and unrestricted exchange of data and products among WMO Members, the service should as far as possible be made available through the offices of the NMS of the country within which the client is located;
 8. Similarly, unless other arrangements have been agreed to, an NMS receiving a request to provide service in another country should refer the request back to the NMS in that country, i.e. to the local NMS. In the event that the local NMS is unable to provide the service for lack of facilities or other legitimate reasons, the external NMS may seek to establish a collaborative arrangement with the local NMS to provide the service;
 9. Where the service originated by one NMS is likely to affect other Members (e.g. in the provision of regional broadcasts of meteorological information or the wide distribution of seasonal or climate forecasts), the NMS originating the service should seek, well in advance, and take into account the response of the NMSs of the affected Members, to the extent possible;
 10. NMSs should, to the extent possible, refrain from using basic WWW data and products received from other countries in ways which jeopardize the performance of the public interest responsibilities of the originating NMSs within their own countries. If an NMS finds that, in the undertaking of its public interest responsibilities it is affected adversely by a public or private organization in another country, it may warn the NMS in the country from which the organization is deriving the data and products. The latter NMS should consider measures to mitigate these adverse effects and take those actions appropriate under its national laws;
 11. NMSs with experience in commercial activities should make their expertise available, on request, to other NMSs, especially NMSs of developing countries, through the WMO Secretariat and bilaterally, and provide relevant documentation, seminars and training programmes to developing countries, on request, on the same financial basis as other WMO education and training courses are provided.

In implementing these guidelines, NMSs should take into account and, as far as possible, respect the different legal, administrative, and funding frameworks which govern the practices of NMSs in other countries or group of countries forming a single economic group. NMSs should, in particular, note that other NMSs will be bound by their own national laws and regulations regarding any trade restrictive practices. Furthermore, where a group of countries form a single economic group, the internal laws and regulations appropriate to that group shall, for all internal group activities, take precedence over any conflicting guidelines.

ANNEX 3 TO RESOLUTION 40 (Cg-XII)

GUIDELINES FOR RELATIONS BETWEEN NATIONAL METEOROLOGICAL OR HYDROMETEOROLOGICAL SERVICES (NMSs) AND THE COMMERCIAL SECTOR

Purpose

The purpose of these guidelines is to further improve the relationship between NMSs and the commercial sector. The development of the exchange of meteorological and related information depends greatly upon sound, fair, transparent, and stable relations between these two sectors.

Guidelines

These guidelines apply to the commercial sector engaged in meteorological activities, which includes government organizations engaged in commercial meteorological activities.

In order to enhance the relationship between the two sectors:

1. In the common interest, the commercial sector is urged to respect the international data exchange principles of the WWW and other WMO Programmes;
2. The commercial sector is urged to recognize and acknowledge the essential contribution of NMSs and of WMO to the activities of the commercial sector. NMSs and the commercial sector are urged to recognize the interdependence and mutual benefit possible from cooperative interaction;
3. In the case where the NMS of a country, particularly of a developing country, were to consider itself affected by the commercial sector's commercial use of data originated in its own country, all parties involved shall undertake negotiations to achieve appropriate and satisfactory agreements;

4. Unless authorized to do so by the relevant Member, commercial sector providers of meteorological services should not publicly issue warnings and forecasts relevant to the safety of life and property in the country or maritime area where they operate. Warnings and forecasts relevant to the safety of life and property publicly issued by the commercial sector should be consistent with those originated by NMSs or by other official originators in the course of the performance of their public service responsibilities;
5. In providing services, the commercial sector should be encouraged to employ meteorological terminology consistent with established national and international practice;
6. Commercial sector providers of meteorological services should respect the sovereignty and rules and regulations of the countries in which they deliver services;
7. NMSs are encouraged to discuss with their countries' meteorological community and professional societies the issues associated with the international activities of the commercial sector;
8. NMSs are encouraged to collaborate with their countries' commercial sector and their professional societies to maximize the use of meteorological information within their country.

ANNEX 4 TO RESOLUTION 40 (CG-XII)
DEFINITIONS OF TERMS IN THE PRACTICE AND GUIDELINES

<i>Term</i>	<i>Definition</i>
Practice	Specifications for the classification of, and the conditions attached to, the use of data and products exchanged among WMO Members.
Re-export	Redistribute, physically or electronically, outside the receiving country or group of countries forming a single economic group, directly or through a third party.
For commercial purposes	For recompense beyond the incremental cost of reproduction and delivery.
Commercial sector	Governmental or non-governmental organizations or individuals operating for commercial purposes.
Meteorological and related data and products	Geophysical (meteorological, oceanographic, etc.) observational data and products developed from these data acquired and/or produced by Members to support WMO Programme requirements.
NOTES:	
1. Meteorological and related data and products are considered to include climatological data and products.	
2. Hydrological data and products, at this stage, are not included in the application of the practice.	
3. Aeronautical information generated specifically to serve the needs of aviation and controlled under the Convention on International Civil Aviation (Chicago, 1944) is not included in the application of the practice.	
Free and unrestricted	Non-discriminatory and without charge (Resolution 23 (EC-XLII)) - Guidelines on international aspects of provision of basic and special meteorological services. "Without charge", in the context of this resolution means at no more than the cost of reproduction and delivery, without charge for the data and products themselves.
Research and education communities	Researchers, teachers and students in academic and research institutions, in other research institutions within governmental and non-governmental organizations, and these institutions themselves, as provided for in national laws and regulations.

¹ "Free and unrestricted" means non-discriminatory and without charge (Resolution 23 (EC-XLII)) - Guidelines on international aspects of provision of basic and special meteorological services). "Without charge", in the context of this resolution means at no more than the cost of reproduction and delivery, without charge for the data and products themselves.

² See Annex 4 to this resolution for definitions.

³ "Additional data and products" means data and products additional to those with no conditions on their use.

FEED-BACK FORM

Country: _____

Date of Notification: _____

National Centre:

Compiling Centre: _____

Date of Implementation: _____

LIST OF MEMBERS/CENTRES THAT HAVE IDENTIFIED "ADDITIONAL" DATA AND PRODUCTS

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	Kenya	Kenya Meteorological Department	48
	Portugal (<i>Madeira</i>)	Instituto de Meteorologia, Portugal (Madeira)	49
France (<i>Reunion, Comoros</i>)	Météo France (Reunion, Comoros)	50	
REGION II	Kazakstan.....	KazHYDROMET	51
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REGION III	France (<i>French Guiana</i>).	Météo France (French Guiana)	53
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REGION V	France (<i>French Polynesia</i>)	Dirección Interregional de Polinesia francesa (French Polynesia).....	59
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Country: **CANARY ISLANDS (Spain)**
National Centre: **Instituto Nacional de Meteorología, Madrid**
Compiling Centre: **Las Palmas/Santa Cruz de Tenerife**

Date of Notification: 27 September 1996

Date of Implementation: 1 December 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks		
Data Type/ Form Designator	Geographical/ data type/ Time designator		Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	C	R	20	GCLP	FM 12-X Ext.	SYNOP	03,09,15,21	60020, 60030, 60040, 60338
S	M	C	R	60	GCLP	FM 12-X Ext.	SYNOP	06, 12, 18	60001, 60005, 60010, 60015, 60025, 60035
S	I	C	R	60	GCLP	FM 12-X Ext.	SYNOP	09,15	60001, 60005, 60010, 60015, 60025, 60035

Country: **KENYA**
 National Centre: **Kenya Meteorological Department**
 Compiling Centre: **Nairobi**

Date of Notification: 25 September 1997
 Date of Implementation: -

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC		

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S	I	K	N	20	HKNC	FM 12-X Ext.	SYNOP	Intermediate Hours	63612, 63619, 63624, 63641, 63661, 63671, 63695, 63708, 63714, 63717, 63720, 63723, 63766, 63793, 63799, 63820
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Country: **MADEIRA (Portugal)**
 National Centre: **Instituto de Meteorologia**
 Compiling Centre: **Lisboa**

Date of Notification: 18 July 1996
 Date of Implementation: 31 August 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC		

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S	I	M	D	20	LPMG	FM 12-X Ext.	SYNOP	03, 09, 15, 21	08521, 08524
S	M	M	D	41	LPMG	FM 12-X Ext.	SYNOP	00, 06, 12, 18	08522
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Country: **REUNION, COMOROS (France)**
 National Centre: **Météo France, Toulouse**
 Compiling Centre: **St. Denis**

Date of Notification: 10 October 1996
Date of Implementation: 1 April 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks		
Data Type/ Form Designator	Geographical/Data type/ Time designator		Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	R	E	20	FMEE	FM 12-X Ext.	SYNOP	03, 09, 15, 21	61968, 61970, 61972, 61976, 61980, 67005
S	I	R	E	21	FMEE	FM 12-X Ext.	SYNOP	03, 09, 15	67004

Country: **KAZAKSTAN**
National Centre: **KazHYDROMET**
Compiling Centre: **Almaty**

Date of Notification: 3 May 1996
Date of Implementation: -

ABBREVIATED HEADING		Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator				Distribution Type/ Level Designator
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC

ADDITIONAL DATA

S	M	K	Z	20	UAAA	FM 12-X Ext	SYNOP	00, 06, 12, 18	35633, 35705, 35816, 38044, 38049, 38051, 38069
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Country: **UZBEKISTAN**
 National Centre: **Glavgidromet**
 Compiling Centre: **Tashkent**

Date of Notification: 5 August 1996
 Date of Implementation: -

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator	A1	A2			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			
ADDITIONAL DATA								
S	I	U	Z	20	UTTW	FM 12-X Ext	SYNOP	03, 09, 15, 21 38149, 38178, 38262, 38264, 38396, 38403, 38413, 38457, 38462, 38565, 38579, 38583, 38611, 38618, 38683, 38696, 38812, 38927
S	M	U	Z	34	UTTW	FM 12-X Ext	SYNOP	00, 06, 12, 18 38023, 38141, 38339, 38427, 38551, 38553, 38816, 38818, 38829
S	I	U	Z	34	UTTW	FM 12-X Ext	SYNOP	03, 09, 15, 21 38023, 38141, 38339, 38427, 38551, 38553, 38816, 38818, 38829
S	M	U	Z	35	UTTW	FM 12-X Ext	SYNOP	00, 06, 12, 18 38475, 38606, 38711, 38827
S	I	U	Z	35	UTTW	FM 12-X Ext	SYNOP	03, 09, 15, 21 38475, 38606, 38711, 38827
S	M	U	Z	60	UTTW	FM 12-X Ext	SYNOP	00, 06, 12, 18 38263, 38399, 38407, 38447, 38460, 38465, 38467, 38567, 38577, 38581, 38589, 38592, 38595, 38597, 38605, 38614, 38617, 38699, 38702, 38706, 38707, 38708, 38742, 38749, 38815, 38819, 38828, 38921
S	I	U	Z	60	UTTW	FM 12-X Ext	SYNOP	03, 09, 15, 21 38263, 38399, 38407, 38460, 38465, 38467, 38567, 38574, 38577, 38589, 38592, 38595, 38597, 38605, 38614, 38617, 38685, 38699, 38706, 38707, 38708, 38742, 38749, 38815, 38828, 38921

ADDITIONAL PRODUCTS

1. Forecast charts of the areas covered

53°N, 7°E - 47°N, 96°E; 23°N, 73°E - 25°N, 26°E

Scale: 1:15 000 000

Resolution: 250 km at 60°N

Obs. Time: 1200 UTC

24-hour AT-700 forecast

24-hour AT-500 forecast

24- and 36-hour AT-500 forecast of vertical motion

2. Alphanumeric NWP statistical interpretation products (regional forecasts)

(a) Short-range (24- and 36-hour) statistical forecast of temperature, precipitation and maximum wind speed for Central Asia using 00.00 UTC obs. data

(b) Medium-range (0-120, 144-240 and 0-240 hour) statistical forecast of anomalies and means of minimum, maximum and mean air temperature for Central Asia using 00.00 UTC obs. data

(c) 24-, 48-, 72-, 96- and 120- hour statistical temperature and precipitation forecast for Central Asia using 00.00 UTC and 1200 UTC obs. data.

Country: **FRENCH GUIANA**
 National Centre: **Météo France, Toulouse**
 Compiling Centre: **Cayenne/Rochambeau**

Date of Notification: 10 October 1996
 Date of Implementation: 1 April 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/ Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC		

ADDITIONAL DATA

S	I	F	G	20	SOCA	FM 12-X Ext.	SYNOP	03	81405
S	I	F	G	20	SOCA	FM 12-X Ext.	SYNOP	09, 15, 21	81401, 81405, 81408, 81415

Country: **VENEZUELA**
 National Centre: **Servicio de Meteorologia Fav**
 Compiling Centre: **Maracay**

Date of Notification: 27 May 1996
 Date of Implementation:-

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC		

ADDITIONAL DATA

S	I	V	N	20	SVBS	FM 12-X Ext	SYNOP	03, 09, 15, 21	80400, 80403, 80405, 80407, 80410, 80413, 80415, 80419, 80421, 80423, 80428, 80432, 80435, 80438, 80444, 80447, 80448, 80450, 80453, 80457, 80462
S	I	V	N	21	SVBS	FM 12-X Ext	SYNOP	03, 09, 15, 21	80402, 80412, 80416, 80420, 80425, 80427, 80431, 80434, 80437, 80440, 80442, 80472, 80475, 80476, 80478, 80479
S	M	V	N	21	SVBS	FM 12-X Ext	SYNOP	00, 06, 12, 18	80402, 80412, 80416, 80420, 80425, 80426, 80427, 80431, 80434, 80437, 80440, 80442, 80472, 80475, 80476, 80478, 80479

Country: **GUADELOUPE, ST. BARTHELEMY, ST. MARTIN (France)**
 National Centre: **Météo France, Toulouse**
 Compiling Centre: **Le Raizet**

Date of Notification: 10 October 1996

Date of Implementation: 1 April 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/ Data type/ Time Designator		Distribution Type/ Level Designator	Location Indicator			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC		

ADDITIONAL DATA								
S	I	M	F	20	TFFR	FM 12-X Ext.	SYNOP	03
S	I	M	F	20	TFFR	FM 12-X Ext.	SYNOP	09, 15, 21
78897								
78894, 78897								

Country: **MARTINIQUE (France)**
 National Centre: **Météo France, Toulouse**
 Compiling Centre: **Fort-de-France/Le Lamentin**

Date of Notification: 10 October 1996
 Date of Implementation: 1 April 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks		
Data Type/ Form Designator	Geographical/Data type/ Time designator	Time designator	Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	M	R	20	FFFF	FM 12-X Ext.	SYNOP	03, 09, 15, 21	78925
S	I	M	R	21	FFFF	FM 12-X Ext.	SYNOP	09, 15, 21	78922

Country: **ST. PIERRE AND MIQUELON (France)**
 National Centre: **Météo France, Toulouse**
 Compiling Centre: **Saint-Pierre**

Date of Notification: 10 October 1996
Date of Implementation: 1 April 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks		
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator						
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	F	P	20	LFVP	FM 12-X Ext.	SYNOP	09, 15, 21	71805

Country: **FRENCH POLYNESIA**
 National Centre: **Direction Interrégionale de Polynésie française**
 Compiling Centre: **FAAA, Tahiti**

Date of Notification: 11 July 1996

Date of Implementation: 1 July 1996

ABBREVIATED HEADING				Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC	

ADDITIONAL DATA

S	I	P	F	20	NTAA	FM 12-X Ext.	SYNOP	03	91930, 91938, 91944, 91949, 91952
S	I	P	F	20	NTAA	FM 12-X Ext.	SYNOP	09	91938, 91949, 91952
S	I	P	F	20	NTAA	FM 12-X Ext.	SYNOP	15	91925, 91930, 91938, 91943, 91944, 91945, 91948, 91949, 91952, 91954
S	I	P	F	20	NTAA	FM 12-X Ext.	SYNOP	21	91925, 91930, 91938, 91943, 91944, 91948, 91949, 91952, 91954, 91958

Country: **NEW CALEDONIA**
 National Centre: **Direction Interrégionale de Nouvelle-Calédonie**
 Compiling Centre: **Nouméa**

Date of Notification: 12 July 1996
Date of Implementation: 1 July 1996

ABBREVIATED HEADING				Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographic/IData type/ Time designator	Distribution Type/ Level Designator	Location Indicator			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC	

ADDITIONAL DATA

S	I	N	C	20	NWBB	FM 12-X Ext.	SYNOP	03	91577, 91582, 91583, 91590, 91592
S	I	N	C	20	NWBB	FM 12-X Ext.	SYNOP	09, 15	91583, 91590, 91592
S	I	N	C	20	NWBB	FM 12-X Ext.	SYNOP	21	91577, 91579, 91582, 91583, 91587, 91590, 91592, 91596
S	I	N	C	21	NWBB	FM 12-X Ext.	SYNOP	03, 09, 15, 21	91570, 91574, 91598

Country: **AUSTRIA**
 National Centre: **Central Institute for Meteorology and Geodynamics**
 Compiling Centre: **Vienna**

Date of Notification: 28 February 1996
Date of Implementation: 1 April 1996

ABBREVIATED HEADING				Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/ Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC	

ADDITIONAL DATA

S	I	O	S	21	LOWM	FM 12-X Ext.	SYNOP	03, 09, 15, 21	11010, 11036, 11120, 11150, 11240
S	M	O	S	22	LOWM	FM 12-X Ext.	SYNOP	00, 06, 12, 18	11022, 11028, 11101, 11126, 11130, 11146, 11157, 11172, 11204, 11231, 11245
S	I	O	S	22	LOWM	FM 12-X Ext.	SYNOP	03, 09, 15, 21	11022, 11028, 11101, 11126, 11130, 11146, 11157, 11172, 11204, 11231, 11245

Country: **CZECH REPUBLIC**
 National Centre: **Czech Hydrometeorological Institute**
 Compiling Centre: **Prague**

Date of Notification: 7 May 1996
 Date of Implementation: -

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks		
Data Type/ Form Designator	Geographical/Data type/ Time Designator		Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	C	Z	20	OKPR	FM 12-X Ext	SYNOP	03, 09, 15, 21	11487, 11518, 11659, 11782 (from RBSN stations)
S	M	C	Z	40	OKPR	FM 12-X Ext	SYNOP	00, 06, 12, 18	From non RBSN stations
S	M	C	Z	50	OKPR	FM 12-X Ext	SYNOP	00, 06, 12, 18	From non RBSN stations
S	I	C	Z	40	OKPR	FM 12-X Ext	SYNOP	03, 09, 15, 21	From non RBSN stations
S	I	C	Z	50	OKPR	FM 12-X Ext	SYNOP	03, 09, 15, 21	From non RBSN stations
S	N	C	Z	64	OKPR	FM 12-X Ext	SYNOP	01, 02, 04, 05, 07, 08, 10, 11, 13, 14, 16, 17, 19, 20, 22, 23	From all stations
P	A	C	Z	21	OKPR	FM 94-X Ext	BUFR		Radar: 11520
P	A	C	Z	41	OKPR	FM 94-X Ext	BUFR		Radar: 11520
P	A	C	Z	51	OKPR	FM 94-X Ext	BUFR		Radar: 11520
S	L	C	Z	40	OKOH		CREX		Ozone: 11649

Country: **DENMARK**
 National Centre: **Danish Meteorological Institute**
 Compiling Centre: **Copenhagen**

Date of Notification: 29 January 1996

Date of Implementation: 1 March 1996

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/ Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator	A ₁	A ₂			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			
ADDITIONAL DATA								
S	I	D	N	21	EKMI	FM 12-X Ext	SYNOP	03, 09, 15, 21 06030, 06060, 06070, 06110, 06180, 06193
S	M	D	N	40	EKMI	FM 12-X Ext	SYNOP	00, 06, 12, 18 06024, 06041, 06043, 06048, 06052, 06058, 06069, 06071, 06081, 06096, 06104, 06119, 06120, 06142, 06143, 06156, 06159, 06160, 06168, 06169, 06170, 06179, 06190, 16191
S	I	D	N	40	EKMI	FM 12-X Ext	SYNOP	03, 09, 15, 21 06024, 06041, 06043, 06048, 06052, 06058, 06069, 06071, 06081, 06096, 06104, 06119, 06120, 06142, 06143, 06156, 06159, 06160, 06168, 06169, 06170, 06179, 06190, 16191
S	I	F	A	21	EKMI	FM 12-X Ext	SYNOP	03, 09, 15, 21 06011
S	M	F	A	40	EKMI	FM 12-X Ext	SYNOP	00, 06, 12, 18 06010
S	I	F	A	40	EKMI	FM 12-X Ext	SYNOP	03, 09, 15, 21 06010

Country: **ECMWF**

Date of Notification: 11 June 1996

National Centre:

Date of Implementation: 25 June 1996

Compiling Centre: **Reading**

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator	A ₁	A ₂			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			

ADDITIONAL PRODUCTS

G	P	A-D	A,E,I,S	98	ECMF	FM 47-IX Ext.	GRID	12 (5° x 5°)
G	T	A-D	A,E,I,K,M,O,Q,S	85	ECMF	FM 47-IX Ext.	GRID	12 (5° x 5°)
G	H	A-D	A,E,I,S	50	ECMF	FM 47-IX Ext.	GRID	12 (5° x 5°)
H	P	A-D	A,E,I,S	98	ECMF	FM 92-X Ext.	GRIB	12 (2.5° x 2.5°)
H	T	A-D	A,E,I,K,M,O,Q,S	85	ECMF	FM 92-X Ext.	GRIB	12 (2.5° x 2.5°)
H	H	A-D	A,E,I,S	50	ECMF	FM 92-X Ext.	GRIB	12 (2.5° x 2.5°)
G	W	E-H	A,E,I,K,M,O,Q,S	20	ECMF	FM 47-IX Ext.	GRID	12 (5° x 5°)
H	U,V	E-H	A,E,I,K,M,O,Q,S	20	ECMF	FM 92-X Ext.	GRIB	12 (2.5° x 2.5°)
G	W	E-H	A,E,I,S	85	ECMF	FM 47-IX Ext.	GRID	12 (5° x 5°)
H	U,V	E-H	A,E,I,S	85	ECMF	FM 92-X Ext.	GRIB	12 (2.5° x 2.5°)
G	P	I-L	A,E,I,S	98	ECMF	FM 47-IX Ext.	GRID	12 (5° x 5°)
G	T	I-L	A,E,I,K,M,O,Q,S	85	ECMF	FM 47-IX Ext.	GRID	12 (5° x 5°)
G	H	I-L	A,E,I,S	50	ECMF	FM 47-IX Ext.	GRID	12 (5° x 5°)
H	P	I-L	A,E,I,S	98	ECMF	FM 92-X Ext.	GRIB	12 (2.5° x 2.5°)
H	T	I-L	A,E,I,K,M,O,Q,S	85	ECMF	FM 92-X Ext.	GRIB	12 (2.5° x 2.5°)
H	H	I-L	A,E,I,S	50	ECMF	FM 92-X Ext.	GRIB	12 (2.5° x 2.5°)

Country: FINLAND
National Centre: Finnish Meteorological Institute
Compiling Centre: Helsinki

Date of Notification: 21 February 1996

Date of Implementation: 1 April 1996

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/ Data type/ Time designator		Distribution Type/ Level Designator		Location Indicator			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			

ADDITIONAL DATA

S	I	F	I	20	EFKL	FM 12-X Ext.	SYNOP	03, 09, 15, 21	02836, 02897, 02912, 02935, 02963, 02974
S	I	F	I	21	EFKL	FM 12-X Ext.	SYNOP	03, 09, 15, 21	02805, 02807, 02823, 02848, 02867, 02905, 02917, 02919, 02944, 02952, 02959, 02971, 02976, 02982
S	M	F	I	40	EFKL	FM 12-X Ext.	SYNOP	00, 06, 12, 18	02801, 02844, 02845, 02869, 02874, 02875, 02879, 02910, 02913, 02915, 02924, 02929, 02942, 02945, 02947, 02948, 02961, 02965, 02966, 02972, 02973, 02980, 02981, 02984, 0988, 02990
S	I	F	I	42	EFKL	FM 12-X Ext.	SYNOP	03, 09, 15, 21	02801, 02844, 02845, 02869, 02874, 02875, 02879, 02910, 02913, 02915, 02924, 02929, 02942, 02945, 02947, 02948, 02961, 02965, 02966, 02972, 02973, 02980, 02981, 02984, 0988, 02990

Country: **FRANCE**
 National Centre: **Météo France**
 Compiling Centre: **Toulouse**

Date of Notification: 10 October 1996
 Date of Implementation: 1 April 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			
ADDITIONAL DATA								
S	M	F	R	41	LFPW	FM 12-X Ext.	SYNOP	00, 06, 12, 18 07002, 07010, 07028, 07037, 07038, 07040, 07055, 07061, 07075, 07090, 07168, 07169, 07197, 07288, 07292
S	M	F	R	42	LFPW	FM 12-X Ext.	SYNOP	00, 06, 12, 18 07120, 07127, 07139, 07143, 07147, 07153, 07157, 07200, 07205, 07230, 07235, 07249, 07300, 07306, 07354
S	M	F	R	43	LFPW	FM 12-X Ext.	SYNOP	00, 06, 12, 18 07260, 07379, 07385, 07471, 07482, 07486, 07491, 07497, 07549
S	M	F	R	44	LFPW	FM 12-X Ext.	SYNOP	00, 06, 12, 18 07315, 07330, 07335, 07360, 07412, 07502, 07524, 07530, 07600, 07607, 07610, 07622, 07632
S	M	F	R	45	LFPW	FM 12-X Ext.	SYNOP	00, 06, 12, 18 07560, 07579, 07588, 07635, 07645, 07667, 07670, 07675, 07680, 07749, 07754, 07765, 07770, 07785
S	I	F	R	21	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21 07005, 07015, 07020, 07027, 07070, 07100, 07110, 07121, 07130, 07149, 07180, 07190, 07207, 07222, 07240, 07255, 07265, 07280, 07299, 07314, 07434, 07460, 07481, 07510, 07535, 07558, 07577, 07591, 07621, 07627, 07630, 07643, 07650, 07661, 07690, 07747, 07790
S	I	F	R	41	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21 07002, 07010, 07028, 07037, 07038, 07040, 07055, 07061, 07075, 07090, 07168, 07169, 07197, 07288, 07292
S	I	F	R	42	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21 07120, 07127, 07139, 07143, 07147, 07153, 07157, 07200, 07205, 07230, 07235, 07249, 07300, 07306, 07354
S	I	F	R	43	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21 07260, 07379, 07385, 07471, 07482, 07486, 07491, 07497, 07549
S	I	F	R	44	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21 07315, 07330, 07335, 07360, 07412, 07502, 07524, 07530, 07600, 07607, 07610, 07622, 07632
S	I	F	R	45	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21 07560, 07579, 07588, 07635, 07645, 07667, 07670, 07675, 07680, 07749, 07754, 07765, 07770, 07785
S	I	A	A	21	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21 89642

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			

ADDITIONAL PRODUCTS

G	P/T	O/M	A-E/G/I-K	98	LFPW	FM 47-IX Ext.	GRID	00, 12	(2.5°x2.5°) (75°N-25°N, 50°W-0°E & 0°E-50°E)
G	H/T/U/ V/R	O/M	A-E/G/I-K	99/85/ 70/50/ 40/30/ 20	LFPW	FM 47-IX Ext.	GRID	00, 12	(2.5°x2.5°) (75°N-25°N, 50°W-0°E & 0°E-50°E)
G	O	O/M	A-E/G/I-K	99/85/ 70/50	LFPW	FM 47-IX Ext.	GRID	00, 12	(2.5°x2.5°) (75°N-25°N, 50°W-0°E & 0°E-50°E)
H	P	H	A/C/E/G/I-K	89/98	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	T/R	H	A/C/E/G/I-K	98	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	U/V	H	A/C/E/G/I-K	98	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	H/T/U/V/ R	H	A/C/E/G/I-K	95/92/ 85/70/ 50/40/ 30/25/ 20/15/ 10	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	G	H	A/C/E/G/I-K	92/20	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	O	H	A/C/E/G/I-K	50	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	E/F	H	A/C/E/G/I-K	98	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	P	U	A-K	89	LFPW	FM 92-X Ext.	GRIB	00, 12	(1°x1°) (60°W-65°E: West to East, 80°N-10°N: South to North)
H	H/T/U/V/ Q	U	A-K	85/70/ 50/30	LFPW	FM 92-X Ext.	GRIB	00, 12	(1°x1°) (60°W-65°E: West to East, 80°N-10°N: South to North)
H	R/O	U	A-K	70	LFPW	FM 92-X Ext.	GRIB	00, 12	(1°x1°) (60°W-65°E: West to East, 80°N-10°N: South to North)
H	W	U	A-K	50	LFPW	FM 92-X Ext.	GRIB	00, 12	(1°x1°) (60°W-65°E: West to East, 80°N-10°N: South to North)

Country: **GERMANY**
 National Centre: **Deutscher Wetterdienst**
 Compiling Centre: **Offenbach a.M.**

Date of Notification: 9 February 1996
 Date of Implementation: 1-31 March 1996

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator	A ₁	A ₂			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			
ADDITIONAL DATA								
S	I	D	L	21	EDZW	FM 12-X Ext.	SYNOP	03, 09, 15, 21 10004, 10015, 10020, 10035, 10063, 10147, 10162, 10184, 10224, 10270, 10338, 10361, 10393, 10400, 10438, 10469, 10488, 10506, 10548, 10637, 10685, 10738, 10763, 10788, 10852
ADDITIONAL PRODUCTS (From the "Global-Modell" of Deutscher Wetterdienst)								
D	P,T,Z,U,V	A-R	A-S	98	EDZW	FM 47-IX Ext.	GRID	00,12 (2.5° x 2.5°) Area (A ₁ = A-R) see Note (1)
D	H,T,U,V	A-R	A-S	85,70,50,30, 25,20,10,05	EDZW	FM 47-IX Ext.	GRID	00,12 (2.5° x 2.5°) Area (A ₁ = A-R) see Note (1)
D	R	A-R	A-S	85,70,50	EDZW	FM 47-IX Ext.	GRID	00,12 (2.5° x 2.5°) Area (A ₁ = A-R) see Note (1)
D	O	A-R	A-S	70,50	EDZW	FM 47-IX Ext.	GRID	00,12 (2.5° x 2.5°) Area (A ₁ = A-R) see Note (1)
D	E	A-R	A-S	98	EDZW	FM 47-IX Ext.	GRID	00,12 (2.5° x 2.5°) Area (A ₁ = A-R) see Note (1)
D	M	A-F	A-S	50	EDZW	FM 47-IX Ext.	GRID	00,12 (2.5° x 2.5°) Area (A ₁ = A-F) see Note (1)
D	D	A-F	A-S	95	EDZW	FM 47-IX Ext.	GRID	00,12 (2.5° x 2.5°) Area (A ₁ = A-F) see Note (1)
D	Q	A-F	A-S	85	EDZW	FM 47-IX Ext.	GRID	00,12 (2.5° x 2.5°) Area (A ₁ = A-F) see Note (1)
D	X	A-F	A-S	95	EDZW	FM 47-IX Ext.	GRID	00,12 (2.5° x 2.5°) Area (A ₁ = A-F) see Note (1)
H	P,T,Z,U,V	A-D,I-L	A-S	98	EDZW	FM 92-X Ext.	GRIB	00,12 (1.5° x 1.5°) Area (A ₁ = A-D, I-L) see Note (2)
H	H,T,U,V	A-D,I-L	A-S	85,70,50,30,25, 20,10,05	EDZW	FM 92-X Ext.	GRIB	00,12 (1.5° x 1.5°) Area (A ₁ = A-D, I-L) see Note (2)
H	R	A-D,I-L	A-S	85,70,50	EDZW	FM 92-X Ext.	GRIB	00,12 (1.5° x 1.5°) Area (A ₁ = A-D, I-L) see Note (2)
H	O	A-D,I-L	A-S	70,50	EDZW	FM 92-X Ext.	GRIB	00,12 (1.5° x 1.5°) Area (A ₁ = A-D, I-L) see Note (2)
H	E	A-D,I-L	A-S	98	EDZW	FM 92-X Ext.	GRIB	00,12 (1.5° x 1.5°) Area (A ₁ = A-D, I-L) see Note (2)
H	M	A-D	A-S	50	EDZW	FM 92-X Ext.	GRIB	00,12 (1.5° x 1.5°) Area (A ₁ = A-D) see Note (2)
H	D	A-D	A-S	95	EDZW	FM 92-X Ext.	GRIB	00,12 (1.5° x 1.5°) Area (A ₁ = A-D) see Note (2)
H	Q	A-D	A-S	85	EDZW	FM 92-X Ext.	GRIB	00,12 (1.5° x 1.5°) Area (A ₁ = A-D) see Note (2)

ABBREVIATED HEADING						Code Form Used			Time Group (GG)		Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator		Distribution Type/ Level Designator	Location Indicator								
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC							
H	Z	A-D	A-S	95	EDZW	FM 92-X Ext.	GRIB	00,12	(1.5° x 1.5°) Area (A ₁ = A-D) see Note (2)			
ADDITIONAL PRODUCTS (From the "Europa-Modell" of Deutscher Wetterdienst)												
X	P,T,Z,U,V	A-S	A,C,E,G, I,K,M,O, Q-V	98	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)			
X	H,T,U,V	A-S	A,C,E,G, I,K,M,O, Q-V	85,70,50,30,25, 20,10,05	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)			
X	R	A-S	A,C,E,G, I,K,M,O, Q-V	85,70, 50	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)			
X	O	A-S	A,C,E,G, I,K,M,O, Q-V	70,50	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)			
X	E	A-S	A,C,E,G, I,K,M,O, Q-V	98	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)			
X	Q	A-S	A,C,E,G, I,K,M,O, Q-V	85	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)			
X	X	A-S	A,C,E,G, I,K,M,O, Q-V	95	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)			
X	W	A-S	A,C,E,G, I,K,M,O, Q-V	98	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)			
Y	P,T,Z,U,V	A-J	A,C,E,G, I,K,M,O, Q-V	98	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A1 = A-J) see Note (4)			
Y	H,T,U,V	A-J	A,C,E,G, I,K,M,O, Q-V	85,70,50,30,25, 20,10,05	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A1 = A-J) see Note (4)			
Y	R	A-J	A,C,E,G, I,K,M,O, Q-V	85,70,50	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A1 = A-J) see Note (4)			
Y	O	A-J	A,C,E,G, I,K,M,O, Q-V	70,50	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A1 = A-J) see Note (4)			
Y	E	A-J	A,C,E,G, I,K,M,O, Q-V	98	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A1 = A-J) see Note (4)			

ABBREVIATED HEADING						Code Form Used		Time Group (GG)		Content of Bulletin and Remarks	
Data Type/ Form Designator		Geographical/DataType/ Time designator		Distribution Type/ Level Designator		Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC						
Y	Q	A-J	A,C,E,G, I,K,M,O, Q-V	85	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A1 = A-J) see Note (4)		
Y	X	A-J	A,C,E,G, I,K,M,O, Q-V	95	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A1 = A-J) see Note (4)		
Y	W	A-J	A,C,E,G, I,K,M,O, Q-V	98	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A1 = A-J) see Note (4)		

NOTES:

(1)	A ₁ = A	(30°E - 30°W, 90°N - 30°N)	A ₁ = G	(30°E - 30°W, 30°N - 30°S)	A ₁ = M	(30°E - 30°W, 30°S - 90°S)
	A ₁ = B	(30°W - 90°W, 90°N - 30°N)	A ₁ = H	(30°W - 90°W, 30°N - 30°S)	A ₁ = N	(30°W - 90°W, 30°S - 90°S)
	A ₁ = C	(90°W - 150°W, 90°N - 30°N)	A ₁ = I	(90°W - 150°W, 30°N - 30°S)	A ₁ = O	(90°W - 150°W, 30°S - 90°S)
	A ₁ = D	(150°W - 150°E, 90°N - 30°N)	A ₁ = J	(150°W - 150°E, 30°N - 30°S)	A ₁ = P	(150°W - 150°E, 30°S - 90°S)
	A ₁ = E	(150°E - 90°E, 90°N - 30°N)	A ₁ = K	(150°E - 90°E, 30°N - 30°S)	A ₁ = Q	(150°E - 90°E, 30°S - 90°S)
	A ₁ = F	(90°E - 30°E, 90°N - 30°N)	A ₁ = L	(90°E - 30°E, 30°N - 30°S)	A ₁ = R	(90°E - 30°E, 30°S - 90°S)

(2)	A ₁ = A	(0° - 90°W, Northern Hemisphere)	A ₁ = I	(0° - 90°W, Southern Hemisphere)
	A ₁ = B	(90°W - 180°W, Northern Hemisphere)	A ₁ = J	(90°W - 180°W, Southern Hemisphere)
	A ₁ = C	(180° - 90°E, Northern Hemisphere)	A ₁ = K	(180° - 90°E, Southern Hemisphere)
	A ₁ = D	(90°E - 0°E, Northern Hemisphere)	A ₁ = L	(90°E - 0°E, Southern Hemisphere)

(3)	Lower left corner:		Upper right corner:	
	Longitude	Latitude	Longitude	Latitude
A ₁ = A	56.46°W	33.95°N	77.50°W	62.55°N
A ₁ = B	38.94°W	54.14°N	10.00°E	88.78°N
A ₁ = C	10.00°E	66.00°N	97.50°E	62.55°N
A ₁ = D	39.66°W	24.75°N	38.94°W	54.14°N
A ₁ = E	20.48°W	38.63°N	10.00°E	66.00°N
A ₁ = F	10.00°E	44.98°N	58.94°E	54.14°N
A ₁ = G	28.37°W	13.66°N	20.48°W	38.63°N
A ₁ = H	11.60°W	22.92°N	10.00°E	44.98°N
A ₁ = I	10.00°E	26.70°N	40.48°E	38.63°N
A ₁ = J	02.79°W	37.42°N	33.95°E	59.85°N

	Lower left corner:		Upper right corner:	
	Longitude	Latitude	Longitude	Latitude
A ₁ = K	19.40°W	50.42°N	05.49°W	65.13°N
A ₁ = L	00.64°W	54.62°N	25.49°E	65.13°N
A ₁ = M	20.64°E	54.62°N	49.73°E	59.10°N
A ₁ = N	13.09°W	41.49°N	00.64°W	54.62°N
A ₁ = O	01.91°E	44.57°N	20.64°E	54.62°N
A ₁ = P	18.09°E	44.57°N	39.40°E	50.42°N
A ₁ = Q	08.92°W	32.83°N	01.91°E	44.57°N
A ₁ = R	03.48°E	35.16°N	18.09°E	44.57°N
A ₁ = S	16.52°E	35.16°N	33.09°E	41.49°N

(4)	Lower left corner:		Upper right corner:	
	Longitude	Latitude	Longitude	Latitude
A ₁ = A	56.46°W	33.95°N	77.50°W	62.55°N
A ₁ = B	38.94°W	54.14°N	10.00°E	88.78°N
A ₁ = C	10.00°E	66.00°N	97.50°E	62.55°N
A ₁ = D	39.66°W	24.75°N	38.94°W	54.14°N
A ₁ = E	20.48°W	38.63°N	10.00°E	66.00°N
A ₁ = F	10.00°E	44.98°N	58.94°E	54.14°N
A ₁ = G	28.37°W	13.66°N	20.48°W	38.63°N
A ₁ = H	11.60°W	22.92°N	10.00°E	44.98°N
A ₁ = I	10.00°E	26.70°N	40.48°E	38.63°N
A ₁ = J	02.79°W	37.42°N	33.95°E	59.85°N

Country: **GREECE**
 National Centre: **Hellenic National Meteorological Service**
 Compiling Centre: **Athens**

Date of Notification: 9 February 1996
 Date of Implementation: -

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical Data type/ Time designator	Geographical Data type/ Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			
ADDITIONAL DATA								
S	I	G	R	20	LGAT	FM 12-X Ext.	SYNOP	03, 09, 15, 21 16622, 16641, 16682, 16716, 16734, 16743, 16749, 16754
S	I	G	R	21	LGAT	FM 12-X Ext.	SYNOP	03, 09, 15, 21 16624, 16643, 16650, 16675, 16684, 16706, 16732, 16742
S	I	G	R	22	LGAT	FM 12-X Ext.	SYNOP	03, 09, 15, 21 16614, 16627, 16667, 16738, 16746, 16765

Country: **HUNGARY**
 National Centre: **Hungarian Meteorological Service**
 Compiling Centre: **Budapest**

Date of Notification: 14 May 1996

Date of Implementation: 13 May 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC		

ADDITIONAL DATA

S	M	H	U	20	HABP	FM 12-X Ext	SYNOP	00, 06, 12, 18	12805, 12812, 12851, 12892, 12910, 12920, 12935, 12950, 12960, 12992
S	I	H	U	20	HABP	FM 12-X Ext	SYNOP	03, 09, 15, 21	12843, 12882, 12925, 12982
S	I	H	U	21	HABP	FM 12-X Ext	SYNOP	03, 09, 15, 21	12805, 12812, 12851, 12892, 12910, 12920, 12935, 12950, 12960, 12992

DATA FOR REGIONAL OR BILATERAL EXCHANGE

S	N	H	U	86	HABP	FM 12-X Ext	SYNOP	Hourly	Data of all Hungarian synoptic stations
P	A	H	U	21	HABP	FM 94-X Ext.	BUFR		Radar
P	A	H	U	41	HABP	FM 94-X Ext.	BUFR		Radar
P	A	H	U	42	HABP	FM 94-X Ext.	BUFR		Radar
P	A	H	U	43	HABP	FM 94-X Ext.	BUFR		Radar
S	U	H	U	30	HABP				Snow report

Country: **ICELAND**
 National Centre: **The Icelandic Meteorological Office**
 Compiling Centre: **Reykjavik**

Date of Notification: 7 February 1996

Date of Implementation: -

ABBREVIATED HEADING		Code Form Used	Time Group (GG)	Content of Bulletin and Remarks					
Data Type/ Form Designator	Geographical/Data type/ Time designator								
T ₁	T ₂	A ₁	A ₂	(ii) CCCC					

ADDITIONAL DATA

S	I	I	L	21	BIRK	FM 12-X Ext.	SYNOP	03, 09, 15, 21	04005, 04018, 04063, 04077, 04082
S	I	I	L	22	BIRK	FM 12-X Ext.	SYNOP	03, 09, 15, 21	04030, 04048, 04097

Country: **IRELAND**
 National Centre: **The Irish Meteorological Service - MET EIREANN**
 Compiling Centre: **Dublin**

Date of Notification: 19 July 1996
 Date of Implementation: 7 August 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/DataType	Time designator	Distribution Type/ Level Designator	Location Indicator			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC		

ADDITIONAL DATA

S	I	I	E	21	EIDB	FM 12-X Ext.	SYNOP	03,09,15,21	03953, 03955, 03957, 03962, 03967, 03969, 03973, 03976, 03980
S	N	I	E	21	EIDB	FM 12-X Ext.	SYNOP	01,02,04,05,07,08,10,11,13,14,1 6,17,19,20,22,23	03953, 03955, 03957, 03962, 03967, 03969, 03973, 03976, 03980
S	M	I	E	22	EIDB	FM 12-X Ext.	SYNOP	00,06,12,18	03960, 03965, 03971, 03974
S	I	I	E	22	EIDB	FM 12-X Ext.	SYNOP	03,09,15,21	03960, 03965, 03971, 03974
S	N	I	E	22	EIDB	FM 12-X Ext.	SYNOP	01,02,04,05,07,08,10,11,13,14,1 6,17,19,20,22,23	03960, 03965, 03971, 03974
S	M	I	E	23	EIDB	FM 12-X Ext.	SYNOP	00,06,12,18	03970, 03978
S	I	I	E	23	EIDB	FM 12-X Ext.	SYNOP	03,09,15,21	03970, 03978
S	N	I	E	23	EIDB	FM 12-X Ext.	SYNOP	01,02,04,05,07,08,10,11,13,14,1 6,17,19,20,22,23	03970, 03978
S	R	I	E	40	EIDB	FM 67-VI	HYDRA	Hourly (00-24)	Rainfall for Irish stations
S	X	I	E	40	EIDB			09	Minimum temperatures, grass minimum temperatures for all Irish stations
S	X	I	E	41	EIDB			21	Maximum temperatures, sunshine for all Irish stations

Country: ISRAEL
National Centre: Meteorological Service
Compiling Centre: Bet-Dagan

Date of Notification: 23 October 1996

Date of Implementation: -

ADDITIONAL DATA

S I I S 21 LLBD FM 12-X Ext. SYNOP 03,09,15,21 40155, 40180, 40199

Country: **LATVIA**
 National Centre: **Latvian Hydrometeorological Agency**
 Compiling Centre: **Riga**

Date of Notification: 10 October 1996
 Date of Implementation: -

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/ Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC		

ADDITIONAL DATA

S	M	L	V	40	UMRR	FM 12-X Ext.	SYNOP	00, 06, 12, 18	28238, 26318, 26326, 26335, 26339, 26346, 26425
S	M	L	V	41	UMRR	FM 12-X Ext.	SYNOP	00, 06, 12, 18	26403, 26416, 26424, 26429, 26435, 26436, 26551
S	I	L	V	40	UMRR	FM 12-X Ext.	SYNOP	03,09,15,21	28238, 26318, 26326, 26335, 26339, 26346, 26425
S	I	L	V	41	UMRR	FM 12-X Ext.	SYNOP	03,09,15,21	26403, 26416, 26424, 26429, 26435, 26436, 26551

Country: **NETHERLANDS**
 National Centre: **NMC de Bilt**
 Compiling Centre: **de Bilt**

Date of Notification: 26 February 1996
 Date of Implementation: 1 May 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC		

ADDITIONAL DATA

S	I	N	L	20	EHDB	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06239, 06252, 06260, 06270, 06290
S	I	N	L	21	EHDB	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06235, 06240, 06280, 06310, 06344, 06350, 06375, 06380
S	I	N	L	52	EHDB	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06210, 06225, 06242, 06250, 06265, 06268, 06275, 06330, 06340, 06370
S	M	N	L	21	EHDB	FM 12-X Ext	SYNOP	00, 06, 12, 18	06235, 06240, 06280, 06310, 06344, 06350, 06375, 06380
S	M	N	L	52	EHDB	FM 12-X Ext	SYNOP	00, 06, 12, 18	06210, 06225, 06242, 06250, 06265, 06268, 06275, 06330, 06340, 06370
S	N	N	L	50	EHDB	FM 12-X Ext	SYNOP	Non standard	06239, 06252, 06260, 06270, 06290
S	N	N	L	51	EHDB	FM 12-X Ext	SYNOP	Non standard	06235, 06240, 06280, 06310, 06344, 06350, 06375, 06380
S	N	N	L	52	EHDB	FM 12-X Ext	SYNOP	Non standard	06210, 06225, 06242, 06250, 06265, 06268, 06275, 06330, 06340, 06370

NOTE: 'Non-standard' refers to all hours except 00, 03, 06, 09, 12, 15, 18 & 21 UTC

Country: **NORWAY**
 National Centre: **Norwegian Meteorological Institute**
 Compiling Centre: **Oslo**

Date of Notification: 15 February 1996

Date of Implementation: 13 March 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/DataType	Time Designator	Distribution Type/ Level Designator	Location Indicator			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC		

ADDITIONAL DATA

S	I	N	O	21	ENMI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	01001, 01008, 01025, 01028, 01055, 01062, 01098, 01106, 01152, 01205, 01241, 01384, 01415, 01482
S	I	N	O	22	ENMI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	01010, 01049, 01078, 01102, 01228, 01271, 01311, 01367, 01389, 01403, 01448, 01477,
S	M	N	O	43	ENMI	FM 12-X Ext.	SYNOP	00, 06, 12, 18	01003, 01023, 01033, 01059, 01089, 01115, 01160, 01167, 01212, 01224, 01238, 01288, 01304, 01317, 01360, 01406, 01427, 01452, 01465, 01474, 01488, 01494
S	I	N	O	43	ENMI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	01003, 01023, 01033, 01059, 01089, 01115, 01160, 01167, 01212, 01224, 01238, 01288, 01304, 01317, 01360, 01406, 01427, 01452, 01465, 01474, 01488, 01494
S	M	N	O	44	ENMI	FM 12-X Ext.	SYNOP	00, 06, 12, 18	01004, 01034, 01043, 01047, 01065, 01075, 01210, 01218, 01227, 01240, 01280, 01292, 01424, 01435, 01442, 01455, 01467
S	I	N	O	44	ENMI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	01004, 01034, 01043, 01047, 01065, 01075, 01210, 01218, 01227, 01240, 01280, 01292, 01424, 01435, 01442, 01455, 01467
S	M	N	O	45	ENMI	FM 12-X Ext.	SYNOP	00, 06, 12, 18	01015, 01035, 01103, 01121, 01134, 01137, 01138, 01149, 01154, 01189, 01191, 01194, 01199, 01245, 01252, 01262, 01274, 01278, 01322, 01325, 01330, 01336, 01341, 01355, 01357, 01364, 01372, 01374, 01380, 01391, 01393, 01417, 01425, 01432, 01436, 01446, 01496, 01498
S	I	N	O	45	ENMI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	01015, 01035, 01103, 01121, 01134, 01137, 01138, 01149, 01154, 01189, 01191, 01194, 01199, 01245, 01252, 01262, 01274, 01278, 01322, 01325, 01330, 01336, 01341, 01355, 01357, 01364, 01372, 01374, 01380, 01391, 01393, 01417, 01425, 01432, 01436, 01446, 01496, 01498

NOTE: Some stations are not available at synoptic hours

Country: **PORTUGAL, AZORES**
 National Centre: **Instituto de Meteorologia**
 Compiling Centre: **Lisboa**

Date of Notification: 18 July 1996
 Date of Implementation: 31 August 1996

ABBREVIATED HEADING				Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Designator	Data type/ Distribution Type	Level Designator			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC	

ADDITIONAL DATA

S	I	P	O	21	LPMG	FM 12-X Ext.	SYNOP	03, 09, 15, 21	08501, 08509, 08515, 08538, 08545, 08548, (originally 08549, changed effective 1.5.96), 08554, 08558, 08570, 08575, 08579
S	M	P	O	41	LPMG	FM 12-X Ext.	SYNOP	00, 06, 12, 18	08543, 08546, 08560, 08567
S	I	P	O	41	LPMG	FM 12-X Ext.	SYNOP	03, 09, 15, 21	08543, 08546, 08560, 08567
S	N	P	O	41	LPMG	FM 12-X Ext.	SYNOP	01, 02, 04..	08543, 08546, 08560, 08567, 08575
S	M	P	O	42	LPMG	FM 12-X Ext.	SYNOP	00, 06, 12, 18	08530, 08535, 08568
S	I	P	O	42	LPMG	FM 12-X Ext.	SYNOP	03, 09, 15, 21	08530, 08535, 08568
S	N	P	O	42	LPMG	FM 12-X Ext.	SYNOP	01, 02, 04..	08548, 08568, 08570, 08579
S	M	P	O	43	LPMG	FM 12-X Ext.	SYNOP	00, 06, 12, 18	08541, 08558, 08562, 08571
S	I	P	O	43	LPMG	FM 12-X Ext.	SYNOP	03, 09, 15, 21	08541, 08558, 08562, 08571
S	N	P	O	43	LPMG	FM 12-X Ext.	SYNOP	01, 02, 04..	08541, 08554, 08558, 08562, 08571
S	M	P	O	44	LPMG	FM 12-X Ext.	SYNOP	00	08532, 08534, 08539, 08540, 08544, 08552, 08561
S	M	P	O	44	LPMG	FM 12-X Ext.	SYNOP	06, 12, 18	08532, 08534, 08539, 08540, 08544, 08552, 08561
S	I	P	O	44	LPMG	FM 12-X Ext.	SYNOP	09	08532, 08534, 08539, 08540, 08544, 08552, 08561

ABBREVIATED HEADING				Code Form Used		Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			
S	I	P	O	44	LPMG	FM 12-X Ext.	SYNOP	15 08532, 08534, 08540, 08544, 08552, 08561
S	M	A	Z	41	LPMG	FM 12-X Ext.	SYNOP	00, 06, 12, 18 08505, 08506, 08511, 08512
S	I	A	Z	41	LPMG	FM 12-X Ext.	SYNOP	03, 09, 15, 21 08505, 08506, 08511, 08512
S	N	A	Z	41	LPMG	FM 12-X Ext.	SYNOP	01, 02, 04.. 08501, 08506, 08511, 08512
C	S	P	O	41	LPMG	FM 71-X	CLIMAT	08543, 08545, 08560, 08567
C	S	P	O	42	LPMG	FM 71-X	CLIMAT	08530, 08568, 08579
C	S	P	O	43	LPMG	FM 71-X	CLIMAT	08538, 08541, 08562, 08571
C	S	A	Z	41	LPMG	FM 71-X	CLIMAT	08506, 08511, 08512

Country: **SLOVENIA**
 National Centre: **Slovenian Hydrometeorological Institute**
 Compiling Centre: **Ljubljana**

Date of Notification: 24 July 1996
 Date of Implementation: -

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC		

ADDITIONAL DATA

S	N	L	J	20	LJLM	FM 12-X Ext.	SYNOP	01,02,04,05,07,08,10,11,13, 14,16,17,19,20,22,23	14014 (For unrestricted use)
S	N	L	J	21	LJLM	FM 12-X Ext.	SYNOP	01,02,04,05,07,08,10,11,13, 14,16,17,19,20,22,23	14008, 14015, 14023, 14024, 14025, 14026, 14031, 14105, 14106, 14121
S	N	L	J	50	LJLM	FM 12-X Ext.	SYNOP	04,05,07,08,10,11,13	14007, 14021
P	A	L	J	41	LJLM		RADAR picture	As available	14024

Country: **SPAIN**
 National Centre: **Instituto Nacional de Meteorología**
 Compiling Centre: **Madrid**

Date of Notification: 27 September 1996

Date of Implementation: 1 December 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/ Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC		

ADDITIONAL DATA

U	S	S	P	40	LEMM	FM 35-X Ext.	TEMP		Stations providing soundings on national request
U	K	S	P	40	LEMM	FM 35-X Ext.	TEMP		Stations providing soundings on national request
U	L	S	P	40	LEMM	FM 35-X Ext.	TEMP		Stations providing soundings on national request
U	E	S	P	40	LEMM	FM 35-X Ext.	TEMP		Stations providing soundings on national request
S	I	S	P	20	LEMM	FM 12-X Ext.	SYNOP	03,09,15,21	08001, 08015, 08023, 08027, 08045, 08141, 08160, 08181, 08221, 08261, 08284, 08306, 08314, 08391, 08430, 08482
S	I	S	P	21	LEMM	FM 12-X Ext.	SYNOP	03,09,15,21	08055 (not at 03 & 21 UTC), 08084, 08094 (not at 03 & 21 UTC), 08148 (not at 03 & 21 UTC), 08184, 08202, 08235 (not at 03 & 21 UTC), 08238, 08272 (not at 03 & 21 UTC), 08280, 08330 (not at 03 & 21 UTC), 08348, 08360, 08373, 08410, 08417 (not at 03 & 21 UTC), 08419, 08451, 08487
S	M	S	P	60	LEMM	FM 12-X Ext.	SYNOP	06, 12, 18	08008, 08011, 08014, 08021, 08025, 08029, 08042, 08044, 08048, 08053, 08075, 08080, 08085, 08130, 08140, 08171, 08175, 08210, 08213, 08215, 08224, 08226, 08231, 08232, 08286
S	M	S	P	61	LEMM	FM 12-X Ext.	SYNOP	06, 12, 18	08003, 08005, 08043, 08046 (not at 12 UTC), 08112, 08117, 08157, 08220, 08223, 08233, 08285 (not at 12 UTC), 08335, 08359 (not at 12 UTC), 08383, 08397, 08429, 08431, 08433, 08458, 60320
S	I	S	P	60	LEMM	FM 12-X Ext.	SYNOP	09,15	08008, 08011, 08014, 08021, 08025, 08029, 08042, 08044, 08048, 08053, 08075, 08080, 08085, 08130, 08140, 08171, 08175, 08210, 08213, 08215, 08224, 08226, 08231, 08232, 08286
S	I	S	P	61	LEMM	FM 12-X Ext.	SYNOP	09,15	08335, 08383, 08397, 08429, 08433, 08458, 60320
S	I	S	P	61	LEMM	FM 12-X Ext.	SYNOP	21	08433

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			
C	S	S	P	40	LEMM	FM 71-X	CLIMAT	08002, 08003, 08008, 08011, 08014, 08021, 08025, 08029, 08042, 08043, 08044, 08048
C	S	S	P	41	LEMM	FM 71-X	CLIMAT	08053, 08075, 08080, 08085, 08117, 08130, 08140, 08171, 08175, 08210
C	S	S	P	42	LEMM	FM 71-X	CLIMAT	08213, 08215, 08219, 08223, 08224, 08226, 08227, 08231, 08232, 08279
C	S	S	P	43	LEMM	FM 71-X	CLIMAT	08285, 08286, 08301, 08359, 08383, 08397, 08420, 08429, 08433, 08449
C	S	S	P	44	LEMM	FM 71-X	CLIMAT	08452, 08458, 06001, 60005, 60010, 60015, 60025, 60035, 60320
S	N	S	P	60	LEMM		NIVOMET	08 Nivometeorological Data: 08912, 08914, 08916, 08917, 08918, 08922, 08924, 08930, 08960
S	N	S	P	60	LEMM		NIVOMET	08, 13 Nivometeorological Data: 08920, 08926, 08928, 08929
S	N	S	P	61	LEMM		NIVOMET	08 Nivometeorological Data: 08932, 08934, 08936, 08938, 08940, 08942, 08944, 08946, 08948
S	N	S	P	61	LEMM		NIVOMET	08, 13 Nivometeorological Data: 08117

Country: **SWEDEN**
 National Centre: **Swedish Meteorological and Hydrological Institute**
 Compiling Centre: **Norrköping**

Date of Notification: 23 February 1996

Date of Implementation: 31 March 1996

ABBREVIATED HEADING				Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/DataType/ Time designator	Distribution Type/ Level Designator	Location Indicator			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC	

ADDITIONAL DATA

S	I	S	N	21	ESWI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	02020, 02043, 02080, 02096, 02104, 02120, 02128, 02142, 02186, 02222, 02226, 02244, 02288, 02296, 02324, 02366, 02376, 02410, 02418, 02456, 02464, 02496, 02500, 02520, 02562, 02566, 02584, 02616, 02620, 02664, 02680
S	M	S	N	41	ESWI	FM 12-X Ext.	SYNOP	00, 06, 12, 18	02012, 02036, 02049, 02118, 02124, 02154, 02159, 02181, 02188, 02196, 02206, 02221, 02245, 02247, 02269, 02274, 02286, 02316, 02400, 02424, 02446, 02516, 02550, 02586, 02590, 02626
S	I	S	N	41	ESWI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	02012, 02036, 02049, 02118, 02124, 02154, 02159, 02181, 02188, 02196, 02206, 02221, 02245, 02247, 02269, 02274, 02286, 02316, 02400, 02424, 02446, 02516, 02550, 02586, 02590, 02626
S	M	S	N	43	ESWI	FM 12-X Ext.	SYNOP	00, 06, 12, 18	02308, 02338, 02355, 02408, 02417, 02432, 02435, 02453, 02458, 02476, 02485, 02488, 02505, 02513, 02518, 02536, 02567, 02571, 02575, 02605, 02611, 02614, 02625, 02628, 02641, 02644, 02670
S	I	S	N	43	ESWI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	02308, 02338, 02355, 02408, 02417, 02432, 02435, 02453, 02458, 02476, 02485, 02488, 02505, 02513, 02518, 02536, 02567, 02571, 02575, 02605, 02611, 02614, 02625, 02628, 02641, 02644, 02670

Country: **SWITZERLAND**
 National Centre: **Schweizerische Meteorologische Anstalt**
 Compiling Centre: **Zürich**

Date of Notification: 9 February 1996
 Date of Implementation: 7 February 1996

ABBREVIATED HEADING					Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/DataType	Time Designator	Distribution Type/ Level Designator	Location Indicator			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC		

ADDITIONAL DATA

S	D	S	W	21	LSSW		RADOB	00, 03, 06, 09, 12, 18, 21	06610
S	D	S	W	22	LSSW		RADOB	00, 03, 06, 09, 12, 18, 21	06700
S	I	S	W	21	LSSW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06610
S	I	S	W	22	LSSW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06670, 06700, 06720, 06750, 06762, 06990
S	I	S	W	23	LSSW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06604, 06612, 06616, 06628, 06639, 06643, 06660, 06669, 06672, 06680, 06681, 06689, 06702, 06712, 06724, 06730, 06734, 06753, 06756, 06759, 06760, 06770, 06771, 06782, 06783, 06786, 06791, 06792, 06794
S	I	S	W	42	LSSW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06601, 06605, 06609, 06619, 06620, 06621, 06631, 06633, 06645, 06650, 06655, 06659, 06664, 06673, 06679, 06685, 06705, 06711, 06716, 06717, 06722, 06727, 06735, 06744, 06745, 06748, 06751, 06780, 06784, 06788, 06798
S	M	S	W	23	LSSW	FM 12-X Ext.	SYNOP	00, 06, 12 18	06604, 06612, 06616, 06628, 06639, 06643, 06660, 06669, 06672, 06680, 06681, 06689, 06702, 06712, 06724, 06730, 06734, 06753, 06756, 06759, 06760, 06770, 06771, 06782, 06783, 06786, 06791, 06792, 06794
S	M	S	W	42	LSSW	FM 12-X Ext.	SYNOP	00, 06, 12 18	06601, 06605, 06609, 06619, 06620, 06621, 06631, 06633, 06645, 06650, 06655, 06659, 06664, 06673, 06679, 06685, 06705, 06711, 06716, 06717, 06722, 06727, 06735, 06744, 06745, 06748, 06751, 06780, 06784, 06788, 06798
S	N	S	W	41	LSSW	FM 12-X Ext.	SYNOP	every hour	06604, 06610, 06612, 06616, 06628, 06639, 06643, 06660, 06669, 06670, 06672, 06680, 06681, 06689, 06700, 06702, 06712, 06720, 06724, 06730, 06734, 06750, 06753, 06756, 06759, 06760, 06762, 06770, 06771, 06782, 06783, 06786, 06791, 06792, 06794, 06990
S	N	S	W	42	LSSW	FM 12-X Ext.	SYNOP	every hour	06601, 06605, 06609, 06619, 06620, 06621, 06631, 06633, 06645, 06650, 06655, 06659, 06664, 06673, 06679, 06685, 06705, 06711, 06716, 06717, 06722, 06727, 06735, 06744, 06745, 06748, 06751, 06780, 06784, 06788, 06798

Country: **UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**
 National Centre: **The Meteorological Office**
 Compiling Centre: **Bracknell**

Date of Notification: 15 October 1997
 Date of Implementation: 13 October 1997

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator	T ₁	T ₂	A ₁	A ₂	(ii)	CCCC
ADDITIONAL DATA									
SYNOPS									
S	I	U	K	21	EGRR	FM 12-X Ext.	SYNOP	03, 09, 15, 21	03005, 03011, 03017, 03023, 03026, 03063, 03066, 03091, 03100, 03136, 03140, 03162, 03171, 03204, 03240, 03257, 03302, 03334, 03377, 03414, 03462, 03496, 03502, 03534, 03590, 03649, 03715, 03746, 03772, 03797, 03803, 03817, 03840, 03862, 03882, 03920
S	N	U	K	21	EGRR	FM 12-X Ext.	SYNOP	01, 02, 04, 05, 07, 08, 10, 11, 13, 14, 16, 17, 19, 20, 22, 23	03005, 03011, 03017, 03023, 03026, 03063, 03066, 03091, 03100, 03136, 03140, 03162, 03171, 03204, 03240, 03257, 03302, 03334, 03377, 03414, 03462, 03496, 03502, 03534, 03590, 03649, 03715, 03746, 03772, 03797, 03803, 03817, 03840, 03862, 03882, 03920
S	M	U	K	40	EGRR	FM 12-X Ext.	SYNOP	00, 06, 12, 18	03007, 03010, 03011, 03014, 03695, DCPs
S	M	U	K	51	EGRR	FM 12-X Ext.	SYNOP	00, 06, 12, 18	03005, 03023, 03026, 03063, 03068, 03075, 03091, 03100, 03136, 03162, 03171, 03204, 03240, 03257, 03292, 03302, 03334, 03377, 03414, 03482, 03534, 03590, 03609, 03740, 03772, 03776, 03797, 03817, 03827, 03853, 03862, 03895, 03917, 03920
S	M	U	K	52	EGRR	FM 12-X Ext.	SYNOP	00, 06, 12, 18	03017, 03066, 03111, 03140, 03160, 03213, 03262, 03266, 03354, 03355, 03391, 03462, 03492, 03495, 03496, 03502, 03604, 03649, 03658, 03693, 03707, 03715, 03717, 03726, 03746, 03808, 03809, 03840, 03882, 03894, 03917
S	M	U	K	54	EGRR	FM 12-X Ext.	SYNOP	00, 06, 12, 18	(Stations included when available) 03002, 03006, 03007, 03008, 03009, 03010, 03011, 03013, 03014, 03021, 03025, 03027, 03031, 03034, 03035, 03040, 03041, 03044, 03047, 03049, 03055, 03057, 03058, 03062, 03065, 03070, 03072, 03074, 03077, 03080, 03085, 03088, 03092, 03094, 03102, 03114, 03120, 03132, 03138, 03139, 03144, 03152, 03153, 03154, 03155, 03158, 03174, 03176, 03900, 03902, 03903, 03904, 03906, 03908, 03911, 03912, 03914, 03915, 03916, 03923, 03926, 03927, 03928
S	M	U	K	55	EGRR	FM 12-X Ext.	SYNOP	00, 06, 12, 18	(Stations included when available) 03207, 03208, 03209, 03210, 03212, 03214, 03215, 03220, 03224, 03225, 03226, 03227, 03229, 03230, 03235, 03241, 03246, 03249, 03261, 03275, 03281, 03282, 03293, 03303, 03305, 03308, 03313, 03314, 03316, 03321, 03329, 03339, 03344, 03345, 03347, 03379, 03384, 03385, 03392, 03402, 03403, 03405, 03408, 03410, 03411, 03453, 03503, 03507, 03511, 03520, 03521, 03526, 03527, 03529, 03605, 03608
S	M	U	K	56	EGRR	FM 12-X Ext.	SYNOP	00, 06, 12, 18	(Stations included when available) 03469, 03488, 03507, 03544, 03560, 03647, 03672, 03674, 03695, 03696, 03701, 03710, 03712, 03743, 03749, 03761, 03763, 03768, 03779, 03781, 03784, 03785, 03791, 03796, 03803, 03810, 03815, 03820, 03823, 03824, 03830, 03831, 03837, 03858, 03865, 03866, 03872, 03874, 03876, 03880, 03881, 03896
S	I	U	K	51	EGRR	FM 12-X Ext.	SYNOP	03, 09, 15, 21	03005, 03023, 03026, 03063, 03068, 03075, 03091, 03100, 03136, 03162, 03171, 03204, 03240, 03257, 03292, 03302, 03334, 03377, 03414, 03482, 03534, 03590, 03609, 03740, 03772, 03776, 03797, 03817, 03827, 03853, 03862, 03895, 03917, 03920

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T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			
S	I	U	K	52	EGRR	FM 12-X Ext.	SYNOP	03, 09, 15, 21 (Stations included when available) 03017, 03066, 03111, 03140, 03160, 03213, 03262, 03266, 03354, 03355, 03391, 03462, 03492, 03495, 03496, 03502, 03604, 03649, 03658, 03693, 03707, 03715, 03717, 03726, 03746, 03808, 03809, 03840, 03882, 03894, 03917
S	I	U	K	54	EGRR	FM 12-X Ext.	SYNOP	03, 09, 15, 21 (Stations included when available) 03002, 03006, 03007, 03008, 03009, 03010, 03011, 03013, 03014, 03021, 03025, 03027, 03031, 03034, 03035, 03040, 03041, 03044, 03047, 03049, 03055, 03057, 03058, 03062, 03065, 03070, 03072, 03074, 03077, 03080, 03085, 03088, 03092, 03094, 03102, 03114, 03120, 03132, 03138, 03139, 03144, 03152, 03153, 03154, 03155, 03158, 03174, 03176, 03900, 03902, 03903, 03904, 03906, 03908, 03911, 03912, 03914, 03915, 03916, 03923, 03926, 03927, 03928
S	I	U	K	55	EGRR	FM 12-X Ext.	SYNOP	03, 09, 15, 21 (Stations included when available) 03207, 03208, 03209, 03210, 03212, 03214, 03215, 03220, 03224, 03225, 03226, 03227, 03229, 03230, 03235, 03241, 03246, 03249, 03261, 03275, 03281, 03282, 03293, 03303, 03305, 03308, 03313, 03314, 03316, 03321, 03329, 03339, 03344, 03345, 03347, 03379, 03384, 03385, 03392, 03402, 03403, 03405, 03408, 03410, 03411, 03453, 03503, 03507, 03511, 03520, 03521, 03526, 03527, 03529, 03605, 03608
S	I	U	K	56	EGRR	FM 12-X Ext.	SYNOP	03, 09, 15, 21 (Stations included when available) 03469, 03488, 03507, 03544, 03560, 03647, 03672, 03674, 03695, 03696, 03701, 03710, 03712, 03743, 03749, 03761, 03763, 03768, 03779, 03781, 03784, 03785, 03791, 03796, 03803, 03810, 03815, 03820, 03823, 03824, 03830, 03831, 03837, 03858, 03865, 03866, 03872, 03874, 03876, 03880, 03881, 03896
S	N	U	K	51	EGRR	FM 12-X Ext.	SYNOP	01, 02, 04, 05, 07, 08, 10, 11, 13, 14, 16, 17, 19, 20, 22, 23 (Stations included when available) 03005, 03023, 03026, 03063, 03068, 03075, 03091, 03100, 03136, 03162, 03171, 03204, 03240, 03257, 03292, 03302, 03334, 03377, 03414, 03482, 03534, 03590, 03609, 03740, 03772, 03776, 03797, 03817, 03827, 03853, 03862, 03895, 03917, 03920
S	N	U	K	52	EGRR	FM 12-X Ext.	SYNOP	01, 02, 04, 05, 07, 08, 10, 11, 13, 14, 16, 17, 19, 20, 22, 23 (Stations included when available) 03017, 03066, 03111, 03140, 03160, 03213, 03262, 03266, 03354, 03355, 03391, 03462, 03492, 03495, 03496, 03502, 03604, 03649, 03658, 03693, 03707, 03715, 03717, 03726, 03746, 03808, 03809, 03840, 03882, 03894, 03917
S	N	U	K	54	EGRR	FM 12-X Ext.	SYNOP	01, 02, 04, 05, 07, 08, 10, 11, 13, 14, 16, 17, 19, 20, 22, 23 (Stations included when available) 03002, 03006, 03007, 03008, 03009, 03010, 03011, 03013, 03014, 03021, 03025, 03027, 03031, 03034, 03035, 03040, 03041, 03044, 03047, 03049, 03055, 03057, 03058, 03062, 03065, 03070, 03072, 03074, 03077, 03080, 03085, 03088, 03092, 03094, 03102, 03114, 03120, 03132, 03138, 03139, 03144, 03152, 03153, 03154, 03155, 03158, 03174, 03176, 03900, 03902, 03903, 03904, 03906, 03908, 03911, 03912, 03914, 03915, 03916, 03923, 03926, 03927, 03928
S	N	U	K	55	EGRR	FM 12-X Ext.	SYNOP	01, 02, 04, 05, 07, 08, 10, 11, 13, 14, 16, 17, 19, 20, 22, 23 (Stations included when available) 03207, 03208, 03209, 03210, 03212, 03214, 03215, 03220, 03224, 03225, 03226, 03227, 03229, 03230, 03235, 03241, 03246, 03249, 03261, 03275, 03281, 03282, 03293, 03303, 03305, 03308, 03313, 03314, 03316, 03321, 03329, 03339, 03344, 03345, 03347, 03379, 03384, 03385, 03392, 03402, 03403, 03405, 03408, 03410, 03411, 03453, 03503, 03507, 03511, 03520, 03521, 03526, 03527, 03529, 03605, 03608
S	N	U	K	56	EGRR	FM 12-X Ext.	SYNOP	01, 02, 04, 05, 07, 08, 10, 11, 13, 14, 16, 17, 19, 20, 22, 23 (Stations included when available) 03469, 03488, 03507, 03544, 03560, 03647, 03672, 03674, 03695, 03696, 03701, 03710, 03712, 03743, 03749, 03761, 03763, 03768, 03779, 03781, 03784, 03785, 03791, 03796, 03803, 03810, 03815, 03820, 03823, 03824, 03830, 03831, 03837, 03858, 03865, 03866, 03872, 03874, 03876, 03880, 03881, 03896

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/ Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator	T ₁	T ₂	A ₁	A ₂	(ii)	CCCC

South Atlantic SYNOPS

S	I	S	T	21	EGRR	FM 12-X Ext.	SYNOP	03, 09, 15, 21	61902, 88878, 88883, 88889, 88897
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Mediterranean SYNOPS

S	I	G	I	21	EGRR	FM 12-X Ext.	SYNOP	03, 09, 15, 21	08495
S	N	G	I	21	EGRR	FM 12-X Ext.	SYNOP	01,02,04,05,07,08,10, 11,13,14,16,17,19,20, 22,23	08495

FSXX

P	P	W	K	98	EGRR			00, 12	Surface T+48/72 Forecast
P	P	W	O	98	EGRR			00, 12	Surface T+96/120 Forecast

Global NWP products in GRID code

For all products spatial resolution is as follows:

Resolution 5° x 20°

80°N-90°N, 180°W-160°E A1=M

80°S-90°S, 180°W-160°E A1=P

Resolution 2.5° x 10°

70°N-75°N, 180°W-170°E A1=N

70°S-75°S, 180°W-170°E A1=O

Resolution 5° x 5°

15°N-15°S: 0°- 90°W, 90°W-180°W A1=E, F

90°E-180°E, 0° - 90°E A1=G, H

Resolution 2.5° x 5°

20°N-67.5°N: 0°- 90°W, 90°W-180°W A1=A, B

90°E-180°E, 0° - 90°E A1=C, D

20°S-67.5°S: 0° - 90°W, 90°W-180°W A1=I, J

90°E-180°E, 0° - 90°E A1=K, L

D	(P,W)	(A-P)	(B,C,D,F,G,H)	98	EGRR	FM 47-IX Ext.	GRID	00,12	Sea Level Pressure (P) and 10m wind/1.5m temperature (W) for T+6, T+12, T+18, T+30, T+36, T+42 (A2=B,C,D,F,G,H)
D	P	(A-P)	(J,O)	98	EGRR	FM 47-IX Ext.	GRID	00,12	Sea Level Pressure (P) for T+60, T+120 (A2=J,O)
D	(W,H)	(A-P)	(A,E,I)	40,30,25,20,15,10	EGRR	FM 47-IX Ext.	GRID	00,12	Wind/Temp (W) and Height (H) at 400, 300, 250 200, 150 and 100 hPa (ii =40, 30, 25, 20, 15, 10) for T+0, T+24, T+48 (A2=A,E,I)

ABBREVIATED HEADING									Content of Bulletin and Remarks		
Data Type/ Form Designator	Geographical/ Data type/ Time designator		Distribution Type/ Level Designator	Location Indicator	Code Form Used		Time Group (GG)				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC						
D	(W,H)	(A-P)	(B,C,D,F,G,H)	85,70,50,40,30,25, 20,15,10	EGRR	FM 47-IX Ext.	GRID	00,12	Wind/Temp (W) and Height (H) at 850, 700, 500, 400, 300, 250 200, 150 and 100 hPa (ii =85, 70, 50, 40, 30, 25, 20, 15, 10) for T+6, T+12, T+18, T+30, T+36, T+42 (A2=B,C,D,F,G,H)		
D	H	(A-P)	(J,O)	50	EGRR	FM 47-IX Ext.	GRID	00,12	Height (H) at 500 hPa for T+60, T+120 (A2=J,O)		
D	R	(A-P)	(B,C,D,F,G,H)	85,70,50	EGRR	FM 47-IX Ext.	GRID	00,12	Relative Humidity (R) at 850, 700 and 500 hPa (ii =85, 70, 50) for T+6, T+12, T+18, T+30, T+36, T+42 (A2=B,C,D,F,G,H)		

Global NWP products in GRIB code

For all products spatial resolution is as follows:

Resolution 2.5° x 2.5°

0°-90°N: 50°W-70°E, 70°E-170°W, 170°W-50°W A1=S, T, U
 90°S-0°: 50°W-70°E, 70°E-170°W, 170°W-50°W A1=V, W, X
 60°S-60°N, 30°W- 60°E A1=Z

H	(P,U,V)	(S-X,Z)	(B,C,D,F,G,H,J)	98	EGRR	FM 92-X Ext.	GRIB	00,12	Sea Level Pressure(P) and 10m wind components (U,V) for T+6, T+12, T+18, T+30, T+36, T+42, T+60 (A2=B,C,D,F,G,H,J)		
H	P	(S-X,Z)	O	98	EGRR	FM 92-X Ext.	GRIB	00,12	Sea Level Pressure (P) for T+120 (A2=O)		
H	(H,U,V,T)	(S-X,Z)	(A,E,I)	40,30,25,20,15, 10,05	EGRR	FM 92-X Ext.	GRIB	00,12	Height(H), wind components (U,V) and temperature (T) at 400, 300, 250 200, 150, 100 and 50 hPa (ii =40, 30, 25, 20, 15, 10, 05) for T, T+24, T+48 (A2=A,E,I)		
H	(H,T)	(S-X,Z)	(B,C,D,F,G,H,J)	85,70,50,40,30,25, 20,15,10,05	EGRR	FM 92-X Ext.	GRIB	00,12	Height(H) and temperature (T) at 850, 700, 500, 400, 300, 250 200, 150, 100 and 50 hPa (ii =85, 70, 50, 40, 30, 25, 20, 15, 10, 05) for T+6, T+12, T+18, T+30, T+36, T+42, T+60 (A2=B,C,D,F,G,H,J)		
H	(U,V)	(S-X,Z)	(B,C,D,F,G,H,J)	85,70,50,40,30,25, 20,15,10,05	EGRR	FM 92-X Ext.	GRIB	00,12	Wind components (U,V) at 850, 700, 500, 400, 300, 250 200, 150, 100 and 50 hPa (ii =85, 70, 50, 40, 30, 25, 20, 15, 10, 05) for T+6, T+12, T+18, T+30, T+36, T+42, T+60 (A2=B,C,D,F,G,H,J)		
H	H	(S-X,Z)	O	50	EGRR	FM 92-X Ext.	GRIB	00,12	Height (H) at 500 hPa (ii= 50) for T+120 (A2=O)		
H	R	(S-X,Z)	(B,C,D,F,G,H,J)	85,70,50	EGRR	FM 92-X Ext.	GRIB	00,12	Relative Humidity (R) at 850, 700 and 500 hPa (ii =85, 70, 50) for T+6, T+12, T+18, T+30, T+36, T+42, T+60 (A2=B,C,D,F,G,H,J)		

Regional NWP products from Global model in GRID code

Resolution 2.5° x 10°

75°N-90°N: 90°W-90°E A1=I

Resolution 2.5° x 2.5°

25°N-75°N: 90°W-45°W, 45°W- 0° A1=Z,N

0° -45°E, 45°E-90°E A1=O,P

G	(P,W)	(I,N,O, P,Z)	(A-K)	98	EGRR	FM 47-IX Ext.	GRID	00,12	Sea Level Pressure (P) and 10m wind/1.5m temperature (W) for T+0 to T+72 (A2=A,B,C,D,E,F,G,H,I,J,K)		
G	P	(I,N,O, P,Z)	(M,O)	98	EGRR	FM 47-IX Ext.	GRID	00,12	Sea Level Pressure (P) for T+96 and T+120 (A2=M,O)		

ABBREVIATED HEADING						Content of Bulletin and Remarks		
Data Type/ Form Designator	Geographical/ Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator	Code Form Used	Time Group (GG)			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			
G	(W,H)	(I,N,O,P,Z)	(A-K)	85,70,50,40,30,25, 20,15,10	EGRR	FM 47-IX Ext.	GRID	00,12
G	R	(I,N,O,P,Z)	(A-K)	85,70,50	EGRR	FM 47-IX Ext.	GRID	00,12

NWP products from Regional model in GRID code

Resolution 2.5° x 2.5°

32.5°N-75°N: 70°W-35°W, 35°W-0°, 0°-35°E A1=W, X, Y

Resolution 1.25° x 1.25°

2.5°N-75°N: 75°W-52.5°W, 52.5°W-35°W A1=A,B

35°W-17.5°W, 17.5°W- 0° A1=C,D

0° -17.5°E, 17.5°E-35°E A1=E,F

G	(P,W,T)	(W,X,Y)	(A-G)	98	EGRR	FM 47-IX Ext.	GRID	00,12	Sea Level Pressure (P), 10m wind (W) and 1.5m temperature(T) for T+0 to T+36 (A2=A,B,C,D,E,F,G)
G	E	(W,X,Y)	(B-G)	98	EGRR	FM 47-IX Ext.	GRID	00,12	Accumulated precipitation (E) for T+6 to T+36 (A2=B,C,D,E,F,G)
G	(H,R,W,T)	(W,X,Y)	(A-G)	85,70,50	EGRR	FM 47-IX Ext.	GRID	00,12	Relative Humidity (R), Wind (W), Temp (T) and Height (H) at 850, 700 and 500 hPa (ii =85, 70, 50) for T+0 to T+36 (A2=A,B,C,D,E,F,G)
X	(P,W,T)	(A-F)	(A-M)	98	EGRR	FM 47-IX Ext.	GRID	00,12	Sea Level Pressure (P), 10m wind (W) and 1.5m temperature(T) for T+0 to T+36, [3 hourly intervals T, T+3, T+6, T+9, etc] (A2=A,B,C,D,E,F,G,H,I,J,K,L,M)
X	E	(A-F)	(B-M)	98	EGRR	FM 47-IX Ext.	GRID	00,12	Accumulated precipitation (E) for T+6 to T+36 , [3 hourly intervals T, T+3, T+6, T+9, etc] (A2=B,C,D,E,F,G,H,I,J,K,L,M)

Global Wave Model products in GRID code

Resolution 2.5° x 2.5°

80°N-30°N 90°W-90°E, 90°E-90°W A1=Q, R

30°N-20°S: 20°E-110°E, 110°E-160°W,160°W-70°W,70°W-20°E A1=S, T, U, V

20°S-65°S: 20°E-110°E, 110°E-160°W,160°W-70°W,70°W-20°E A1=W, X, Y, Z

D	(J-M)	(Q-Z)	(A,C,E,G,I, K,M,O)	88	EGRR	FM 47-IX Ext.	GRID	00,12	Significant Wave height (J), combined swell period and wind-sea period (K), combined height and direction of swell (L), combined height and direction of wind-sea (M) for T+0, T+12, T+24, T+36, T+48, T+72, T+96, T+120 (A2=A,C,E,G,I,K,M,O)
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Data Type/ Form Designator	ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
	T ₁	T ₂	A ₁	A ₂	(ii)	Location Indicator			

European Regional Wave Model products in GRID code

Resolution 1.25° x 1.25°

13.75°W - 35°E: 31.25°N-48.75°N A1=K

48.75°N-66.25°N A1=L

X	(J-M)	(K,L)	(A,E,G,I, K,M)	88	EGRR	FM 47-IX Ext.	GRID	00,12	Significant Wave height (J), combined swell period and wind-sea period (K), combined height and direction of swell (L), combined height and direction of wind-sea (M) for T+0, T+12, T+18, T+24, T+30, T+36 (A2=A,E,G,I,K,M)
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Location of Lightning flashes

S	F	U	K	26	EGRR			5 minute intervals	
S	F	U	K	30	EGRR			Hourly on hour	
S	F	U	K	31	EGRR			Hourly on half hour	

Wave, sea and swell charts

P	J	G	(A,E,I)	88	EGRR			00,12	T+0, T+24, T+48 (A2=A,E,I)
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