

**Final report on comparisons
between bulletins transmitted
on the GTS and those
received at ECMWF
(period 1 to 5 October 1984)**

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1. INTRODUCTION

In order to assess the quality of observation coverage in the ECMWF/WMO Observations Data Set, and as input in the construction of the ECMWF/WMO Analysis Data Set, information was gathered relating to the transmission of bulletins on the GTS at several locations during the period 1 to 5 October 1984. These data have now been reduced to a common form and compared with GTS data received at ECMWF. This report presents and discusses the comparison based on data received from the following centres:

Bangkok, Thailand
Beijing, People's Republic of China
Brasilia, Brazil
Casablanca, Morocco
Nandi, Fiji
Hong Kong
Jakarta, Indonesia
Jeddah, Saudi Arabia
Lusaka, Zambia
Melbourne, Australia
Nairobi, Kenya
Norrköping, Sweden
Singapore
Tokyo, Japan
Wellington, New Zealand.

2. CONSIDERATIONS

2.1 Data Sources for the Comparison

The centres concerned supplied data, either on magnetic tape, or on forms supplied by ECMWF. Some centres were not able to supply magnetic tape, but did send computer print-outs from which the data could be extracted. It was found that the most immediately useful data were the headings of the bulletins that had been transmitted by each centre. These, once extracted, could be compared with equivalent data extracted from bulletins received at ECMWF via RTH Offenbach and RTH Bracknell.

2.2 Data Sources for the ECMWF/WMO Data Sets

The ECMWF/WMO Observations data set contains selected surface observations and observations from Ocean Weather Ships. For use in association with the ECMWF Data Assimilation scheme, and hence for the production of the ECMWF/WMO Analysis data set, observations are divided into 7 major categories (Fig. 2.1). Observational data is received from RTH Offenbach and RTH Bracknell. Data relayed uniquely by either RTH to ECMWF become available to the ECMWF data assimilation system.

2.3 Data Requirements

With respect to the operational processes of producing analyses and medium range forecasts, ECMWF requires a sufficient, global input of observational data. The definition of what constitutes a sufficient quantity of observational data is not addressed here. Instead, the completeness of reception of available data is investigated. The ECMWF/WMO data sets, being derived from these operational processes, will vary in quality according to the effectiveness of the acquisition of the available data.

It is believed that the data requirements for the operational processes of ECMWF are not dissimilar to those of other forecasting centres. A growing number of such centres operate forecast and analysis systems that require observational data from more than one region. Indeed, most centres require these data to be received within a shorter time from their measurement than is the case with ECMWF, where final analysis can be delayed until many hours after the time of observation.

3. PRESENTATION OF RESULTS

3.1 Global Bulletins

Global bulletins transmitted by each centre were compared against those received at ECMWF.

Table 1 contains information concerning bulletins transmitted by each centre for global distribution which, for at least one major synoptic hour, were not recognised as having been received at ECMWF. A plus sign in the table

OBSERVATION
CATEGORY

DATA INCLUDED

1	GENERAL SURFACE REPORTS (SYNOP, SHIP)
2	AIREP REPORTS
3	SATOB
4	DRIBU, BATHY, TESAC
5	TEMP
6	PILOT
7	SATEM, TOVS, PAOB

Fig. 2.1 ECMWF Observation Categories

corresponds to data received. A zero indicates that data was not received because it was not transmitted. A minus sign indicates that a bulletin was transmitted by the corresponding centre but not received at ECMWF.

3.2 Regional and National Bulletins

Similar tables to Table 1 were constructed for bulletins transmitted by each centre for regional or national distribution. These tables are not presented in full, but details of significance are included in the summary tables.

3.3 Summary Tables for Individual Centres

Table 2 presents a summary of the information contained in Table 1, augmented by data transmitted for global exchange at times other than the major synoptic hours. Table 2 includes information concerning only those bulletins that map on to the 7 observation types classified for separate storage at ECMWF.

3.4 Summary Tables for Bulletin Reception

The reception details from Table 2 are summarised in Tables 3, 4, 5 and 6. Table 3 presents the reception of global bulletins at ECMWF. Tables 4 and 5 present corresponding information for regional and national bulletins. Table 6 combines global, regional and national bulletins.

4. INTERPRETATION OF THE RESULTS

4.1 General

A comparative study of this nature requires considerable effort and can never be conducted in ideal circumstances. All of the participating centres expended much time and effort in producing the data. In particular, some of the smaller, less automated centres contributed considerable man power resources to enable suitable data to be collected. The interest shown and the co-operation given by all of the participating centres is gratefully acknowledged.

The raw data arrived at ECMWF in a variety of forms, requiring a large amount of transcription and data conversion. This has been conscientiously carried out, but will inevitably have resulted in the introduction of some errors. Every effort has been made to minimise such errors, and it is believed that those remaining are not significant.

Some factors were noted affecting the generality of the results. In particular, a major outage seriously affected the comparison with Tokyo for 0001 UT on 2 October 1984. It was possible to isolate the comparison area affected by this outage and eliminate the corresponding data. A further outage affected the comparison with Beijing for 5 October 1984. It was not possible to isolate the more extensive comparison area affected by this outage; hence the figures presented for reception of data from Beijing are not representative of those normally recorded.

It should be noted that failure to receive a bulletin can be due to many circumstances, most of which are entirely beyond the control of the transmitting centre. Bulletins may

- become corrupted in transmission between any two GTS nodes
- be eliminated, due to deficiencies in directories used for switching
- be corrupted and lost at ECMWF
- be lost due to equipment outages in transit.

In consequence, the results included in this study should not be interpreted as in any way critical of the transmitting centres.

4.2 Global Bulletins

Examination of the entries in Table 1 reveals that there are very few cases where a bulletin is transmitted regularly and received randomly. This is encouraging, because it would seem to indicate that problems associated with reception of data are organised, not random.

Table 1 entries can be divided into 3 main categories:

- bulletins which are frequently transmitted and which are only occasionally not received;
- bulletins that are transmitted and which are never received;
- bulletins that are frequently transmitted and which are only rarely received.

The first category probably represents accidental loss through outages, errors, etc., which can be avoided only by upgrading the reliability of all components in the transmission and acquisition systems.

The second category contained some bulletins that were transmitted regularly and many bulletins which were transmitted only once or twice throughout the 5-day period. Where bulletins are frequently transmitted but never received, it would suggest that a routing problem exists (e.g. a deficiency in a routing directory at an intermediate node). To provide information that might be useful in that context, Table 7 contains a list of global bulletins that were transmitted on at least 4 occasions, but which were never received at ECMWF.

The third category is more difficult to comprehend, due to a lack of consistency. A possible, but speculative interpretation of this category might be that a routing problem exists with respect to the normal routing, but that the occasional bulletin received may have been abnormally routed due to a problem at an intermediate node.

It may be of significance that all of the entries in Table 1 for both Jakarta and Melbourne were of the second category. Thus, for these two centres

- ECMWF received every transmission of each bulletin transmitted if it received that particular bulletin;
- all bulletins not received were never received, regardless of the number of times transmitted.

This would seem to suggest strongly that a routing problem exists at a GTS node between each of these centres and ECMWF.

4.3 Regional Bulletins

Some bulletins designated for regional exchange do reach ECMWF; most do not. A break-down (Table 4) of the regional bulletins indicates that the data contained are almost exclusively SURFACE reports, TEMP, or PILOT.

It is probable that much of the PILOT data result from theodolite measurements on small balloons, giving wind measurements in the lowest layers of the atmosphere only. The surface observations may well be supplementary data for additional stations or for non-synoptic hours thought to be superfluous to global requirements. The TEMP data is difficult to interpret; it would seem unreasonable not to make available for global exchange data of such importance produced at considerable cost.

The quantity of regional data is small compared to the volume of the data for global exchange. With the increasing usefulness of all data as input to analysis, data assimilation and forecast systems, and with the increasingly large geographic areas required to be embraced by such systems to improve their accuracy, consideration should be given to a more complete exchange of observational data. In this context, the division of observed data by WMO region is perhaps no longer appropriate.

4.4 National Bulletins

No bulletins exchanged for national purposes are received at ECMWF.

Table 5 indicates that almost all of the bulletins within this category contained surface observations.

Again it should be appreciated that the needs of forecasting centres are changing and that all observational data is becoming increasingly useful. Consideration should be given to re-assessing the need to exchange appropriate data on a global basis.

5. SUMMARY

Of all bulletins transmitted for global exchange, 13% were not received at ECMWF. The observational types representing the major volume of missing data were:

SURFACE	-	12% of bulletins (1,368 bulletins)
TEMP	-	14% of bulletins (965 bulletins)
PILOT	-	18% of bulletins (981 bulletins).

Taking into account all data transmitted by the participating centres, including data designated for Regional and National exchange (Table 6), 30% of the bulletins were not received at ECMWF. Again, the observational types representing the major volume of data were:

· SURFACE	-	37% of bulletins (6,675 bulletins)
· TEMP	-	14% of bulletins (1,193 bulletins)
· PILOT	-	41% of bulletins (3,627 bulletins).

Reception of data designated for National exchange was almost nil. Such data is shown in Table 5 to represent almost exclusively additional SURFACE data. Rather surprisingly it included 12 TEMP bulletins and 78 PILOT bulletins.

Reception of data designated for Regional exchange was disappointingly small. It is believed in some WMO circles that much Regional data is exchanged globally. Only 22% of the bulletins designated for Regional exchange were received at ECMWF. The observational types representing the major volume of missing Regional data were:

· SURFACE	-	78% of bulletins (4,504 bulletins)
· TEMP	-	59% of bulletins (160 bulletins)
· PILOT	-	82% of bulletins (2,564 bulletins).

6. RECOMMENDATIONS

Standards for the exchange of reception and transmission details would enable studies of the type described above to be carried out with a minimum of effort. This would be especially so if information conforming to such standards were routinely produced by automated means.

Monitoring facilities to produce status information, and procedures to check such information by means of intercomparison, should be included in the design of enhanced systems for data exchange.

The production of observational data is costly. The cost of data transmission, by comparison, is decreasing as a result of technological improvements and the fall in cost of computing resources. To obtain the best cost-benefit with regard to the Global Observing System it is essential that every effort be made to re-assess the data exchange. It is recommended that this be done with regard to efficiency, with regard to addressing some of the potential routing problems indicated by these results and with regard to an appropriate re-definition of requirements for Global exchange.

NOTE 1 : + - DATA TRANSMITTED BY CENTRE AND RECEIVED AT ECMWF
 - - DATA TRANSMITTED BY CENTRE BUT NOT RECEIVED AT ECMWF
 0 - DATA NOT TRANSMITTED BY CENTRE
 NOTE 2 : ONLY ORIGINAL BULLETINS USED. RTD AND COR BULLETINS ARE NOT INCLUDED.

! DATE = 01 ! DATE = 02 ! DATE = 03 ! DATE = 04 ! DATE = 05 !

HEADING	!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!
ABEH	PGTW ! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0!
CSAH1	OAKB ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0!
CSMU1	VHHH ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
IPLA1	VLIV ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
NOJP1	RJTD ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
SCTH1	VTBB ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
SEXX1	KWBC ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
SMCI13	BABJ ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
SMJP1	RJRD ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
SMK01	RKSL ! +! +! +! +! +! +! +! +! +! +! +! +! +! -! +! +! 0! +! +! +! +! +! +!
SMKP1	DKPY ! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMKP1	VDPP ! 0! -! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
SMKW1	OAKM ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
SMKW1	OKAM ! -! +! 0! 0! +! 0! 0! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! 0!
SMMA1	FIMP ! 0! +! +! +! +! +! +! +! +! +! +! +! -! 0! -! -! 0! +! 0! 0! 0!
SMMO1	MNUB ! -! -! 0! 0! -! 0! -! -! -! -! -! -! -! -! -! -! -! -! +! -!
SMPA1	RJTD ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
SMQT1	OPBD ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMQT1	QTBD ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMSB1	VCCC ! +! -! +! -! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
SMSD2	OEJD ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
SMTH1	VTBB ! +! -! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
SMVB1	VGDC ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMVB1	VTBB ! 0! -! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
SMVB11	BABJ ! -! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMVS1	VNNN ! +! -! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
SMVX1	VHHH ! +! +! +! +! +! +! +! +! +! +! +! +! -! +! +! +! +! +! +! +! +!
SMVX10	RJTD ! -! -! -! 0! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -!
SMVX11	RJTD ! -!
SMVX12	RJTD ! -!
SMVX13	RJTD ! -!
SMVX14	RJTD ! -!
SNAH1	OAKB ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
SNCI11	BABJ ! 0!
TSXS10	RJTD ! 0! 0! -! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +!
TSXS11	RJTD ! 0! 0! -! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +!
TSXS12	RJTD ! 0! 0! -! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +!
TUXN3	KWBC ! 0!
UAAS1	RJTD ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
UAPH1	RPMM ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
UAXX1	VHHH ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
UELA1	VLIV ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
UEPH1	RPMM ! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0! 0! -! +! 0! +! 0!
UEPH2	RPMM ! 0! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0! 0! -! +! 0! +! 0!
UGHK1	VHHH ! 0!
UHIN2	DEMS ! 0! -! 0! -! 0! -! 0! 0! 0! 0! -! 0! -! 0! -! 0! -! 0! 0! 0! -!
UKLA1	VLIV ! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
ULKR1	DKPY ! +! 0! +! 0! +! 0! +! 0! +! 0! 0! 0! -! 0! +! 0! +! 0! +! 0! +!
ULMG1	FMMI ! -! 0! +! 0! +! 0! +! 0! +! 0! 0! 0! +! 0! +! 0! -! 0! +! 0! 0!
UOBW1	VGDC ! 0! 0! 0! 0! 0! 0! +! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UPAH1	OAKB ! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
UPKP1	VDPP ! 0! -! +! -! +! 0! +! -! +! -! 0! -! -! 0! -! -! 0! -! -! 0!
UPLA1	VLIV ! +! -! +! +! +! 0! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
UPMA1	FIMP ! +! 0! +! 0! +! 0! 0! 0! +! 0! 0! 0! -! +! 0! 0! 0! 0! 0! 0!
UPMG1	FMMI ! +! -! +! 0! -! 0! +! 0! -! +! +! 0! +! +! -! 0! 0! 0! +! 0! 0!
UPMV1	VCCC ! +! 0! 0! 0! +! 0! +! 0! +! 0! -! 0! +! 0! +! 0! +! 0! +! 0!
UPPK1	OPKC ! 0! -! -! -! 0! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -!
UPSV1	VCCC ! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UPTH1	VTBB ! +! -! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
UPVS1	VNNN ! +! -! +! 0! +! 0! +! 0! +! 0! 0! 0! 0! 0! 0! 0! 0! +! 0! +! 0!
USBM1	VBRR ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! +! 0! 0!
USIC12	BABJ ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
USJP1	RJTD ! -! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +!
USLA1	VLIV ! +! -! +! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! +! 0! 0!
USMG1	FMMI ! +! 0! 0! 0! -! 0! +! 0! +! 0! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0!
USOM1	OOMS ! +! 0! +! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! 0! 0! +! 0! -! 0! 0! 0!
USRE1	FMEE ! 0! 0! +! 0! 0! 0! -! 0! 0! 0! 0! +! 0! 0! 0! +! 0! 0! 0! 0! 0!

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! DATE = 01 ! DATE = 02 ! DATE = 03 ! DATE = 04 ! DATE = 05 !

HEADING	!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!
IATH1	VTBB ! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMKO1	RKSL ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! -! 0! 0! 0! 0! 0! 0!
SMKP1	DKPY ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMKP1	VDPP ! 0! -! +! +! +! +! +! +! +! +! +! +! 0! +! +! +! +! +! +!
SMLA1	VLIV ! +! -! +! +! +! +! +! +! +! +! +! +! 0! +! 0! +! +! +! +!
SMMO1	MNUB ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMMS1	WMKK ! +! +! +! +! +! +! +! +! +! +! +! +! 0! +! +! +! -! +! +!
SMTH1	VTBB ! +! -! +! +! +! +! +! +! +! +! +! +! 0! +! +! +! +! +! +!
SMVB1	VTBB ! 0! -! +! +! +! +! +! 0! +! +! +! +! +! 0! 0! +! +! +! +! +!
SMVE1	WMKK ! +! -! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
SMVS1	VNNN ! +! -! +! +! +! +! +! +! +! +! +! +! 0! +! +! +! +! +! +!
UEMS1	WMKK ! -! 0! -! 0! -! -! -! -! -! -! -! -! -! -! -! 0! +! 0! +! 0! 0!
UGBM1	VBRR ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0!
UGID1	WIIX ! -! 0! -! -! -! -! -! -! -! -! -! -! -! -! 0! -! +! -! 0! 0! 0!
UHSR1	WSSS ! +! -! +! -! -! -! +! -! 0! -! -! -! -! -! -! -! +! -! +! 0!
UKLA1	VLIV ! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0!
UPKP1	VDPP ! 0! -! +! -! +! 0! +! -! +! -! 0! -! 0! 0! -! 0! +! -! +! -!
UPLA1	VLIV ! +! -! +! +! +! 0! +! +! +! +! 0! +! 0! 0! +! 0! +! +! +! +!
UPTH1	VTBB ! +! -! +! +! +! +! +! +! +! +! +! +! -! 0! +! +! +! +! +!
UQID1	WIIX ! -! 0! 0! 0! -! 0! +! 0! -! 0! -! 0! +! 0! -! 0! -! 0! 0! 0!
USID1	WIIX ! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
USLA1	VLIV ! +! -! +! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! +! 0! +! 0!
USSE1	WMKK ! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!

! DATE = 01 ! DATE = 02 ! DATE = 03 ! DATE = 04 ! DATE = 05 !

HEADING	!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!
UKTH1	VTBB ! +! 0! +! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
UKTV1	NZKL ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
UKVS1	VNNN ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
UKVS10	BABJ ! -! 0! -! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0!
ULCI11	BABJ ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
ULCI12	BABJ ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
ULFJ1	NZKL ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
ULID1	WIIX ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
ULKB1	NZKL ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
ULKR1	DKPY ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
ULKU1	NZKL ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0!
ULLA1	VLIV ! 0! 0! +! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! 0! -! 0!
ULMS1	WMKK ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
ULNC1	NWBB ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
ULOC1	AMMC ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
ULPF1	NTAA ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! -! 0! 0! 0!
ULPF2	NTAA ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0!
ULPF3	NTAA ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0!
ULPF4	NTAA ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0!
ULPH1	RPMM ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
ULPH2	RPMM ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
ULSR1	WSSS ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
ULTH1	VTBB ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
ULTV1	NZKL ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! -! 0! 0! 0!
ULVS10	BABJ ! -! 0! -! 0! -! 0! -! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0!
UPBM1	VBRR ! +! 0! +! 0! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
UPFJ1	NZKL ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
UPID1	WIIX ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
UPKB1	NZKL ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
UPKP1	VDPP ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
UPKU1	NZKL ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
UPLA1	VLIV ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
UPMS1	WMKK ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
UPNC1	NWBB ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
UPOC1	AMMC ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
UPPF1	NTAA ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0!
UPPF2	NTAA ! 0! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! 0! -! 0! -! 0!
UPPH1	RPMM ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
UPPH2	RPMM ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
UPPS1	NZKL ! +! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! +! 0! 0! 0! -! 0! 0! 0!
UPSR1	WSSS ! +! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! -! 0! -! 0!
UPTH1	VTBB ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
UPTK1	NZKL ! +! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
UPTV1	NZKL ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! +! 0! 0! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USBM1	VBRR ! +! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! -! 0! 0! 0!
USBU1	LZSO ! 0! 0! +! 0! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USBX1	EBRR ! +! 0! +! 0! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USBX1	EBSH ! +! 0! +! 0! 0! 0! 0! 0! 0! +! 0! +! 0! 0! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USBY10	RUMS ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USCI11	BABJ ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USCI12	BABJ ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USCZ1	OKPR ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! 0! 0! 0! 0! +! 0! -! 0! -! 0!
USCZ2	OKPR ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! 0! 0! 0! -! 0! -! 0!
USDD1	ETPD ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USDN1	EKMI ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! 0! 0! 0! +! 0! 0! -! 0!
USFA1	EKMI ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! 0! 0! 0! +! 0! -! 0! -! 0!
USFJ1	NZKL ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! -! 0! 0! 0!
USFR1	LFPW ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USG11	EGRR ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! 0! 0! -! 0!
USGR1	LGAT ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USHU1	HABP ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USHU2	HABP ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USIE1	EIDB ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! 0! 0! 0! +! 0! -! 0! -! 0!
USIL1	BIKF ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
USIY1	LIIB ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USKB1	NZKL ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! -! 0! 0! 0!
USKR1	DKPY ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USKR2	DKPY ! +! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! +! 0! +! 0! 0! 0! -! 0! 0! 0!
USKU1	NZKL ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! -! 0! 0! 0!
USLA1	VLIV ! +! 0! +! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! -! 0!
USMS1	WMKK ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0! 0!
USNC1	NWBB ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! -! 0! 0! 0!
USNL1	EHDB ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! 0! 0! 0! +! 0! -! 0! -! 0!
USNO11	ENMI ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! 0! 0! 0! +! 0! -! 0! -! 0!
USNO12	ENMI ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! 0! 0! 0! +! 0! -! 0! -! 0!
USNO13	ENMI ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! 0! 0! 0! +! 0! -! 0! -! 0!
USOC1	AMMC ! +! 0! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! 0!
USPF1	NTAA ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! -! 0! 0! 0!
USPF2	NTAA ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0!
USPF3	NTAA ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! -! 0! 0! 0!
USPF4	NTAA ! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! +! 0! 0! 0! 0! -! 0! 0! 0!

! DATE = 01 ! DATE = 02 ! DATE = 03 ! DATE = 04 ! DATE = 05 !

HEADING !00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!

USPH1	RPMM	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USPL1	SOWR	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USPO1	LPNG	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USRO1	YRBK	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USRS10	RUMS	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USRS11	RUMS	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USRS12	RUMS	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USRS13	RUMS	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	+	!	0	!	
USRS14	RUMS	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USRS15	RUMS	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USRS16	RUMS	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USRS17	RUMS	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	0	!	0	!	
USRS18	RUMS	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USRS19	RUMS	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USSN1	ESWI	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USSN3	ESWI	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USSN4	ESWI	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	0	!	0	!	
USSN5	ESWI	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	+	!	0	!	
USSN6	ESWI	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USSP1	LEMM	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USSR1	WSSS	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	0	!	0	!	
USTH1	VTBB	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USTV1	NZKL	!	+	0	!	0	!	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!
USUK1	EGRR	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USUR10	RUMS	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USVF1	EGRR	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	-	!	0	!	-	!	0	!	
USVF10	RUMS	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	0	!	-	!	0	!	-	!	0	!	
USVS1	VNNN	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USVS10	BABJ	!	-	!	0	!	-	!	0	!	-	!	0	!	-	!	0	!	-	!	0	!	-	!	0	!	-	!	0	!	-	!	0	!	-	!	0	!	
USVX1	EESA	!	0	!	0	!	+	!	0	!	0	!	+	!	0	!	+	!	0	!	+	!	0	!	+	!	0	!	+	!	-	!	0	!	-	!	0	!	
USWF	EGRR	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	
USYG	LYBM	!	+	0	!	+	0	!	0	!	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	+	0	!	-	!	0	!	-	!	0	!	

NOTE 1 : + - DATA TRANSMITTED BY CENTRE AND RECEIVED AT ECMWF
- - DATA TRANSMITTED BY CENTRE BUT NOT RECEIVED AT ECMWF
0 - DATA NOT TRANSMITTED BY CENTRE
NOTE 2 : ONLY ORIGINAL BULLETINS USED. RTD AND COR BULLETINS ARE NOT INCLUDED.

! DATE = 01 ! DATE = 02 ! DATE = 03 ! DATE = 04 ! DATE = 05 !

HEADING !00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!

Table with columns for heading and 20 data points. Rows include codes like SMAA1, SMAG2, SMBO1, etc., with corresponding values of +, -, or 0.

UPAA1 SABM ! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UPBZ1 SBBE ! 0!
UPCH2 SCSC ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! -! 0! 0! 0! 0!
UPFG1 MOCA ! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0!
USAG1 SABM ! 0! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
USAG2 SABM ! 0! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
USAG2 SAGM ! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0!
USAG3 SABM ! 0! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
USAG4 SABM ! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
USBZ3 SBBR ! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
USCH1 SCSC ! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
USCH2 SCSC ! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
USCO1 MCBO ! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
USFG1 MOCA ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0!
USGA3 SABM ! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
USOC1 MCBO ! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!

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HEADING	!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!
OEMC1 GMMC	! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0!
UEMC1 GMMC	! +! 0! +! 0! 0! 0! -! 0! +! 0! +! 0! 0! 0! 0! 0! +! 0! 0! 0! 0!
UGMC1 GMMC	! -!
UKMC1 GMMC	! +! 0! +! 0! 0! 0! +! 0! +! 0! +! 0! -! 0! +! 0! +! 0! 0! 0! 0!
ULMC1 GMMC	! 0! 0! +! 0! 0! 0! -! 0! +! 0! +! 0! -! 0! 0! 0! -! 0! 0! 0!
UPMC1 GMMC	! +! +! +! +! +! +! +! -! +! +! +! -! +! +! +! -! +! -! +! +!

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 - - DATA TRANSMITTED BY CENTRE BUT NOT RECEIVED AT ECMWF
 0 - DATA NOT TRANSMITTED BY CENTRE

NOTE 2 : ONLY ORIGINAL BULLETINS USED. RTD AND COR BULLETINS ARE NOT INCLUDED.

! DATE = 01 ! DATE = 02 ! DATE = 03 ! DATE = 04 ! DATE = 05 !

HEADING	!	00!	06!	12!	18!	00!	06!	12!	18!	00!	06!	12!	18!	00!	06!	12!	18!	00!	06!	12!	18!	
SMMZ1	FQMA	!	0!	0!	0!	0!	0!	+	0!	0!	0!	0!	0!	+	-	0!	0!	0!	-	0!	0!	0!
SMRC1	FBGR	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	-	0!	0!	0!	0!	0!	0!	0!
SMZB1	FLLS	!	0!	0!	0!	0!	0!	+	+	+	-	+	+	+	-	-	+	+	+	0!	0!	0!
UGZB1	FLLS	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	-	0!	0!
UHZB1	FLLS	!	0!	0!	0!	0!	+	0!	0!	0!	0!	0!	0!	+	0!	0!	0!	-	0!	0!	0!	0!
UKZB1	FLLS	!	0!	0!	0!	0!	+	0!	0!	0!	0!	0!	0!	0!	+	0!	0!	0!	-	0!	0!	0!
ULZB1	FLLS	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	-	0!	0!	0!	-	0!	0!
UPMW1	FWKI	!	0!	0!	0!	0!	0!	-	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
USAR	RUNW	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!	-	0!	0!	0!	0!	0!	0!	0!

NOTE 1 : + - DATA TRANSMITTED BY CENTRE AND RECEIVED AT ECMWF
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HEADING	!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!
AGAU1	AMMC ! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
AGAU2	AMMC ! 0! 0! 0! 0! 0! 0! -! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
AKAU1	AMMC ! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
AKAU2	AMMC ! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
AKAU3	AMMC ! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
ALAU1	AMMC ! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
APAU1	AMMC ! 0! 0! 0! 0! 0! -! 0! -! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
APAU2	AMMC ! 0! 0! 0! 0! 0! -! 0! 0! -! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0!
CUOC1	AMMC ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
EUAU3	AMMC ! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
FNED	NZKL ! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
GBHZ	NZKL ! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
HENZ2	NZKL ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
HJZM2	NSTU ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
IKPF2	NTAA ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
ILNG1	AMMC ! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
ISAA1	NZCM ! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
NMNZ6	NZKL ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0!
SMAA1	AMMC ! +! 0! +! +! +! +! +! +! +! +! +! +! +! +! -! +! +! +! 0!
SMAA1	EESA ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! 0!
SMAA1	NZKL ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMAA1	SABM ! 0! +! +! 0! +! +! +! 0! 0! 0! +! +! +! +! +! -! +! +! +! +!
SMAA1	SABN ! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMAA10	AMMC ! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMAA10	RUML ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
SMAU5	AMMB ! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMFJ	NFFN ! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMFJ1	NFFN ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0!
SMFJ2	NFFA ! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMFJ2	NFFN ! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0!
SMFW1	NWBB ! +! +! -! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
SMGF1	NWBB ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0!
SMKB	NGTA ! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMKB1	NGTA ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0!
SMNC2	NZBB ! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMNU1	NVVV ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMNZ1	AGGH ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMNZ1	AMMC ! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMOC1	AMML ! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMOC1	NZKL ! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMOC2	AMML ! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMRE1	FMEE ! 0! +! +! +! +! +! +! -! 0! +! +! +! -! 0! -! +! +! 0! 0!
SMRE1	FWEE ! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0!
SMTK1	NSAP ! +! +! +! +! +! +! +! +! +! +! +! +! -! +! +! 0! 0! 0! 0!
SMTV1	NGFU ! -! -! +! +! +! +! 0! +! +! +! +! +! +! +! +! +! +! +! +! +!
SMTV1	NGTU ! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMUB1	OEJD ! 0! 0! +! -! 0! 0! 0! 0! +! +! +! +! +! +! +! +! +! -! +! +!
SMUD1	OEJD ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0!
SMVB1	OEJB ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0!
SMVB1	OEJD ! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMVE1	NZKK ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMVE1	NZKL ! +! +! +! +! -! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
SMVE1	NZNN ! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMVE1	NZWN ! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMVU1	NZKL ! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMZM1	NSTU ! -! -! -! -! -! -! -! -! -! 0! -! -! -! -! -! -! -! -! -! -!
SNAU1	AMMC ! +! +! +! 0! +! +! +! 0! +! +! +! 0! -! +! +! 0! +! +! +! 0!
SNAU3	AMMC ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0!
SSUX3	LFPW ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SSVX3	LFPW ! +! +! +! 0! +! +! +! +! +! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SUAN2	AMMC ! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
TARO	AGGH ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0!
TTAA	AGGH ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UAAU1	AMMC ! -! 0! 0! 0! 0! 0! +! 0! 0! 0! +! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UAAU3	AMMC ! 0! 0! 0! 0! -! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UAAU3	AMML ! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UBOC1	AMMC ! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UEAA10	RUML ! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0!
UEOC	AMMC ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
UEPF1	NTAA ! +! 0! 0! 0! +! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0!
UERE1	FMEE ! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UFKB1	NGTA ! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0!
UFTV1	NGFU ! 0! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0!
UGAU	AMMC ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -!
UGAU1	AMMC ! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -!
UGAU2	AMMC ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -!
UGKB1	NGTA ! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!

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HEADING	!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!
UGNG1	AMMC ! 0! +! +! +! 0! +! +! +! -! 0! +! +! +! +! +! +! +! +! +! +!
UGNU2	NVVV ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UGNV	NVVV ! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UGNV1	NVVV ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
UGNV2	NVVV ! 0! 0! -! 0! 0! 0! 0! 0! -! 0! -! 0! 0! 0! 0! 0! 0! 0! -! 0!
UGNZ1	NZKL ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
UGNZ2	NZKL ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
UGUA1	AMMC ! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UGZA1	FAPR ! 0! 0! +! 0! +! 0! -! 0! 0! 0! +! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
UHFJ1	NFFN ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0!
UHKU1	NCPY ! -! 0! 0! -! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0!
UHKU2	NCRG ! -! 0! -! 0! -! 0! 0! 0! -! 0! -! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0!
UHNZ2	NZKL ! -! -! -! 0! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -!
UIKB1	NGTA ! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0!
UIKU1	NCRG ! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UITV1	NGFU ! -! 0! 0! 0! -! 0! 0! 0! -! 0! -! 0! -! 0! 0! 0! -! 0! 0! 0! 0!
UJZM1	NSTU ! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! 0! 0! -! 0! 0! -! 0!
UJZM2	NSTU ! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! 0! 0! -! 0! -! 0!
UKAA10	RUML ! -! 0! -! 0! -! 0! 0! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0!
UKA13	AMMC ! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UKAK2	SJMA ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UKNC1	NWWB ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UKRE1	FMEF ! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UKRE7	FMEF ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0!
ULAA10	AMMC ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! -! 0! 0! 0! 0!
ULAA10	RUML ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! -! 0! -! 0!
ULRE1	FMEF ! 0! 0! -! 0! 0! 0! +! 0! 0! +! 0! 0! +! 0! 0! +! 0! 0! 0! 0!
UMKB1	NGTA ! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0!
UMNZ6	NZKL ! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0!
UMTV	NGFU ! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UMTV1	NGFU ! -! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0!
UOKU1	NCPY ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
UPAU1	AMMC ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
UPFJ1	NFFN ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
UPKB1	NGTA ! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0!
UPKU1	NCAI ! -! -! 0! -! -! -! 0! -! -! -! 0! -! -! 0! -! -! 0! -! -! -!
UPKU1	NCPY ! -! 0! 0! -! -! 0! -! -! 0! -! -! 0! -! -! 0! 0! -! 0! -! -!
UPKU1	NCRG ! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! -! -! -! 0! +! -! +! 0!
UPKU1	NZKL ! +! 0! +! +! +! +! +! +! -! +! +! +! +! +! +! +! +! +! +!
UPMC1	NWBB ! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UPNC1	NNBB ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0!
UPNZ1	NZKL ! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0!
UPNZ2	NFTF ! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UPNZ3	NZKL ! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UPTV1	NGFU ! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UQNV2	NVVV ! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0!
UQNZ	NZKL ! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UQNZ2	AGGH ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UQNZ2	NZKL ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! -! 0!
USAA1	NZCH ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
USAA10	RUML ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! -! 0!
USKU1	NXKL ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
USNG1	NWBB ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
USNZZ	NZKL ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0!
USSA1	FASE ! 0! 0! 0! 0! 0! 0! -! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
USSA10	RUML ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
USUA1	AMMC ! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
USUA2	AMMC ! +! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0!
USUA3	AMMC ! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! -! 0! 0! 0!
USZM1	NZTU ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0!
UYKB1	NGTA ! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0!

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HEADING	!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!
AAS1	RJTD ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
ABEH	PGTW ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
AXX1	VHHH ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
CSAH1	OAKB ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
CSMU1	VHHH ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
LK01	RKSL ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
MCI31	BABJ ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
MHK1	VHHH ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
MTH20	VTBB ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
NOJP1	RJTD ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
SETH1	VTBB ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
SEXX1	KWBC ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
SMKP0	VDPP ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
SMKP1	VDPP ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
SMKW1	OKAM ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
SMLA1	VLIV ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
SMMA1	FIMP ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! -! -! 0! 0! 0! 0!
SMMG1	FMMI ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0!
SMMO1	MNUB ! 0! -! 0! 0! 0! 0! 0! -! -! -! 0! -! -! -! -! -! -! -! -! 0! -! 0! 0!
SMMS1	WMKK ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0!
SMPA1	RJTD ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! -! 0! 0! 0!
SMSD2	OEJD ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! -!
SMSR1	WSSS ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! -!
SMTH1	VTBB ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMVB1	VTBB ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMVB11	BABJ ! -! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMVE1	WMKK ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMVS1	VNNN ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMVX1	VHHH ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
SMVX1	WSSS ! 0!
SMVX10	RJTD ! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
SMVX11	RJTD ! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
SMVX12	RJTD ! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! -! 0! 0! -! 0! 0! 0! 0! 0! 0! 0!
SMVX13	RJTD ! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0!
SMVX14	RJTD ! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0!
UATH1	VTBB ! 0! +! +! 0! +! -! 0! +! 0! +! -! 0! +! 0! 0! +! 0! +! +! +! +! +! +!
UAXX1	VHHH ! 0! +! +! 0! +! +! +! +! -! +! +! +! +! +! +! +! +! +! +! +!
UECI11	BABD ! 0!
UELA1	VLIV ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0!
UEMS1	WMKK ! +! 0! 0! 0! 0! 0! 0! +! 0! +! 0! -! 0! -! 0! +! 0! +! 0! +! 0! 0!
UEPH1	RPMM ! +! 0! 0! 0! 0! 0! 0! +! 0! +! 0! -! 0! -! 0! 0! -! 0! 0! +! 0!
UEPH2	RPMM ! 0! 0! 0! 0! 0! 0! 0! +! 0! +! 0! -! 0! -! 0! 0! 0! +! 0! +! 0!
UESR1	WSSS ! +! 0! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0!
UHIN2	DEMS ! 0! 0! 0! 0! 0! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! 0! -!
UHSR1	WSSS ! 0! -! 0! 0! 0! 0! 0! 0! -! -! -! -! -! -! -! -! -! +! -! +! -!
UKLA1	VLIV ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! -!
UKSR1	WSSS ! +! 0! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0!
ULKR1	DKPY ! +! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! -! 0! +! 0! +! 0! +! 0! +! 0!
ULMG1	FMMI ! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! +! 0! +! 0! -! 0! +! 0! 0! 0!
ULSR1	WSSS ! +! 0! 0! 0! 0! 0! 0! +! 0! +! 0! -! 0! +! 0! +! 0! -! 0! +! 0!
UPAH1	OAKB ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UPKP1	VDPP ! 0! -! 0! 0! 0! 0! 0! 0! +! -! +! -! 0! -! -! -! -! 0! +! 0! +! -!
UPLA1	VLIV ! 0! -! 0! 0! 0! 0! 0! 0! +! +! 0! +! 0! +! +! +! +! 0! +! 0! +! +!
UPMA1	FIMP ! +! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! +! 0! 0! 0! 0! 0!
UPMG1	FMMI ! +! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0!
UPMV1	VCCC ! +! 0! 0! 0! 0! 0! 0! +! 0! +! 0! -! 0! +! 0! +! 0! 0! 0! +! 0!
UPPK1	OPKC ! 0! -! 0! 0! 0! 0! -! -! -! 0! -! -! -! 0! -! -! -! 0! 0! -! -!
UPS81	CCCC ! 0!
UPSR1	WSSS ! 0! +! 0! 0! 0! 0! 0! 0! 0! +! -! +! +! +! +! +! +! +! 0! 0! -!
UPTH1	VTBB ! 0! -! 0! 0! 0! 0! 0! 0! +! +! +! 0! +! +! -! +! +! +! +! +! 0! +!
UPVS1	VNNN ! 0! -! 0! 0! 0! 0! 0! 0! +! +! 0! 0! 0! 0! +! 0! 0! 0! +! +! +!
USBM1	VBRR ! +! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! -! 0! 0! 0! 0! 0!
USLA1	VLIV ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! +! 0! -! 0! 0! 0! 0!
USOM1	OOMS ! +! 0! 0! 0! 0! 0! 0! 0! 0! 0! +! 0! 0! 0! 0! 0! 0! 0! +! 0! 0!
USRE1	FMEE ! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! +! 0! 0! 0! +! 0! 0! 0! 0! 0!
USSR1	WSSS ! +! 0! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! +! 0!
UTPA1	RJTD ! +! 0! 0! 0! 0! 0! 0! 0! 0! +! 0! -! 0! -! 0! -! 0! 0! 0! 0! +! 0!

NOTE 1 : + - DATA TRANSMITTED BY CENTRE AND RECEIVED AT ECMWF
 - DATA TRANSMITTED BY CENTRE BUT NOT RECEIVED AT ECMWF
 0 - DATA NOT TRANSMITTED BY CENTRE
 NOTE 2 : ONLY ORIGINAL BULLETINS USED. RTD AND COR BULLETINS ARE NOT INCLUDED.

! DATE = 01 ! DATE = 02 ! DATE = 03 ! DATE = 04 ! DATE = 05 !

HEADING	100!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!
ASOC1	AMMC ! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! 0! 0! 0! 0!
ASXS1	AMMC ! -! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0!
AUOC1	AMMC ! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! 0! 0! 0! 0!
AUOC2	AMMC ! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! 0! 0! 0! 0!
AUXS1	AMMC ! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0!
CSNC1	NWBB ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0!
CSOC1	AMMC ! 0! 0! +! 0! -! 0! +! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
CSPS1	NFFN ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0!
CUFJ1	NFFN ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0!
CUNV1	NVVV ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0!
FSOC1	AMMC ! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! 0! 0! 0! 0!
FUOC1	AMMC ! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! 0! 0! 0! 0!
FUOC2	AMMC ! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! 0! 0! 0! 0!
FUOC3	AMMC ! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! 0! 0! 0! 0!
SMAA1	AMMC ! 0! 0! +! +! +! -! +! +! +! +! +! +! +! +! +! +! -! +! 0! 0! 0!
SMAA1	NZCM ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! -! 0! 0! 0!
SMAA1	SABM ! 0! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! -! 0! 0! 0!
SMFJ1	NFFN ! 0! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! 0! 0! 0!
SMFW1	NWBB ! 0! +! -! +! +! +! +! 0! 0! +! +! +! +! +! +! +! 0! +! 0! 0! 0!
SMKB1	NGTA ! 0! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! 0! 0! 0!
SMSR1	WSSS ! 0! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! -! +! -!
SMVE1	NZKL ! +! +! +! +! -! +! +! +! +! +! +! +! +! +! +! +! +! +! 0! 0! 0!
SMVE1	WIIX ! 0! 0! 0! 0! -! -! 0! -! +! -! -! 0! -! 0! -! 0! 0! 0! 0! 0!
SMVX1	WSSS ! +!
SMZM1	NSTU ! 0! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -! 0! 0!
UAAE1	WSSS ! +! +! 0! 0! +! +! +! -! -! +! +! +! 0! +! +! 0! +! 0! -! -!
UAU1	AMMC ! 0! -! +! +! 0! +! +! +! +! +! +! +! +! +! +! +! +! 0! 0! 0!
UESR1	WSSS ! +! 0! -! -! +! 0! -! 0! +! 0! +! 0! +! -! +! 0! -! 0! +! 0!
UGAU1	AMMC ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! 0! 0!
UGID1	WIIX ! +! 0! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -! -! 0! 0!
UGNG1	AMMC ! 0! +! +! +! +! +! 0! +! -! +! +! +! +! +! +! +! +! +! 0! 0! 0!
UGNV1	NVVV ! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0!
UHID1	WIIX ! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! 0!
UHNZ2	NZKL ! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! 0! 0!
UHSR1	WSSS ! 0! -! +! -! -! -! +! -! -! -! -! -! -! -! -! -! -! +! -! +! -!
UKSR1	WSSS ! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! +! 0!
ULSR1	WSSS ! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! +! 0!
UPAU1	AMMC ! +! +! +! +! +! +! +! +! +! +! +! +! +! -! +! +! +! +! 0! 0! 0!
UPBM1	VBRR ! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UPKU1	NZKL ! +! 0! +! +! +! +! +! -! +! +! +! +! +! +! +! +! +! 0! 0! 0!
UPNZ3	NZKL ! 0! 0! +! +! -! +! +! +! +! +! +! +! +! +! +! +! +! +! 0! 0! 0!
UPSR1	WSSS ! 0! +! +! +! +! +! +! +! -! +! +! +! +! +! +! +! +! +! +! 0! -!
UQID1	WIIX ! +! 0! -! 0! -! 0! +! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! 0! 0!
UQID2	WIIX ! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0!
UQNV1	NVVV ! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0!
USFJ1	NZKL ! +! 0! 0! 0! +! 0! 0! 0! -! 0! 0! 0! +! 0! 0! 0! 0! 0! 0! 0! 0!
USID1	WIIX ! 0! 0! +! 0! +! 0! +! 0! +! 0! -! 0! +! 0! 0! 0! 0! -! 0! 0! 0!

TABLE 1 GLOBAL BULLETINS (N.S. 1 - 19) FROM TOKYO

NOTE 1 : + - DATA TRANSMITTED BY CENTRE AND RECEIVED AT ECMWF
 - - DATA TRANSMITTED BY CENTRE BUT NOT RECEIVED AT ECMWF
 0 - DATA NOT TRANSMITTED BY CENTRE
 NOTE 2 : ONLY ORIGINAL BULLETINS USED. RTD AND COR BULLETINS ARE NOT INCLUDED.
 NOTE 3 : BULLETINS FOR 020000 NOT INCLUDED.

! DATE = 01 ! DATE = 02 ! DATE = 03 ! DATE = 04 ! DATE = 05 !

HEADING	!00!06!	!12!18!	!00!06!	!12!18!	!00!06!	!12!18!	!00!06!	!12!18!	!00!06!	!12!18!	!00!06!	!12!18!
ASOC1	AMMC	!	-!	0!	!	0!	!	-!	0!	!	-!	0!
ASXS1	AMMC	!	-!	0!	!	+!	0!	!	+!	0!	!	+!
AUOC1	AMMC	!	-!	0!	!	-!	0!	!	-!	0!	!	-!
AUOC2	AMMC	!	-!	0!	!	+!	0!	!	+!	0!	!	+!
CSKW1	OKBK	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
CSMU1	VHHH	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
CSNC1	NWBB	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
CSOC1	RUML	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
CSPS1	NFFN	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
CUFJ1	NFFN	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
CUKW1	OKBK	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
CUMO1	MNUB	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
CUNV1	NVVV	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
FSOC1	AMMC	!	-!	0!	!	+!	0!	!	-!	0!	!	-!
FUOC1	AMMC	!	-!	0!	!	+!	0!	!	-!	0!	!	-!
FUOC2	AMMC	!	-!	0!	!	+!	0!	!	-!	0!	!	-!
FUOC3	AMMC	!	-!	0!	!	+!	0!	!	-!	0!	!	-!
SEAU1	AMMC	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
SMAA1	AMMC	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
SMAA1	NZCM	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
SMAA1	RUML	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
SMER1	OMAA	!	-!	0!	!	+!	0!	!	-!	0!	!	-!
SMFJ1	NFFN	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
SMFW1	NWBB	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
SMKB1	NGTA	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
SMK01	RKSL	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
SMKW1	OKBK	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
SMO1	MNUB	!	-!	0!	!	0!	0!	!	-!	0!	!	-!
SMO2	MNUB	!	-!	0!	!	0!	0!	!	-!	0!	!	-!
SMPA1	RJTD	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
SMSD2	OEJD	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
SMTK1	NSAP	!	-!	0!	!	+!	0!	!	-!	0!	!	-!
SMVB0	RIHB	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
SMVB1	RAHB	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
SMVB1	RUGB	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
SMVB10	RUHB	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
SMVB11	BABJ	!	-!	0!	!	0!	0!	!	-!	0!	!	-!
SMVD10	RUHB	!	-!	0!	!	0!	0!	!	-!	0!	!	-!
SMVE1	NFFN	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
SMVX1	DEMS	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
SMVX1	VHHH	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
SMVX11	KWBC	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
SMVX11	RJTD	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
SMVX12	RJTD	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
SMVX13	RJTD	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
SMVX13	RUMS	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
SMVX14	RJTD	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
SMVX15	RJTD	!	-!	0!	!	-!	0!	!	-!	0!	!	-!
SMVX16	RJTD	!	-!	0!	!	-!	0!	!	-!	0!	!	-!
SMZM1	NSTU	!	-!	0!	!	-!	0!	!	-!	0!	!	-!
TSXS10	RJTD	!	+!	0!	!	+!	0!	!	+!	0!	!	+!
TSXS11	RJTD	!	+!	0!	!	+!	0!	!	+!	0!	!	+!
TSXS12	RJTD	!	+!	0!	!	+!	0!	!	+!	0!	!	+!
TUXX1	DEMS	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
UAAU1	AMMC	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
UAXX1	VHHH	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
UEKR1	DKPY	!	+!	0!	!	+!	0!	!	+!	0!	!	+!
UEKW1	OKBK	!	-!	0!	!	-!	0!	!	-!	0!	!	-!
UELA1	VLIV	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
UEMS1	WMKK	!	+!	0!	!	+!	0!	!	+!	0!	!	+!
UEOM1	COOMS	!	-!	0!	!	-!	0!	!	-!	0!	!	-!
UEPH1	RPMM	!	+!	0!	!	+!	0!	!	+!	0!	!	+!
UEPH2	RPMM	!	+!	0!	!	+!	0!	!	+!	0!	!	+!
UESD2	OEJD	!	+!	0!	!	+!	0!	!	+!	0!	!	+!
UESD3	OEJD	!	+!	0!	!	+!	0!	!	+!	0!	!	+!
UGAA1	NZCM	!	-!	0!	!	-!	0!	!	-!	0!	!	-!
UGAU1	AMMC	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
UGID1	WIIX	!	-!	0!	!	-!	0!	!	-!	0!	!	-!
UGNG1	AMMC	!	+!	+!	+!	+!	+!	+!	+!	+!	+!	+!
UGNV2	NVVV	!	-!	0!	!	-!	0!	!	-!	0!	!	-!
UHN2	DEMS	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
UHNZ2	NZKL	!	-!	0!	!	-!	0!	!	-!	0!	!	-!
UHPH2	RPMM	!	-!	0!	!	-!	0!	!	-!	0!	!	-!
UHSR1	WSSS	!	+!	0!	!	+!	0!	!	+!	0!	!	+!
UKLA1	VLIV	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!
UKNZ1	NVVV	!	0!	0!	0!	0!	0!	0!	0!	0!	0!	0!

! DATE = 01 ! DATE = 02 ! DATE = 03 ! DATE = 04 ! DATE = 05 !

HEADING	100!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!00!06!12!18!
ULKR1	DKPY ! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! +! 0! +! 0! +! 0! +! 0! +! 0!
ULKW1	OKBK ! -! 0! -! 0! +! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0!
ULOM1	OOMS ! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! -! 0! -! 0! -! 0! 0! 0!
ULSD1	OEJD ! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! +! 0! +! 0! +! 0! +! 0! +! 0!
ULSD3	OEJD ! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! +! 0! +! 0! +! 0! +! 0! +! 0!
UPAA1	AMMC ! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0!
UPAU1	AMMC ! +!
UPKP1	VDPP ! +! 0! +! -! +! 0! +! -! +! -! 0! -! -! -! -! 0! +! -! +! -!
UPKU1	NZKL ! +! 0! +! +! +! +! +! +! -! +! +! +! +! +! +! +! +! +! +! +!
UPKW1	OKBK ! 0! -! 0! -! 0! +! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0!
UPMV1	VCCC ! +! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! -! 0! +! 0! +! 0! +! 0! +! 0!
UPPH1	RPMW ! +! +! -! +! +! 0! +! +! +! +! +! +! +! +! +! +! +! +! +!
UPPK1	OPKC ! 0! -! -! +! 0! -! -! -! 0! -! -! -! -! 0! -! -! -! -! 0! -! -!
UPSB1	VCCC ! +! +! +! 0! 0! -! +! 0! +! +! +! +! 0! +! +! +! 0! +! +! +! 0!
UPTH1	VTBB ! +! 0! +! +! +! +! +! +! +! +! +! +! -! +! +! +! +! +! +! +!
UQID1	WIIX ! -! 0! -! 0! +! 0! +! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0! -! 0!
UQNC1	NWBB ! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0!
UQNV2	NVYV ! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0! 0! 0! -! 0!
USBM1	VBRR ! +! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! 0! -! 0! 0! 0! +! 0! 0! 0!
USFJ1	NZKL ! +! 0! 0! 0! +! 0! 0! 0! -! 0! 0! 0! +! 0! 0! 0! 0! 0! +! 0! 0!
USJP1	RJTD ! -! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0!
USMO1	MNUB ! +! 0! 0! 0! 0! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! +! 0! -! 0!
USOM1	OOMS ! +! 0! +! 0! 0! 0! 0! 0! +! 0! 0! 0! +! 0! 0! 0! +! 0! -! 0! 0! 0!
USRA10	RUHB ! +! +! +! +! +! +! +! +! +! +! +! +! +! -! +! +! +! +! +! +!
USRA10	RUNW ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! -! +! +! +! +! +!
USRA10	RUTK ! +! +! -! +! +! +! +! +! +! +! +! +! +! +! +! -! +! +! +! +! +!
USRA11	RUNW ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! -! +! +! +! +! +!
USRA12	RUNW ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! -! +! +! +! +! +!
USRA12	RUTK ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! -! +! +! +! +! +!
USRA13	RUNW ! +! 0! +! +! +! 0! +! +! +! 0! -! +! +! 0! +! +! +! 0! +! +!
USRA14	RUHB ! +! +! +! -! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +! +!
USRA14	RUNW ! +! +! +! +! +! +! +! +! +! +! +! +! +! +! -! +! +! +! +! +!
USRA15	RUHB ! +! +! +! +! +! 0! +! -! +! +! +! +! +! +! +! +! +! +! +! +!
USRA16	RUNW ! +! 0! +! +! +! 0! +! +! +! 0! -! +! +! 0! +! +! +! 0! +! +!
USRA17	RUHB ! +! -! +! +! +! +! +! +! +! +! +! +! +! -! +! +! +! +! +!

NOTE 1 : + - DATA TRANSMITTED BY CENTRE AND RECEIVED AT ECMWF
 - - DATA TRANSMITTED BY CENTRE BUT NOT RECEIVED AT ECMWF
 0 - DATA NOT TRANSMITTED BY CENTRE
 NOTE 2 : ONLY ORIGINAL BULLETINS USED. RTD AND COR BULLETINS ARE NOT INCLUDED.

! DATE = 01 ! DATE = 02 ! DATE = 03 ! DATE = 04 ! DATE = 05 !

HEADING	!00!06!	!2!18!	!00!06!	!2!18!	!00!06!	!2!18!	!00!06!	!2!18!	!00!06!	!2!18!	!00!06!	!2!18!	!00!06!	!2!18!	!00!06!	!2!18!
CSPS1	NFFN	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
CUFJ1	NFFN	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
CUNV1	NVVV	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
CUPF1	NTAA	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
SMAA1	NZCM	!	+	!	+	!	+	!	+	!	+	!	+	!	+	!
SMFJ1	NFFN	!	+	!	+	!	+	!	+	!	+	!	+	!	+	!
SMFJ2	NFFN	!	+	!	+	!	+	!	+	!	+	!	+	!	+	!
SMFW1	NWBB	!	+	!	+	!	+	!	+	!	+	!	+	!	+	!
SMNV1	NVVV	!	+	!	+	!	+	!	+	!	+	!	+	!	+	!
SMTV1	NGFU	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
SMVE1	NFFN	!	-	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
SMVE1	NZKL	!	+	!	+	!	+	!	+	!	+	!	+	!	+	!
SMZM1	NSTU	!	-	!	-	!	-	!	-	!	-	!	-	!	-	!
UAAA1	NZCM	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
UEPF1	NTAA	!	+	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
UGAA1	NZCM	!	+	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
UGNV2	NVVV	!	-	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
UHNZ2	NZKL	!	-	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
UKAI1	NZCM	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
UKNZ1	NVVV	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
UPKU1	NZKL	!	+	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
UPNZ3	NZKL	!	-	!	+	!	+	!	+	!	+	!	+	!	+	!
UPTK1	NZKL	!	+	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
UPTV1	NZKL	!	+	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
UQAA	NZCM	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
UQAA1	NZCM	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
UQNC1	NWBB	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!	0!	!
UQNV2	NVVV	!	0!	!	-	!	0!	!	0!	!	0!	!	0!	!	0!	!

Table 2: Bulletins transmitted from BANGKOK (VIA HONGKONG) (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	559	21	4	451	436	97	39	39	100	1049	496	47
2. AIREP	147	29	20	0	0	-	0	0	-	147	29	20
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	362	13	4	18	18	100	0	0	-	380	31	8
6. PILOT	278	82	29	265	229	86	0	0	-	543	311	57
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	1346	145	11	734	683	93	37	39	100	2119	867	41

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from BANGKOK (VIA KUALA LUMPUR)
(1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	877	140	16	425	316	74	39	39	100	1341	495	37
2. AIREP	343	8	2	0	0	-	0	0	-	343	8	2
3. SATOB	54	3	5	0	0	-	0	0	-	54	3	5
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	504	20	4	0	0	-	0	0	-	504	20	4
6. PILOT	287	49	17	287	251	87	0	0	-	574	300	52
7. SATEM, TOVS, PAOB	95	2	2	0	0	-	0	0	-	95	2	2
T O T A L	2160	222	10	712	567	80	39	39	100	2911	828	28

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from BANGKOK (VIA NEW DELHI)(1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	199	10	5	223	223	100	4	4	100	426	237	56
2. AIREP	128	27	21	0	0	-	0	0	-	128	27	21
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	185	18	10	16	16	100	0	0	-	201	34	17
6. PILOT	161	45	28	150	128	85	0	0	-	311	173	56
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	673	100	15	389	367	94	4	4	100	1066	471	43

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from BANGKOK (VIA RANGOON) (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	490	13	3	180	180	100	0	0	-	670	193	29
2. AIREP	0	0	-	1	1	100	0	0	-	1	1	100
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	199	6	3	0	0	-	0	0	-	199	6	3
6. PILOT	177	34	19	136	112	82	0	0	-	313	146	47
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	866	53	6	317	293	92	0	0	-	1183	346	29

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from BANGKOK (VIA TOKYO) (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	205	10	5	273	273	100	40	40	100	518	323	62
2. AIREP	144	29	20	0	0	-	0	0	-	144	29	20
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	191	12	6	17	17	100	0	0	-	208	29	14
6. PILOT	184	49	27	174	151	87	0	0	-	358	200	56
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	724	100	14	464	441	95	40	40	100	1228	581	47

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from BEIJING (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	653	284	43	101	85	84	0	0	-	754	369	49
2. AIREP	0	0	-	0	0	-	0	0	-	0	0	-
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	511	218	43	0	0	-	10	10	100	521	228	44
6. PILOT	125	48	38	0	0	-	10	10	100	135	58	43
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	1289	550	43	101	85	84	20	20	100	1410	655	46

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from BRASILIA (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	369	95	26	21	7	33	0	0	-	390	102	26
2. AIREP	0	0	-	0	0	-	0	0	-	0	0	-
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	0	0	-	1	1	100	0	0	-	1	1	100
5. TEMP	202	58	29	1	1	100	0	0	-	203	59	29
6. PILOT	38	15	39	22	22	100	0	0	-	60	37	62
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	609	168	28	45	31	69	0	0	-	654	199	30

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from CASABLANCA (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	43	0	0	0	0	-	0	0	-	43	0	0
2. AIREP	0	0	-	0	0	-	0	0	-	0	0	-
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	30	8	27	0	0	-	0	0	-	30	8	27
6. PILOT	40	24	60	0	0	-	0	0	-	40	24	60
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	113	32	28	0	0	-	0	0	-	113	32	28

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from HONG KONG (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	1142	51	4	880	805	91	99	99	100	2121	955	45
2. AIREP	788	33	4	0	0	-	0	0	-	788	33	4
3. SATOB	57	3	5	0	0	-	0	0	-	57	3	5
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	598	30	5	18	18	100	30	30	100	646	78	12
6. PILOT	425	73	17	344	319	93	50	50	100	819	442	54
7. SATEM, TOVS, PAOB	102	0	0	0	0	-	0	0	-	102	0	0
T O T A L	3112	190	6	1242	1142	92	179	179	100	4533	1511	33

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from JAKARTA (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	436	112	26	148	118	80	65	65	100	649	295	45
2. AIREP	168	31	18	0	0	-	0	0	-	168	31	18
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	4	4	100	0	0	-	0	0	-	4	4	100
5. TEMP	300	88	29	5	5	100	0	0	-	305	93	30
6. PILOT	353	78	22	112	85	76	0	0	-	465	163	35
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	1261	313	25	265	208	78	65	65	100	1591	586	37

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from JEDDAH (VIA NEW DELHI) (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	755	51	7	218	65	30	0	0	-	973	116	12
2. AIREP	0	0	-	0	0	-	0	0	-	0	0	-
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	363	68	19	0	0	-	0	0	-	363	68	19
6. PILOT	261	16	6	37	15	41	0	0	-	298	31	10
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	1379	135	10	255	80	31	0	0	-	1634	215	13

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from JEDDAH (VIA OFFENBACH) (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	755	51	7	218	65	30	0	0	-	973	116	12
2. AIREP	0	0	-	0	0	-	0	0	-	0	0	-
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	363	68	19	0	0	-	0	0	-	363	68	19
6. PILOT	261	16	6	37	15	41	0	0	-	298	31	10
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	1379	135	10	255	80	31	0	0	-	1634	215	13

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from LUSAKA (VIA HARARI) (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	38	16	42	71	18	25	17	17	100	126	51	40
2. AIREP	0	0	-	0	0	-	0	0	-	0	0	-
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	19	10	53	5	5	100	0	0	-	24	15	62
6. PILOT	27	10	37	24	12	50	0	0	-	51	22	43
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	84	36	43	100	35	35	17	17	100	201	88	44

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from LUSAKA (VIA NAIROBI) (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	18	7	39	27	6	22	5	5	100	50	18	36
2. AIREP	0	0	-	1	1	100	0	0	-	1	1	100
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	9	5	55	0	0	-	0	0	-	9	5	55
6. PILOT	9	3	33	8	4	50	0	0	-	17	7	41
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	36	15	42	36	11	31	5	5	100	77	31	40

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from MELBOURNE (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	395	15	4	146	125	86	117	117	100	658	257	39
2. AIREP	125	0	0	0	0	-	0	0	-	125	0	0
3. SATOB	41	4	10	0	0	-	0	0	-	41	4	10
4. DRIBU, BATHY, TESAC	199	0	0	0	0	-	0	0	-	199	0	0
5. TEMP	293	45	15	31	25	81	0	0	-	324	70	22
6. PILOT	397	5	1	147	147	100	8	8	100	552	160	29
7. SATEM, TOVS, PAOB	540	140	26	0	0	-	0	0	-	540	140	26
T O T A L	1990	209	10	324	297	92	125	125	100	2439	631	26

NOTE 1: a-figure: number of bulletins transmitted.
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from NAIROBI (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	301	104	35	267	92	34	15	15	100	583	211	36
2. AIREP	15	12	80	2	0	0	0	0	-	17	12	70
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	199	88	42	0	0	-	0	0	-	199	88	42
6. PILOT	152	61	40	85	45	53	0	0	-	237	106	45
7. SATEM, TOVS, PAOB	1	1	100	0	0	-	0	0	-	1	1	100
T O T A L	668	266	40	354	137	39	15	15	100	1037	418	40

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from NANDI (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	591	74	12	255	216	85	82	82	100	928	372	40
2. AIREP	12	5	42	0	0	-	0	0	-	12	5	42
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	34	2	6	0	0	-	0	0	-	34	2	6
5. TEMP	440	53	12	9	3	33	0	0	-	449	56	12
6. PILOT	478	125	26	133	112	84	8	8	100	619	245	40
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	1555	259	17	397	331	83	90	90	100	2042	680	33

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from NORRKÖPING (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	197	78	40	47	42	89	262	61	23	506	181	36
2. AIREP	4	2	50	0	0	-	0	0	-	4	2	50
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	63	38	60	0	0	-	0	0	-	63	38	60
5. TEMP	417	55	13	35	23	66	2	2	100	454	80	17
6. PILOT	123	12	10	91	16	18	51	6	12	265	34	13
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	804	185	23	173	81	47	315	69	22	1292	335	26

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from SINGAPORE (VIA JAKARTA) (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	710	49	7	364	278	76	27	27	100	1101	354	32
2. AIREP	291	10	3	0	0	-	0	0	-	291	10	3
3. SATOB	38	0	0	0	0	-	0	0	-	38	0	0
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	434	22	5	0	0	-	0	0	-	434	22	5
6. PILOT	251	52	21	262	237	90	1	1	100	513	289	56
7. SATEM, TOVS, PAOB	74	0	0	0	0	-	0	0	-	74	0	0
T O T A L	1798	133	7	626	515	82	28	28	100	2452	676	27

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from SINGAPORE (VIA KUALA LUMPUR)
(1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	441	32	7	217	175	81	58	58	100	716	265	37
2. AIREP	244	17	7	0	0	-	0	0	-	244	17	7
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	4	0	0	0	0	-	0	0	-	4	0	0
5. TEMP	419	8	2	16	16	100	0	0	-	435	24	5
6. PILOT	457	56	12	201	164	82	0	0	-	658	220	33
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	1565	113	7	434	355	82	58	58	100	2057	526	26

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 2: Bulletins transmitted from TOKYO (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	1761	122	7	969	824	85	72	72	100	2802	1018	36
2. AIREP	744	6	0.8	1	1	100	0	0	-	745	7	0.9
3. SATOB	61	3	5	11	0	0	0	0	-	72	3	4
4. DRIBU, BATHY, TESAC	28	0	0	0	0	-	0	0	-	28	0	0
5. TEMP	1507	68	5	13	13	100	0	0	-	1520	81	5
6. PILOT	848	95	11	451	372	82	0	0	-	1299	467	36
7. SATEM, TOVS, PAOB	52	5	10	0	0	-	0	0	-	52	5	10
T O T A L	5001	299	6	1445	1210	84	72	72	100	6518	1581	24

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

NOTE 3: Bulletins for 02000 have been excluded because there appeared to be a major outage at this time.

Table 2: Bulletins transmitted from WELLINGTON (1-5 October 1984)

ECMWF Storage Files Type	B U L L E T I N S (Distribution Type)											
	Global a - 19			Regional 20 - 39			National 40 - 89			Total 1 - 89		
	a	b	c	a	b	c	a	b	c	a	b	c
1. SURFACE	312	33	10	253	218	86	0	0	-	565	251	44
2. AIREP	190	5	3	0	0	-	0	0	-	190	5	3
3. SATOB	0	0	-	0	0	-	0	0	-	0	0	-
4. DRIBU, BATHY, TESAC	0	0	-	0	0	-	0	0	-	0	0	-
5. TEMP	271	4	1	0	0	-	0	0	-	271	4	1
6. PILOT	240	33	14	176	128	73	0	0	-	416	161	39
7. SATEM, TOVS, PAOB	0	0	-	0	0	-	0	0	-	0	0	-
T O T A L	1013	75	7	429	346	81	0	0	-	1442	421	29

NOTE 1: a-figure: number of bulletins transmitted
b-figure: number of bulletins not received at ECMWF
c-figure: b-figure as a percentage of a-figure.

NOTE 2: These figures refer to original bulletins only.
RTD and COR bulletins are not included.

Table 3: Reception of Global Bulletins at ECMWF

	SURFACE	AIREP	SATOB	DRIBU BATHY TESAC	TEMP	PILOT	SATEM TOVS PAOB	TOTAL
BANGKOK (VIA HONGKONG)	4 (21)	20 (29)	-	-	4 (13)	29 (82)	-	11 (145)
BANGKOK (VIA K.LUMPUR)	16 (140)	2 (8)	5 (3)	-	4 (20)	17 (49)	2 (2)	10 (222)
BANGKOK (VIA NEW DELHI)	5 (10)	21 (27)	-	-	10 (18)	28 (45)	-	15 (100)
BANGKOK (VIA RANGOON)	3 (13)	-	-	-	3 (6)	19 (34)	-	6 (53)
BANGKOK (VIA TOKYO)	5 (10)	20 (29)	-	-	6 (12)	27	-	14
BEIJING	43 (284)	-	-	-	43 (218)	38 (48)	-	43 (550)
BRASILIA	26 (95)	-	-	-	29 (58)	39 (15)	-	28 (168)
CASABLANCA	0	-	-	-	27 (8)	60 (24)	0	28 (32)
HONGKONG	4 (51)	4 (33)	5 (3)	-	5 (30)	17 (73)	0	6 (190)
JAKARTA	26 (112)	18 (31)	-	100 (4)	29 (88)	22 (78)	-	25 (313)
JEDDAH (VIA NEW DELHI)	7 (51)	-	-	-	19 (68)	6 (16)	-	10 (135)
JEDDAH (VIA OFFENBACH)	7 (51)	-	-	-	19 (68)	6 (16)	-	10 (135)
LUSAKA (VIA HARARI)	42 (16)	-	-	-	53 (10)	37 (10)	-	43 (36)
LUSAKA (VIA NAIROBI)	39 (7)	-	-	-	55 (5)	33 (3)	-	42 (15)
MELBOURNE	4 (15)	0	10 (4)	0	15 (45)	1 (5)	26 (140)	10 (209)
NAIROBI	35 (104)	80 (12)	-	-	42 (88)	40 (61)	100 (1)	40 (266)
NANDI	12 (74)	42 (5)	-	6 (2)	12 (53)	26 (125)	-	17 (259)
NORRKÖPING	40 (78)	50 (2)	-	60 (38)	13 (55)	10 (12)	-	23 (185)
SINGAPORE (VIA JAKARTA)	7 (49)	3 (10)	0	-	5 (22)	21 (52)	0	7 (133)
SINGAPORE (VIA K.LUMPUR)	7 (32)	7 (17)	-	0	2 (8)	12 (56)	-	7 (113)
TOKYO	7 (122)	1 (6)	5 (3)	0	5 (68)	11 (95)	10 (5)	6 (299)
WELLINGTON	10 (33)	3 (5)	-	-	1 (4)	14 (33)	-	7 (75)
T O T A L	12 (1368)	6 (214)	5 (13)	13 (44)	14 (965)	18 (981)	17 (148)	13 (3733)

Table 4: Reception of Regional Bulletins at ECMWF

	SURFACE	AIREP	SATOB	DRIBU BATHY TESAC	TEMP	PILOT	SATEM TOVS PAOB	TOTAL
BANGKOK (VIA HONGKONG)	97 (436)	-	-	-	100 (18)	86 (229)	-	93 (683)
BANGKOK (VIA K.LUMPUR)	74 (316)	-	-	-	-	87 (251)	-	80 (567)
BANGKOK (VIA NEW DELHI)	100 (223)	-	-	-	100 (16)	85 (128)	-	94 (367)
BANGKOK (VIA RANGOON)	100 (180)	100 (1)	-	-	-	82 (112)	-	92 (293)
BANGKOK (VIA TOKYO)	100 (273)	-	-	-	100 (17)	87 (151)	-	95 (441)
BEIJING	84 (85)	-	-	-	-	-	-	84 (85)
BRASILIA	33 (7)	-	-	100 (1)	100 (1)	100 (22)	-	69 (31)
CASABLANCA	-	-	-	-	-	-	-	-
HONGKONG	91 (805)	-	-	-	100 (18)	93 (319)	-	92 (1142)
JAKARTA	80 (118)	-	-	-	100 (5)	76 (85)	-	78 (208)
JEDDAH (VIA NEW DELHI)	30	-	-	-	-	41 (15)	-	31 (15)
JEDDAH (VIA OFFENBACH)	30 (65)	-	-	-	-	41 (15)	-	31 (80)
LUSAKA (VIA HARARI)	25 (18)	-	-	-	100 (5)	50 (12)	-	35 (35)
LUSAKA (VIA NAIROBI)	22 (6)	100 (1)	-	-	-	50 (4)	-	31 (11)
MELBOURNE	86 (125)	-	-	-	81 (25)	100 (147)	-	92 (297)
NAIROBI	34 (92)	0	-	-	-	53 (45)	-	39 (137)
NANDI	85 (218)	-	-	-	33 (3)	84 (112)	-	83 (333)
NORRKÖPING	89 (42)	-	-	-	66 (23)	18 (16)	-	47 (81)
SINGAPORE (VIA JAKARTA)	76 (278)	-	-	-	-	90 (237)	-	82 (515)
SINGAPORE (VIA K.LUMPUR)	81 (175)	-	-	-	100 (16)	82 (164)	-	82 (355)
TOKYO	85 (824)	100 (1)	0	-	100 (13)	82 (372)	-	84 (1210)
WESTMINGTON	86 (218)	-	-	-	-	73 (128)	-	81 (346)
T O T A L	78 (4504)	60 (3)	0 (0)	100 (1)	59 (160)	82 (2564)	-	78 (7132)

Table 5: Reception of National Bulletins at ECMWF

	SURFACE	AIREP	SATOB	DRIBU BATHY TESAC	TEMP	PILOT	SATEM TOVS PAOB	TOTAL
BANGKOK (VIA HONGKONG)	39	0	0	0	0	0	0	39
BANGKOK (VIA K.LUMPUR)	39	0	0	0	0	0	0	39
BANGKOK (VIA NEW DELHI)	4	0	0	0	0	0	0	4
BANGKOK (VIA RANGOON)	0	0	0	0	0	0	0	0
BANGKOK (VIA TOKYO)	40	0	0	0	0	0	0	40
BEIJING	0	0	0	0	10	10	0	20
BRASILIA	0	0	0	0	0	0	0	0
CASABLANCA	0	0	0	0	0	0	0	0
HONGKONG	99	0	0	0	0	0	0	99
JAKARTA	65	0	0	0	0	0	0	65
JEDDAH (VIA NEW DELHI)	0	0	0	0	0	0	0	0
JEDDAH (VIA OFFENBACH)	0	0	0	0	0	0	0	0
LUSAKA (VIA HARARI)	17	0	0	0	0	0	0	17
LUSAKA (VIA NAIROBI)	5	0	0	0	0	0	0	5
MELBOURNE	117	0	0	0	0	8	0	125
NAIROBI	15	0	0	0	0	0	0	15
NANDI	82	0	0	0	0	8	0	90
NORRKÖPING	262	0	0	0	2	51	0	315
SINGAPORE (VIA JAKARTA)	27	0	0	0	0	1	0	28
SINGAPORE (VIA K.LUMPUR)	58	0	0	0	0	0	0	58
TOKYO	72	0	0	0	0	0	0	72
WELLINGTON	0	0	0	0	0	0	0	0
T O T A L	941	0	0	0	12	78	0	1031

Table 6: Reception of All Transmitted Bulletins (Global + Regional + National) at ECMWF

	SURFACE	AIREP	SATOB	DRIBU BATHY TESAC	TEMP	PILOT	SATEM TOVS PAOB	TOTAL
BANGKOK (VIA HONGKONG)	47 (496)	20 (29)	-	-	8 (57)	57 (311)	-	41 (893)
BANGKOK (VIA K.LUMPUR)	37 (495)	2 (8)	5 (3)	-	4 (20)	52 (300)	2 (2)	28 (828)
BANGKOK (VIA NEW DELHI)	56 (237)	21 (27)	-	-	17 (34)	56 (173)	-	43 (470)
BANGKOK (VIA RANGOON)	29 (193)	100 (1)	-	-	3 (6)	47 (146)	-	29 (346)
BANGKOK (VIA TOKYO)	62 (323)	20 (29)	-	-	14 (29)	56 (200)	-	47 (581)
BEIJING	49 (369)	-	-	-	44 (228)	43 (58)	-	46 (655)
BRASILIA	26 (102)	-	-	100 (1)	29 (59)	62 (37)	-	30 (199)
CASABLANCA	0	-	-	-	27 (8)	60 (24)	-	28 (32)
HONGKONG	45 (955)	4 (33)	5 (3)	-	12 (78)	54 (442)	0	33 (1511)
JAKARTA	45 (295)	18 (31)	-	100 (4)	30 (93)	35 (163)	-	37 (586)
JEDDAH (VIA NEW DELHI)	12 (116)	-	-	-	19 (68)	10 (31)	-	13 (215)
JEDDAH (VIA OFFENBACH)	12 (116)	-	-	-	19 (68)	10 (31)	-	13 (215)
LUSAKA (VIA HARARI)	40 (51)	-	-	-	62 (15)	43 (22)	-	44 (88)
LUSAKA (VIA NAIROBI)	36 (18)	100 (1)	-	-	55 (5)	41 (7)	-	40 (31)
MELBOURNE	39 (257)	0	10 (4)	0	22 (70)	29 (160)	26 (140)	26 (631)
NAIROBI	36 (211)	70 (12)	-	-	42 (88)	45 (106)	100 (1)	40 (418)
NANDI	40 (372)	42 (5)	-	6 (2)	12 (56)	40 (245)	-	33 (680)
NORRKÖPING	36 (181)	50 (2)	-	60 (38)	17 (80)	13 (34)	-	26 (335)
SINGAPORE (VIA JAKARTA)	32 (354)	3 (10)	0	-	5 (22)	56 (289)	0	27 (675)
SINGAPORE (VIA K.LUMPUR)	37 (265)	7 (17)	-	0	5 (24)	33 (220)	-	26 (526)
TOKYO	36 (1018)	1 (7)	4 (7)	0	5 (81)	36 (467)	10 (5)	24 (1585)
WELLINGTON	44 (251)	3 (5)	-	-	1 (4)	39 (161)	-	29 (421)
T O T A L	37 (6675)	7 (217)	6 (17)	14 (145)	14 (1193)	41 (3627)	17 (148)	30 (11922)

Table 7: Bulletins never received at ECMWF

ABEH	PGTW	UGMC1	GMMC
ASOC1	AMMC	UHIN2	DEMS
ASXS1	AMMC	UHKU1	NCPY
AUOC1	AMMC	UHKU1	NCRG
AUOC2	AMMC	UHNZ2	NZKL
		UIKB1	NGTA
FSOC1	AMMC	UITV1	NGFU
FUOC1	AMMC	UIZM1	NSTU
FUOC2	AMMC	UJZM2	NSTU
FUOC3	AMMC	UKAA10	RUML
		ULAA10	RUML
SMAA1	AMMC	ULKW1	OKBK
SMAA1	SCEF	ULOM1	OOMS
SMBZ10	SBBR	UMKB1	NGTA
SMBZ11	SBBR	UMNZ6	NZKL
SMBZO3	SBBR	UPKB1	NGTA
SMCO2	MCBO	UPKU1	NCAI
SMMO1	MNUB	UPKU1	NCPY
SMRE1	FMEE	UPNZ1	NZKL
SMSM1	MEZY	UPPK1	OPKC
SMTC1	FACT	UQNV2	NVVV
SMVD10	RUHB	USAA10	RUML
SMVF11	ENMI	USKA1	PTKK
SMVF12	ENMI	USKA1	PTPN
SMVF13	ENMI	USKA1	PTYA
SMVX10	RJTD	USMZ1	FQMA
SMVX11	RJTD	UZKB1	NGTA
SMVX12	RJTD		
SMVX13	RJTD		
SMVX14	RJTD		
SMVX15	RJTD		
SMVX16	RJTD		
SMZM1	NSTU		
SMZW1	NSTU		
SMZW10	FVHA		
SSNT12	ENMI		
TNSE1	RUMC		
TUXS18	KWBC		
TUXS19	KWBC		
TUXX1	DEMS		
UAAV1	AMMC		
UEAA10	RUML		
UEKW1	OKBK		
UELA1	VLIV		
UEOM1	OOMS		
UEOW1	OOMS		
UFBK1	NGTA		
UFTV1	NGFU		
UGID1	WIIX		
UGNV2	NVVV		