

## FM 95 CREX

**CREX Table D – List of common sequences**

F	X	Category of sequences
D	00	CREX table entries sequences
D	01	Location and identification sequences
D	02	Meteorological sequences common to surface data
D	03	Meteorological sequences common to vertical soundings data
D	04	Meteorological sequences common to satellite observations ( <i>not to be used in CREX for transmission</i> )
D	05	Meteorological or hydrological sequences common to hydrological observations
D	06	Meteorological or oceanographic sequences common to oceanographic observations
D	07	Surface report sequences (land)
D	08	Surface report sequences (sea)
D	09	Vertical sounding sequences (conventional data)
D	10	Vertical sounding sequences (satellite data) ( <i>not to be used in CREX for transmission</i> )
D	11	Single level report sequences (conventional data)
D	12	Single level report sequences (satellite data) ( <i>not to be used in CREX for transmission</i> )
D	13	Sequences common to image data ( <i>not to be used in CREX for transmission</i> )
D	14	Reserved
D	15	Oceanographic report sequences
D	16	Synoptic feature sequences
D	18	Radiological report sequences
D	21	Radar report sequences ( <i>not to be used in CREX for transmission</i> )
D	22	Chemical and aerosol sequences
D	35	Monitoring information

**Notes:**

- (1) From a conceptual point of view, Table D is *not necessary*:
  - (a) The Data description section can fully and completely describe the data using only element descriptors, operator descriptors and the rules of description;
  - (b) Such a means of defining the data would involve considerable overheads in terms of the length of the Data description section. Table D is a device to reduce these overheads;
  - (c) Each entry within Table D contains a list of descriptors. Each sequence descriptor that references to Table D may be “expanded” by replacing it with the list corresponding to that entry. The process of “expansion” is well defined, provided it results in a set of element descriptors and operator descriptors;
  - (d) Descriptors listed in entries to Table D may themselves refer to Table D, provided no circularity results on repeated expansion;
  - (e) The initial Table D has been limited to lists of descriptors likely to be used frequently. Every attempt has been made not to produce initial tables that are too comprehensive. *Minor differences of reporting practice can be accommodated by not endeavouring to reduce each observation type to a single descriptor.* Indeed, much more flexibility is retained if the Data description section is envisaged as containing three or four descriptors.
- (2) It should be noted that, initially, effort has been concentrated on the requirements for observational data. Extensions forecast data, time series data, products, etc., follow logically and can be added at an appropriate future date.
- (4) Underwater soundings are included, with some minor omissions, to illustrate the facility to describe data of slightly different contents.
- (7) Categories 48 to 63 are reserved for local use; all other categories are reserved for future development.
- (8) Entries 192 to 255 within all categories are reserved for local use.

*Editorial note: Notes are numbered so as to be consistent with the BUFR Table D for convenience.*



**Category 00 – CREX table entries sequences**

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 00 010	D 00 003 R 01 000 B 00 030	F, X, Y of descriptor to be added or defined Delayed replication of 1 descriptor Descriptor defining sequence	Up to 9999 entries
D 00 015	B 00 030	(Code table definition) Descriptor defining sequence	
	R 02 000	Delayed replication of 2 descriptors	
	B 00 024	Code figure	
	B 00 025	Code figure meaning	
D 00 016	B 00 030	(Flag table definition) Descriptor defining sequence	
	R 02 000	Delayed replication of 2 descriptors	
	B 00 026	Bit number	
	B 00 027	Bit number meaning	

**Notes:**

- (1) These entries include the facility to update the Table A code figure and data description.
- (2) It is better to use different Class 00 descriptors for the defining and defined elements, in the same way as different descriptors correspond to pressure considered as a coordinate and pressure measured at a given point; otherwise special rules would be needed to interpret such message. Entries B 00 010 to B 00 012 define F, X and Y for Tables B and D; entry B 00 030 is a descriptor used as data and provides the F, X and Y values defining a sequence for Table D entries.
- (3) It could be argued that, as only additions are possible, only complete lines should be allowed; but it is conceivable that local areas will require changes as well as additions, so it is better and in any case clearer to provide descriptions for all the fields.



**Category 01 – Location and identification sequences**

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 01 027	B 08 007	(Description of a feature in 3-D or 2-D) Dimensional significance	= 0 Point, = 1 Line, = 2 Area, = 3 Volume
	R 01 000	Delayed replication of 1 descriptor (see Note 5)	
	D 01 028	Horizontal section of a feature described as a polygon, circle, line or point	Set to missing (cancel)
	B 08 007	Dimensional significance	

Note:

- (5) This replication factor shall have a value of “1” when a 2-D feature is being described, whereas 3-D features may be described via any one of the following methods:
- Via two or more horizontal sections in successive ascending flight levels. In this case, each section shall be described by an identical number of latitude/longitude points listed in identical order (i.e. where each point x of section n is to be joined via a straight line to point x of section n+1), in order to ensure that the overall shape of the 3-D feature is unambiguously described. In this case, all values reported for B 33 042 shall be “missing”.
  - Via a single horizontal section with an appropriate value reported for B 33 042, as follows. In all such cases, the corresponding horizontal section description applies throughout the entire region.
    - A value of “0” to indicate a region above (but not including) the reported flight level and with unspecified upper bound.
    - A value of “1” to indicate a region above (and including) the reported flight level and with unspecified upper bound.
    - A value of “2” to indicate a region below (but not including) the reported flight level and extending to the surface.
    - A value of “3” to indicate a region below (and including) the reported flight level and extending to the surface.
  - Via two replications of the same horizontal section at the same reported flight level, in order to indicate a region extending both below and above (and including!) the reported flight level. In this case, the values reported for the two replications of B 33 042 shall be as follows:
    - Values of “3” and “1”, respectively, to indicate a region beginning from below a reported flight level, but continuing through that level upward to some unspecified point above (e.g. TOP ABV FL100).
    - Values of “1” and “3”, respectively, to indicate a region beginning from above a reported flight level, but continuing through that level downward to some unspecified point below (e.g. CIGS BLW FL010).



**Category 02 – Meteorological sequences common to surface data**

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 02 013	D 02 006	(Basic surface report)	
	D 02 003	Pressure and 24-hour pressure change	
	R 01 000	Wind, temperature, humidity, visibility, weather	
	D 02 005	Delayed replication of 1 descriptor	
D 02 035		Cloud layer	
		(Basic synoptic “instantaneous” data)	
	D 02 032	Temperature and humidity data	
	D 02 033	Visibility data	
	D 02 034	Precipitation past 24 hours	
	B 07 032	Height of sensor above local ground (or deck of marine platform)	Set to missing (cancel)
	D 02 004	General cloud information	
	R 01 000	Delayed replication of 1 descriptor	
D 02 036	D 02 005	Cloud layer	Individual cloud layer or mass
		(Clouds with bases below station level)	
	R 05 000	Delayed replication of 5 descriptors	
	B 08 002	Vertical significance (surface observations)	
	B 20 011	Cloud amount	
	B 20 012	Cloud type	
	B 20 014	Height of top of cloud	
	B 20 017	Cloud top description	
D 02 054		(Ship “instantaneous” data)	
	D 02 052	Ship temperature and humidity data	
	D 02 053	Ship visibility data	
	B 07 033	Height of sensor above water surface	Set to missing (cancel)
	D 02 034	Precipitation past 24 hours	
	B 07 032	Height of sensor above local ground (or deck of marine platform)	Set to missing (cancel)
	D 02 004	General cloud information	
	R 01 000	Delayed replication of 1 descriptor	
D 02 084	D 02 005	Cloud layer	
		(“Instantaneous” data of sequence D 07 096)	
	D 02 031	Pressure information	
	D 02 072	Temperature and humidity data	
	R 03 000	Delayed replication of 3 descriptors	
	R 01 005	Replicate 1 descriptor 5 times	
	D 07 063	Depth below land surface and soil temperature	
	B 07 061	Depth below land surface	Set to missing (cancel)

(continued)

(Category 02 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 02 084 (continued)	R 01 000	<i>Visibility data</i> Delayed replication of 1 descriptor	Set to missing (cancel)
	D 02 069	Visibility data	
	B 07 032	Height of sensor above local ground (or deck of marine platform)	
	B 07 033	Height of sensor above water surface	Set to missing (cancel)
		<i>Marine data</i>	
	R 05 000	Delayed replication of 5 descriptors	Scale: 2
	B 20 031	Ice deposit (thickness)	
	B 20 032	Rate of ice accretion (estimated)	
	B 02 038	Method of water temperature and/or salinity measurement	Scale: 2
	B 22 043	Sea/water temperature	
	D 02 021	Waves	
		<i>State of ground and snow depth measurement</i>	
	R 01 000	Delayed replication of 1 descriptor	Scale: 2
	D 02 078	State of ground and snow depth measurement	
	B 12 113	Ground minimum temperature, past 12 hours	
		<i>Cloud data</i>	
	R 01 000	Delayed replication of 1 descriptor	Set to missing (cancel)
	D 02 004	General cloud information	
	R 05 000	Delayed replication of 5 descriptors	
	B 08 002	Vertical significance (surface observations)	
	B 20 011	Cloud amount	
	B 20 012	Cloud type	
	B 33 041	Attribute of following value	
	B 20 013	Height of base of cloud	
	D 02 036	Clouds with bases below station level	
		<i>Direction of cloud drift 6D<sub>L</sub>D<sub>M</sub>D<sub>H</sub></i>	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 047	Direction of cloud drift	
	B 08 002	Vertical significance (surface observations)	
		<i>Direction and elevation of cloud 57CD<sub>a</sub>e<sub>c</sub></i>	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 048	Direction and elevation of cloud	
		(“Period” data of sequence D 07 096)	
		<i>Present and past weather data</i>	
D 02 085	R 05 000	Delayed replication of 5 descriptors	
	B 20 003	Present weather	
	R 03 002	Replicate 3 descriptors 2 times	

(continued)



(Category 02 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 02 085 (continued)	B 04 024	Time period or displacement = –1 hour in the first replication, = –x hours in the second replication, x corresponding to the time period of $W_1W_2$ in the SYNOP report	/see left column
	B 20 004	Past weather (1)	
	B 20 005	Past weather (2) <i>Intensity of precipitation, size of precipitation element</i>	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 175	Intensity of precipitation, size of precipitation element <i>Precipitation, obscuration and other phenomena</i>	
	R 02 000	Delayed replication of 2 descriptors	
	B 04 025	Time period or displacement	= –10 minutes
	D 02 076	Precipitation, obscuration and other phenomena <i>Lightning data</i>	
	R 02 000	Delayed replication of 2 descriptors	
	B 04 025	Time period or displacement	= –10 minutes
	B 13 059	Number of flashes (thunderstorm) <i>Wind data</i>	
	B 07 032	Height of sensor above local ground (or deck of marine platform)	
	B 07 033	Height of sensor above water surface	
	B 08 021	Time significance	= 2 Time averaged
	B 04 025	Time period or displacement	= –10 minutes, or number of minutes after a significant change of wind
	B 11 001	Wind direction	
	B 11 002	Wind speed	
	B 08 021	Time significance	Set to missing
	R 03 003	Replicate 3 descriptors 3 times	
	B 04 025	Time period or displacement = –10 minutes in the first replication, = –60 minutes in the second replication, = –60x3 or 60x6 minutes in the third replication	/ see left column
	B 11 043	Maximum wind gust direction	
	B 11 041	Maximum wind gust speed	
	B 04 025	Time period or displacement	= –10 minutes
	B 11 016	Extreme counterclockwise wind direction of a variable wind	

(continued)

(Category 02 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 02 085 (continued)	B 11 017	Extreme clockwise wind direction of a variable wind <i>Extreme temperature data</i>	Set to missing (cancel)
	D 02 077	Extreme temperature data	
	B 07 033	Height of sensor above water surface	
	D 02 041	Extreme temperature data <i>Precipitation measurement</i>	
	R 06 000	Delayed replication of 6 descriptors	
	B 07 032	Height of sensor above local ground (or deck of marine platform)	
	B 02 175	Method of precipitation measurement	
	B 02 178	Method of liquid content measurement of precipitation	
	R 02 005	Replicate 2 descriptors 5 times	
	B 04 024	Time period or displacement	
			= –1 hour in the first replication, = –3, –6, –12 and –24 hours in the other replications
	B 13 011	Total precipitation/total water equivalent	Set to missing (cancel)
	B 07 032	Height of sensor above local ground (or deck of marine platform) <i>Evaporation data</i>	
	R 03 000	Delayed replication of 3 descriptors	
	B 02 185	Method of evaporation measurement	
	R 01 002	Replicate 1 descriptor 2 times	
	D 02 044	Evaporation data <i>Total sunshine data</i>	
	R 02 000	Delayed replication of 2 descriptors	
	R 01 002	Replicate 1 descriptor 2 times	
	D 02 039	Sunshine data (from 1 hour and 24-hour period) <i>Radiation data</i>	
	R 02 000	Delayed replication of 2 descriptors	
	R 01 002	Replicate 1 descriptor 2 times	
	D 02 045	Radiation data (from 1 hour and 24-hour period) <i>Temperature change group 54g<sub>0</sub>s<sub>n</sub>d<sub>T</sub></i>	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 046	Temperature change <i>First-order statistics of P, W, T, U data</i>	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 083	First-order statistics of P, W, T, U data	

**Category 05 – Meteorological or hydrological sequences common to hydrological observations**

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 05 003	D 01 012	(SADC-HYCOS measurement array definition) Hour, minute	First single measurement minus increment Time interval between measurements
	B 04 065	Short time increment	
	R 01 000	Delayed replication of 1 descriptor	
	D 05 001	SADC-HYCOS single measurement	
D 05 006		(MEDHYCOS measurement)	Kelvin 4 characters long
	B 13 072	Downstream water level	
	B 13 082	Water temperature	
	B 13 019	Total precipitation past 1 hour	
	C 07 005	Units replacement	
	C 01 004	Data width replacement	
	B 12 001	Temperature/air temperature	
	B 13 073	Maximum water level	
D 05 007		(MEDHYCOS report)	Time of first measurement Time interval between measurements  Single measurement
	D 01 029	Identification	
	D 01 012	Hour, minute	
	B 04 065	Short time increment	
	R 01 000	Delayed replication of 1 descriptor	
D 05 008	D 05 006	(AOCHYCOS – Chad measurement) MEDHYCOS measurement	Same as MEDHYCOS type measurement Kelvin 4 characters long At –50 cm
	C 07 005	Units replacement	
	C 01 004	Data width replacement	
	B 12 030	Soil temperature	
		(AOCHYCOS – Chad report)	
D 05 009	D 01 029	Identification	Time of first measurement Time interval between measurements  Single measurement
	D 01 012	Hour, minute	
	B 04 065	Short time increment	
	R 01 000	Delayed replication of 1 descriptor	
	D 05 008	AOCHYCOS – Chad measurement	

(continued)

(Category 05 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 05 011	D 01 029	(MEDHYCOS report type 2) Identification	Time of first measurement Time interval between measurements  Single measurement
	D 01 012	Hour, minute	
	B 04 065	Short time increment	
	R 01 000 D 05 010	Delayed replication of 1 descriptor MEDHYCOS – Measurement type 2	
D 05 018		(MEDHYCOS report with meteorology and water quality data)	Time of first measurement Hour increment  Same as AOCHYCOS type measurement
	D 01 029	Identification	
	D 01 012	Hour, minute	
	B 04 065	Short time increment	
	R 03 000	Delayed replication of 3 descriptors	
	D 05 008	AOCHYCOS – Chad measurement	
	D 05 016	Meteorological parameters associated with hydrological data	
	D 05 017	Water quality measurement	

**Category 06 – Meteorological or oceanographic sequences common to oceanographic observations**

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 06 001	B 02 032	(Depth, temperature) Indicator for digitization	
	R 02 000	Delayed replication of 2 descriptors	
	B 07 062	Depth below sea/water surface	
	B 22 042	Sea/water temperature	
D 06 004	B 02 032	(Depth, temperature, salinity) Indicator for digitization	
	B 02 033	Method of salinity/depth measurement	
	R 03 000	Delayed replication of 3 descriptors	
	B 07 062	Depth below sea/water surface	
	B 22 043	Sea/water temperature	
	B 22 062	Salinity	
D 06 005	B 02 031	Duration and time of current measurement	
	R 03 000	Delayed replication of 3 descriptors	
	B 07 062	Depth below sea/water surface	
	B 22 004	Direction of current	
	B 22 031	Speed of current	
D 06 013	D 06 012	(Sequence for representation of water level and residual in the time series) Sequence for representation of sensor type, significant qualifier for sensor and status of operation	Reference date for the time series Reference time for the time series  Added to reset the reference time Added to each data value in the time series
	D 01 011	Year, month, day	
	D 01 013	Hour, minute, second	
	B 22 120	Tide station automated water level check	
	B 22 121	Tide station manual water level check	
	B 04 015	Time increment	
	B 04 065	Short time increment	
	R 02 000	Delayed replication of 2 descriptors	
	B 22 038	Tidal elevation with respect to local chart datum	
	B 22 040	Meteorological residual tidal elevation (surge or offset)	
D 06 014	D 06 012	(Sequence for representation of water level in the time series, similar to D 06 013 but with no residual) Sequence for representation of sensor type, significant qualifier for sensor and status of operation	Reference date for the time series
	D 01 011	Year, month, day	

(continued)

(Category 06 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 06 014 (continued)	D 01 013	Hour, minute, second	Reference time for the time series
	B 22 120	Tide station automated water level check	Added to reset the reference time Added to each data value in the time series
	B 22 121	Tide station manual water level check	
	B 04 015	Time increment	
	B 04 065	Short time increment	Alphanumeric
	R 01 000	Delayed replication of 1 descriptor	
	B 22 038	Tidal elevation with respect to local chart datum	
D 06 019		(Tide report identification, water level checks, time increments)	2 characters long
	B 01 075	Tide station identification	
	D 01 011	Year, month, day	
	D 01 012	Hour, minute	Message status Reference date/time for the time series
	B 22 042	Sea/water temperature	
	B 22 120	Tide station automated water level check	
	B 22 121	Tide station manual water level check	
	C 01 002	Data width replacement	
	B 04 015	Time increment (see Note 1)	
D 06 030	B 04 065	Short time increment	BPR CPU Acoustic modem DSP Acoustic modem
		(Sequence for representation of DART buoy standard hourly report)	
	D 06 027	Sequence for representation of DART buoy identification, transmitter ID, type of tsunameter and the time the message is transmitted to the ground system	
	D 06 029	Sequence for representation of tsunameter sampling information for water column heights in the time series report	Added to reset the reference time Added to each data value in the time series
	R 11 000	Delayed replication of 11 descriptors	
	B 33 002	Quality information	
	D 01 011	Year, month, day	Replicate 1 descriptor 4 times Water column height
	D 01 013	Hour, minute, second	
	B 25 025	Battery voltage	
	B 25 025	Battery voltage	Added to reset the reference time Added to each data value in the time series
	B 25 026	Battery voltage (large range)	
	B 22 185	BPR transmission count	
	B 04 015	Time increment	Replicate 1 descriptor 4 times Water column height
	B 04 065	Short time increment	
	R 01 004	Replicate 1 descriptor 4 times	
	B 22 182	Water column height	

(continued)

(Category 06 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 06 031	D 06 027	(Sequence for representation of DART buoy tsunami event reports and extended tsunami event reports) Sequence for representation of DART buoy identification, transmitter ID, type of tsunameter and the time the message is transmitted to the ground system	<p>Message status Time when tsunami is detected</p> <p>Reference date/time for the time series</p> <p>Determination of actual value reported in the time series Added to reset the reference time Added to each data value in the time series</p> <p>Number of frequency bins</p>
	D 06 029	Sequence for representation of tsunameter sampling information for water column heights in the time series report	
	B 01 053	Tsunameter report sequence number triggered by a tsunami event	
	B 33 002	Quality information	
	D 01 011	Year, month, day	
	D 01 013	Hour, minute, second	
	D 01 011	Year, month, day	
	D 01 013	Hour, minute, second	
	B 22 185	BPR transmission count	
	B 22 182	Water column height	
	B 04 016	Time increment	
	B 04 066	Short time increment	
	R 01 000	Delayed replication of 1 descriptor	
D 06 040	B 22 184	Water column height deviation from the reference value	
		(Sequence for representation of detailed spectral wave measurements)	
	B 22 078	Duration of wave record	
	B 22 082	Maximum non-directional spectral wave density	
	R 06 000	Delayed replication of 6 descriptors	
	B 22 080	Waveband central frequency	
	B 22 069	Spectral wave density	
	B 22 086	Mean direction from which waves are coming	
	B 22 087	Principal direction from which waves are coming	
	B 22 088	First normalized polar coordinate from Fourier coefficients	
	B 22 089	Second normalized polar coordinate from Fourier coefficients	

(continued)

(Category 06 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 06 041	B 02 032	(Depth and temperature profile (high accuracy /precision)) Indicator for digitization	= 0 Fixed sensor depths Number of depths
	R 02 000	Delayed replication of 2 descriptors	
	B 07 062	Depth below sea/water surface	
	B 22 043	Sea/water temperature	

Note:

- (1) Range of value for parameter B 04 015 limited from –99 to 99; CREX common sequence D 06 019 being the original sequence with 2 characters only for the corresponding descriptor.



**Category 07 – Surface report sequences (land)**

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 07 003	D 07 001	(Low altitude station) Low altitude station	Location (high accuracy) and basic report
	R 01 000 D 02 005	Delayed replication of 1 descriptor Cloud layer	
D 07 004	D 07 002	(Low altitude station) Low altitude station	Location (coarse accuracy) and basic report
	R 01 000 D 02 005	Delayed replication of 1 descriptor Cloud layer	
D 07 012	R 03 000 B 08 023 B 05 021	(Horizontal visibility) Delayed replication of 3 descriptors First-order statistics Bearing or azimuth	Up to 3  Direction of visibility observed VVVV
	B 20 001	Horizontal visibility	
D 07 013	R 06 000 B 01 064 B 08 014 B 20 061 B 08 014 B 20 061 B 20 018	(Runway visual range) Delayed replication of 6 descriptors Runway designator Qualifier for runway visual range Runway visual range (RVR) Qualifier for runway visual range Runway visual range (RVR) Tendency of runway visual range	Up to 4 D <sub>R</sub> D <sub>R</sub>  V <sub>R</sub> V <sub>R</sub> V <sub>R</sub> V <sub>R</sub>  V <sub>R</sub> V <sub>R</sub> V <sub>R</sub> V <sub>R</sub> i
D 07 014	R 01 000 B 20 019	(Significant present or forecast weather) Delayed replication of 1 descriptor Significant present or forecast weather	Up to 3 w'w'
D 07 015	R 01 000 D 02 005 B 20 002	(Clouds group(s)) Delayed replication of 1 descriptor Cloud layer Vertical visibility	N <sub>s</sub> N <sub>s</sub> N <sub>s</sub> , CC, h <sub>s</sub> h <sub>s</sub> h <sub>s</sub> VVh <sub>s</sub> h <sub>s</sub> h <sub>s</sub>
D 07 016	R 01 000 B 20 020	(Significant recent weather phenomena) Delayed replication of 1 descriptor Significant recent weather phenomena	Up to 3 REw'w'
D 07 017	R 01 000 B 11 070	(Wind shear on runway(s)) Delayed replication of 1 descriptor Designator of the runway affected by wind shear (including ALL)	WS RWYD <sub>R</sub> D <sub>R</sub>

(continued)

(Category 07 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 07 018	B 08 016	(Trend-type landing forecast) Change qualifier of a trend-type forecast or an aerodrome forecast	TTTTT
	R 02 000	Delayed replication of 2 descriptors	Up to 2
	B 08 017	Qualifier of the time when the forecast change is expected	FM, TL, AT
	D 01 012	Hour, minute	GG, gg
	R 04 000	Delayed replication of 4 descriptors	Up to 1
	B 07 006	Height above station	
	B 11 001	Wind direction	ddd
	B 11 002	Wind speed	ff
	B 11 041	Maximum wind gust speed	f <sub>m</sub> f <sub>m</sub>
	B 20 009	General weather indicator (TAF/METAR)	
	R 01 000	Delayed replication of 1 descriptor	Up to 1
	B 20 001	Horizontal visibility	VVVV
	D 07 014	Significant present or forecast weather	w'w'
D 07 046		(METAR/SPECI visibility)	
	B 20 060	Prevailing horizontal visibility	VVVV or VVVVNDV
	R 02 000	Delayed replication of 2 descriptors	Up to 2
	B 05 021	Bearing or azimuth	Direction of minimum visibility observed D <sub>v</sub>
	B 20 059	Minimum horizontal visibility	V <sub>N</sub> V <sub>N</sub> V <sub>N</sub> V <sub>N</sub>
D 07 047		(METAR/SPECI/TAF clouds), replacing D 07 015	
	R 05 000	Delayed replication of 5 descriptors	
	B 08 002	Vertical significance (surface observations)	
	B 20 011	Cloud amount	N <sub>s</sub> N <sub>s</sub> N <sub>s</sub>
	B 20 012	Cloud type	CC
	B 20 013	Height of base of cloud	h <sub>s</sub> h <sub>s</sub> h <sub>s</sub> – m
	B 20 092	Height of base of cloud	h <sub>s</sub> h <sub>s</sub> h <sub>s</sub> – ft
	B 20 002	Vertical visibility	VVh <sub>s</sub> h <sub>s</sub> h <sub>s</sub> – m
	B 20 091	Vertical visibility	VVh <sub>s</sub> h <sub>s</sub> h <sub>s</sub> – ft
D 07 048		(Trend type forecast), replacing D 07 018	
	B 08 016	Change qualifier of a trend-type forecast or an aerodrome forecast	TTTTT NOSIG
	R 02 000	Delayed replication of 2 descriptors	= 0, 1 or 2
	B 08 017	Qualifier of the time when the forecast change is expected	TT
	D 01 012	Hour, minute	GGgg
	R 12 000	Delayed replication of 12 descriptors	= 0 or 1
	B 07 032	Height of sensor above local ground (or deck of marine platform)	= 10 m (if the actual value is not available)
	B 11 001	Wind direction	ddd
	B 08 054	Qualifier for wind speed or wind gusts	P

(continued)

(Category 07 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 07 048 (continued)	B 11 083	Wind speed (see Note 5)	ff – km/h
	B 11 084	Wind speed (see Note 5)	ff – kt
	B 11 002	Wind speed (see Note 5)	ff – m/s
	B 08 054	Qualifier for wind speed or wind gusts	P
	B 11 085	Maximum wind gust speed (see Note 6)	$f_m f_m$ – km/h
	B 11 086	Maximum wind gust speed (see Note 6)	$f_m f_m$ – kt
	B 11 041	Maximum wind gust speed (see Note 6)	$f_m f_m$ – m/s
	B 08 054	Qualifier for wind speed or wind gusts	Set to missing (cancel)
	B 07 032	Height of sensor above local ground (or deck of marine platform)	Set to missing (cancel)
	B 20 009	General weather indicator (TAF/METAR)	CAVOK NSW NSC
	R 01 000	Delayed replication of 1 descriptor	= 0 or 1
	B 20 060	Prevailing horizontal visibility	VVVV
	D 07 014	Significant present and forecast weather	Weather intensity and phenomena w'w'
	D 07 047	METAR/SPECI/TAF clouds, replacing D 07 015	$N_s N_s N_s h_s h_s h_s$
		(Sea conditions)	
D 07 049	R 02 000	Delayed replication of 2 descriptors	= 0 or 1
	B 22 043	Sea/water temperature	$T_s T_s$
	B 22 021	Height of waves	S'
D 07 050		(Runway state)	
	R 01 000	Delayed replication of 1 descriptor	= 0 or 1
	B 20 085	General condition of runway	SNOCLO
	R 02 000	Delayed replication of 2 descriptors	
	B 01 064	Runway designator	$D_R D_R$
	B 20 085	General condition of runway	CLRD//
	R 05 000	Delayed replication of 5 descriptors	
	B 01 064	Runway designator	$D_R D_R$
	B 20 086	Runway deposits	$E_R$
	B 20 087	Runway contamination	$C_R$
	B 20 088	Depth of runway deposits	$e_R e_R$
	B 20 089	Runway friction coefficient	$B_R B_R$
D 07 051		(Full METAR/SPECI), replacing D 07 021	
	D 07 045	Main part of METAR/SPECI, replacing D 07 011	
	D 07 046	METAR/SPECI visibility	VVVV or VVVVNDV
			$V_N V_N V_N V_N D_V$
	D 07 013	Runway visual range	$R_D R_D R_D V_R V_R V_R V_R$
	D 07 014	Significant present and forecast weather	Weather intensity and phenomena w'w'
	D 07 047	METAR/SPECI/TAF clouds, replacing D 07 015	$N_s N_s N_s h_s h_s h_s$
	D 07 016	Significant recent weather phenomena	REw'w'
	D 07 017	Wind shear on runway(s)	WS $R_D R_D R_D$

(continued)

(Category 07 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 07 051 (continued)	D 07 049	Sea conditions	WT <sub>s</sub> T <sub>s</sub> /SS' RD <sub>R</sub> DR/ERCRERERBRBR = 0 to 3 normally
	D 07 050	Runway state	
	R 01 000	Delayed replication of 1 descriptor	
	D 07 048	Trend type forecast, replacing D 07 018	
D 07 056		(Aerodrome forecast – full TAF)	
	D 07 052	Aerodrome forecast identification and time interval	
	D 07 053	Forecast weather at an aerodrome	
	D 07 054	Forecast of extreme temperatures	
	R 01 000	Delayed replication of 1 descriptor	
D 07 079	D 07 055	Change indicator and forecast changes	
		(Sequence for representation of synoptic reports from fixed land stations suitable for SYNOP data and for maritime data from coastal stations)	
	D 01 090	Surface station identification; time, horizontal and vertical coordinates	
	D 02 031	Pressure information	
	D 02 035	Basic synoptic “instantaneous” data	
	D 02 036	Clouds with bases below station level	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 047	Direction of cloud drift	
	B 08 002	Vertical significance (surface observations)	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 048	Direction and elevation of cloud	
	D 02 037	State of ground, snow depth, ground minimum temperature	
	R 02 000	Delayed replication of 2 descriptors	
	B 22 061	State of the sea	
	B 20 058	Visibility seawards from a coastal station	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 056	Sea/water temperature	
			Sea/water surface temperature, method of measurement, depth below water surface
	R 01 000	Delayed replication of 1 descriptor	
	D 02 055	Icing and ice	
	D 02 043	Basic synoptic “period” data	
	D 02 044	Evaporation data	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 045	Radiation data (from 1 hour and 24-hour period)	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 046	Temperature change	

(continued)

(Category 07 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 07 084	D 01 090	(Sequence for representation of synoptic reports from a fixed land station suitable for SYNOP data in compliance with reporting practices in RA IV) Surface station identification; time, horizontal and vertical coordinates	Set to missing (cancel)
	D 02 031	Pressure information	
	D 02 035	Basic synoptic “instantaneous” data	
	D 02 036	Clouds with bases below station level	
	D 02 047	Direction of cloud drift	
	B 08 002	Vertical significance (surface observations)	
	D 02 048	Direction and elevation of cloud	
	D 02 037	State of ground, snow depth, ground minimum temperature	
	B 20 055	State of sky in the tropics	
	R 01 000	Delayed replication of 1 descriptor	
	C 05 001	Character insertion	
	D 02 043	Basic synoptic “period” data	
	D 02 044	Evaporation data	
	R 01 002	Replicate 1 descriptor 2 times	
	D 02 045	Radiation data (from 1 hour and 24-hour period)	
	D 02 046	Temperature change	
		(“Instantaneous” parameters of sequence D 07 089) <i>Surface station identification, time, horizontal and vertical coordinates</i>	
D 07 087	D 01 001	WMO block and station number	IIiii i <sub>x</sub> YY GG, gg
	B 02 001	Type of station	
	D 01 011	Year, month, day	
	D 01 012	Hour, minute	
	D 01 023	Latitude/longitude (coarse accuracy)	
	B 07 030	Height of station ground above mean sea level	
	B 07 031	Height of barometer above mean sea level	
		<i>Pressure data</i>	
	D 02 001	Pressure and 3-hour pressure change	
	B 10 062	24-hour pressure change	
	B 07 004	Pressure	
	B 10 009	Geopotential height	P <sub>0</sub> P <sub>0</sub> P <sub>0</sub> P <sub>0</sub> , PPPP, ppp, a p <sub>24</sub> p <sub>24</sub> p <sub>24</sub> Standard level a <sub>3</sub> = 925, 850, 700, .. hPa   Set to missing for lowland stations Standard level hhh   Set to missing for lowland stations

(continued)

(Category 07 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 07 087 (continued)	B 07 032	<i>Temperature and humidity</i> Height of sensor above local ground (or deck of marine platform)	Temperature measurement
	B 12 101	Temperature/air temperature	$s_n T_{TT}$   Scale: 2
	B 12 103	Dewpoint temperature	$s_n T_d T_d$   Scale: 2
	B 13 003	Relative humidity	
	B 07 032	Height of sensor above local ground (or deck of marine platform)	Set to missing (cancel)
		<i>Visibility</i>	
	B 20 001	Horizontal visibility	VV
		<i>Cloud data</i>	
	D 02 004	General cloud information Cloud cover (total) N: If N = 9, then B 20 010 = 113, if N = /, then B 20 010 = missing   Vertical significance: If $C_L$ are observed, then B 08 002 = 7   Low cloud: If $C_L$ are not observed and $C_M$ are observed, then B 08 002 = 8   Middle cloud: If only $C_H$ are observed, B 08 002 = 0, if N = 9, then B 08 002 = 5, if N = 0, then B 08 002 = 62, if N = /, then B 08 002 = missing   Cloud amount (of low or middle clouds) $N_h$ : If N = 0, then B 20 011 = 0, if N = 9, then B 20 011 = 9, if N = /, then B 20 011 = missing   Height of base of cloud h: If N = 0 or /, then B 20 013 = missing   Cloud type (low clouds) $C_L$ : B 20 012 = $C_L + 30$ , if N = 0, then B 20 012 = 30, if N = 9 or /, then B 20 012 = 62   Cloud type (middle clouds) $C_M$ : B 20 012 = $C_M + 20$ , if N = 0, then B 20 012 = 20, if N = 9 or / or $C_M = /$ , then B 20 012 = 61   Cloud type (high clouds) $C_H$ : B 20 012 = $C_H + 10$ , if N = 0, then B 20 012 = 10, if N = 9 or / or $C_H = /$ , then B 20 012 = 60	/see left column
	R 01 000	Delayed replication of 1 descriptor	
	D 02 005	Cloud layer Vertical significance: In any Cb layer, B 08 002 = 4, else in the first replication, if N = 9, then B 08 002 = 5, if N = /, then B 08 002 = missing, else B 08 002 = 1, in the other replications B 08 002 = 2, 3, 4   Cloud amount $N_s$ : In the first replication, if N = /, then B 20 011 = missing, else B 20 011 = $N_s$ , in the other replications B 20 011 = $N_s$   Cloud type C: If N = 9 or /, then B 20 012 = missing, else B 20 012 = C   Height of base of cloud $h_s h_s$	/see left column

(continued)

(Category 07 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 07 091		(CREX template for surface observations from one-hour period with national and WMO station identification)	
	D 01 089	National station identification	
	D 01 090	Surface station identification; time, horizontal and vertical coordinates	
	B 08 010	Surface qualifier (temperature data)	
	D 01 091	Surface station instrumentation	
	D 02 001	Pressure and 3-hour pressure change	
	B 07 004	Pressure	Standard level
	B 10 009	Geopotential height	Standard level
	D 02 072	Temperature and humidity data	
	R 03 000	Delayed replication of 3 descriptors	
	R 01 005	Replicate 1 descriptor 5 times	
	D 07 063	Depth below land surface and soil temperature	
	B 07 061	Depth below land surface	Set to missing (cancel)
	R 01 000	Delayed replication of 1 descriptor	
	D 02 069	Visibility data	
	B 07 032	Height of sensor above local ground (or deck of marine platform)	Set to missing (cancel)
	B 07 033	Height of sensor above water surface	Set to missing (cancel)
	R 05 000	Delayed replication of 5 descriptors	
	B 20 031	Ice deposit (thickness)	
	B 20 032	Rate of ice accretion (estimated)	
	B 02 038	Method of water temperature and/or salinity measurement	
	B 22 043	Sea/water temperature	Scale: 2
	D 02 021	Waves	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 078	State of ground and snow depth measurement	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 073	Cloud data	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 074	Present and past weather	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 175	Intensity of precipitation, size of precipitation element	
	R 02 000	Delayed replication of 2 descriptors	
	B 04 025	Time period or displacement	= –10 (minutes)
	D 02 076	Precipitation, obscuration and other phenomena	
	D 02 071	Wind data from one-hour period	
	D 02 077	Extreme temperature data	
	B 07 033	Height of sensor above water surface	Set to missing (cancel)
	R 01 000	Delayed replication of 1 descriptor	

(continued)

(Category 07 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 07 091 (continued)	D 02 079	Precipitation measurement	Set to missing (cancel)             = –10 (minutes)
	B 07 032	Height of sensor above local ground (or deck of marine platform)	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 080	Evaporation measurement	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 081	Total sunshine data	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 082	Radiation data	
	R 02 000	Delayed replication of 2 descriptors	
	B 04 025	Time period or displacement	
	B 13 059	Number of flashes (thunderstorm)	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 083	First-order statistics of P, W, T, U data	
	B 33 005	Quality information (AWS data)	
	B 33 006	Internal measurement status information (AWS)	

Notes:

- (5) Within D 07 045, D 07 048 and D 07 053, wind speed shall be reported in the same units as in the original TAC data and:  
 B 11 083 shall be set to missing, if wind speed is reported in knots or  $\text{m s}^{-1}$  in TAC data,  
 B 11 084 shall be set to missing, if wind speed is reported in  $\text{km h}^{-1}$  or  $\text{m s}^{-1}$  in TAC data.
- (6) Within D 07 045, D 07 048 and D 07 053, maximum wind speed (gusts) shall be reported in the same units as in the original TAC data and:  
 B 11 085 shall be set to missing, if maximum wind speed is reported in knots or  $\text{m s}^{-1}$  in TAC data,  
 B 11 086 shall be set to missing, if maximum wind speed is reported in  $\text{km h}^{-1}$  or  $\text{m s}^{-1}$  in TAC data.



**Category 08 – Surface report sequences (sea)**

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 08 010	B 01 011	(TRACKOB template) Ship or mobile land station identifier	
	R 13 000	Delayed replication of 13 descriptors	
	D 01 011	Year, month, day	
	D 01 012	Hour, minute	
	D 01 021	Latitude/longitude (high accuracy)	
	B 04 080	Averaging period for following value	
	B 22 049	Sea-surface temperature	
	B 04 080	Averaging period for following value	
	B 22 059	Sea-surface salinity	
	B 04 080	Averaging period for following value	
	B 22 005	Direction of sea-surface current	
	B 02 042	Indicator for sea-surface current speed	
	B 22 032	Speed of sea-surface current	
	B 02 042	Indicator for sea-surface current speed	Cancel
	B 04 080	Averaging period for following value	Cancel



**Category 09 – Vertical sounding sequences (conventional data)**

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 09 001	D 01 037	(Vertical wind profile) Land station for vertical soundings	Identification, etc. (land station, high accuracy position)
	R 01 000 D 03 011	Delayed replication of 1 descriptor Wind at height	
D 09 002	D 01 038	(Vertical wind profile) Land station for vertical soundings	Identification, etc. (land station, coarse accuracy position)
	R 01 000 D 03 011	Delayed replication of 1 descriptor Wind at height	
D 09 003	D 01 037	(Vertical wind profile) Land station for vertical soundings	Identification, etc. (land station, high accuracy position)
	R 01 000 D 03 012	Delayed replication of 1 descriptor Wind at pressure level	
D 09 004	D 01 038	(Vertical wind profile) Land station for vertical soundings	Identification, etc. (land station, coarse accuracy position)
	R 01 000 D 03 012	Delayed replication of 1 descriptor Wind at pressure level	
D 09 005	D 01 037	(Vertical sounding with relative humidity) Land station for vertical soundings	Identification, etc. (land station, high accuracy position) Significant cloud layer
	D 02 004	General cloud information	
	R 01 000 D 03 013	Delayed replication of 1 descriptor Geopotential, temperature, humidity, wind at pressure level	
D 09 006	D 01 038	(Vertical sounding with relative humidity) Land station for vertical soundings	Identification, etc. (land station, coarse accuracy position) Significant cloud layer
	D 02 004	General cloud information	
	R 01 000 D 03 013	Delayed replication of 1 descriptor Geopotential, temperature, humidity, wind at pressure level	
D 09 007	D 01 037	(Vertical sounding with dewpoint data) Land station for vertical soundings	Identification, etc. (land station, high accuracy position) Significant cloud layer
	D 02 004	General cloud information	
	R 01 000 D 03 014	Delayed replication of 1 descriptor Geopotential, temperature, dewpoint temperature, wind at pressure level	

(continued)

(Category 09 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 09 008	D 01 038	(Vertical sounding with dewpoint data) Land station for vertical soundings	Identification, etc. (land station, coarse accuracy position) Significant cloud layer
	D 02 004	General cloud information	
	R 01 000	Delayed replication of 1 descriptor	
	D 03 014	Geopotential, temperature, dewpoint temperature, wind at pressure level	
D 09 011	D 01 039	(Vertical wind profile) Ship for vertical soundings	Ship's identification, etc.
	R 01 000	Delayed replication of 1 descriptor	
	D 03 011	Wind at height	
D 09 012	D 01 039	(Vertical wind profile) Ship for vertical soundings	Ship's identification, etc.
	R 01 000	Delayed replication of 1 descriptor	
	D 03 012	Wind at pressure level	
D 09 013	D 01 039	(Vertical sounding with relative humidity) Ship for vertical soundings	Ship's identification, etc. Significant cloud layer
	D 02 004	General cloud information	
	R 01 000	Delayed replication of 1 descriptor	
	D 03 013	Geopotential, temperature, humidity, wind at pressure level	
D 09 014	D 01 039	(Vertical sounding with dewpoint data) Ship for vertical soundings	Ship's identification, etc. Significant cloud layer
	D 02 004	General cloud information	
	R 01 000	Delayed replication of 1 descriptor	
	D 03 014	Geopotential, temperature, dewpoint temperature, wind at pressure level	
D 09 015	D 01 040	(Vertical wind profile) Ship for vertical soundings	Ship's identification, etc.
	R 01 000	Delayed replication of 1 descriptor	
	D 03 011	Wind at height	
D 09 016	D 01 040	(Vertical wind profile) Ship for vertical soundings	Ship's identification, etc.
	R 01 000	Delayed replication of 1 descriptor	
	D 03 012	Wind at pressure level	

(continued)

(Category 09 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 09 017	D 01 040	(Vertical sounding with relative humidity) Ship for vertical soundings	Ship's identification, etc. Significant cloud layer
	D 02 004	General cloud information	
	R 01 000	Delayed replication of 1 descriptor	
	D 03 013	Geopotential, temperature, humidity, wind at pressure level	
D 09 018	D 01 040	(Vertical sounding with dewpoint data) Ship for vertical soundings	Ship's identification, etc. Significant cloud layer
	D 02 004	General cloud information	
	R 01 000	Delayed replication of 1 descriptor	
	D 03 014	Geopotential, temperature, dewpoint temperature, wind at pressure level	
D 09 019	D 01 031	(Wind profiler – wind data sounding) Identification and type of station, date/time, location (high accuracy), height of station	
	B 02 003	Type of measuring equipment used	
	R 01 000	Delayed replication of 1 descriptor	
	D 03 011	Wind at height	
D 09 020	D 01 031	(Wind profiler – Cartesian coordinates) Identification and type of station, date/time, location (high accuracy), height of station	
	B 02 003	Type of measuring equipment used	
	R 04 000	Delayed replication of 4 descriptors	
	B 07 003	Geopotential	
	B 11 003	u-component	
	B 11 004	v-component	
	B 11 005	w-component	
D 09 030	B 15 004	(Ozone sonde flight data) (see Note 1) Ozone sounding correction factor (CF)	Since launch time, if needed, in minutes
	B 15 005	Ozone p	
	R 04 000	Delayed replication of 4 descriptors	
	B 04 015	Time increment	
	B 08 006	Ozone vertical sounding significance	
	B 07 004	Pressure	
	B 15 003	Measured ozone partial pressure (sounding)	
D 09 031	B 15 004	(Ozone sonde flight data) Ozone sounding correction factor (CF)	Since launch time in minutes
	B 15 005	Ozone p	
	R 04 000	Delayed replication of 4 descriptors	
	B 04 025	Time period or displacement	
	B 08 006	Ozone vertical sounding significance	
	B 07 004	Pressure	
	B 15 003	Measured ozone partial pressure (sounding)	

(continued)

(Category 09 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 09 054	D 01 001	(Sequence for representation of CLIMAT TEMP and CLIMAT TEMP SHIP data) WMO block and station numbers	Identification of launch site
	B 01 011	Ship or mobile land station identifier	Ship's call sign
	D 01 011	Year, month, day	
	D 01 012	Hour, minute	
	D 01 021	Latitude/longitude (high accuracy)	
	B 07 030	Height of station ground above mean sea level	
	B 07 031	Height of barometer above mean sea level	
	B 07 007	Height	Release of sonde above mean sea level
		<i>Monthly mean data</i>	
	B 04 023	Time period or displacement	Number of days in the month
	B 04 059	Times of observation used to compute the reported mean values	
	R 15 000	Delayed replication of 15 descriptors	
	B 08 001	Vertical sounding significance	
	B 08 023	First-order statistics	= 4 Mean value
	B 07 004	Pressure	
	B 10 009	Geopotential height	
	B 12 101	Temperature/air temperature	
	B 12 103	Dewpoint temperature	
	B 08 023	First-order statistics	= 32 Vector mean
	B 11 001	Wind direction	
	B 11 002	Wind speed	
	B 08 023	First-order statistics	Set to missing
	B 11 019	Steadiness of wind	
	B 08 050	Qualifier for number of missing values in calculation of statistic	= 2 Temperature
	B 08 020	Total number of missing entities (with respect to accumulation or average)	Days
	B 08 050	Qualifier for number of missing values in calculation of statistic	= 9 Wind
	B 08 020	Total number of missing entities (with respect to accumulation or average)	Days
D 09 071		(Sequence for representation of PILOT in the area of ASECNA)	
	D 01 001	WMO block and station numbers	
	B 02 014	Tracking technique/status of system used	
	B 02 003	Type of measuring equipment used	
	D 01 113	Date/time of launch	
	D 01 114	Horizontal and vertical coordinates of launch site	
	D 01 023	Latitude/longitude (coarse accuracy)	
	B 07 030	Height of station ground above mean sea level	
	B 07 007	Height	Release of balloon
	R 03 000	Delayed replication of 3 descriptors	

(continued)

*(Category 09 – continued)*

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 09 071 <i>(continued)</i>	B 07 009 B 11 001 B 11 002	Geopotential height Wind direction Wind speed	

Note:

- (1) Sequence D 09 030 is deprecated because of incorrect usage of descriptor B 04 015; sequence D 09 031 should be used instead.





**Category 11 – Single level report sequences (conventional data)**

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 11 004	R 01 000	(ACARS supplementary reported variables) Delayed replication of 1 descriptor	
	B 11 034	Vertical gust velocity	
	R 01 000	Delayed replication of 1 descriptor	
	B 11 035	Vertical gust acceleration	
	R 01 000	Delayed replication of 1 descriptor	
	B 11 075	Mean turbulence intensity (eddy dissipation rate)	
	R 01 000	Delayed replication of 1 descriptor	
	B 11 076	Peak turbulence intensity (eddy dissipation rate)	
	R 01 000	Delayed replication of 1 descriptor	
	B 33 025	ACARS interpolated values indicator	
	R 01 000	Delayed replication of 1 descriptor	
	B 33 026	Moisture quality	
D 11 008		(Aircraft ascent/descent profile without latitude/longitude indicated at each level)	
	B 01 008	Aircraft registration number or other identification	
	D 01 011	Year, month, day	
	D 01 013	Hour, minute, second	
	D 01 021	Latitude/longitude (high accuracy)	
	B 08 004	Phase of aircraft flight	
	R 01 000	Delayed replication of 1 descriptor	
	D 11 006	AMDAR data or aircraft data for one level without latitude/longitude	
D 11 009		(Aircraft ascent/descent profile with latitude/longitude given for each level)	
	B 01 008	Aircraft registration number or other identification	
	D 01 011	Year, month, day	
	D 01 013	Hour, minute, second	
	D 01 021	Latitude/longitude (high accuracy)	
	B 08 004	Phase of aircraft flight	
	R 01 000	Delayed replication of 1 descriptor	
	D 11 007	Aircraft data for one level with latitude/longitude indicated	



(continued)

(Category 15 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 15 007 (continued)	B 02 171	Instrument serial number for water temperature profile measurement	Set to missing (cancel)
	B 22 067	Instrument type for water temperature/salinity profile measurement <i>Temperature and salinity profile data</i>	Set to missing (cancel)
	B 02 038	Method of water temperature and/or salinity measurement	
	B 22 067	Instrument type for water temperature/salinity profile measurement	
	B 22 068	Water temperature profile recorder types	
	B 02 171	Instrument serial number for water temperature profile measurement	
	B 02 033	Method of salinity/depth measurement	
	B 02 032	Indicator for digitization	
	B 22 056	Direction of profile	
	B 03 011	Method of depth calculation	
	D 06 035	Temperature and salinity profile <i>Current profile data</i>	
	R 07 000	Delayed replication of 7 descriptors	
	B 02 032	Indicator for digitization	
	B 03 010	Method of sea/water current measurement	
	B 02 031	Duration and time of current measurement	
	B 02 040	Method of removing velocity and motion of platform from current	
	B 22 056	Direction of profile	
	B 03 011	Method of depth calculation	
	D 06 036	Current profile <i>Dissolved oxygen profile data</i>	
	R 04 000	Delayed replication of 4 descriptors	
	B 02 032	Indicator for digitization	
	B 03 012	Instrument type/sensor for dissolved oxygen measurement	
	B 03 011	Method of depth calculation	
	D 06 037	Dissolved oxygen profile data	
		(Sequence for the representation of data from moored buoys) <i>Buoy identification and location</i>	
D 15 008	D 01 126	Sequence for representation of moored buoy identification <i>Standard meteorological data</i>	
	D 06 038	Sequence for representation of standard surface marine meteorological observations from moored buoys	For buoys equipped with more than 1 anemometer the height of sensor should relate to the one being used

(continued)

(Category 15 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 15 008 (continued)		<i>Optional ancillary meteorological data</i>	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 091	Sequence for representation of ancillary meteorological observations	
		<i>Optional radiation measurements</i>	
	R 01 000	Delayed replication of 1 descriptor	
	D 02 082	Radiation data	
		<i>Optional basic wave measurements</i>	
	R 01 000	Delayed replication of 1 descriptor	
	D 06 039	Sequence for representation of basic wave measurements	
		<i>Optional spectral wave measurements</i>	
	R 01 000	Delayed replication of 1 descriptor	
	D 06 040	Sequence for representation of detailed spectral wave measurements	
		<i>Optional temperature profile measurements</i>	
	R 02 000	Delayed replication of 2 descriptors	
	B 02 005	Precision of temperature observation	
	D 06 041	Depth and temperature profile (high accuracy/precision)	
		<i>Optional temperature and salinity profile measurements</i>	
	R 02 000	Delayed replication of 2 descriptors	
	B 02 005	Precision of temperature observation	
	D 06 004	Depth, temperature, salinity	
		<i>Optional subsurface current measurements</i>	
	R 01 000	Delayed replication of 1 descriptor	
	D 06 005	Subsurface current measurements	



**Category 16 – Synoptic feature sequences**

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 16 003	R 09 000	(Jet stream) Delayed replication of 9 descriptors	Jet stream value Value for line  Flight level  Cancel Cancel   End of object
	B 08 011	Meteorological feature	
	B 08 007	Dimensional significance	
	R 04 000	Delayed replication of 4 descriptors	
	B 05 002	Latitude (coarse accuracy)	
	B 06 002	Longitude (coarse accuracy)	
	B 10 002	Height	
	B 11 002	Wind speed	
	B 08 007	Dimensional significance	
	B 08 011	Meteorological feature	
D 16 004	R 10 000	(Turbulence) Delayed replication of 10 descriptors	Value for turbulence Value for area Flight level (base of layer) Flight level (top of layer)  Cancel Cancel   End of object
	B 08 011	Meteorological feature	
	B 08 007	Dimensional significance	
	B 07 002	Height or altitude	
	B 07 002	Height or altitude	
	R 02 000	Delayed replication of 2 descriptors	
	B 05 002	Latitude (coarse accuracy)	
	B 06 002	Longitude (coarse accuracy)	
	B 11 031	Degree of turbulence (see Note 1)	
	B 08 007	Dimensional significance	
	B 08 011	Meteorological feature	
D 16 005	R 08 000	(Storm) Delayed replication of 8 descriptors	Storm centre Value for point  Use “UNKNOWN” for a sandstorm Value for type of storm Cancel Cancel   End of object
	B 08 005	Meteorological attribute significance	
	B 08 007	Dimensional significance	
	B 05 002	Latitude (coarse accuracy)	
	B 06 002	Longitude (coarse accuracy)	
	B 01 026	WMO storm name	
	B 19 001	Type of synoptic feature	
	B 08 007	Dimensional significance	
	B 08 005	Meteorological attribute significance	
D 16 006	R 11 000	(Cloud) Delayed replication of 11 descriptors	Value for cloud Value for area Flight level (base of layer) Flight level (top of layer)
	B 08 011	Meteorological feature	
	B 08 007	Dimensional significance	
	B 07 002	Height or altitude	
	B 07 002	Height or altitude	

(continued)

(Category 16 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 16 006 (continued)	R 02 000	Delayed replication of 2 descriptors	Cancel Cancel   End of object
	B 05 002	Latitude (coarse accuracy)	
	B 06 002	Longitude (coarse accuracy)	
	B 20 011	Cloud amount (see Note 2)	
	B 20 012	Cloud type	
	B 08 007	Dimensional significance	
	B 08 011	Meteorological feature	
D 16 007		(Front)	Value for type of front Value for line  Cancel Cancel   End of object
	R 09 000	Delayed replication of 9 descriptors	
	B 08 011	Meteorological feature (see Note 3)	
	B 08 007	Dimensional significance	
	R 04 000	Delayed replication of 4 descriptors	
	B 05 002	Latitude (coarse accuracy)	
	B 06 002	Longitude (coarse accuracy)	
	B 19 005	Direction of motion of feature	
	B 19 006	Speed of motion of feature	
	B 08 007	Dimensional significance	
	B 08 011	Meteorological feature	
D 16 008		(Tropopause)	Bit 3 set for tropopause Value for point Type of tropopause value  Cancel Cancel Cancel   End of object
	R 10 000	Delayed replication of 10 descriptors	
	B 08 001	Vertical sounding significance	
	B 08 007	Dimensional significance	
	B 08 023	First-order statistics (see Note 4)	
	R 03 000	Delayed replication of 3 descriptors	
	B 05 002	Latitude (coarse accuracy)	
	B 06 002	Longitude (coarse accuracy)	
	B 10 002	Height	
	B 08 023	First-order statistics	
	B 08 007	Dimensional significance	
	B 08 001	Vertical sounding significance	
		(Airframe icing area)	
	R 10 000	Delayed replication of 10 descriptors	
D 16 009	B 08 011	Meteorological feature	Value for airframe icing Value for area Flight level (base of layer) Flight level (top of layer)  Type of airframe icing Cancel Cancel   End of object
	B 08 007	Dimensional significance	
	B 07 002	Height or altitude	
	B 07 002	Height or altitude	
	R 02 000	Delayed replication of 2 descriptors	
	B 05 002	Latitude (coarse accuracy)	
	B 06 002	Longitude (coarse accuracy)	
	B 20 041	Airframe icing	
	B 08 007	Dimensional significance	
	B 08 011	Meteorological feature	

(continued)



(Category 16 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 16 010	R 07 000	(Name of feature) Delayed replication of 7 descriptors	Value for point
	B 08 011	Meteorological feature	
	B 08 007	Dimensional significance	
	B 01 022	Name of feature	
	B 05 002	Latitude (coarse accuracy)	Cancel Cancel   End of object
	B 06 002	Longitude (coarse accuracy)	
	B 08 007	Dimensional significance	
	B 08 011	Meteorological feature	
D 16 011	R 16 000	(Volcano erupting) Delayed replication of 16 descriptors	Value for special clouds Volcano name Value for point
	B 08 011	Meteorological feature	
	B 01 022	Name of feature	
	B 08 007	Dimensional significance	
	R 02 000	Delayed replication of 2 descriptors	Eruption starting time
	B 05 002	Latitude (coarse accuracy)	
	B 06 002	Longitude (coarse accuracy)	
	B 08 021	Time significance	
	B 04 001	Year	Clouds from volcanic eruptions Cancel Cancel Cancel   End of object
	B 04 002	Month	
	B 04 003	Day	
	B 04 004	Hour	
	B 04 005	Minute	NWP model name, etc. code table defined by originating/ generating centre
	B 20 090	Special clouds	
	B 08 021	Time significance	
	B 08 007	Dimensional significance	
	B 08 011	Meteorological feature	Forecast Hours Surface synoptic feature
D 16 022	B 01 032	(Forecast data) Generating application	
	B 02 041	Method for estimating reports related to synoptic features	
	B 19 001	Type of synoptic feature	
	B 19 010	Method for tracking the centre of synoptic feature	
	R 18 000	Delayed replication of 18 descriptors	Forecast Hours Surface synoptic feature
	B 08 021	Time significance	
	B 04 014	Time increment	
	B 08 005	Meteorological attribute significance	
	D 01 023	Latitude/longitude (coarse accuracy)	

(continued)

(Category 16 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 16 022 (continued)	B 19 005	Direction of motion of feature	For example, used in the United States Forecast time averaged Minutes  Starting Ending
	B 19 006	Speed of motion of feature	
	B 10 004	Pressure	
	B 11 041	Maximum wind gust speed	
	B 08 021	Time significance	
	B 04 075	Short time period or displacement	
	B 11 040	Maximum wind speed (mean wind)	
	B 19 008	Vertical extent of circulation	
	R 05 004	Replicate 5 descriptors 4 times	
	B 05 021	Bearing or azimuth	
	B 05 021	Bearing or azimuth	
	R 02 002	Replicate 2 descriptors 2 times	
	B 19 003	Wind speed threshold	
	B 19 004	Effective radius with respect to wind speeds above threshold	
D 16 033		(SIGMET, Outlook)	= 4 Forecast
	B 08 021	Time significance	
	D 01 011	Year, month, day	
	D 01 012	Hour, minute	
	R 01 000	Delayed replication of 1 descriptor	
	D 01 027	Description of a feature in 3-D or 2-D	
D 16 034	B 08 021	Time significance	Set to missing (cancel)
		(Volcanic Ash SIGMET)	
	B 08 079	Product status	= 0 Normal issue, = 1 Correction
	D 16 030	SIGMET header	
	B 08 011	Meteorological feature	= 17 Volcano
	B 01 022	Name of feature	
	B 08 007	Dimensional significance	= 0 Point
	D 01 023	Latitude/longitude (coarse accuracy)	
	B 08 007	Dimensional significance	Set to missing (cancel) = 5 Clouds from volcanic eruptions
	B 20 090	Special clouds	
	D 16 031	SIGMET, Observed or forecast location and motion	Set to missing (cancel) Set to missing (cancel)
	R 01 000	Delayed replication of 1 descriptor	
	D 16 032	SIGMET, Forecast position	
	R 01 000	Delayed replication of 1 descriptor	
	D 16 033	SIGMET, Outlook	
	B 08 011	Meteorological feature	
	B 08 079	Product status	

(continued)

(Category 16 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 16 036	B 08 079	(Tropical cyclone SIGMET) Product status	= 0 Normal issue, = 1 Correction
	D 16 030	SIGMET header	
	B 08 011	Meteorological feature	
	B 01 027	WMO long storm name	= 22 Tropical cyclone
	D 16 031	SIGMET, Observed or forecast location and motion	
	R 01 000	Delayed replication of 1 descriptor	
	D 16 032	SIGMET, Forecast position	
	R 01 000	Delayed replication of 1 descriptor	
	D 16 033	SIGMET, Outlook	
	B 08 011	Meteorological feature	Set to missing (cancel)
	B 08 079	Product status	Set to missing (cancel)
D 16 052		(SAREP template – Part A: Information on tropical cyclone)	
	D 01 005	Originating centre/sub-centre	
	D 01 011	Year, month, day	
	D 01 012	Hour, minute	
	B 01 007	Satellite identifier	
	B 25 150	Method of tropical cyclone intensity analysis using satellite data	
	R 22 000	Delayed replication of 22 descriptors	
	B 01 027	WMO long storm name	
	B 19 150	Typhoon International Common Number (Typhoon Committee)	
	B 19 106	Identification number of tropical cyclone	
	B 08 005	Meteorological attribute significance	= 1
	B 05 002	Latitude (coarse accuracy)	
	B 06 002	Longitude (coarse accuracy)	
	B 08 005	Meteorological attribute significance	Cancel
	B 19 107	Time interval over which the movement of the tropical cyclone has been calculated	
	B 19 005	Direction of motion of feature	
	B 19 006	Speed of motion of feature	
	B 19 108	Accuracy of geographical position of the tropical cyclone	
	B 19 109	Mean diameter of the overcast cloud of the tropical cyclone	
	B 19 110	Apparent 24-hour change in intensity of the tropical cyclone	
	B 19 111	Current Intensity (CI) number of the tropical cyclone	
	B 19 112	Data Tropical (DT) number of the tropical cyclone	
	B 19 113	Cloud pattern type of the DT-number	
	B 19 114	Model Expected Tropical (MET) number of the tropical cyclone	

(continued)

(Category 16 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 16 052 (continued)	B 19 115	Trend of the past 24-hour change (+: Developed, -: Weakened)	
	B 19 116	Pattern Tropical (PT) number of the tropical cyclone	
	B 19 117	Cloud picture type of the PT-number	
	B 19 118	Final Tropical (T) number of the tropical cyclone	
	B 19 119	Type of the final T-number	
		(Definition of squall line (by centre and several points: North points and South points) and forecasted trajectory and evolution)	
D 16 061	D 01 011	Year, month, day	
	D 01 012	Hour, minute	
		<i>Position of squall line centre</i>	
	B 05 002	Latitude (coarse accuracy)	
	B 06 002	Longitude (coarse accuracy)	
	B 19 005	Direction of motion of feature	
	B 19 006	Speed of motion of feature	
		<i>Amplitude of feature from most external points to centre point – North points</i>	
	R 02 000	Delayed replication of 2 descriptors	
	B 05 002	Latitude (coarse accuracy)	
	B 06 002	Longitude (coarse accuracy)	
		<i>Amplitude of feature from most external points to centre point – South points</i>	
	R 02 000	Delayed replication of 2 descriptors	
	B 05 002	Latitude (coarse accuracy)	
	B 06 002	Longitude (coarse accuracy)	
		<i>Amplitude of feature from most external points to centre point – Evolution</i>	
	B 04 074	Short time period or displacement	Period of validity
	B 20 048	Evolution of feature	
	B 11 041	Maximum wind gust speed	Maximum burst expected
	B 13 055	Intensity of precipitation	Intensity of rain expected

## Notes:

- (1) For MOD OCNL SEV code as 12 (extreme in clear air) or 13 (extreme in cloud).
- (2) Code table values:
  - FRQ = code figure 8 (8 oktas)
  - OCNL EMBD = code figure 6 (6 oktas)
  - ISOL = code figure 2 (2 oktas) when the cloud = Cb.
- (3) Front direction (towards which the front is moving) must always be given as it is needed for plotting purposes. A front direction with a front speed of zero would indicate a slow front. A value in the code table exists to represent a quasi-stationary front.

(continued)

(Category 16 – continued)

- (4) The statistic is to determine whether the following tropopause levels are minimum, maximum or spot values (missing code value).
- (5) Decibel (dB) is a logarithmic measure of the relative power, or of the relative values of two flux densities, especially of sound intensities and radio and radar power densities. In radar meteorology, the logarithmic scale (dBZ) is used for measuring radar reflectivity factor (obtained from the American Meteorological Society *Glossary of Meteorology*).



**Category 22 – Chemical and aerosol sequences**

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 22 028	B 01 007	(METOP GOME–2) Satellite identifier	
	B 02 019	Satellite instruments	
	B 04 001	Year	
	B 04 002	Month	
	B 04 003	Day	
	B 04 004	Hour	
	B 04 005	Minute	
	B 04 006	Second	
	B 05 001	Latitude (high accuracy)	
	B 06 001	Longitude (high accuracy)	
	B 27 001	Latitude (high accuracy)	
	B 28 001	Longitude (high accuracy)	
	B 27 001	Latitude (high accuracy)	
	B 28 001	Longitude (high accuracy)	
	B 27 001	Latitude (high accuracy)	
	B 28 001	Longitude (high accuracy)	
	B 27 001	Latitude (high accuracy)	
	B 28 001	Longitude (high accuracy)	
	B 10 001	Height of land surface	
	B 14 019	Surface albedo	
	B 07 025	Solar zenith angle	
	B 10 080	Viewing zenith angle	
	B 05 023	Sun to satellite azimuth difference	
	B 20 010	Cloud cover (total)	
	B 08 003	Vertical significance (satellite observations)	
	B 07 004	Pressure	
	B 14 026	Albedo at the top of clouds	
	B 20 014	Height of top of cloud	
	B 13 093	Cloud optical thickness	
	R 05 000	Delayed replication of 5 descriptors	
	B 07 004	Pressure	
	B 07 004	Pressure	
	B 08 043	Atmospheric chemical or physical constituent type	
	B 08 044	CAS registry number	
	B 15 021	Integrated mass density	





**Category 35 – Monitoring information**

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 35 001	B 08 035	(Specify monitoring station)	
	B 35 001	Type of monitoring exercise	
	B 08 036	Time frame for monitoring	
	D 01 001	Type of centre or station performing monitoring	
D 35 002	B 08 035	WMO block and station numbers	
	B 35 001	(Specify monitoring centre)	
	B 08 036	Type of monitoring exercise	
	B 01 033	Time frame for monitoring	
D 35 003	B 08 021	Type of centre or station performing monitoring	(23) Monitoring period
	B 04 001	Identification of originating/generating centre	
	B 04 002	(Specify monitoring period)	
	B 04 003	Time significance	
	B 04 004	Year	
	B 04 073	Month	
D 35 004	B 08 021	Day	(24) Agreed time limit for report reception
	B 04 004	Hour	
	B 08 021	Short time period or displacement	
	B 04 004	(Specify report type and single station being monitored)	
	B 35 000	Time significance	
	D 01 001	Hour	
D 35 005	B 35 011	Time significance	(25) Nominal reporting time
	B 04 004	Hour	
	B 35 000	FM and regional code number	
	D 01 001	WMO block and station numbers	
	B 35 011	Number of reports actually received	
		(Specify report type and WMO block being monitored)	
D 35 006	B 08 021	Time significance	(24) Agreed time limit for report reception
	B 04 004	Hour	
	B 08 021	Time significance	
	B 04 004	Hour	
	B 35 000	FM and regional code number	
	B 01 001	WMO block number	
D 35 007	B 35 011	Number of reports actually received	(25) Nominal reporting time
		(Specify report type and WMO Region being monitored)	
		Time significance	
D 35 008	B 08 021	Time significance	(24) Agreed time limit for report reception
	B 04 004	Hour	
	B 08 021	Time significance	

(continued)

(Category 35 – continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	ELEMENT DESCRIPTION
	F X Y		
D 35 006 (continued)	B 04 004	Hour	
	B 35 000	FM and regional code number	
	B 01 003	WMO Region number/geographical area	
	B 35 011	Number of reports actually received	
D 35 007		(Report type and multiple stations from one block being monitored)	(24) Agreed time limit for report reception
	B 08 021	Time significance	
	B 04 004	Hour	(25) Nominal reporting time
	B 08 021	Time significance	
	B 04 004	Hour	Count of stations
	B 35 000	FM and regional code number	
	B 01 001	WMO block number	
	R 02 000	Delayed replication of 2 descriptors	
	B 01 002	WMO station number	
	B 35 011	Number of reports actually received	
D 35 010		(Monitoring a report type from multiple stations)	
	D 35 002	Specify monitoring centre	
	D 35 003	Specify monitoring period	
	D 35 007	Report type and multiple stations from one block being monitored	