

CREX Table D - List of common sequences

F	X	CATEGORY OF SEQUENCES
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D	02	Meteorological sequences common to surface data
D	03	Meteorological sequences common to vertical soundings data
D	04	For satellite observations (<i>not to be used in CREX for transmission</i>)
D	05	Meteorological or hydrological sequences common to hydrological observations
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D	18	Radiological report sequences
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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 frequently used. 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.
- (3) Underwater soundings are included, with some minor omissions, to illustrate the facility to describe data of slightly different contents.
- (4) Categories 48 to 63 are reserved for local use; all other categories are reserved for future development.
- (5) Entries 192 to 255 within all categories are reserved for local use.

Category 00 - CREX table entries sequences

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 00 010	D 00 003	Table D descriptor to be defined
	R 01 000	Delayed replication of 1 descriptor
	B 00 030	Descriptor defining sequence

Category 01 - Location and identification sequences

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 01 029	B 01 018	(Identification) Short station identifier
	B 02 001	Type of station
	D 01 011	Date
D 01 030		(Identification - with physical location)
	B 01 018	Short station identifier
	B 02 001	Type of station
	D 01 011	Date
	D 01 024	Latitude and longitude, height
D 01 070		(Ozone instrumentation - Brewer spectrophotometer)
	B 02 143	Ozone instrument type
	B 02 142	Ozone instrument serial number or identifier
	B 02 144	Light source type for Brewer
D 01 074		(Ozone instrumentation - Dobson spectrophotometer)
	B 02 143	Ozone instrument type
	B 02 142	Ozone instrument serial number/identification
	B 02 145	Wavelength setting for Dobson instrument
	B 02 146	Source conditions for Dobson instrument
D 01 075		(Sounding identification)
	D 01 001	WMO block number, WMO station number
	B 01 015	Station or site name
	D 01 024	Latitude, longitude, height of station
	B 08 021	18 = launch time
	D 01 011	Year, month, day
	D 01 012	Hour, minute
D 01 076		(Ozone sounding instrumentation)
	B 02 011	Radiosonde type
	B 02 143	Ozone instrument type
	B 02 142	Ozone instrument serial number or identifier

Category 02 - Meteorological sequences common to surface data

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 02 013	D 02 006	Pressure and pressure change
	D 02 003	Wind, temperature, humidity, visibility, weather
	R 01 000	Delayed replication of 1 descriptor
	D 02 005	Cloud layer information

Category 05 - Meteorological or hydrological sequences common to hydrological observations

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 05 001	B 11 001	(SADC-HYCOS single measurement) Wind direction
	B 11 002	Wind speed
	B 13 060	Total accumulated precipitation
	B 13 071	Upstream water level
D 05 002		(SADC-HYCOS environmental measurement)
	D 01 012	Hour, minute of environmental measurement
	B 12 001	Air temperature
	B 13 003	Relative humidity
	B 14 051	Direct solar radiation integrated over last hour
	B 13 060	Total accumulated precipitation
	B 13 072	Downstream water level
	B 13 080	pH
	B 13 081	Conductivity
	B 13 082	Water temperature
	B 13 083	Dissolved oxygen
	B 13 084	Turbidity
D 05 003		(SADC-HYCOS measurement array definition)
	D 01 012	Hour, minute of first single measurement minus increment
	B 04 065	Short time increment - time interval between measurements
	R 01 000	Delayed replication n times of next descriptor
	D 05 001	Single measurement
D 05 004		(SADC-HYCOS report)
	D 01 030	Identification
	D 05 002	Environmental measurement
	D 05 003	Measurement array
D 05 006		(MEDHYCOS measurement)
	B 13 072	Downstream water level
	B 13 082	Water temperature
	B 13 019	Precipitation last hour
	C 07 005	Next datum in kelvin
	C 01 004	Next datum over four characters
	B 12 001	Air temperature
	B 13 073	Maximum water height observed
	B 13 060	Total accumulated precipitation
D 05 007		(MEDHYCOS report)
	D 01 029	Identification
	D 01 012	Hour, minute (time of first measurement)
	B 04 065	Short time increment - time interval between measurements
	R 01 000	Delayed replication n times of next descriptor
	D 05 006	Single measurement

(continued)

(Category 05 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 05 008	D 05 006	(AOCHYCOS-Chad measurement)
	C 07 005	Same as MEDHYCOS type measurement
	C 01 004	Next datum in kelvin
	B 12 030	Next datum over four characters
D 05 009		Soil temperature at -50 cm
		(AOCHYCOS-Chad report)
	D 01 029	Identification
	D 01 012	Hour, minute (time of first measurement)
	B 04 065	Short time increment - time interval between measurements
D 05 010	R 01 000	Delayed replication n times of next descriptor
	D 05 008	Single measurement
		(MEDHYCOS-Measurement type 2)
D 05 011	D 05 008	Same as AOCHYCOS type measurement
	B 02 091	Sensor entry 4/20 mA (no. 1)
	B 02 091	Sensor entry 4/20 mA (no. 2)
D 05 016		(MEDHYCOS report type 2)
	D 01 029	Identification
	D 01 012	Hour, minute (time of first measurement)
	B 04 065	Short time increment - time interval between measurements
	R 01 000	Delayed replication n times of next descriptor
D 05 017	D 05 010	Single measurement
		(Meteorological parameters associated with hydrological data)
	B 14 021	Global radiation over period
	B 07 004	Atmospheric pressure
	B 13 003	Relative humidity
	B 11 002	Wind speed
	B 11 001	Wind direction
	B 11 041	Maximum wind speed (gusts)
D 05 018	B 11 043	Maximum wind gust direction
		(Water quality measurement)
	B 13 080	pH
	B 13 081	Conductivity
	B 13 083	Dissolved oxygen
D 05 017	B 13 085	Oxidation reduction potential (ORP)
	B 13 084	Turbidity
		(MEDHYCOS report with meteorology and water quality data)
	D 01 029	Identification
	D 01 012	Hour, minute (time) of first measurement
	B 04 065	Hour increment
	R 03 000	Number of replications of next 3 descriptors
D 05 018	D 05 008	Same as AOCHYCOS type measurement
	D 05 016	Meteorological parameters associated to hydrological data
	D 05 017	Water quality measurement

Category 06 - Meteorological or oceanographic sequences common to oceanographic observations

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 06 001	B 02 032	Indicator for digitization
	R 02 000	Delayed replication of 2 descriptors
	B 07 062	Depth below sea surface
	B 22 042	Subsurface sea temperature
D 06 004	B 02 032	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 surface
	B 22 043	Subsurface sea temperature
	B 22 062	Salinity
D 06 005	B 02 031	Method of current measurement
	R 03 000	Delayed replication of 3 descriptors
	B 07 062	Depth below sea surface
	B 22 004	Direction of current
	B 22 031	Speed of current
D 06 019		(Tide report identification, water level checks, time increments)
	B 01 075	Tide station alphanumeric identification
	D 01 011	Year, month, day
	D 01 012	Hour, minute
	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	Change data width to 2 characters
	B 04 015	Time increment
D 06 020	B 04 065	Short time increment
		(Tide report identification, water level checks, time period or displacement, time increment) (see Note 1)
	B 01 075	Tide station alphanumeric identification
	D 01 011	Year, month, day
	D 01 012	Hour, minute
	B 22 042	Sea/water temperature
	B 22 120	Tide station automated water level check
	B 22 121	Tide station manual water level check
	B 04 075	Short time period or displacement
	B 04 065	Short time increment

(continued)

(Category 06 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 06 021	B 01 075	(Meteorological parameters in tide station)
	D 01 011	Tide station alphanumeric identification
	D 01 012	Year, month, day
	B 22 122	Hour, minute
	B 22 123	Tide station automated meteorological data check
	B 12 001	Tide station manual meteorological data check
	D 03 002	Air temperature
D 06 022		Pressure, wind direction, wind speed
		(Tidal elevation)
	B 01 075	Tide station identification
	D 01 011	Year, month, day
	D 01 012	Hour, minute
D 06 024	B 22 038	Tidal elevation with respect to local chart datum
	B 22 039	Meteorological residual tidal elevation (surge or offset)
		(Tide elevation series) (see Note 2)
	D 06 020	Tide report identification, water level checks, time period or displacement, time increment
D 06 025	R 02 006	Replicate 2 descriptors 6 times
	B 22 038	Tidal elevation with respect to local chart datum
	B 22 039	Meteorological residual tidal elevation (surge or offset)
		(Tide elevation series)
D 06 025	D 06 019	Tide report identification, water level checks, time increments
	R 02 006	Replicate 2 descriptors 6 times
	B 22 038	Tidal elevation with respect to local chart datum
	B 22 039	Meteorological residual tidal elevation (surge or offset)

Notes:

- (1) This sequence is deprecated because of incorrect usage of descriptor B 04 075; sequence D 06 019 should be used instead.
- (2) This sequence is deprecated because of incorrect usage of descriptor B 04 075 in sequence D 06 019; sequence D 06 025 should be used instead.

Category 07 - Surface report sequences (land)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME	
	F X Y		
D 07 003	D 07 001	(Low altitude station)	
	R 01 000	Location (high accuracy) and basic report	
	D 02 005	Delayed replication of 1 descriptor	
D 07 004	D 07 002	Cloud layer information	
	R 01 000	(Low altitude station)	
	D 02 005	Location (coarse accuracy) and basic report	
D 07 012	R 03 000	Delayed replication of 1 descriptor	
	B 08 023	Delayed replication of 3 descriptors (up to 3)	
	B 05 021	First-order statistics	
	B 20 001	Direction of visibility observed	D _v
D 07 013	R 06 000	Horizontal visibility	VVVV
	B 01 064	(D _R D _R V _R V _R V _R V _R)	
	B 08 014	Delayed replication of 6 descriptors (up to 4)	
	B 20 061	Runway designator	D _R D _R
	B 08 014	Qualification for runway visual range	
	B 20 061	Runway visual range	V _R V _R V _R V _R
	B 20 018	Qualification for runway visual range	
D 07 014	R 01 000	Runway visual range	V _R V _R V _R V _R
	B 20 019	Tendency of runway visual range	i
		(w'w')	
D 07 015	R 01 000	Delayed replication of 1 descriptor (up to 3)	
	D 02 005	Significant present weather	w'w'
	B 20 002	(Clouds group(s))	
D 07 016	R 01 000	Delayed replication of 1 descriptor	
	D 02 005	(N _s N _s N _s , CC, h _s h _s h _s)	
	B 20 002	Vertical visibility	VVh _s h _s h _s
D 07 017	R 01 000	(REw'w')	
	B 20 020	Delayed replication of 1 descriptor (up to 3)	
		Significant recent weather phenomena	REw'w'
D 07 018	R 01 000	(Wind shear on runway(s))	
	B 11 070	Delayed replication of 1 descriptor	
		Runway designator of the runway affected by wind shear (including ALL)	WS RWYD _R D _R
D 07 019	B 08 016	(Trend-type landing forecast)	
	R 02 000	Change qualifier of a trend-type forecast or an aerodrome forecast	TTTTT
	B 08 017	Delayed replication of 2 descriptors (up to 2)	
	D 01 012	Qualifier of the time when the forecast change is expected (FM, TL, AT)	TT
		GG, gg	

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(Category 07 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 07 018 (continued)	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 speed (gusts) f _m f _m
	B 20 009	General weather indicator
	R 01 000	Delayed replication of 1 descriptor (up to 1)
	B 20 001	Horizontal visibility VVVV
	D 07 014	w'w'
D 07 030		(Ozone data - single observation)
	B 15 001	Value of ozone measurement
	B 15 002	Value of the air-mass
D 07 031		(Ozone data - averaged observations)
	B 08 022	Number of measurements
	B 08 023	First-order statistics = 4: mean value
	B 15 001	Value (average) of ozone measurement
	B 08 023	First-order statistics = 9: best estimate of standard deviation
	B 15 001	Best estimate of standard deviation of the ozone measurement
	B 08 023	First-order statistics = 11: harmonic mean
D 07 041	B 15 002	Value (harmonic mean) of the air-mass
		(Total ozone measurement from a Brewer ground-based spectrophotometer obtained from a single observation)
	D 01 001	Identification
	B 01 015	Station or site name
	D 01 024	Latitude, longitude, height of station
	D 01 011	Year, month, day (of ozone measurement)
	D 01 012	Hour, minute (of ozone measurement)
	D 01 070	Ozone instrumentation
D 07 042	D 07 030	Data (single observation)
		(Total ozone measurement from a Brewer ground-based spectrophotometer obtained from averaged observations)
	D 01 001	Identification
	B 01 015	Station or site name
	D 01 024	Latitude, longitude, height of station
	D 01 011	Year, month, day (of ozone measurement)
	D 01 012	Hour, minute (of ozone measurement)
	B 08 021	Time significance = 8: ensemble mean
	B 04 025	Time period (minutes) for the computation of the average
	D 01 070	Ozone instrumentation
	D 07 031	Data (averaged observation)

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(Category 07 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 07 043	D 01 001	(Total ozone measurement from a Dobson ground-based spectrophotometer obtained from a single observation)
	B 01 015	Identification
	D 01 024	Station or site name
	D 01 011	Latitude, longitude, height of station
	D 01 012	Year, month, day (of ozone measurement)
	D 01 074	Hour, minute (of ozone measurement)
	D 07 030	Ozone instrumentation
		Data (single observation)
D 07 044		(Total ozone measurement from a Dobson ground-based spectrophotometer obtained from averaged observations)
	D 01 001	Identification
	B 01 015	Station or site name
	D 01 024	Latitude, longitude, height of station
	D 01 011	Year, month, day (of ozone measurement)
	D 01 012	Hour, minute (of ozone measurement)
	B 08 021	Time significance = 8: ensemble mean
	B 04 025	Time period (minutes) for the computation of the average
	D 01 074	Ozone instrumentation
	D 07 031	Data (averaged observation)
D 07 060		(Soil temperature below land surface)
	B 07 061	Depth below land surface
	B 12 030	Soil temperature
D 07 061		(Soil temperature data at number of depths not exceeding five - high accuracy position)
	D 01 031	Identification, type, date/time, position (high accuracy), height
	R 01 005	Replicate 1 descriptor 5 times
	D 07 060	Depth below land surface, soil temperature
D 07 062		(Soil temperature data at number of depths not exceeding five - coarse accuracy position)
	D 01 032	Identification, type, date/time, position (coarse accuracy), height
	R 01 005	Replicate 1 descriptor 5 times
	D 07 060	Depth below land surface, soil temperature
D 07 063		(Soil temperature with scale of 2 below land surface)
	B 07 061	Depth below land surface
	B 12 130	Soil temperature (with scale of 2)

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(Category 07 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 07 087		("Instantaneous" parameters of sequence D 07 089) <i>Surface station identification, time, horizontal and vertical coordinates</i>
	D 01 001	WMO block number, WMO station number Iiii
	B 02 001	Type of station i _x
	D 01 011	Year, month, day YY
	D 01 012	Hour, minute GG, gg
	D 01 023	Latitude, longitude (course accuracy)
	B 07 030	Height of station ground above msl
	B 07 031	Height of barometer above msl
		<i>Pressure data</i>
	D 02 001	Pressure P ₀ P ₀ P ₀ P ₀
		Pressure reduced to mean sea level PPPP
		3-hour pressure change ppp
		Characteristic of pressure tendency a
	B 10 062	24-hour pressure change P ₂₄ P ₂₄ P ₂₄
	B 07 004	Pressure (standard level) a ₃
		= 925, 850, 700, .. hPa
		= missing for lowland stations
	B 10 009	Geopotential height of the standard level hhh
		= missing for lowland stations
		<i>Temperature and humidity</i>
	B 07 032	Height of sensor above local ground (for temperature measurement)
	B 12 101	Temperature/air temperature (sc. 2) s _n TTT
	B 12 103	Dew-point temperature (sc. 2) s _n T _d T _d T _d
	B 13 003	Relative humidity
	B 07 032	Height of sensor above local ground (set to missing to cancel the previous value)
		<i>Visibility</i>
	B 20 001	Horizontal visibility VV
		<i>Cloud data</i>
	D 02 004	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.

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(Category 07 - continued)

SEQUENCE	TABLE REFERENCES		ELEMENT NAME
	F	X Y	
D 07 087 (continued)			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.
D 07 088	R 01 000		Delayed replication of the next 1 descriptor
	D 02 005		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_sh_s
			("Period" parameters of sequence D 07 089)
			<i>Present and past weather</i>
	B 20 003		Present weather ww
	B 04 024		Time period
			At 00, 06, 12, 18 UTC = -6.
			At 03, 09, 15, 21 UTC = -3.
	B 20 004		Past weather (1) W₁
	B 20 005		Past weather (2) W₂
			<i>Evaporation</i>
	B 04 024		Time period in hours = -24
	B 02 004		Type of instrument for evaporation or crop type for evapotranspiration i_E
	B 13 033		Evaporation /evapotranspiration EEE

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(Category 07 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 07 088 (continued)	R 02 002	<i>Sunshine</i> Replicate next 2 descriptors 2 times
	B 04 024	Time period in hours in the first replication = -24, in the second replication = -1.
	B 14 031	Total sunshine in minutes in the first replication SSS in the second replication SS
	R 02 002	<i>Precipitation</i> Replicate next 2 descriptors 2 times
	B 04 024	Time period in hours t_R
	B 13 011	Total precipitation RRR no precipitation = 0 trace = -0.1
	B 07 032	<i>Extreme temperature</i> Height of sensor above local ground (for temperature measurement)
	B 04 024	Time period in hours = -12
	B 12 111	Maximum temperature at height and over $s_n T_x T_x T_x$ period specified
	B 04 024	Time period in hours = -12
	B 12 112	Minimum temperature at height and over $s_n T_n T_n T_n$ period specified
	B 07 032	<i>Wind data</i> Height of sensor above local ground (for wind measurement)
	B 02 002	Type for instrumentation for wind measurement i_w
	B 08 021	Time significance = 2 (time averaged)
	B 04 025	Time period = -10 (or number of minutes after a significant change of wind, if any)
	B 11 001	Wind direction dd If dd = 00 (calm) or dd = 99 (variable), B 11 001 = 0.
	B 11 002	Wind speed ff
	B 08 021	Time significance (set to missing to cancel the previous value)
		(Sequence for representation of synoptic reports from a fixed land station suitable for SYNOP data manually encoded in CREX)
D 07 089	D 07 087	"Instantaneous" parameters of sequence D 07 089
	D 07 088	"Period" parameters of sequence D 07 089

Category 08 - Surface report sequences (sea)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 08 010		(TRACKOB template)
	B 01 011	Ship or mobile land station identifier
	R 13 000	Delayed replication of 13 descriptors
	D 01 011	Date
	D 01 012	Time
	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
	F X Y	
D 09 001	D 01 037 R 01 000 D 03 011	(Vertical wind profile) Identification, etc. (land station, high accuracy position) Delayed replication of 1 descriptor Winds at heights
D 09 002	D 01 038 R 01 000 D 03 011	(Vertical wind profile) Identification, etc. (land station, coarse accuracy position) Delayed replication of 1 descriptor Winds at heights
D 09 003	D 01 037 R 01 000 D 03 012	(Vertical wind profile) Identification, etc. (land station, high accuracy position) Delayed replication of 1 descriptor Winds at pressure levels
D 09 004	D 01 038 R 01 000 D 03 012	(Vertical wind profile) Identification, etc. (land station, coarse accuracy position) Delayed replication of 1 descriptor Winds at pressure levels
D 09 005	D 01 037 D 02 004 R 01 000 D 03 013	(Vertical sounding with relative humidity) Identification, etc. (land station, high accuracy position) Significant cloud information Delayed replication of 1 descriptor Pressure, geopotential, temperature and wind data
D 09 006	D 01 038 D 02 004 R 01 000 D 03 013	(Vertical sounding with relative humidity) Identification, etc. (land station, coarse accuracy position) Significant cloud information Delayed replication of 1 descriptor Pressure, geopotential, temperature and wind data
D 09 007	D 01 037 D 02 004 R 01 000 D 03 014	(Vertical sounding with dew-point data) Identification, etc. (land station, high accuracy position) Significant cloud information Delayed replication of 1 descriptor Pressure, geopotential, temperature and wind data
D 09 008	D 01 038 D 02 004 R 01 000 D 03 014	(Vertical sounding with dew-point data) Identification, etc. (land station, coarse accuracy position) Significant cloud information Delayed replication of 1 descriptor Pressure, geopotential, temperature and wind data
D 09 011	D 01 039 R 01 000 D 03 011	(Vertical wind profile) Ship's identification, etc. Delayed replication of 1 descriptor Winds at heights

(continued)

(Category 09 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 09 012	D 01 039 R 01 000 D 03 012	(Vertical wind profile) Ship's identification, etc. Delayed replication of 1 descriptor Winds at pressure levels
D 09 013	D 01 039 D 02 004 R 01 000 D 03 013	(Vertical sounding with relative humidity) Ship's identification, etc. Significant cloud information Delayed replication of 1 descriptor Pressure, geopotential, temperature and wind data
D 09 014	D 01 039 D 02 004 R 01 000 D 03 014	(Vertical sounding with dew-point data) Ship's identification, etc. Significant cloud information Delayed replication of 1 descriptor Pressure, geopotential, temperature and wind data
D 09 015	D 01 040 R 01 000 D 03 011	(Vertical wind profile) Ship's identification, etc. Delayed replication of 1 descriptor Winds at heights
D 09 016	D 01 040 R 01 000 D 03 012	(Vertical wind profile) Ship's identification, etc. Delayed replication of 1 descriptor Winds at pressure levels
D 09 017	D 01 040 D 02 004 R 01 000 D 03 013	(Vertical sounding with relative humidity) Ship's identification, etc. Significant cloud information Delayed replication of 1 descriptor Pressure, geopotential, temperature and wind data
D 09 018	D 01 040 D 02 004 R 01 000 D 03 014	(Vertical sounding with dew-point data) Ship's identification, etc. Significant cloud information Delayed replication of 1 descriptor Pressure, geopotential, temperature and wind data
D 09 019	D 01 031 B 02 003 R 01 000 D 03 011	(Wind profiler - wind data sounding) Identification, etc. Type of measuring equipment used Delayed replication of 1 descriptor Winds at heights
D 09 020	D 01 031 B 02 003 R 04 000 B 07 003 B 11 003 B 11 004 B 11 005	(Wind profiler - Cartesian coordinates) Identification, etc. Type of measuring equipment used Delayed replication of 4 descriptors Geopotential u-component v-component w-component

(continued)

(Category 09 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 09 030	B 15 004	(Ozone sonde flight data) (see Note 1)
	B 15 005	Ozone sounding correction factor
	R 04 000	Ozone p
	B 04 015	Delayed replication
	B 08 006	Time increment since launch time, if needed; in minutes
	B 07 004	Ozone vertical sounding significance
	B 15 003	Pressure
D 09 031	B 15 004	Measured ozone partial pressure
	B 15 005	(Ozone sonde flight data)
	R 04 000	Ozone sounding correction factor
	B 04 025	Ozone p
	B 08 006	Delayed replication
	B 07 004	Time displacement (since launch time) in minutes
	B 15 003	Ozone vertical sounding significance
D 09 040	D 01 075	Pressure
	D 01 076	Measured ozone partial pressure
	D 09 030	(Ozone sounding not coupled to a ground-based spectrophotometer) (see Note 2)
D 09 041	D 07 041	Identification
	D 01 075	Instrumentation
	D 01 076	Ozone flight data
	D 09 030	(Ozone sounding coupled to measurements from a Brewer ground-based spectrophotometer; the total ozone obtained from the Brewer is a single value) (see Note 2)
D 09 042	D 07 042	Description of the ground-based part
	D 01 075	Identification of the ozone sounding part
	D 01 076	Instrumentation of sounding
	D 09 030	Ozone flight data
D 09 043	D 07 043	(Ozone sounding coupled to measurements from a Brewer ground-based spectrophotometer; the total ozone obtained from the Brewer is an averaged value) (see Note 2)
	D 01 075	Description of the ground-based part
	D 01 076	Identification of the ozone sounding part
	D 09 030	Instrumentation of sounding
		Ozone flight data

(continued)

(Category 09 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 09 044	D 07 044	(Ozone sounding coupled to measurements from a Dobson ground-based spectrophotometer; the total ozone obtained from the Dobson is an averaged value) (see Note 2)
	D 01 075	Description of the ground-based part
	D 01 076	Identification of the ozone sounding part
	D 09 030	Instrumentation of sounding Ozone flight data
D 09 045	D 01 075	(Ozone sounding not coupled to a ground-based spectrophotometer)
	D 01 076	Identification
	D 09 031	Instrumentation Ozone flight data
D 09 046	D 07 041	(Ozone sounding coupled to measurements from a Brewer ground-based spectrophotometer; the total ozone obtained from the Brewer is a single value)
	D 01 075	Description of the ground-based part
	D 01 076	Identification of the ozone sounding part
	D 09 031	Instrumentation of sounding Ozone flight data
D 09 047	D 07 042	(Ozone sounding coupled to measurements from a Brewer ground-based spectrophotometer; the total ozone obtained from the Brewer is an averaged value)
	D 01 075	Description of the ground-based part
	D 01 076	Identification of the ozone sounding part
	D 09 031	Instrumentation of sounding Ozone flight data
D 09 048	D 07 043	(Ozone sounding coupled to measurements from a Dobson ground-based spectrophotometer; the total ozone obtained from the Dobson is a single value)
	D 01 075	Description of the ground-based part
	D 01 076	Identification of the ozone sounding part
	D 09 031	Instrumentation of sounding Ozone flight data
D 09 049	D 07 044	(Ozone sounding coupled to measurements from a Dobson ground-based spectrophotometer; the total ozone obtained from the Dobson is an averaged value)
	D 01 075	Description of the ground-based part
	D 01 076	Identification of the ozone sounding part
	D 09 031	Instrumentation of sounding Ozone flight data

(continued)

(Category 09 - continued)

Notes:

- (1) Sequence D 09 030 is deprecated because of incorrect usage of descriptor B 04 015; sequence D 09 031 should be used instead.
- (2) This sequence is deprecated because it includes deprecated sequence D 09 030; sequence D 09 045, D 09 046, D 09 047, D 09 048 and D 09 049 should be used instead of respectively D 09 040, D 09 041, D 09 042, D 09 043 and D 09 044.

Category 11 - Single-level report sequences (conventional data)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 11 004	R 01 000	(ACARS supplementary reported variables)
	B 11 034	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 11 005		(Standard AMDAR reports)
	B 01 008	Aircraft identification
	B 01 023	Sequence number
	D 01 021	Latitude and longitude
	D 01 011	Year, month, day
	D 01 013	Hour, minute, second
	B 07 010	Flight level
	B 08 009	Detailed phase of flight
	B 11 001	Wind direction
	B 11 002	Wind speed
	B 11 031	Degree of turbulence
	B 11 036	Derived equivalent vertical gust speed
	B 12 101	Temperature/air temperature
	B 33 025	ACARS interpolated values indicator
D 11 006		(AMDAR data or aircraft data for one level without latitude/longitude)
	B 07 010	Flight level
	B 11 001	Wind direction
	B 11 002	Wind speed
	B 02 064	Aircraft roll angle quality
	B 12 101	Temperature/air temperature
D 11 007	B 12 103	Dew-point temperature
		(Aircraft data for one level with latitude/longitude indicated)
	B 07 010	Flight level
	D 01 021	Latitude, longitude
	B 11 001	Wind direction
	B 11 002	Wind speed
	B 02 064	Aircraft roll angle quality
	B 12 101	Temperature/air temperature
	B 12 103	Dew-point temperature

(continued)

(Category 11 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 11 008	B 01 008	(Aircraft ascent/descent profile without latitude/longitude indicated at each level) Aircraft identification
	D 01 011	Year, month, day
	D 01 013	Hour, minute, second
	D 01 021	Latitude, longitude
	B 08 004	Phase of flight
	R 01 000	Delayed replication of 1 descriptor
	D 11 006	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 identification
	D 01 011	Year, month, day
	D 01 013	Hour, minute, second
	D 01 021	Latitude, longitude
	B 08 004	Phase of flight
	R 01 000	Delayed replication of 1 descriptor
	D 11 007	Aircraft data for one level with latitude/longitude indicated

Category 16 - Synoptic feature sequences

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 16 003	R 09 000	(Jet stream) Delayed replication of 9 descriptors
	B 08 011	Meteorological feature (jet stream value)
	B 08 007	Dimensional significance (value for line)
	R 04 000	Delayed replication of 4 descriptors
	B 05 002	Latitude (coarse)
	B 06 002	Longitude (coarse)
	B 10 002	Flight level (altitude)
	B 11 002	Wind speed
	B 08 007	Dimensional significance (cancel)
	B 08 011	Meteorological feature (cancel/end of object)
D 16 004	R 10 000	(Turbulence) Delayed replication of 10 descriptors
	B 08 011	Meteorological feature (value for turbulence)
	B 08 007	Dimensional significance (value for area)
	B 07 002	Flight level (altitude) (base of layer)
	B 07 002	Flight level (altitude) (top of layer)
	R 02 000	Delayed replication of 2 descriptors
	B 05 002	Latitude (coarse)
	B 06 002	Longitude (coarse)
	B 11 031	Degree of turbulence
	B 08 007	Dimensional significance (cancel)
	B 08 011	Meteorological feature (cancel/end of object)
D 16 005	R 08 000	(Storm) Delayed replication of 8 descriptors
	B 08 005	Meteorological attribute significance (storm centre)
	B 08 007	Dimensional significance (value for point)
	B 05 002	Latitude (coarse)
	B 06 002	Longitude (coarse)
	B 01 026	WMO storm name (use "UNKNOWN" for a sandstorm)
	B 19 001	Synoptic features (value for type of storm)
	B 08 007	Dimensional significance (cancel)
	B 08 005	Meteorological attribute significance (cancel/end of object)
D 16 006	R 11 000	(Cloud) Delayed replication of 11 descriptors
	B 08 011	Meteorological feature (value for cloud)
	B 08 007	Dimensional significance (value for area)
	B 07 002	Flight level (altitude) (base of layer)
	B 07 002	Flight level (altitude) (top of layer)
	R 02 000	Delayed replication of 2 descriptors
	B 05 002	Latitude (coarse)
	B 06 002	Longitude (coarse)
	B 20 011	Cloud amount

(continued)

(Category 16 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 16 006 (continued)	B 20 012	Cloud type
	B 08 007	Dimensional significance (cancel)
	B 08 011	Meteorological feature (cancel/end of object)
D 16 007		(Front)
	R 09 000	Delayed replication of 9 descriptors
	B 08 011	Meteorological feature (value for type of front)
	B 08 007	Dimensional significance (value for line)
	R 04 000	Delayed replication of 4 descriptors
	B 05 002	Latitude (coarse)
	B 06 002	Longitude (coarse)
	B 19 005	Direction of feature
	B 19 006	Speed of feature
	B 08 007	Dimensional significance (cancel)
	B 08 011	Meteorological feature (cancel/end of object)
D 16 008		(Tropopause)
	R 10 000	Delayed replication of 10 descriptors
	B 08 001	Vertical significance (bit 3 set for tropopause)
	B 08 007	Dimensional significance (value for point)
	B 08 023	Statistic (type of tropopause value)
	R 03 000	Delayed replication of 3 descriptors
	B 05 002	Latitude (coarse)
	B 06 002	Longitude (coarse)
	B 10 002	Height/altitude
	B 08 023	Statistic (cancel)
	B 08 007	Dimensional significance (cancel)
	B 08 001	Vertical significance (cancel/end of object)
D 16 009		(Airframe icing area)
	R 10 000	Delayed replication of 10 descriptors
	B 08 011	Meteorological feature (value for airframe icing)
	B 08 007	Dimensional significance (value for area)
	B 07 002	Flight level (altitude) (base of layer)
	B 07 002	Flight level (altitude) (top of layer)
	R 02 000	Delayed replication of 2 descriptors
	B 05 002	Latitude (coarse)
	B 06 002	Longitude (coarse)
	B 20 041	Airframe icing (type of airframe icing)
	B 08 007	Dimensional significance (cancel)
	B 08 011	Meteorological feature (cancel/end of object)
D 16 010		(Name of feature)
	R 07 000	Delayed replication of 7 descriptors
	B 08 011	Meteorological feature
	B 08 007	Dimensional significance (value for point)
	B 01 022	Name of feature
	B 05 002	Latitude (coarse)

(continued)

(Category 16 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 16 010 (continued)	B 06 002	Longitude (coarse)
	B 08 007	Dimensional significance (cancel)
	B 08 011	Meteorological feature (cancel/end of object)
D 16 011		(Volcano erupting)
	R 16 000	Delayed replication of 16 descriptors
	B 08 011	Meteorological feature (value for special clouds)
	B 01 022	Name of feature (volcano name)
	B 08 007	Dimensional significance (value for point)
	R 02 000	Delayed replication of 2 descriptors
	B 05 002	Latitude (coarse)
	B 06 002	Longitude (coarse)
	B 08 021	Time significance (eruption starting time)
	B 04 001	Year
	B 04 002	Month
	B 04 003	Day
	B 04 004	Hour
	B 04 005	Minute
	B 20 090	Special clouds (clouds from volcanic eruptions)
	B 08 021	Time significance (cancel)
	B 08 007	Dimensional significance (cancel)
	B 08 011	Meteorological feature (cancel/end of object)
D 16 020		(Tropical storm identification)
	B 01 033	Identification of originating/generating centre
	B 01 025	Storm identifier
	B 01 027	WMO storm name
	D 01 011	Year, month, day
D 16 021	D 01 012	Hour, minute
		(Analysis data)
	D 01 023	Latitude (coarse accuracy), longitude (coarse accuracy)
	B 02 041	Method for estimating reports related to synoptic features
	B 19 001	Type of synoptic feature
	B 19 007	Effective radius of feature
	B 19 005	Direction of motion of feature
	B 19 006	Speed of motion of feature
	B 19 008	Vertical extent of feature
	B 08 005	Surface synoptic feature significance (value=1 for storm centre)
	B 10 004	Pressure (of storm centre by virtue of preceding significance qualifier)
	B 08 005	Value = 2 for outer limit or edge of feature
	B 10 004	Pressure (at outer limit)
	B 19 007	Radius (of outer limit)
	B 08 005	Value = 3 for location of maximum wind
	B 08 021	Time significance (time averaged)
	B 04 075	Time period (minutes)

(continued)

(Category 16 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 16 021 (continued)	B 11 040	Maximum wind speed (mean wind)
	B 19 007	Radius of feature (maximum wind)
	R 05 004	(4 times replication of following 5 descriptors)
	B 05 021	Starting bearing or azimuth
	B 05 021	Ending bearing or azimuth
	R 02 002	(2 times replication of following 2 descriptors)
	B 19 003	Wind speed threshold
	B 19 004	Effective radius with respect to wind speed above threshold
D 16 022		(Forecast data)
	B 01 032	Generating application (NWP model name, etc. code table defined by originating/generating centre)
	B 02 041	Method for estimating reports related to synoptic features
	B 19 001	Type of synoptic feature
	B 19 010	Method for tracing of the centre of synoptic feature
	R 18 000	(NN times replication of following 18 descriptors - delayed replication)
	B 08 021	Time significance (forecast)
	B 04 014	Time increment (hour)
	B 08 005	Surface synoptic feature significance
	D 01 023	Latitude (coarse accuracy), longitude (coarse accuracy)
	B 19 005	Direction of motion of feature
	B 19 006	Speed of motion of feature
	B 10 004	Pressure
	B 11 041	Maximum wind speed (gusts: e.g. used in US)
	B 08 021	Time significance (forecast time averaged)
	B 04 075	Time period (minutes)
	B 11 040	Maximum wind speed (mean wind)
	B 19 008	Vertical extent of feature
	R 05 004	(4 times replication of following 5 descriptors)
	B 05 021	Starting bearing or azimuth
	B 05 021	Ending bearing or azimuth
	R 02 002	(2 times replication of following 2 descriptors)
	B 19 003	Wind speed threshold
	B 19 004	Effective radius with respect to wind speed above threshold
D 16 026		(Tropical storm analysis information)
	D 16 020	Tropical storm identification
	D 16 021	Analysis data
D 16 027		(Tropical storm forecast information)
	D 16 020	Tropical storm identification
	D 16 022	Forecast data
D 16 052		(SAREP template - Part A: Information on tropical cyclone)
	D 01 005	Originating centre/sub-centre
	D 01 011	Date
	D 01 012	Time

(continued)

(Category 16 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 16 052 (continued)	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	Cancel Meteorological attribute significance
	B 19 107	Time interval of the tropical cyclone analysis
	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
	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
D 16 060		(Definition of squall line (by 3 points: Centre, North, South) and forecasted trajectory and evolution)
	D 01 011	Date
	D 01 012	Time
		<i>Position of squall line centre</i>
	B 05 002	Latitude
	B 06 002	Longitude
	B 19 005	Direction of moving feature
	B 19 006	Speed of moving feature
		<i>Amplitude of feature from most external points to centre point</i>
		<i>North point</i>
	B 05 002	Latitude
	B 06 002	Longitude
		<i>South point</i>
	B 05 002	Latitude
	B 06 002	Longitude
		<i>Evolution</i>
	B 04 074	Period of validity
	B 20 048	Evolution of feature
	B 11 041	Maximum burst expected
	B 13 055	Intensity of rain expected

(continued)

(Category 16 - continued)

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	F X Y	
D 16 061		(Definition of squall line (by centre and several points: North points and South points) and forecasted trajectory and evolution)
	D 01 011	Date
	D 01 012	Time
		<i>Position of squall line centre</i>
	B 05 002	Latitude
	B 06 002	Longitude
	B 19 005	Direction of moving feature
	B 19 006	Speed of moving feature
		<i>Amplitude of feature from most external points to centre point</i>
		<i>North points</i>
	R 02 000	Define delayed replication of next 2 descriptors
	B 05 002	Latitude
	B 06 002	Longitude
		<i>South points</i>
	R 02 000	Define delayed replication of next 2 descriptors
	B 05 002	Latitude
	B 06 002	Longitude
		<i>Evolution</i>
	B 04 074	Period of validity
	B 20 048	Evolution of feature
	B 11 041	Maximum burst expected
	B 13 055	Intensity of rain expected

Category 35 - Monitoring information

SEQUENCE	TABLE REFERENCES	ELEMENT NAME
	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		WMO block and station number
		(Specify monitoring centre)
	B 08 035	Type of monitoring exercise
	B 35 001	Time frame for monitoring
D 35 003	B 08 036	Type of centre or station performing monitoring
	B 01 033	Identification of originating/generating centre
		(Specify monitoring period)
	B 08 021	(23) Monitoring period
D 35 004	B 04 001	Year
	B 04 002	Month
	B 04 003	Day
	B 04 004	Hour
D 35 005	B 04 073	Short period or displacement
		(Specify report type and single station being monitored)
	B 08 021	(24) Agreed time limit for report reception
	B 04 004	Hour
D 35 006	B 08 021	(25) Nominal reporting time
	B 04 004	Hour
	B 35 000	FM and Regional code number
	D 01 001	(WMO station identifier)
D 35 007	B 35 011	Number of reports actually received
		(Specify report type and WMO block being monitored)
	B 08 021	(24) Agreed time limit for report reception
	B 04 004	Hour
D 35 008	B 08 021	(25) Nominal reporting time
	B 04 004	Hour
	B 35 000	FM and Regional code number
	B 01 001	WMO block number
D 35 009	B 35 011	Number of reports actually received
		(Specify report type and WMO Region being monitored)
	B 08 021	(24) Agreed time limit for report reception
	B 04 004	Hour
D 35 010	B 08 021	(25) Nominal reporting time
	B 04 004	Hour
	B 35 000	FM and Regional code number
	B 01 003	WMO Region/geographical area
D 35 011	B 35 011	Number of reports actually received

(continued)

(Category 35 - continued)

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