

CREX Table D - List of common sequences

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

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 3 or 4 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	ELEMENT NAME	Status
	REFERENCES F X Y		
D 00 010	D 00 003	Table D descriptor to be defined	Operational
	R 01 000	Delayed replication of 1 descriptor	
	B 00 030	Descriptor defining sequence	

Category 01 - Location and identification sequences

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
		(Identification)	
D 01 029	B 01 018	Short station identifier	Operational
	B 02 001	Type of station	
	D 01 011	Date	
		(Identification - with physical location)	
D 01 030	B 01 018	Short station identifier	Operational
	B 02 001	Type of station	
	D 01 011	Date	
	D 01 024	Latitude and longitude, height	
		(Ozone instrumentation - Brewer spectrophotometer)	
D 01 070	B 02 143	Ozone instrument type	Operational
	B 02 142	Ozone instrument serial number or identifier	
	B 02 144	Light source type for Brewer	
		(Ozone instrumentation - Dobson spectrophotometer)	
D 01 074	B 02 143	Ozone instrument type	Operational
	B 02 142	Ozone instrument serial number/identification	
	B 02 145	Wavelength setting for Dobson instrument	
	B 02 146	Source conditions for Dobson instrument	
		(Sounding identification)	
D 01 075	D 01 001	WMO block number, WMO station number	Operational
	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	
		(Ozone sounding instrumentation)	
D 01 076	B 02 011	Radiosonde type	Operational
	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	ELEMENT NAME	Status
	REFERENCES F X Y		
D 02 013	D 02 006	Pressure and pressure change	Operational
	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 F X Y	ELEMENT NAME	Status
D 05 001		(SADC-HYCOS single measurement)	Operational
	B 11 001	Wind direction	
	B 11 002	Wind speed	
	B 13 060	Total accumulated precipitation	
D 05 002	B 13 071	Upstream water level	Operational
		(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	
D 05 003	B 13 084	Turbidity	Operational
		(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	
D 05 004	R 01 000	Delayed replication n times of next descriptor	Operational
	D 05 001	Single measurement	
		(SADC-HYCOS report)	
D 05 006	D 01 030	Identification	Operational
	D 05 002	Environmental measurement	
	D 05 003	Measurement array	
D 05 007		(MEDHYCOS measurement)	Operational
	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	
D 05 008	B 13 073	Maximum water height observed	Operational
	B 13 060	Total accumulated precipitation	
		(MEDHYCOS report)	
	D 01 029	Identification	
D 05 009	D 01 012	Hour, minute (time of first measurement)	Operational
	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	
D 05 010		(AOCHYCOS-Chad measurement)	Operational
	D 05 006	Same as MEDHYCOS type measurement	
	C 07 005	Next datum in kelvin	
	C 01 004	Next datum over four characters	
D 05 011	B 12 030	Soil temperature at -50 cm	Operational

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 05 009		(AOCHYCOS-Chad report)	Operational
	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 05 010	D 05 008	Single measurement	Operational
		(MEDHYCOS-Measurement type 2)	
	B 02 091	Same as AOCHYCOS type measurement	
	B 02 091	Sensor entry 4/20mA (no. 1)	
D 05 011		(MEDHYCOS report type 2)	Operational
	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 05 016	D 05 010	Single measurement	Operational
		(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	
D 05 017	B 11 041	Maximum wind speed (gusts)	Operational
	B 11 043	Maximum wind gust direction	
		(Water quality measurement)	
	B 13 080	pH	
	B 13 081	Conductivity	
D 05 018	B 13 083	Dissolved oxygen	Operational
	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 three descriptors	
	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 F X Y	ELEMENT NAME	Status
D 06 001	B 02 032	Indicator for digitization	Operational
	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	Operational
	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	Operational
	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)	Operational
	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	
	B 04 065	Short time increment	
D 06 020		(Tide report identification, water level checks, time period or displacement, time increment) (see Note 1)	Operational
	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	
D 06 021		(Meteorological parameters in tide station)	Operational
	B 01 075	Tide station alphanumeric identification	
	D 01 011	Year, month, day	
	D 01 012	Hour, minute	
	B 22 122	Tide station automated meteorological data check	
	B 22 123	Tide station manual meteorological data check	
	B 12 001	Air temperature	
	D 03 002	Pressure, wind direction, wind speed	

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 06 022		(Tidal elevation)	Operational
	B 01 075	Tide station identification	
	D 01 011	Year, month, day	
	D 01 012	Hour, minute	
	B 22 038	Tidal elevation with respect to local chart datum	
D 06 024	B 22 039	Meteorological residual tidal elevation (surge or offset)	Operational
		(Tide elevation series) (see Note 2)	
	D 06 020	Tide report identification, water level checks, time period or displacement, time increment	
	R 02 006	Replicate 2 descriptors 6 times	
	B 22 038	Tidal elevation with respect to local chart datum	
D 06 025	B 22 039	Meteorological residual tidal elevation (surge or offset)	Operational
		(Tide elevation series)	
	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	
D 06 026	B 22 039	Meteorological residual tidal elevation (surge or offset)	Validation
		(Template for tide elevation)	
	B 01 075	Station identification	
	B 01 015	Station or site name	
	D 01 021		
	D 01 011		
	D 01 013		
	R 15 000	Delayed replication of 15 descriptors	
	B 04 016	Time increment (offset) - in seconds	
	B 08 015	Identification of primary or secondary sensor	
	B 02 007	Type of sensor	
	B 22 120	Tide station automated water level check	
	B 22 121	Tide station manual water level check	
	B 04 016	Time increment - in seconds	
	R 08 000	Delayed replication of 8 descriptors	
	B 10 051	Pressure reduced to mean sea level	
	B 22 038	Tidal elevation with respect to local chart datum	
	B 22 040	Meteorological residual tidal elevation (surge or offset)	
	B 04 026	Time period or displacement (averaging period) - in seconds	
	R 03 004	Replicate 3 descriptors 4 times	
	B 08 023	First-order statistics (mean, max., min., standard dev.)	
	B 22 038	Tidal elevation with respect to local chart datum	
	B 22 040	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 0 25 should be used instead.

Category 07 - Surface report sequences (land)

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
		(Low altitude station)	
D 07 003	D 07 001	Location (high accuracy) and basic report	Operational
	R 01 000	Delayed replication of 1 descriptor	
	D 02 005	Cloud layer information	
		(Low altitude station)	
D 07 004	D 07 002	Location (coarse accuracy) and basic report	Operational
	R 01 000	Delayed replication of 1 descriptor	
	D 02 005	Cloud layer information	
		(D _v VVVV)	
D 07 012	R 03 000	Delayed replication of 3 descriptors (up to 3)	Operational
	B 08 023	First order statistics	
	B 05 021	Direction of visibility observed	D _v
	B 20 001	Horizontal visibility	VVVV
		(D _R D _R V _R V _R V _R V _R)	
D 07 013	R 06 000	Delayed replication of 6 descriptors (up to 4)	Operational
	B 01 064	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 08 014	Qualification for runway visual range	
	B 20 061	Runway visual range	V _R V _R V _R V _R
	B 20 018	Tendency of runway visual range	i
		(w'w')	
D 07 014	R 01 000	Delayed replication of 1 descriptor (up to 3)	Operational
	B 20 019	Significant present weather	w'w'
		(Clouds group(s))	
D 07 015	R 01 000	Delayed replication of 1 descriptor	Operational
	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
		(REw'w')	
D 07 016	R 01 000	Delayed replication of 1 descriptor (up to 3)	Operational
	B 20 020	Significant recent weather phenomena	REw'w'
		(Wind shear on runway(s))	
D 07 017	R 01 000	Delayed replication of 1 descriptor	Operational
	B 11 070	Runway designator of the runway affected by wind shear (including ALL)	WS RWYD _R D _R

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME		Status
D 07 018		(Trend-type landing forecast)		Operational
	B 08 016	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)	TT	
	D 01 012	GG, gg		
	R 04 000	Delayed replication of 4 descriptor (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)		Operational
	B 15 001	Value of ozone measurement		
	B 15 002	Value of the air-mass		
D 07 031		(Ozone data - averaged observations)		Operational
	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		
	B 15 002	Value (harmonic mean) of the air-mass		
D 07 041		(Total ozone measurement from a Brewer ground-based spectrophotometer obtained from a single observation)		Operational
	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 07 030	Data (single observation)		
D 07 042		(Total ozone measurement from a Brewer ground-based spectrophotometer obtained from averaged observations)		Operational
	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)		

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
		(Total ozone measurement from a Dobson ground-based spectrophotometer obtained from a single observation)	
D 07 043	D 01 001	Identification	Operational
	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 01 074	Ozone instrumentation	
	D 07 030	Data (single observation)	
		(Total ozone measurement from a Dobson ground-based spectrophotometer obtained from averaged observations)	
D 07 044	D 01 001	Identification	Operational
	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)	
		(Soil temperature below land surface)	
D 07 060	B 07 061	Depth below land surface	Operational
	B 12 030	Soil temperature	
		(Soil temperature data at number of depths not exceeding five - high accuracy position)	
D 07 061	D 01 031	Identification, type, date/time, position (high accuracy), height	Operational
	R 01 005	Replicate 1 descriptor 5 times	
	D 07 060	Depth below land surface, soil temperature	

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
		(Soil temperature data at number of depths not exceeding five - coarse accuracy position)	
D 07 062	D 01 032 R 01 005 D 07 060	Identification, type, date/time, position (coarse accuracy), Height Replicate 1 descriptor 5 times Depth below land surface, soil temperature	Operational
		(Soil temperature with scale of 2 below land surface)	
D 07 063	B 07 061 B 12 130	Depth below land surface Soil temperature (with scale of 2)	Operational
		("Instantaneous" parameters of sequence D07089) <i>Surface station identification, time, horizontal and vertical coordinates</i>	
D 07 087	D 01 001 B 02 001 D 01 011 D 01 012 D 01 023 B 07 030 B 07 031 D 02 001 B 10 062 B 07 004 B 10 009 B 07 032 B 12 101 B 12 103 B 13 003 B 07 032 B 20 001 D 02 004	WMO block number, WMO station number Type of station Year, month, day Hour, Minute Latitude, Longitude (course accuracy) Height of station ground above msl Height of barometer above msl <i>Pressure data</i> Pressure Pressure reduced to mean sea level 3-hour pressure change Characteristic of pressure tendency 24-hour pressure change Pressure (standard level) = 925, 850, 700, .. hPa = missing for lowland stations Geopotential height of the standard level = missing for lowland stations <i>Temperature and humidity</i> Height of sensor above local ground (for temperature measurement) Temperature/ <i>air</i> temperature (sc. 2) Dew-point temperature (sc. 2) Relative humidity Height of sensor above local ground (set to missing to cancel the previous value) <i>Visibility</i> Horizontal visibility <i>Cloud data</i> Cloud cover (total) 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) 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 If N = 0 or /, then B 20 013 = missing. Cloud type (low clouds) 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)	Operational
		IIiii i _x YY GG, gg P ₀ P ₀ P ₀ P ₀ PPPP ppp a P ₂₄ P ₂₄ P ₂₄ a ₃ hhh s _n TTT s _n T _d T _d T _d VV N N _h h C _L C _M	

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME		Status
		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) 0 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.	C_H	
	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 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 if N = 9 or /, then B 20 012 = missing, else B 20 012 = C. Height of base of cloud ("Period" parameters of sequence D 07 089)	N_s C $h_s h_s$	
		<i>Present and past weather</i>		
D 07 088	B 20 003	Present weather	ww	Operational
	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)	W_1	
	B 20 005	Past weather (2)	W_2	
		<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 <i>Sunshine</i>	EEE	
	R 02 002	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 in the second replication <i>Precipitation</i>	SSS SS	
	R 02 002	Replicate next 2 descriptors 2 times		
	B 04 024	Time period in hours	t_R	
	B 13 011	Total precipitation no precipitation = 0 trace = - 0.1 <i>Extreme temperature</i>	RRR	
	B 07 032	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 period specified	$s_n T_x T_x T_x$	
	B 04 024	Time period in hours = - 12		
	B 12 112	Minimum temperature at height and over period specified <i>Wind data</i>	$s_n T_n T_n T_n$	
	B 07 032	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,		

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
		if any)	
	B 11 001	Wind direction If dd = 00 (calm) or dd = 99 (variable), B 11 001 = 0.	dd
	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 D07089	Operational
	D 07 088	Period parameters of sequence D07089	

Category 08 - Surface report sequences (sea)

SEQUENCE	TABLE	ELEMENT NAME	Status
	REFERENCES F X Y		
D 08 010		(TRACKOB Template)	Operational
	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 F X Y	ELEMENT NAME	Status
D 09 001		(Vertical wind profile)	Operational
	D 01 037	Identification, etc. (land station, high accuracy position)	
	R 01 000	Delayed replication of 1 descriptor	
	D 03 011	Winds at heights	
D 09 002		(Vertical wind profile)	Operational
	D 01 038	Identification, etc. (land station, coarse accuracy position)	
	R 01 000	Delayed replication of 1 descriptor	
	D 03 011	Winds at heights	
D 09 003		(Vertical wind profile)	Operational
	D 01 037	Identification, etc. (land station, high accuracy position)	
	R 01 000	Delayed replication of 1 descriptor	
	D 03 012	Winds at pressure levels	
D 09 004		(Vertical wind profile)	Operational
	D 01 038	Identification, etc. (land station, coarse accuracy position)	
	R 01 000	Delayed replication of 1 descriptor	
	D 03 012	Winds at pressure levels	
D 09 005		(Vertical sounding with relative humidity)	Operational
	D 01 037	Identification, etc. (land station, high accuracy position)	
	D 02 004	Significant cloud information	
	R 01 000	Delayed replication of 1 descriptor	
D 09 006		(Vertical sounding with relative humidity)	Operational
	D 01 038	Identification, etc. (land station, coarse accuracy position)	
	D 02 004	Significant cloud information	
	R 01 000	Delayed replication of 1 descriptor	
D 09 007		(Vertical sounding with dew-point data)	Operational
	D 01 037	Identification, etc. (land station, high accuracy position)	
	D 02 004	Significant cloud information	
	R 01 000	Delayed replication of 1 descriptor	
D 09 008		(Vertical sounding with dew-point data)	Operational
	D 01 038	Identification, etc. (land station, coarse accuracy position)	
	D 02 004	Significant cloud information	
	R 01 000	Delayed replication of 1 descriptor	
D 09 011		(Vertical wind profile)	Operational
	D 01 039	Ship's identification, etc.	
	R 01 000	Delayed replication of 1 descriptor	
	D 03 011	Winds at heights	
D 09 012		(Vertical wind profile)	Operational
	D 01 039	Ship's identification, etc.	
	R 01 000	Delayed replication of 1 descriptor	
	D 03 012	Winds at pressure levels	

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 09 013		(Vertical sounding with relative humidity)	Operational
	D 01 039	Ship's identification, etc.	
	D 02 004	Significant cloud information	
	R 01 000	Delayed replication of 1 descriptor	
D 09 014	D 03 013	Pressure, geopotential, temperature and wind data	Operational
		(Vertical sounding with dew-point data)	
	D 01 039	Ship's identification, etc.	
	D 02 004	Significant cloud information	
D 09 015	R 01 000	Delayed replication of 1 descriptor	Operational
	D 03 014	Pressure, geopotential, temperature and wind data	
		(Vertical wind profile)	
	D 01 040	Ship's identification, etc.	
D 09 016	R 01 000	Delayed replication of 1 descriptor	Operational
	D 03 011	Winds at heights	
		(Vertical wind profile)	
D 09 017	D 01 040	Ship's identification, etc.	Operational
	R 01 000	Delayed replication of 1 descriptor	
	D 03 012	Winds at pressure levels	
		(Vertical sounding with relative humidity)	
D 09 018	D 01 040	Ship's identification, etc.	Operational
	D 02 004	Significant cloud information	
	R 01 000	Delayed replication of 1 descriptor	
	D 03 013	Pressure, geopotential, temperature and wind data	
D 09 019		(Vertical sounding with dew-point data)	Operational
	D 01 040	Ship's identification, etc.	
	D 02 004	Significant cloud information	
	R 01 000	Delayed replication of 1 descriptor	
D 09 020	D 03 014	Pressure, geopotential, temperature and wind data	Operational
		(Wind profiler - wind data sounding)	
	D 01 031	Identification, etc.	
	B 02 003	Type of measuring equipment used	
D 09 030	R 01 000	Delayed replication of 1 descriptor	Operational
	D 03 011	Winds at heights	
		(Wind profiler - Cartesian coordinates)	
	D 01 031	Identification, etc.	
	B 02 003	Type of measuring equipment used	
	R 04 000	Delayed replication of 4 descriptors	
D 09 030	B 07 003	Geopotential	Operational
	B 11 003	u-component	
	B 11 004	v-component	
	B 11 005	w-component	
		(Ozone sonde flight data) (see Note 1)	
	B 15 004	Ozone sounding correction factor	
	B 15 005	Ozone p	
D 09 030	R 04 000	Delayed replication	Operational
	B 04 015	Time increment since launch time, if needed; in minutes	
	B 08 006	Ozone vertical sounding significance	
	B 07 004	Pressure	
	B 15 003	Measured ozone partial pressure	

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 09 031		(Ozone sonde flight data)	Operational
	B 15 004	Ozone sounding correction factor	
	B 15 005	Ozone p	
	R 04 000	Delayed replication	
	B 04 025	Time displacement (since launch time) in minutes	
	B 08 006	Ozone vertical sounding significance	
	B 07 004	Pressure	
D 09 040		Measured ozone partial pressure	Operational
		(Ozone sounding not coupled to a ground-based spectrophotometer) (see Note 2)	
	D 01 075	Identification	
	D 01 076	Instrumentation	
D 09 041	D 09 030	Ozone flight data	Operational
		(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 07 041	Description of the ground-based part	
	D 01 075	Identification of the ozone sounding part	
	D 01 076	Instrumentation of sounding	
D 09 042	D 09 030	Ozone flight data	Operational
		(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 07 042	Description of the ground-based part	
	D 01 075	Identification of the ozone sounding part	
	D 01 076	Instrumentation of sounding	
D 09 043	D 09 030	Ozone flight data	Operational
		(Ozone sounding coupled to measurements from a Dobson ground-based spectrophotometer; the total ozone obtained from the Dobson is a single value) (see Note 2)	
	D 07 043	Description of the ground-based part	
	D 01 075	Identification of the ozone sounding part	
	D 01 076	Instrumentation of sounding	
D 09 044	D 09 030	Ozone flight data	Operational
		(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 07 044	Description of the ground-based part	
	D 01 075	Identification of the ozone sounding part	
	D 01 076	Instrumentation of sounding	
D 09 045	D 09 031	Ozone flight data	Operational
		(Ozone sounding not coupled to a ground-based spectrophotometer)	
	D 01 075	Identification	
	D 01 076	Instrumentation	
D 09 046		(Ozone sounding coupled to measurements from a Brewer ground-based spectrophotometer; the total ozone obtained from the Brewer is a single value)	Operational
	D 07 041	Description of the ground-based part	
	D 01 075	Identification of the ozone sounding part	
	D 01 076	Instrumentation of sounding	
	D 09 031	Ozone flight data	

SEQUENCE	TABLE REFERENCES		ELEMENT NAME	Status
	F	X Y		
			(Ozone sounding coupled to measurements from a Brewer ground-based spectrophotometer; the total ozone obtained from the Brewer is an averaged value)	
D 09 047	D 07 042		Description of the ground-based part	Operational
	D 01 075		Identification of the ozone sounding part	
	D 01 076		Instrumentation of sounding	
	D 09 031		Ozone flight data	
			(Ozone sounding coupled to measurements from a Dobson ground-based spectrophotometer; the total ozone obtained from the Dobson is a single value)	
D 09 048	D 07 043		Description of the ground-based part	Operational
	D 01 075		Identification of the ozone sounding part	
	D 01 076		Instrumentation of sounding	
	D 09 031		Ozone flight data	
			(Ozone sounding coupled to measurements from a Dobson ground-based spectrophotometer; the total ozone obtained from the Dobson is a averaged value)	
D 09 049	D 07 044		Description of the ground-based part	Operational
	D 01 075		Identification of the ozone sounding part	
	D 01 076		Instrumentation of sounding	
	D 09 031		Ozone flight data	

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 F X Y	ELEMENT NAME	Status
D 11 004		(ACARS supplementary reported variables)	Operational
	R 01 000	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)	Operational
	B 01 008	Aircraft identification	
	B 01 023	Sequence number	
	D 01 021	Latitude and longitude	
	D 01 011	Year, month and day	
	D 01 013	Hour, minute and 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)	Operational
	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		(Aircraft data for one level with latitude/longitude indicated)	Operational
	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	

SEQUENCE	TABLE		ELEMENT NAME	Status
	REFERENCES			
	F X Y			
D 11 008			(Aircraft ascent/descent profile without latitude/longitude indicated at each level)	Operational
	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 one descriptor	
D 11 009	D 11 006		Aircraft data for one level without latitude/longitude	Operational
			(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 one descriptor	
	D 11 007		Aircraft data for one level with latitude/longitude indicated	

Category 16 - Synoptic feature sequences

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 16 003		(Jet stream)	Operational
	R 09 000	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		(Turbulence)	Operational
	R 10 000	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		(Storm)	Operational
	R 08 000	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		(Cloud)	Operational
	R 11 000	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	
	B 20 012	Cloud type	
	B 08 007	Dimensional significance (cancel)	
	B 08 011	Meteorological feature (cancel/end of object)	

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 16 007		(Front)	Operational
	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)	Operational
	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)	Operational
	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)	Operational
	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)	
	B 06 002	Longitude (coarse)	
	B 08 007	Dimensional significance (cancel)	
	B 08 011	Meteorological feature (cancel/end of object)	

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 16 011	R 16 000	(Volcano erupting) Delayed replication of 16 descriptors	Operational
	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)	
		(Tropical storm identification)	
D 16 020	B 01 033	Identification of originating/generating centre	Operational
	B 01 025	Storm identifier	
	B 01 027	WMO storm name	
	D 01 011	Year, month, day	
	D 01 012	Hour, minute	
D 16 021		(Analysis data)	Operational
	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)	
	B 11 040	Maximum wind speed (mean wind)	
	B 19 007	Radius of feature (maximum wind)	
	R 05 004	(four times replication of following five descriptors)	
	B 05 021	Starting bearing or azimuth	
	B 05 021	Ending bearing or azimuth	
	R 02 002	(Two times replication of following two descriptors)	
	B 19 003	Wind speed threshold	
	B 19 004	Effective radius with respect to wind speed above threshold	

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 16 022		(Forecast data)	Operational
	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	(Four times replication of following five descriptors)	
	B 05 021	Starting bearing or azimuth	
	B 05 021	Ending bearing or azimuth	
	R 02 002	(Two times replication of following two 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)	Operational
	D 16 020	Tropical storm identification	
	D 16 021	Analysis data	
D 16 027		(Tropical storm forecast information)	Operational
	D 16 020	Tropical storm identification	
	D 16 022	Forecast data	

SEQUENCE	TABLE REFERENCES		ELEMENT NAME	Status
	F	X Y		
D 16 052			(SAREP Template - Part A: Information on tropical cyclone)	Operational
	D 01 005		Originating centre/sub-centre	
	D 01 011		Date	
	D 01 012		Time	
	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	
			(Definition of squall line (by 3 points: Centre, North, South) and forecasted trajectory and evolution)	
D 16 060	D 01 011		Date	Operational
	D 01 012		Time	
	B 05 002		Latitude	
	B 06 002		Longitude	
	B 19 005		Direction of moving feature	
	B 19 006		Speed of moving feature	
	B 05 002		Latitude	
	B 06 002		Longitude	
	B 05 002		Latitude	
	B 06 002		Longitude	
	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	

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

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 35 007		(Report type and multiple stations from one block being monitored)	Operational
	B 08 021	(24) Agreed time limit for report reception	
	B 04 004	Hour	
	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	
	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	Operational
		(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)	