

**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 ( <i>not to be used in CREX for transmission</i> )	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) ( <i>not to be used in CREX for transmission</i> )	Operational
D	11	Single-level report sequences (conventional data)	Operational
D	12	Single-level report sequences (satellite data) ( <i>not to be used in CREX for transmission</i> )	Operational
D	13	Sequences common to image data ( <i>not to be used in CREX for transmission</i> )	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 ( <i>not to be used in CREX for transmission</i> )	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.

(continued)

*(CREX Table D - continued)*

- (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	
	B 13 071	Upstream water level	
D 05 002		(SADC-HYCOS environmental measurement)	Operational
	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)	Operational
	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)	Operational
	D 01 030	Identification	
	D 05 002	Environmental measurement	
	D 05 003	Measurement array	
D 05 006		(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	
	B 13 073	Maximum water height observed	
	B 13 060	Total accumulated precipitation	
D 05 007		(MEDHYCOS 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 05 006	Single measurement	

(continued)

(Category 05 - continued)

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 05 008		(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	
	B 12 030	Soil temperature at -50 cm	
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 05 008	Single measurement	
D 05 010		(MEDHYCOS-Measurement type 2)	Operational
	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 05 011		(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 05 010	Single measurement	
D 05 016		(Meteorological parameters associated with hydrological data)	Operational
	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)	
	B 11 043	Maximum wind gust direction	
D 05 017		(Water quality measurement)	Operational
	B 13 080	pH	
	B 13 081	Conductivity	
	B 13 083	Dissolved oxygen	
	B 13 085	Oxidation reduction potential (ORP)	
	B 13 084	Turbidity	
D 05 018		(MEDHYCOS report with meteorology and water quality data)	Operational
	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	
	B 04 065	Short time increment	

(continued)

*(Category 06 - continued)*

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
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 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	
	B 22 039	Meteorological residual tidal elevation (surge or offset)	
D 06 024		(Tide elevation series) (see Note 2)	Operational
	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	
	B 22 039	Meteorological residual tidal elevation (surge or offset)	
D 06 025		(Tide elevation series)	Operational
	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)	

*(continued)*

(Category 06 - continued)

SEQUENCE	TABLE REFERENCES		ELEMENT NAME	Status
	F	X Y		
			<i>(Template for tide elevation)</i>	
			<i>Station identification</i>	
D 06 026	B 01 075		<i>Tide station identification</i>	Validation
	B 01 015		<i>Station or site name</i>	
	D 01 021			
	D 01 011			
	D 01 013			
	R 15 000		<i>Delayed replication of 15 descriptors</i>	
	B 04 016		<i>Time increment (offset) - in seconds</i>	
	B 08 015		<i>Identification of primary or secondary sensor</i>	
	B 02 007		<i>Type of sensor</i>	
	B 22 120		<i>Tide station automated water level check</i>	
	B 22 121		<i>Tide station manual water level check</i>	
	B 04 016		<i>Time increment - in seconds</i>	
	R 08 000		<i>Delayed replication of 8 descriptors</i>	
	B 10 051		<i>Pressure reduced to mean sea level</i>	
	B 22 038		<i>Tidal elevation with respect to local chart datum</i>	
	B 22 040		<i>Meteorological residual tidal elevation (surge or offset)</i>	
	B 04 026		<i>Time period or displacement (averaging period) - in seconds</i>	
	R 03 004		<i>Replicate 3 descriptors 4 times</i>	
	B 08 023		<i>First-order statistics (mean, max., min., standard dev.)</i>	
	B 22 038		<i>Tidal elevation with respect to local chart datum</i>	
	B 22 040		<i>Meteorological residual tidal elevation (surge or offset)</i>	

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

(continued)

(Category 07 - continued)

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 07 018	R 04 000	Delayed replication of 4 descriptor (up to 1)	
(continued)	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 <sub>m</sub> f <sub>m</sub>
	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'	
		(Ozone data - single observation)	
D 07 030	B 15 001	Value of ozone measurement	Operational
	B 15 002	Value of the air-mass	
		(Ozone data - averaged observations)	
D 07 031	B 08 022	Number of measurements	Operational
	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	
		(Total ozone measurement from a Brewer ground-based spectropho- tometer obtained from a single observation)	
D 07 041	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 01 070	Ozone instrumentation	
	D 07 030	Data (single observation)	
		(Total ozone measurement from a Brewer ground-based spectropho- tometer obtained from averaged observations)	
D 07 042	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 01 070	Ozone instrumentation	
	D 07 031	Data (averaged observation)	

(continued)



(Category 07 - continued)

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 07 043		(Total ozone measurement from a Dobson 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 01 074	Ozone instrumentation	
D 07 044	D 07 030	Data (single observation)	Operational
		(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 07 060	D 01 074	Ozone instrumentation	Operational
	D 07 031	Data (averaged observation)	
		(Soil temperature below land surface)	
D 07 061	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	
D 07 062		(Soil temperature data at number of depths not exceeding five - coarse accuracy position)	Operational
	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)	Operational
	B 07 061	Depth below land surface	
	B 12 130	Soil temperature (with scale of 2)	

(continued)

(Category 07 - continued)

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
		("Instantaneous" parameters of sequence D 07 089)	
		<i>Surface station identification, time, horizontal and vertical coordinates</i>	
D 07 087	D 01 001	WMO block number, WMO station number	Operational
	B 02 001	Type of station	i <sub>x</sub>
	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 <sub>o</sub> P <sub>o</sub> P <sub>o</sub> P <sub>o</sub>
		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 <sub>24</sub> P <sub>24</sub> P <sub>24</sub>
	B 07 004	Pressure (standard level) = 925, 850, 700, .. hPa = missing for lowland stations	a <sub>3</sub>
	B 10 009	Geopotential height of the standard level = missing for lowland stations	hhh
		<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 <sub>n</sub> TTT
	B 12 103	Dew-point temperature (sc. 2)	s <sub>n</sub> T <sub>d</sub> T <sub>d</sub> T <sub>d</sub>
	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 <sub>L</sub> are observed, then B 08 002 = 7 (low cloud), if C <sub>L</sub> are not observed and C <sub>M</sub> are observed, then B 08 002 = 8 (middle cloud), if only C <sub>H</sub> 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 <sub>h</sub>
		If N = 0, then B 20 011 = 0, if N = 9, then B 20 011 = 9, if N = /, then B 20 011 = missing.	

(continued)

(Category 07 - continued)

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME		Status
D 07 087 (continued)		Height of base of cloud	h	
		If N = 0 or /, then B 20 013 = missing.		
		Cloud type (low clouds)	C <sub>L</sub>	
		B 20 012 = C <sub>L</sub> + 30,		
		if N = 0, then B 20 012 = 30,		
		if N = 9 or /, then B 20 012 = 62.		
		Cloud type (middle clouds)	C <sub>M</sub>	
		B 20 012 = C <sub>M</sub> + 20,		
		if N = 0, then B 20 012 = 20,		
		if N = 9 or / or C <sub>M</sub> = /, then B 20 012 = 61.		
		Cloud type (high clouds)	C <sub>H</sub>	
		0 20 012 = C <sub>H</sub> + 10,		
		if N = 0, then B 20 012 = 10,		
		if N = 9 or / or C <sub>H</sub> = /, then B 20 012 = 60.		
	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 <sub>s</sub>	
		in the first replication:		
		if N = /, then B 20 011 = missing,		
		else B 20 011 = N <sub>s</sub> ;		
		in the other replications B 20 011 = N <sub>s</sub> .		
		Cloud type	C	
		if N = 9 or /, then B 20 012 = missing,		
		else B 20 012 = C.		
		Height of base of cloud	h <sub>s</sub> h <sub>s</sub>	
		("Period" parameters of sequence D 07 089)		
		<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 <sub>1</sub>	
	B 20 005	Past weather (2)	W <sub>2</sub>	
		<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 <sub>E</sub>	
	B 13 033	Evaporation /evapotranspiration	EEE	

(continued)

(Category 07 - continued)

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 07 088		<i>Sunshine</i>	
(continued)	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	SSS SS
		<i>Precipitation</i>	
	R 02 002	Replicate next 2 descriptors 2 times	
	B 04 024	Time period in hours	t <sub>R</sub>
	B 13 011	Total precipitation no precipitation = 0 trace = -0.1	RRR
		<i>Extreme temperature</i>	
	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 <sub>n</sub> T <sub>x</sub> T <sub>x</sub> T <sub>x</sub>
	B 04 024	Time period in hours = -12	
	B 12 112	Minimum temperature at height and over period specified	s <sub>n</sub> T <sub>n</sub> T <sub>n</sub> T <sub>n</sub>
		<i>Wind data</i>	
	B 07 032	Height of sensor above local ground (for wind measurement)	
	B 02 002	Type for instrumentation for wind measurement	i <sub>w</sub>
	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 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 D 07 089	Operational
	D 07 088	"Period" parameters of sequence D 07 089	

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

SEQUENCE	TABLE REFERENCES		ELEMENT NAME	Status
	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	

*(continued)*

(Category 09 - continued)

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

(continued)



(Category 09 - continued)

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
D 09 030		(Ozone sonde flight data) (see Note 1)	Operational
	B 15 004	Ozone sounding correction factor	
	B 15 005	Ozone p	
	R 04 000	Delayed replication	
	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	
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	
	B 15 003	Measured ozone partial pressure	
D 09 040		(Ozone sounding not coupled to a ground-based spectrophotometer) (see Note 2)	Operational
	D 01 075	Identification	
	D 01 076	Instrumentation	
	D 09 030	Ozone flight data	
D 09 041		(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)	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 09 030	Ozone flight data	
D 09 042		(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)	Operational
	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		(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)	Operational
	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 09 030	Ozone flight data	

(continued)

(Category 09 - continued)

SEQUENCE	TABLE REFERENCES F X Y	ELEMENT NAME	Status
		(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 09 044	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 09 030	Ozone flight data	
		(Ozone sounding not coupled to a ground-based spectrophotometer)	
D 09 045	D 01 075	Identification	Operational
	D 01 076	Instrumentation	
	D 09 031	Ozone flight data	
		(Ozone sounding coupled to measurements from a Brewer ground-based spectrophotometer; the total ozone obtained from the Brewer is a single value)	
D 09 046	D 07 041	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 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 an 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	

(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 FX 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	
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	

(continued)

*(Category 11 - continued)*

SEQUENCE	TABLE REFERENCES		ELEMENT NAME	Status
	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 11 006		Aircraft data for one level without latitude/longitude	
D 11 009			(Aircraft ascent/descent profile with latitude/longitude given for 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 1 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	

*(continued)*

(Category 16 - continued)

SEQUENCE	TABLE REFERENCES		ELEMENT NAME	Status
	F	X Y		
D 16 006	B 20 012		Cloud type	
(continued)	B 08 007		Dimensional significance (cancel)	
	B 08 011		Meteorological feature (cancel/end of object)	
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)	
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)	
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)	

(continued)



(Category 16 - continued)

SEQUENCE	TABLE REFERENCES		ELEMENT NAME	Status
	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)	Operational
	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)	Operational
	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 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)	

(continued)

(Category 16 - continued)

SEQUENCE	TABLE REFERENCES		ELEMENT NAME	Status
	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		(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 16 022			(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	
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	

(continued)

(Category 16 - continued)

SEQUENCE	TABLE REFERENCES		ELEMENT NAME	Status
	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)	Operational
	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	Status
	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)	Operational
	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 F X Y	ELEMENT NAME	Status
D 35 001		(Specify monitoring station)	Operational
	B 08 035	Type of monitoring exercise	
	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		(Specify monitoring centre)	Operational
	B 08 035	Type of monitoring exercise	
	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		(Specify monitoring period)	Operational
	B 08 021	(23) Monitoring period	
	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		(Specify report type and single station 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	
	D 01 001	(WMO station identifier)	
	B 35 011	Number of reports actually received	
D 35 005		(Specify report type and WMO 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	
	B 35 011	Number of reports actually received	
D 35 006		(Specify report type and WMO Region 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 01 003	WMO Region/geographical area	
	B 35 011	Number of reports actually received	

(continued)

*(Category 35 - continued)*

SEQUENCE	TABLE REFERENCES		ELEMENT NAME	Status
	F	X Y		
D 35 007	B 08 021		(Report type and multiple stations from one block being monitored)	Operational
			(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	
	B 35 011		Number of reports actually received	
D 35 010			(Monitoring a report type from multiple stations)	Operational
	D 35 002		(Specify monitoring centre)	
	D 35 003		(Specify monitoring period)	
	D 35 007		(Specify report type and multiple stations being monitored)	