

Section 0

Octet No.	Contents	Value
1-4	BUFR (coded according to the CCITT International Alphabet No. 5)	BUFR
5-7	Total length of BUFR message (including section 0)	139
8	BUFR edition number (4)	4

Section 1

Octet No.	Contents	Value
1-3	Length of section	22
4	BUFR master table	0
5-6	Identification of originating/generating centre (see Common code table C-11)	74
7-8	Identification of originating/generating sub-centre (allocated by originating/generating centre, see Common Code table C-12)	
9	Update sequence number (zero for original messages and for messages containing only delayed reports; incremented for other updates)	0
10	Bit 1 = 0, No optional section Bit 1 = 1, Optional section follows	00
	Bits 2-8 Set to zero (reserved)	00,00,00,00,00,00,00
11	Data category (Table A)	1
12	International data sub-category (see Common Code table C-13 and Note 3)	
13	Local data sub-category (defined locally by automatic data-processing (ADP) centres - see Note 3)	255
14	Version number of master table - see Notes 2 and 5	22
15	Version number of local tables used to augment master table in use - see Note 2	255
16-17	Year (4 digits)	2016
18	Month	9
19	Day	8
20	Hour	0
21	Minute	0
22	Second	255
23	Optional - for local use by ADP centres	

Section 2

No section 2 present

Section 3

Octet No.	Contents	Value
1-3	Length of section	9
4	Set to zero (reserved)	0
5-6	Number of data subsets	1

7	Bit 1 = 1 Observed data Bit 1 = 0 Other data	01
7	Bit 2 = 1 Compressed data Bit 2 = 0 Non-compressed data	00
7	Bits 3 - 8 Set to zero (reserved)	00,00,00,00,00,00
8-	Descriptors defining data in Section 4	308017

Section 4

Octet No.	Contents	Value
1-3	Length of Data section (octets)	96
4	Set to zero (reserved)	00
5-	Binary data as defined by sequence descriptors	See Section 4 data below

Section 4 Data

Subset 1

Field	Units	Width (bits)	Scale	Reference	Numeric value	Character value	End position (bit)
WMO marine observing platform extended identifier	Numeric	23	0	0	6200135	NA	23
Ship or mobile land station identifier	CCITT IA5	72	0	0	NA		95
Station or site name	CCITT IA5	160	0	0	NA	Trent	255
Type of offshore platform	Code table	4	0	0	NA	NA	259
Type of station	Code table	2	0	0	0	NA	261
Year	a	12	0	0	2016	NA	273
Month	mon	4	0	0	9	NA	277
Day	d	6	0	0	8	NA	283
Hour	h	5	0	0	0	NA	288
Minute	min	6	0	0	0	NA	294
Latitude (high accuracy)	deg	25	5	-9e+06	54.2994	NA	319
Longitude (high accuracy)	deg	26	5	-1.8e+07	1.65972	NA	345
Height of station ground above mean sea level	m	17	1	-4000	NA	NA	362
Height of barometer above mean sea level	m	17	1	-4000	NA	NA	379
Pressure	Pa	14	-1	0	100920	NA	393
Pressure reduced to mean sea level	Pa	14	-1	0	101390	NA	407
3-hour pressure change	Pa	10	-1	-500	NA	NA	417
Characteristic of pressure tendency	Code table	4	0	0	NA	NA	421
Height of sensor above local ground (or deck of marine platform)	m	16	2	0	NA	NA	437

Height of sensor above water surface	m	12	1	0	NA	NA	449
Temperature/air temperature	K	16	2	0	289.09	NA	465
Method of wet-bulb temperature measurement	Code table	3	0	0	NA	NA	468
Wet-bulb temperature	K	16	2	0	NA	NA	484
Dewpoint temperature	K	16	2	0	289.09	NA	500
Relative humidity	%	7	0	0	NA	NA	507
Method of water temperature and/or salinity measurement	Code table	4	0	0	NA	NA	512
Depth below sea/water surface (cm)	m	20	2	0	NA	NA	532
Sea/water temperature	K	15	2	0	NA	NA	547
Depth below sea/water surface (cm)	m	20	2	0	NA	NA	567
Height of sensor above local ground (or deck of marine platform)	m	16	2	0	NA	NA	583
Height of sensor above water surface	m	12	1	0	NA	NA	595
Type of instrumentation for wind measurement	Flag table	4	0	0	2	NA	599
Time significance	Code table	5	0	0	2	NA	604
Time period or displacement	min	12	0	-2048	-10	NA	616
Wind direction	degree true	9	0	0	151	NA	625
Wind speed	m/s	12	1	0	6.2	NA	637
Time significance	Code table	5	0	0	NA	NA	642
Time period or displacement	min	12	0	-2048	-10	NA	662
Maximum wind gust direction	degree true	9	0	0	NA	NA	671
Maximum wind gust speed	m/s	12	1	0	6.7	NA	683
Height of sensor above local ground (or deck of marine platform)	m	16	2	0	NA	NA	699
Height of sensor above water surface	m	12	1	0	NA	NA	711
Horizontal visibility	m	13	-1	0	NA	NA	724

Section 5

Octet No.	Contents	Value
1-4	7777 (coded according to the CCITT International Alphabet No. 5)	7777