

Table 2: List of descriptors, and corresponding Table B entries, that define the subset used in the MRF BUFR message.

Descriptor	Element Name	Unit	Scale	Ref	Bits
0 1 63	ICAO Location Indicator	CCITT IA5	0	0	64
0 5 2	Latitude	Degrees	2	-9000	15
0 6 2	Longitude	Degrees	2	-18000	16
0 4 1	Year	Year	0	0	12
0 4 2	Month	Month	0	0	4
0 4 3	Day	Day	0	0	6
0 4 4	Hour	Hour	0	0	5
0 8 21	Time Significance	Code table	0	0	5
0 4 24	Time Period or Displacement	Hour	0	-2048	12
0 60 66	Climatic (Normal) Daytime Max Temperature	K	1	0	12
0 60 67	Climatic (Normal) Nighttime Min Temperature	K	1	0	12
0 60 18	Rel. Freq. of $\geq 0.01$ inch of Liq. Equiv. Precip. during past 12 hours (climatic)	%	0	0	7
0 60 19	Rel. Freq. of $\geq 0.01$ inch of Liq. Equiv. Precip. during past 24 hours (climatic)	%	0	0	7
0 1 32	Generating Application	Code table	0	0	8
0 2 200	Objective Forecast Technique Used	Code table	0	0	4
0 12 200	Daytime Max Temperature	K	1	0	12
0 12 201	Nighttime Min Temperature	K	1	0	12
0 12 1	Temperature	K	1	0	12
0 12 3	Dew Point Temperature	K	1	0	12
0 60 105	Probability of Sky Cover Mostly Clear during past 12 hours	%	0	0	7
0 60 106	Probability of Sky Cover Partly Cloudy during past 12 hours	%	0	0	7
0 60 107	Probability of Sky Cover Mostly Cloudy during past 12 hours	%	0	0	7
0 4 31	Duration of Time Relating to Following Value	Hour	0	0	8
0 60 192	Total Sky Cover	Code table	0	0	4
0 60 120	Probability of Max Wind Speed 0 - 12 kts during past 12 hours	%	0	0	7
0 60 121	Probability of Max Wind Speed 13 - 21 kts during past 12 hours	%	0	0	7
0 60 122	Probability of Max Wind Speed 22 - 31 kts during past 12 hours	%	0	0	7
0 60 123	Probability of Max Wind Speed $\geq 32$ kts during past 12 hours	%	0	0	7
0 60 193	Max Wind Speed Forecast (Categorical)	Code table	0	0	4
0 60 124	Expected Value of Max Wind Speed	m/s	1	0	12
0 60 125	Probability of Max Wind Direction North during past 12 hours	%	0	0	7
0 60 126	Probability of Wind Direction	%	0	0	7

## Northeast during past 12 hours

Descriptor	Element Name	Unit	Scale	Ref	Bits
0 60 127	Probability of Wind Direction East during past 12 hours	%	0	0	7
0 60 128	Probability of Wind Direction Southeast during past 12 hours	%	0	0	7
0 60 129	Probability of Wind Direction South during past 12 hours	%	0	0	7
0 60 130	Probability of Wind Direction Southwest during past 12 hours	%	0	0	7
0 60 131	Probability of Wind Direction West during past 12 hours	%	0	0	7
0 60 132	Probability of Wind Direction Northwest during past 12 hours	%	0	0	7
0 60 194	Wind Direction Forecast (Categorical)	Code table	0	0	4
0 60 2	Prob. of Liquid Equivalent Precip. $\geq$ 0.01 inch during past 12 hours	%	0	0	7
0 60 3	Prob. of Liquid Equivalent Precip. $\geq$ 0.01 inch during past 24 hours	%	0	0	7
0 60 59	Prob. Of Thunderstorm during past 12 hours	%	0	0	7
0 60 60	Prob. Of Thunderstorm during past 24 hours	%	0	0	7
0 60 140	Cond. Prob. Of Freezing during past 12 hours	%	0	0	7
0 60 141	Cond. Prob. of Snow during past 12 hours	%	0	0	7
0 60 142	Cond. Prob. Of Rain/Snow Mix during past 12 hours	%	0	0	7
0 60 143	Cond. Prob. Of Rain during past 12 hours	%	0	0	7
0 4 31	Duration of Time Relating to Following Value	Hour	0	0	8
0 60 91	Conditional Precip. Type Fcst. (Categorical)	code table	0	0	3
0 60 5	Prob. Of Liquid Equivalent Precip. $\geq$ 0.10 inch during past 12 hours	%	0	0	7
0 60 8	Prob. Of Liquid Equivalent Precip. $\geq$ 0.25 inch during past 12 hours	%	0	0	7
0 60 11	Prob. Of Liquid Equivalent Precip. $\geq$ 0.50 inch during past 12 hours	%	0	0	7
0 60 14	Prob. Of Liquid Equivalent Precip. $\geq$ 1.00 inch during past 12 hours	%	0	0	7
0 60 16	Prob. Of Liquid Equivalent Precip. $\geq$ 2.00 inch during past 12 hours	%	0	0	7
0 4 31	Duration of Time Relating to Following Value	Hour	0	0	8
0 60 90	Quantitative Precipitation Fcst. (Categorical)	Code table	0	0	4
0 4 31	Duration of Time Relating to	Hour	0	0	8

Descriptor	Element Name	Unit	Scale	Ref	Bits
0 60 147	Following Value Conditional Expected Precip Amt.	Kg/m <sup>2</sup>	1	-1	14
0 60 6	Prob. Of Liquid Equivalent Precip. ≥ 0.10 inch during past 24 hours	%	0	0	7
0 60 9	Prob. Of Liquid Equivalent Precip. ≥ 0.25 inch during past 24 hours	%	0	0	7
0 60 12	Prob. Of Liquid Equivalent Precip. ≥ 0.50 inch during past 24 hours	%	0	0	7
0 60 15	Prob. Of Liquid Equivalent Precip. ≥ 1.00 inch during past 24 hours	%	0	0	7
0 60 17	Prob. Of Liquid Equivalent Precip. ≥ 2.00 inch during past 24 hours	%	0	0	7
0 60 146	Prob. Of Liquid Equivalent Precip. ≥ 3.00 inch during past 24 hours	%	0	0	7
0 4 31	Duration of Time Relating to Following Value	Hour	0	0	8
0 60 90	Quantitative Precipitation Fcst. (Categorical)	Code table	0	0	4
0 4 31	Duration of Time Relating to Following Value	Hour	0	0	8
0 60 147	Conditional Expected Precip Amt.	Kg/m <sup>2</sup>	1	-1	14
0 60 144	Prob. Of Snow Amount ≥ 0.10 inches during past 24 hours	%	0	0	7
0 60 31	Prob. Of Snow Amount ≥ 2 inches during past 24 hours	%	0	0	7
0 60 33	Prob. Of Snow Amount ≥ 4 inches during past 24 hours	%	0	0	7
0 60 35	Prob. Of Snow Amount ≥ 6 inches during past 24 hours	%	0	0	7
0 60 145	Prob. Of Snow Amount ≥ 8 inches during past 24 hours	%	0	0	7
0 4 31	Duration of Time Relating to Following Value	Hour	0	0	8
0 60 093	Quantitative Snow Amount Fcst. (Categorical)	Code table	0	0	4