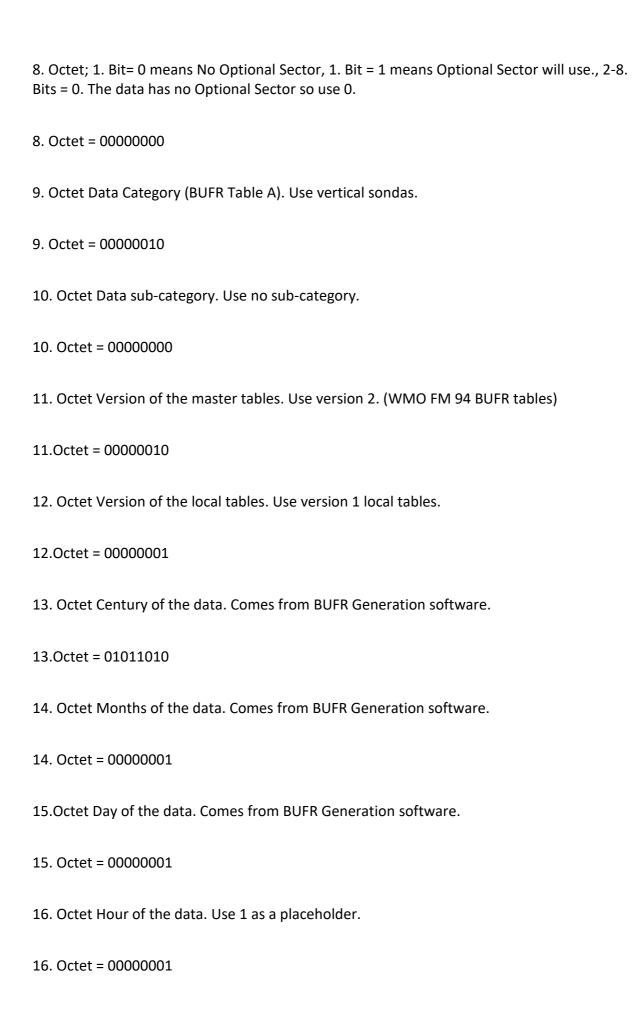
GENERATING BUFR DATA

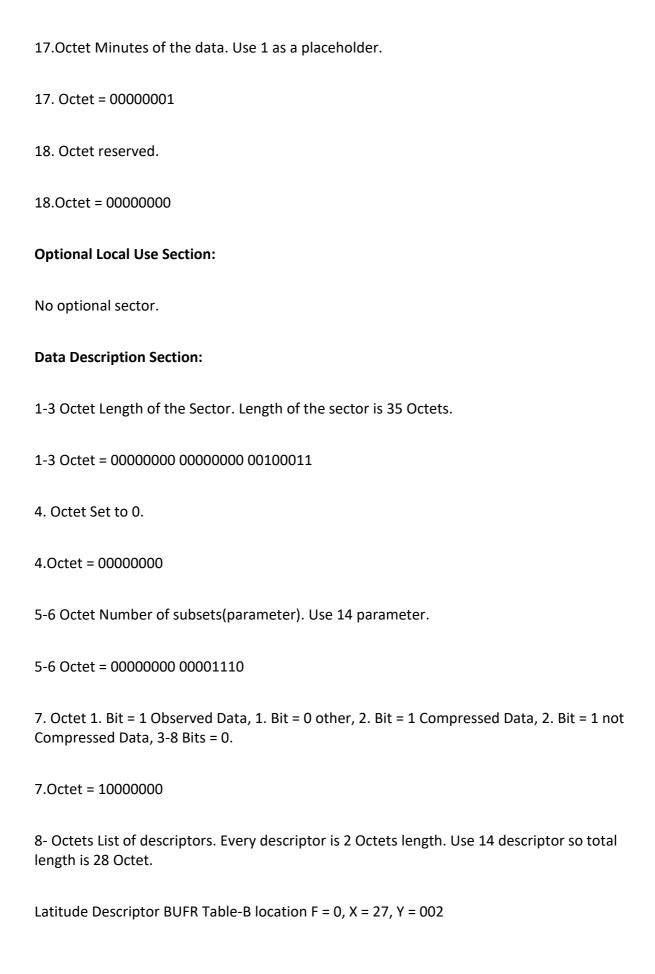
	Inc	licato	r Section
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- 1-4 Octets 'BUFR' in CCITT International Alphabet No. 5 standard.
- 1-4 Octet = 01000010 01010101 01000110 01010010
- 5-7 Octets Total length of message. The length of the data is 95 Octet.
- 5-7 Octet = 0000000 00000000 001011111
- 8. Octet BUFR version. The version of BUFR is 2.
- 8. Octet = 00000010

Identification Section:

- 1-3 Octets The length of the section. The length of the section is 18 Octet.
- 1-3 Octet = 00000000 00000000 00010010
- 4. Octet BUFR master table number. The data is standard, so use 0.
- 4. Octet = 00000000
- 5-6 Octets Origination center of data. Use US Navy FNOC (0 01 031 on BUFR Table) as placeholder.
- 5-6 Octet = 00000000 00111010
- 7. Octet Update sequence number. The data is original so use 0.
- 7. Octet = 00000000





8-9 Octet = 00011011 00000010

Longitude Descriptor BUFR Table-B position F = 0, X = 28, Y = 002

10-11 Octet = 00011100 00000010

Atmosphere Temperature Descriptor BUFR Table-B location F = 0, X = 12, Y = 023

12-13 Octet = 00001100 00010111

Sea Temperature Descriptor BUFR Table-B position F = 0, X = 22, Y = 049 Kelvin

14-15 Octet = 00010110 00110001

Atmosphere Pressure Descriptor BUFR Table-B location F = 0, X = 10, Y = 004 Pa

16-17 Octet = 00001010 00000100

Relative Humidity Descriptor BUFR Table-B location F = 0, X = 13, Y = 003

18-19 Octet = 00001101 00000011

Specific Humidity Descriptor BUFR Table-B location F = 0, X = 13, Y = 001

20-21 Octet = 00001101 00000001

Vapor Pressure Descriptor BUFR Table-B location F = 0, X = 13, Y = 004

22-23 Octet = 00001101 00000100

Wind Speed Descriptor BUFR Table-B location F = 0, X = 11, Y = 002

24-25 Octet = 00001011 00000010

Mean Surface Temperature Descriptor BUFR Table-B location F = 0, X = 12, Y = 052

26-27 Octet = 00001100 00110100

Potential Temperature Descriptor BUFR Table-B location F = 0, X = 012, Y = 001

28-29 Octet = 00000001 00000001

Measurement Height Descriptor BUFR Table-B location F = 0, X = 07, Y = 001

Use same descriptor and same data for other two measurement height parameters.

Data Section:

- 1-3 Octet Length of sector. Length of the sector is 30.
- 1-3 Octet = 00000000 00000000 00011110
- 4. Octet set to 0.
- 4.Octet = 00000000
- 5- Data that specified by Section 3 (Data Description Section). Descriptors Show the resolution and scale factor for data.
- 5-6 Octet, Latitude data is taken from user entrance. Scale = 2, Offset = -9000, data length = 16 bit 2 Octet
- 7-8 Octet, Longitude data is taken from user entrance; Scale = 2, Offset = -9000, data length = 16 bit 2 Octet
- 9. Octet, Atmospheric Temperature data is taken from user entrance; Scale = 0, Offset = -99, data length = 8 bit 1 Octet
- 10-11 Octet, Sea Temperature data is taken from user entrance; Scale = 2, Offset = 0 data length = 16 bit 2 Octet

- 12-13 Octet, Atmospheric Pressure data is taken from user entrance; Scale = -1, Offset = 0 data length = 16 bit 2 Octet
- 14. Octet, Relative Humidity data is taken from user entrance; Scale = 0, Offset = 0 data length = 8 bit 1 Octet
- 15-16 Octet, Specific Humidity data is taken from user entrance; Scale = 5, Offset = 0 data length = 16 bit 2 Octet
- 17-18 Octet, Vapor Pressure data is taken from user entrance; Scale = -1, Offset = 0 data length = 16 bit 2 Octet
- 19-20 Octet, Wind Speed data is taken from user entrance; Scale = 1, Offset = 0 data length = 16 bit 2 Octet
- 21-22 Octet, Mean Surface Temperature data is taken from user entrance; Scale = 1, Offset = 0 data length = 16 bit 2 Octet
- 23-24 Octet, Potential Temperature data is taken from user entrance; Scale = 1, Offset = 0 data length = 16 bit 2 Octet
- 25-26 Octet, Measurement Height data is taken from user entrance; Scale = 0, Offset = 0 data length = 16 bit 2 Octet
- 27-28 Octet, Wind Speed Measurement Height data is taken from user entrance; Scale = 0, Offset = 0 data length = 16 bit 2 Octet
- 29-30 Octet, Relative Humidity Measurement Height data is taken from user entrance; Scale = 0, Offset = 0 data length = 16 bit 2 Octet

End of Message:

- 1-4 Octets "7777" in CCITT International Alphabet No. 5.
- 1-4 Octet = 00110111 00110111 00110111