

**CODE TABLES AND FLAG TABLES ASSOCIATED WITH BUFR/CREX TABLE B****0 02 006*****Data obtained by***

Code figure		Status
0	Measurement	Validation
1	Derivation from other data	Validation
2-6	Reserved	Validation
7	Missing value	Validation

**0 02 008*****Type of offshore platform***

Code figure		Status
0	Fixed platform	Validation
1	Mobile offshore drill ship	Validation
2	Jack-up rig	Validation
3	Semi-submersible platform	Validation
4	FPSO (floating production storage and offloading unit)	Validation
5	Light vessel	Validation
6-14	Reserved	Validation
15	Missing value (or not known)	Validation

**0 02 020*****Satellite classification***

Code figure		Status
20	GPM-core	Formality
92	Sentinel-3	Formality
382	FY-3	Formality

**0 03 001*****Surface station type***

Code figure		Status
0	Land station (synoptic network)	Validation
1	Shallow water station (fixed to sea/lake floor)	Validation
2	Ship	Validation
3	Rig/platform	Validation
4	Moored buoy	Validation
5	Drifting buoy (or drifter)	Validation
6	Ice buoy	Validation
7	Land station (local network)	Validation
8	Land vehicle	Validation
9	Autonomous marine vehicle	Validation
10-14	Reserved	Validation
15	Missing value	Validation

**0 03 002*****Generic type of humidity instrument***

Code figure		Status
0	Psychrometer	Validation
1	Capacitive sensor (unheated)	Validation
2	Capacitive sensor (heated)	Validation
3	Resistive sensor	Validation
4	Ordinary human hair	Validation
5	Rolled hair	Validation
6	Goldbeater's skin	Validation
7	Chilled mirror hygrometer	Validation
8	Dew cell	Validation
9	Optical absorption sensor	Validation
10-14	Reserved	Validation
15	Missing value	Validation

**0 03 003*****Configuration of sensors***

Code figure		Status
0	Solar radiation shield or screen (double v section louvers)	Validation
1	No solar radiation shield or screen	Validation
2	Solar radiation shield or screen (single v section louvers)	Validation
3	Solar radiation shield or screen (overlapping louvers)	Validation
4	Solar radiation shield or screen (non-overlapping louvers)	Validation
5	Solar radiation shield or screen (not louvered)	Validation
6	Integrated e.g. chilled mirror	Validation
7	Missing value	Validation

**0 03 004*****Type of shield or screen***

Code figure		Status
0	Within Stevenson screen (wooden)	Validation
1	Within Stevenson screen (plastic)	Validation
2	Within marine Stevenson screen (wooden)	Validation
3	Within marine Stevenson screen (plastic)	Validation
4	Within cylindrical section plate shield (metal)	Validation
5	Within cylindrical section plate shield (wooden)	Validation
6	Within cylindrical section plate shield (plastic)	Validation
7	Within concentric tube (metal)	Validation
8	Within concentric tube (wooden)	Validation
9	Within concentric tube (plastic)	Validation
10	Within rectangular section shield (metal)	Validation
11	Within rectangular section shield (wooden)	Validation
12	Within rectangular section shield (plastic)	Validation
13	Within rectangular section shield (metal)	Validation
14	Within square section shield (wooden)	Validation

Code figure		Status
15	Within square section shield (plastic)	Validation
16	Within square section shield (metal)	Validation
17	Within triangular section shield (wooden)	Validation
18	Within triangular section shield (plastic)	Validation
19	Within triangular section shield (metal)	Validation
20	Within open covered lean-to (reed/grass/leaf)	Validation
21	Within open covered inverted v roof (reed/grass/leaf)	Validation
22-29	Reserved	Validation
30	Not Applicable, e.g. chilled mirror manufacturers enclosure	Validation
31	Missing value	Validation

**0 03 008*****Artificially ventilated screen or shield***

Code figure		Status
0	Natural ventilation in use	Validation
1	Artificial aspiration in use: constant flow at time of reading	Validation
2	Artificial aspiration in use: variable flow at time of reading	Validation
3-6	Reserved	Validation
7	Missing value	Validation

**0 03 013*****Type of marine thermometer***

Code figure		Status
0	Alcohol thermometer	Validation
1	Dry bulb mercury thermometer	Validation
2	Electric (resistance) thermometer	Validation
3-6	Reserved	Validation
7	Missing value	Validation

**0 03 014*****Type of marine hygrometer***

Code figure		Status
0	Capacitance	Validation
1	Chilled mirror	Validation
2	Electric	Validation
3	Hair hygrometer	Validation
4	Hygristor	Validation
5	Psychrometer	Validation
6	Torsion	Validation
7	Other	Validation
8-14	Reserved	Validation
15	Missing value	Validation

**0 03 015*****Exposure of marine thermometer/hygrometer***

Code figure		Status
0	Aspirated (Assmann type)	Validation
1	Screen (non-ventilated, i.e. natural ventilation)	Validation
2	Screen (ventilated, i.e. assisted ventilation)	Validation
3	Ship's screen (property of the ship)	Validation
4	Ship's sling (property of the ship)	Validation
5	Unscreened	Validation
6	Whirling or sling psychrometer	Validation
7-14	Reserved	Validation
15	Missing value	Validation

**0 08 010*****Surface qualifier (for temperature data)***

Code figure		Status
12	Concrete	Validation
13-30	Reserved	Validation

**0 08 034*****Type of temperature/salinity measurement***

Code figure		Status
0	Un-pumped float temperature and salinity data	Validation
1	Auxiliary STS sensor data	Validation
2-14	Reserved	Validation
15	Missing value	Validation

**0 08 041*****Data significance***

Code figure		Status
14	Expected error	Validation
15	Representative error	Validation

**0 08 087*****Corner position of observation***

Code figure		Status
0	Upper left	Formality
1	Upper right	Formality
2	Lower right	Formality
3	Lower left	Formality
4-6	Reserved	Formality
7	Missing value	Formality

**0 12 134*****Low-level inversion flag***

Code figure		Status
0	No inversion	Validation
1	Inversion	Validation
2	Reserved	Validation
3	Missing value	Validation

**0 20 056**  
**Cloud phase**

Code figure	
5	Supercooled liquid water

Status  
Validation

**0 21 148**  
**Trailing edge variation flag**

Bit No.		Status
1	No short scale variation	Formality
2	Short scale variation	Formality
3-8	Reserved	Formality
All 9	Missing value	Formality

**0 25 112**  
**Band specific altimeter data quality flag**

Bit No.	(0 is good, 1 is bad)	Status
1	Band specific range	Formality
2	Band specific SWH*	Formality
3	Band specific backscatter coefficient	Formality
4	Off nadir angle from band specific waveform parameters	Formality
5	Off nadir angle from platform	Formality
6-8	Reserved	Formality
All 9	Missing value	Formality

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\* SWH = Significant wave height

**0 25 113**  
**Band specific altimeter correction quality flag**

Bit No.	(0 is good, 1 is bad)	Status
1	Band specific range instrumental correction	Formality
2	Band specific SWH* instrumental correction	Formality
3	Band specific backscatter coefficient instrumental correction	Formality
4-8	Reserved	Formality
All 9	Missing value	Formality

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\* SWH = Significant wave height

**0 25 185**  
**Encryption method**

Code figure	Meaning	Status
0	AES 256	Validation
1-254	Reserved	Validation
255	Missing value	Validation