

CODE TABLES AND FLAG TABLES ASSOCIATED WITH BUFR/CREX TABLE B

0 02 139

SIRAL instrument configuration

<i>Code figure</i>	<i>Meaning</i>	<i>Status</i>
0	SIRAL nominal	Validation
1	SIRAL redundant	Validation
2	Missing value	Validation

0 08 010

Surface qualifier (for temperature data)

<i>Code figure</i>	<i>Meaning</i>	<i>Status</i>
12-30	Reserved	Operational
12	Concrete	Validation
13-30	Reserved	Validation

0 08 041

Data significance

<i>Code figure</i>	<i>Meaning</i>	<i>Status</i>
13-30	Reserved	Operational
13	Instrument manufacture date	Validation
14-30	Reserved	Validation

0 08 080

Qualifier for GTSP quality flag

<i>Code figure</i>	<i>Meaning</i>	<i>Status</i>
4-9	Reserved	Operational
4	Total water depth	Validation
5-9	Reserved	Validation
13-19	Reserved	Operational
13	Water depth at a level	Validation
14-19	Reserved	Validation

0 20 137
Evolution of clouds

Code figure		Status
0	No change	Validation
1	Cumulification	Validation
2	Slow elevation	Validation
3	Rapid elevation	Validation
4	Elevation and stratification	Validation
5	Slow lowering	Validation
6	Rapid lowering	Validation
7	Stratification	Validation
8	Stratification and lowering	Validation
9	Rapid change	Validation
10-14	Reserved	Validation
15	Missing value	Validation

0 22 178
XBT/XCTD launcher type

Code figure		Status
0	Unknown	Validation
1	LM-2A Deck-mounted	Validation
2	LM-3A Hand-Held	Validation
3	LM-4A Thru-Hull	Validation
4-9	Reserved	Validation
10	AL-12 TSK Autolauncher (up to 12 Probes)	Validation
11-19	Reserved	Validation
20	SIO XBT Autolauncher (up to 6 probes)	Validation
21-29	Reserved	Validation
30	AOML XBT V6 Autolauncher (up to 6 Deep Blue probes)	Validation
31	AOML XBT V8.0 Autolauncher (up to 8 Deep Blue probes)	Validation
32	AOML XBT V8.1 Autolauncher (up to 8 Deep Blue and Fast Deep probes)	Validation
33-89	Reserved	Validation
90	CSIRO Devil Autolauncher	Validation
91	TURO/CSIRO Quoll Autolauncher	Validation
92-99	Reserved	Validation
100	MFSTEP Autolauncher (Mediterranean)	Validation
101-254	Reserved	Validation
255	Missing	Validation

0 25 181
L2 processing flag

Code figure	Meaning	Status
0	OK	Validation
1	Percentage of L2B records free of processing errors is less than acceptable threshold	Validation
2	Missing value	Validation

0 25 182

L1 processing flag

Code figure	Meaning	Status
0	OK	Validation
1	Percentage of L1B records free of processing errors is less than acceptable threshold	Validation
2	Missing value	Validation

0 25 184

L2 product status

Code figure	Meaning	Status
0	OK	Validation
1	Product as a duration shorter than the input product	Validation
2	Missing value	Validation

0 33 050

Global GTSP quality flag

Code figure	Meaning	Status
9-14	Reserved	Operational
9	Good for operational use; Caution; check literature for other uses	Validation
10-14	Reserved	Validation

0 33 082

Geolocation quality flags

Bit No.	Meaning	Status
1-6	Reserved	Operational
1-5	Reserved	Validation
6	Within south Atlantic anomaly	Validation

0 33 084

Pixel level quality flags

Bit No.	Meaning	Status
1-5	Reserved	Validation
6	Bulk SST outside of validation range	Validation
7	Skin SST outside of validation range	Validation
8	Sensor zenith angle > 40 degrees (pixel is not within 40 degrees of nadir and therefore is not of high quality)	Validation
9	Degradation - horizontal cell size > 1.3 km (HCS > 1.3 km, swath width > 1700 km, sensor zenith angle > 50.3 degrees)	Validation
10	Exclusion: no ocean in pixel	Validation
11	Degradation: Aerosol Optical Thickness (AOT) > 0.6 (AOT in horizontal cell > 0.6 on the slant path (AOT @550 nm))	Validation
12	Exclusion: Aerosol Optical Thickness (AOT) > 1.0 (AOT in horizontal cell > 1.0 on the slant path (AOT @550 nm))	Validation
13	Sun glint present in pixel	Validation
14	Ice concentration threshold exceeded (SST not retrieved due to ice concentration exceeding threshold in system spec)	Validation
15	Thin cirrus detected in pixel	Validation
All 16	Missing value	Validation

0 33 085

Aerosol optical thickness quality flags

Bit No.		Status
1-5	Reserved	Validation
6	Bright surface in horizontal cell (OverLand only); shallow or turbid water in horizontal cell (OverOcean only)	Validation
7	Solar zenith angle > 80 degrees = exclusion (quality of AOT/APSP degraded or AOT/APSP not retrieved due to pixels in horizontal cell with solar zenith angles greater than 80 degrees)	Validation
8	AOT in degraded range: 65 < solar zenith angle <= 80 degrees (quality of AOT/APSP degraded due to pixels in horizontal cell with solar zenith angles greater than 65 but less than or equal to 80 degrees)	Validation
9	Fire present in horizontal cell (quality of AOT/APSP degraded or AOT/APSP not retrieved due to fire in horizontal cell)	Validation
10	Snow/ice present in horizontal cell (quality of AOT/APSP degraded or AOT/APSP not retrieved due to snow/ice in horizontal cell)	Validation
11	Cloud shadow present in horizontal cell (quality of AOT/APSP degraded or AOT/APSP not retrieved due to cloud shadows in horizontal cell)	Validation
12	Sun glint present in horizontal cell (quality of AOT/APSP degraded or AOT/APSP not retrieved due to sun glint in horizontal cell)	Validation
13	Bad SDR data present in horizontal cell (quality of AOT/APSP degraded or AOT/APSP not retrieved due to bad SDR data in horizontal cell)	Validation
14	Thin cirrus present in horizontal cell - cirrus contamination - (quality of AOT/APSP degraded or AOT/APSP not retrieved due to thin cirrus in horizontal cell)	Validation
15	Cloud present in adjacent horizontal cell (quality of AOT/APSP possibly degraded due to adjacent clouds)	Validation
16	Cloud contamination - quality of AOT degraded or AOT not retrieved due to clouds (not including thin cirrus) in horizontal cell)	Validation
17	AOT/APSP is outside of the SystemSpecificationRange (quality of AOT or APSP degraded due to AOT or APSP value being outside of spec (and LUT) range)	Validation
All 18	Missing value	Validation

0 33 086

Quality of pixel level retrieval

Code figure		Status
0	Not retrieved	Validation
1	Excluded	Validation
2	Degraded	Validation
3	High quality	Validation
4-6	Reserved	Validation
7	Missing value	Validation

0 33 087

Extent of satellite within south Atlantic anomaly (based on climatological data)

Code figure		Status
0	Less than or equal to 10%	Validation
1	Greater than 10% but less than or equal to 20%	Validation
2	Greater than 20% but less than or equal to 30%	Validation
3	Greater than 30% but less than or equal to 40%	Validation
4	Greater than 40% but less than or equal to 50%	Validation
5	Greater than 50% but less than or equal to 60%	Validation
6	Greater than 60% but less than or equal to 70%	Validation
7	Greater than 70% but less than or equal to 80%	Validation
8	Greater than 80%	Validation
9-14	Reserved	Validation
15	Missing value	Validation