

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

Code figure		Status
12	Concrete	Validation
13-30	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 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

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Bit No.		Status
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 33 087**

***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