**Add new entries to Table B:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Element name | BUFR | CREX |
| F X Y | Unit | Scale | Ref. value | Data width | Unit | Scale | Data width |
| 0 21 095 | Kp coefficient A | Numeric | 6 | 0 | 20 | Numeric | 6 | 7 |
| 0 21 096 | Kp coefficient B | Numeric | 6 | 0 | 20 | Numeric | 6 | 7 |
| 0 21 097 | Kp coefficient C | Numeric | 6 | 0 | 20 | Numeric | 6 | 7 |
| 0 33 055 | Wind vector quality flag | Flag table | 0 | 0 | 24 | Flag table | 0 | 8 |
| 0 33 056 | Sigma-0 quality flag | Flag table | 0 | 0 | 24 | Flag table | 0 | 8 |

**0-33-055 -Wind vector quality flag**

|  |  |
| --- | --- |
| Bit | DESCRIPTION |
| 1-10 | Reserved |
| 11 | Ocean sigma0 is not available for wind retrievals |
| 12 | Background wind is not available |
| 13 | Background model detect land |
| 14 | Background model detect ice |
| 15 | Sigma0 is not land/ice free |
| 16 | Sigma0 land contamination |
| 17 | Sigma0 ice contamination |
| 18 | Not enough azimuthal diversity |
| 19 | Inversion is not done |
| 20 | Overall WVC flag |
| 21 | Inversion is attempted (flag is set) |
| 22 | Rainflag is attempted (flag is set) |
| 23 | Rain is detected |
| All 24 | Missing value |

**0-33-056 - Sigma-0 quality flag**

|  |  |
| --- | --- |
| Bit | DESCRIPTION |
| 1-7 | Reserved |
| 8 | Ascending |
| 9 | VV polarisation |
| 10 | Fore of spacecraft |
| 11 | Land |
| 12 | Poor sigma0 (summary) |
| 13 | Invalid sigma-0 (summary) |
| 14 | Poor BT |
| 15 | Invalid BT |
| 16 | Land-sea boundary |
| 17 | Negative sigma-0 |
| 18-20 | Reserved |
| 21 | Ice |
| 22 | Missing data at a given latitude-longitude for sea-ice flagging process for 2 or more number of days |
| 23 | Ice-ocean contamination |
| All 24 | Missing value |

**Add new code table entry to existing descriptor 0-02-048 (Satellite sensor indicator):**

 **13 OSCAT2**

**Add new entries to Table D:**

|  |  |  |
| --- | --- | --- |
| **3-12-029** |  | **Scatterometer level 2b data** |
|  | 3-01-046 | Satellite identifier, direction of motion, sensor, model function, software, resolution |
|  | 3-01-011 | Year, month, day |
|  | 3-01-013 | Hour, minute, second |
|  | 3-01-023 | Latitude/longitude (coarse accuracy) |
|  | 0-08-025 | Time difference qualifier |
|  | 2-01-136 | Change data width |
|  | 0-04-006 | Second |
|  | 2-01-000 | Cancel change data width |
|  | 0-05-034 | Along track row number |
|  | 2-01-129 | Change data width |
|  | 0-06-034 | Cross-track cell number |
|  | 2-01-000 | Cancel change data width |
|  | 0-33-055 | Wind vector quality flag |
|  | 0-11-081 | Model wind direction at 10 m |
|  | 0-11-082 | Model wind speed at 10 m |
|  | 0-21-101 | Number of vector ambiguities |
|  | 0-21-102 | Index of selected wind vector |
|  | 0-21-103 | Total number of sigma-0 measurements |
|  | 3-12-032 | SEAWINDS precipitation |
|  | 1-01-004 | Replicate 1 descriptor 4 times |
|  | 3-12-030 | Wind, formal uncertainty, likelihood |
|  | 1-01-002 | Replicate 1 descriptor 2 times |
|  | 3-12-033 | Antenna polarization, brightness temperature |
|  | 0-21-110 | Number of inner-beam sigma-0 (forward of satellite) |
|  | 3-01-023 | Latitude/longitude (coarse accuracy) |
|  | 3-21-028 | Radar specification, SEAWINDS normalized radar cross-section, Kp variance coefficient |
|  | 0-21-111 | Number of outer-beam sigma-0 (forward of satellite) |
|  | 3-01-023 | Latitude/longitude (coarse accuracy) |
|  | 3-21-028 | Radar specification, SEAWINDS normalized radar cross-section, Kp variance coefficient |
|  | 0-21-112 | Number of inner-beam sigma-0 (aft of satellite) |
|  | 3-01-023 | Latitude/longitude (coarse accuracy) |
|  | 3-21-028 | Radar specification, SEAWINDS normalized radar cross-section, Kp variance coefficient |
|  | 0-21-113 | Number of outer-beam sigma-0 (aft of satellite) |
|  | 3-01-023 | Latitude/longitude (coarse accuracy) |
|  | 3-21-028 | Radar specification, SEAWINDS normalized radar cross-section, Kp variance coefficient |

|  |  |  |
| --- | --- | --- |
| **3-12-035** |  | **Scatterometer level 2a data** |
|  | 0-01-007 | Satellite identifier |
|  | 0-01-031 | Identification of originating/generating centre |
|  | 0-02-048 | Satellite sensor indicator |
|  | 2-02-124 | Change scale |
|  | 0-02-026 | Cross-track resolution |
|  | 0-02-027 | Along-track resolution |
|  | 2-02-000 | Cancel change scale |
|  | 0-05-040 | Orbit number |
|  | 0-04-001 | Year |
|  | 0-04-002 | Month |
|  | 0-04-003 | Day |
|  | 0-04-004 | Hour |
|  | 0-04-005 | Minute |
|  | 0-04-006 | Second |
|  | 0-05-002 | Latitude (coarse accuracy) |
|  | 0-06-002 | Longitude (coarse accuracy) |
|  | 0-05-034 | Along track row number |
|  | 0-06-031 | Column number |
|  | 2-01-129 | Change data width |
|  | 0-06-034 | Cross-track cell number |
|  | 2-01-000 | Cancel change data width |
|  | 0-05-021 | Bearing or azimuth |
|  | 0-02-111 | Radar incidence angle |
|  | 0-12-063 | Brightness temperature |
|  | 0-21-095 | Kp coefficient A |
|  | 0-21-096 | Kp coefficient B |
|  | 0-21-097 | Kp coefficient C |
|  | 0-21-030 | Signal to noise ratio |
|  | 0-21-105 | Normalized radar cross-section |
|  | 0-33-056 | Sigma-0 quality flag |