

## AMSR2 Level-2 Product Pixel Data Quality

bit7-4: Error reason, bit3-0: Data status, Value: 8-bit unsigned integer

### Cloud Liquid Water, CLW

| bit7 | bit6 | bit5 | bit4 | bit3 | bit2 | bit1 | bit0 | Value      | Status                                         |
|------|------|------|------|------|------|------|------|------------|------------------------------------------------|
| 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | <b>0</b>   | Clear sky                                      |
| 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | <b>1</b>   | Cloud                                          |
| 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | <b>2</b>   | Light rain                                     |
| 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | <b>3</b>   | Negative CLW                                   |
| 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | <b>16</b>  | Heavy rain                                     |
| 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | <b>32</b>  | Abnormal calculation of TPW                    |
| 0    | 0    | 1    | 1    | 0    | 0    | 0    | 0    | <b>48</b>  | Abnormal calculation of sea surface emissivity |
| 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | <b>64</b>  | Invalid retrieval or RFI                       |
| 0    | 1    | 0    | 1    | 0    | 0    | 0    | 0    | <b>80</b>  | Invalid retrieval of sea ice                   |
| 0    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | <b>96</b>  | Invalid L1                                     |
| 0    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | <b>112</b> | Sea ice                                        |
| 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | <b>128</b> | Land                                           |
| 1    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | <b>144</b> | L1 Land/Ocean Flag Error                       |

\* The values in the table are the values when read as 8-bit unsigned integer.