**Cloud analysis.**

The cloud analysis product (CLA) from METEOSAT 8 uses the following local descriptors:

| Name | Units | Range | Precision | Local descriptor | Reference value | Scale | Width (bits) |
|---|---|---|---|---|---|---|---|
| Number of observations | Numeric | 0 – 99 | ± 1 | 0-08-200 | 0 | 0 | 8 |
| Cloud index | Code table | 0 – 99 | ± 1 | 0-48-004 | 0 | 0 | 8 |
| Cloud phase | Code table | 0 - 3 | ± 1 | 0-46-006 | 0 | 0 | 3 |

The cloud index code table (0-48-004) is as follows:

0 = reserved
1 = 1st low cloud
2 = 2nd low cloud
3 = 3rd low cloud
4 = 1st medium cloud
5 = 2nd medium cloud
6 = 3rd medium cloud
7 = 1st high cloud
8 = 2nd high cloud
9 – 254 = reserved
255 = missing

The cloud phase code table (0-48-006) is as follows:

0 = unknown
1 = water
2 = ice
3 = mixed
4 – 6 = reserved
7 = missing

The WMO Expert Team on Data Representation and Codes has agreed to the following descriptors being used for these parameters, subject to CBS approval, from November 2005:

0-08-200 → 0-08-049
0-48-004 → 0-20-050
0-48-006 → 0-20-056

**Global instability index**

The global instability index (GII) from METEOSAT 8 uses the following local descriptors:

| Name | Units | Range | Precision | Local descriptor | Reference value | Scale | Width (bits) |
|---|---|---|---|---|---|---|---|
| K Index | Kelvin | -20 – 50 | ± 1 | 0-12-197 | -30 | 0 | 8 |
| KO Index | Kelvin | -20 – 20 | ± 1 | 0-12-198 | -30 | 0 | 8 |
| Lifted Index | Kelvin | -20 – 20 | ± 1 | 0-12-199 | -30 | 0 | 8 |
| Maximum buoyancy | Kelvin | -20 – 40 | ± 1 | 0-12-200 | -30 | 0 | 8 |

The WMO Expert Team on Data Representation and Codes has agreed to the following descriptors being used for these parameters, subject to CBS approval, from November 2005:
0-12-197 → 0-13-044
0-12-198 → 0-13-045
0-12-200 → 0-13-046

The local descriptor used for the lifted index will be replaced by the existing standard entry from November 2005 as follows:
0-12-199 → 0-13-042

**Climate data set**

Climate data set products from the earlier METEOSAT satellites have been and continue to be produced, and are archived at EUMETSAT, both in an internal format and in BUFR. In order to encode all of the required parameters, the following addition descriptors are used:

| Name | Units | Range | Precision | Local descriptor | Reference value | Scale | Width (bits) |
|---|---|---|---|---|---|---|---|
| Amount of segment covered by scene | % | 0 – 100 | ± 1 | 0-48-002 | 0 | 0 | 7 |
| Sun-glint indicator | Code table | 0 – 1 | ± 1 | 0-48-003 | 0 | 0 | 2 |
| Semi-transparency indicator | Code table | 0 - 1 | ± 1 | 0-48-005 | 0 | 0 | 2 |
| Sun to satellite azimuth difference | Degrees | -180 – 180 | ± 0.1 | 0-07-193 | -1800 | 1 | 12 |

The sun-glint indicator code table (0-48-003) is as follows:

0 = no sun-glint
1 = sun-glint
2 = reserved
3 = missing

The semi-transparency indicator code table (0-48-005) is as follows:

0 = opaque
1 = semi-transparent
2 = reserved
3 = missing

The WMO Expert Team on Data Representation and Codes has agreed to the following descriptors being used for these parameters, from November 2005:

0-07-193 → 0-05-023
0-48-002 → 0-20-083
0-48-003 → 0-08-065
0-48-005 → 0-08-066