

Possible GOTCHA with wave spectra fields - ecCodes GRIB FAQ



In the wave spectra, all frequency/direction components with values less than some (field-dependent) threshold are set to 'missing' when encoded in GRIB; values larger than this threshold are encoded as log10 of the actual value to an accuracy of 9 bits (bitsPerValue=9).

To interpret these values correctly, the user should do:

```
if (value == missingValue) then
    value = 0.0
else
    value = 10.0**value ! 10 to the power of the value
endif
```

Related articles

- [Keys and their types - ecCodes GRIB FAQ](#)
- [How to install ecCodes with Python bindings in conda - ecCodes FAQ](#)
- [Python3: codes_write error: 'argument must be str, not bytes' - ecCodes FAQ](#)
- [grib_to_ncdf: skips Control Forecast when I convert Ensemble Forecast data - ecCodes GRIB FAQ](#)
- [grib_to_ncdf: Why do I get the error "Wrong number of fields... Try using the -T option" - ecCodes GRIB FAQ](#)