

# 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  $\log_{10}$  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

- [Why are there sometimes small negative precipitation accumulations - ecCodes GRIB FAQ](#)
- [How can I convert a multi-field GRIB file to single-field - ecCodes GRIB FAQ](#)
- [Is ecCodes thread-safe - ecCodes FAQ](#)
- [Keys and their types - ecCodes GRIB FAQ](#)
- [How to install ecCodes with Python bindings in conda - ecCodes FAQ](#)