## EDUCE- flagging report for spectral data from Lisbon, Portugal

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## Measurements details :

Location : Lisbon, Portugal Elevation (m) : 100 Instrument name : Brewer#047 Instrument type : Brewer MKII Wavelength range (nm) : 290-325 Lat, Long : 38.77, -9.15 Date on which data was extracted : 17.10.02(2000, 2001) Date on which data was extracted : 17.10.02(2000, 2001) Date on which slit function was extracted/received : 20.11.02 Years of submitted data : 2 complete No spectra (per year) : <u>2643 (2000), 3617 (2001)</u> No spectra (total submitted) : 6260 Slit width (FWHM) (nm) : 0.66 SHIC version for analysis : 3 093

<u>Special comments</u>: The start irradience flag has many yellow flags for both years. No data for the 1990's submitted to the database at the current time (Jan 2003).

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Operator comments : No comments received from the operator



	Green	Yellow	Red	Black	Grey	Cor.	Green	Yellow	Red	Black	Grey	Cor.	Num
flag	%	%	%	%	%	%							
Shift1_flagging	98.6	0	0	0	1.4	0	2597	0	0	0	38	0	2635
start_irradiance_flag	66.9	32.3	0.7	0.1	0	0	1763	850	19	3	0	0	2635
Spike+local_shape	96.1	2.5	0.8	0.1	0	0.4	2544	66	22	3	0	11	2646

## **Comments :**

Moderate annual coverage (approximately 60%): medium potential for use in climatological studies.

Overall data-quality impression : a very high fraction of potential high quality spectra.

A few black flags occur in some of the chosen flagging categories (with red flags < 1%).

The shift1 flag indicates that the instrument is well calibrated for the UVB region of the spectrum, compared with an extraterrestial spectrum.

11 (0.4%) spectra with spikes are reported.

The distribution of errors is non-uniform throughout the dataset, with the number of yellow flags decreasing after Julian day 310.





	Green	Yellow	Red %	Black	Grey	Cor.	Green	Yellow	Red	Black	Grey	Cor.	Num
flag	70	70	70	70	70	70							
Shift1_flagging*	98.9	0	0	0	1.1	0	4509	0	0	0	48	0	4557
start_irradiance_flag*	70.4	28.4	1	0.1	0	0	3210	1296	46	5	0	0	4557
Spike+local_shape	97.4	1.7	0.5	0	0	0.3	4452	77	25	2	1	15	4572

## **Comments :**

Full annual coverage (approximately 98%): excellent potential for use in climatological studies.

Overall data-quality impression : a very high fraction of potential high quality spectra.

A few black flags occur in some of the chosen flagging categories (with red flags < 1%).

The shift1 flag indicates that the instrument some undefined calibration errors in the UVB region of the spectrum compared to an extra-terrestial solar spectrum.

15 (0.3%) spectra with spikes are reported.

The distribution of errors is non-uniform throughout the year, with more flags occuring during the summer.