

Solar exposure data record format

Current at April 2003

The current format for line 1 of a record:

Column	Field	
A	Radiation Station number SSS	
B	Type of data (1=global, 2=diffuse, 4=direct, 8=horizontal direct, 9=terrestrial [longwave])	
C	Station Name	
D	Latitude - degree component S	
E	Latitude - minute component S	
F	Longitude - degree component E	
G	Longitude - minute component E	
H	Elevation - metres XXXX.X	
I	Year YYYY	
J	Month MM	
K	Day DD	
L	Total Radiation Exposure for Day (for global, diffuse, direct and horizontal direct = joules per square metre i.e. 1 Jm^{-2}) or, Daily Averaged Longwave Irradiance (for terrestrial [longwave] = watts per metre squared i.e. Wm^{-2})	
M	Half-hourly Radiation Exposure, starting at 12am midnight (for global, diffuse, direct, and horizontal direct = Joules per square metre i.e. Jm^{-2}) or, Half-hourly Averaged Longwave Irradiance, starting at 12am midnight (for terrestrial [longwave] = watts per metre squared i.e. Wm^{-2})	
N	as above, starting at 12.30am	
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BH	as above, starting at 11.30pm [48 half-hourly values in total]	

The current format for line 2 of a record:

Column	Field	
A	Radiation Station number SSS	
B	Type of data (1=global, 2=diffuse, 4=direct, 8=horizontal direct, 9=terrestrial [longwave])	
C	Station Name	
D	u	
E-G	blanks	
H	Minute of day when solar noon occurs (1-1440)	
I	Year YYYY	
J	Month MM	
K	Day DD	
L	95% Uncertainty in Total Radiation Exposure for Day (for global, diffuse, direct and horizontal direct = joules per square metre i.e. 1 Jm^{-2}) or, Daily Averaged Longwave Irradiance (for terrestrial [longwave] = watts per metre squared i.e. Wm^{-2})	
M	95% Uncertainty in Half-hourly Radiation Exposure, starting at 12am midnight (for global, diffuse, direct, and horizontal direct = Joules per square metre i.e. Jm^{-2}) or, Half-hourly Averaged Longwave Irradiance, starting at 12am midnight (for terrestrial [longwave] = watts per metre squared i.e. Wm^{-2})	
N	as above, starting at 12.30am	
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.	.	
BH	as above, starting at 11.30pm [48 half-hourly values in total]	