

SOC-100 Data File Example

Below is an example of an SOC-100 HDR polarized ASCII data file in bold text. Comments are given in italicized text.

Header Information

File : SIO203.HDR *Original binary file*
ERAS Number : FS7000 *ERAS number*
Phi_i Orientation : 0.0 *Incident azimuth*
Data Points : 597 *Number of datapoints*
Spectral Range : 2.000 to 25.000 microns *Spectral range of data*
Data Type : Hemispherical Directional Reflectance *Data type*
General Description : Fused Silica *Sample Descriptions*
Detailed Description: 1 inch square by 1mm thick

Average Polarization *Polarization state of following data table*

Lambda (microns)	300K	300K	300K	300K	300K	300K	300K	300K	300K	<-Temperature	<-Incident Angle
	20.0	30.0	40.0	50.0	60.0	70.0	75.0	80.0			
2.003	6.3	6.5	7.1	8.3	11.6	20.4	30.5	39.8			
2.006	6.3	6.5	7.1	8.3	11.6	20.6	30.2	39.9			
2.009	6.4	6.5	7.1	8.3	11.7	20.7	29.9	40.5			
2.012	6.5	6.5	7.1	8.4	11.6	20.5	29.9	41.3			
2.016	6.5	6.5	7.1	8.4	11.7	20.5	30.1	41.6			
2.019	6.5	6.5	7.1	8.4	11.8	20.5	30.1	41.2			
2.022	6.5	6.5	7.1	8.5	11.7	20.4	30.0	40.6			

... Data abbreviated for this example

Perpendicular Polarization *Polarization state of following data table*

Lambda microns)	300K	300K	300K	300K	300K	300K	300K	300K	300K	<-Temperature	<-Incident Angle
	20.0	30.0	40.0	50.0	60.0	70.0	75.0	80.0			
2.003	7.6	8.6	10.7	14.0	20.1	31.6	43.6	55.8			
2.006	7.5	8.5	10.7	14.1	20.0	31.8	43.2	56.3			
2.009	7.6	8.6	10.7	14.2	20.1	31.9	42.9	56.9			
2.012	7.7	8.7	10.7	14.2	20.1	31.7	42.9	57.4			
2.016	7.7	8.7	10.7	14.3	20.3	31.5	43.1	57.2			
2.019	7.7	8.7	10.7	14.3	20.4	31.7	43.1	57.5			
2.022	7.7	8.6	10.7	14.4	20.3	31.8	43.1	57.2			

... Data abbreviated for this example

Parallel Polarization *Polarization state of following data table*

Lambda (microns)	300K	300K	300K	300K	300K	300K	300K	300K	300K	<-Temperature	<-Incident Angle
	20.0	30.0	40.0	50.0	60.0	70.0	75.0	80.0			
2.003	5.1	4.5	3.5	2.6	3.1	9.1	17.4	23.8			
2.006	5.0	4.5	3.6	2.5	3.3	9.5	17.2	23.6			
2.009	5.1	4.4	3.6	2.4	3.3	9.6	17.0	24.1			

2.012	5.3	4.4	3.5	2.5	3.1	9.4	16.9	25.3
2.016	5.3	4.3	3.5	2.5	3.1	9.4	17.1	25.9
2.019	5.2	4.3	3.5	2.4	3.2	9.3	17.0	24.9
2.022	5.2	4.4	3.5	2.6	3.1	9.0	16.9	24.0

... .. *Data abbreviated for this example*