

Data structure and information

Spectral scans in units of photons $\text{sr}^{-1} \text{cm}^{-2} \text{nm}^{-1} \text{s}^{-1}$ and photons $\text{deg}^2 \text{s}^{-1}$ are provided as Matlab structures that can be accessed with the Matlab load command. File names refer to data of recording (e.g. 121097: 12 October 1997) and radiance units (e.g. photonsSquareDegSecond: photons $\text{deg}^2 \text{s}^{-1}$).

Scans121097-photonsSquareDegSecond.mat:

9 spectral bands, 512 vertical spatial bands, vertical FOV: 37.8°

'FILE5-121097-DDSPAT-HEN.PIX.envi.dat'	Horizontal Polarizer, Compass direction North-East
'FILE5-121097-DDSPAT-HEN.PIX.envi.dat'	Horizontal Polarizer, Compass direction North-East
'FILE6-121097-DDSPAT-30NE.PIX.dat'	30° Polarizer, Compass direction North-East
'FILE6-121097-DDSPAT-30NE.PIX.dat'	30° Polarizer, Compass direction North-East
'FILE7-121097-DDSPAT-60EN.PIX.dat'	60° Polarizer, Compass direction North-East
'FILE7-121097-DDSPAT-60EN.PIX.dat'	60° Polarizer, Compass direction North-East
'FILE8-121097-DDSPAT-VNE.PIX.dat'	Vertical Polarizer, Compass direction North-East
'FILE8-121097-DDSPAT-VNE.PIX.dat'	Vertical Polarizer, Compass direction North-East

72 spectral bands, 40 vertical spatial bands, vertical FOV: 37.8°

'FILE10-121097-DDSPEC-HEN.PIX.dat'	Horizontal Polarizer, Compass direction North-East
'FILE11-121097-DDSPEC-30NE.PIX.dat'	30° Polarizer, Compass direction North-East
'FILE12-121097-DDSPEC-60EN.PIX.dat'	60° Polarizer, Compass direction North-East
'FILE13-121097-DDSPEC-VNE.PIX.dat'	Vertical Polarizer, Compass direction North-East
'FILE20-121097-SDSPEC-HEN.PIX.dat'	Horizontal Polarizer, Compass direction North-East
'FILE21-121097-SDSPEC-30NE.PIX.dat'	30° Polarizer, Compass direction North-East
'FILE22-121097-SDSPEC-60EN.PIX.dat'	60° Polarizer, Compass direction North-East
'FILE23-121097-SDSPEC-VNE.PIX.dat'	Vertical Polarizer, Compass direction North-East

Scans131097-photonsSquareDegSecond.mat:

31 spectral bands, 512 vertical spatial bands, vertical FOV: 37.8°

'FILE5-131097-DDSPAT-HEN.dat'	Horizontal Polarizer, Compass direction North-East
'FILE6-131097-DDSPAT-30NE.dat'	30° Polarizer, Compass direction North-East
'FILE7-131097-DDSPAT-60EN.PIX.dat'	60° Polarizer, Compass direction North-East
'FILE8-131097-DDSPAT-VNE.PIX.dat'	Vertical Polarizer, Compass direction North-East

Scans141097-photonsSquareDegSecond.mat:

144 spectral bands, 40 vertical spatial bands, vertical FOV: 37.8°

'FILE6-141097-DDSPEC-HNE.PIX.dat'	Horizontal Polarizer, Compass direction North-East
'FILE7-141097-DDSPEC-VEN.PIX.dat'	Vertical Polarizer, Compass direction North-East
'FILE8-141097-DDSPEC-30NE.PIX.dat'	30° Polarizer, Compass direction North-East
'FILE9-141097-DDSPEC-60EN.PIX.dat'	60° Polarizer, Compass direction North-East
'file14-141097-ddspec-HSW.pix.dat'	Horizontal Polarizer, Compass direction South-West
'file15-141097-ddspec-VWS.pix.dat'	Vertical Polarizer, Compass direction South-West

72 spectral bands, 40 vertical spatial bands, vertical FOV: 37.8°

'file16-141097-ddspec-HSW.pix.dat'	Horizontal Polarizer, Compass direction South-West
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Scans151097-photonsSquareDegSecond.mat
48 spectral bands, 512 vertical spatial bands, vertical FOV: 37.8°

'file4-151097HSWconv.dat'	Horizontal Polarizer, Compass direction South-West
'file5-151097VSWconv.dat'	Vertical Polarizer, Compass direction South-West
'file9-151097HNEconv.dat'	Horizontal Polarizer, Compass direction North-East
'file10-151097VNEconv.dat'	Vertical Polarizer, Compass direction North-East

Scans161097-photonsSquareDegSecond.mat
72 spectral bands, 302 vertical spatial bands, vertical FOV: 37.8°

'file7-161097-ddspec-VSW.dat'	Vertical Polarizer, Compass direction South-West
'file8-161097-ddspec-HWS.dat'	Horizontal Polarizer, Compass direction South-West
'file11-161097-ddspec-HEN.dat'	Horizontal Polarizer, Compass direction North-East
'file12-161097-ddspec-VNE.dat'	Vertical Polarizer, Compass direction North-East

48 spectral bands, 512 vertical spatial bands, vertical FOV: 37.8°

'file13-161097-ddspec-VEN.dat'	Vertical Polarizer, Compass direction North-East
'file17-161097HNEconv.dat'	Horizontal Polarizer, Compass direction North-East
'file18-161097HNEconv.dat'	Horizontal Polarizer, Compass direction North-East
'file19-161097HNEconv.dat'	Horizontal Polarizer, Compass direction North-East

Scans160999-photonsSquareDegSecond.mat
37 spectral bands, 512 vertical spatial bands, vertical FOV: 80.87°, Mangrove Scene

'FOV80_160999_f12_SWN.env.dat'

Scans230999-photonsSquareDegSecond.mat
48 spectral bands, 512 vertical spatial bands, vertical FOV: 80.87°, No polarizer

'FOV80_230999_f1_WNE.env.dat'	North-East
'FOV80_230999_f2_Syt.env.dat'	Imager still, temporal scan
'FOV80_230999_f3_WNES.env.dat'	North-East
'FOV80_230999_f5_WNES.env.dat'	North-East
'FOV80_230999_f6_ENyt.env.dat'	Imager still, temporal scan
'FOV80_230999_f7_NEyt.env.dat'	Imager still, temporal scan
'FOV80_230999_f8_ESWN.env.dat'	South-West
'FOV80_230999_f9_ESWN.env.dat'	South-West

Scans230999-photonsSquareDegSecond-b
48 spectral bands, 512 vertical spatial bands, vertical FOV: 80.87°, No polarizer

'FOV80_230999_f10_SEyt.env.dat'	Imager still, temporal scan
'FOV80_230999_p1_ESWN.env.dat'	South-West
'FOV80_230999_p2_ESWN.env.dat'	South-West
'FOV80_230999_p4_WNES.env.dat'	North-East
'FOV80_230999_p5_ENyt.env.dat'	Imager still, temporal scan
'FOV80_230999_p6_ENyt.env.dat'	Imager still, temporal scan
'FOV80_230999_p8_WNES.env.dat'	North-East
'FOV80_230999_p10UV_WNES.env.dat'	wavelengths [383.9,398.7,413.5,428.4,443.2]nm