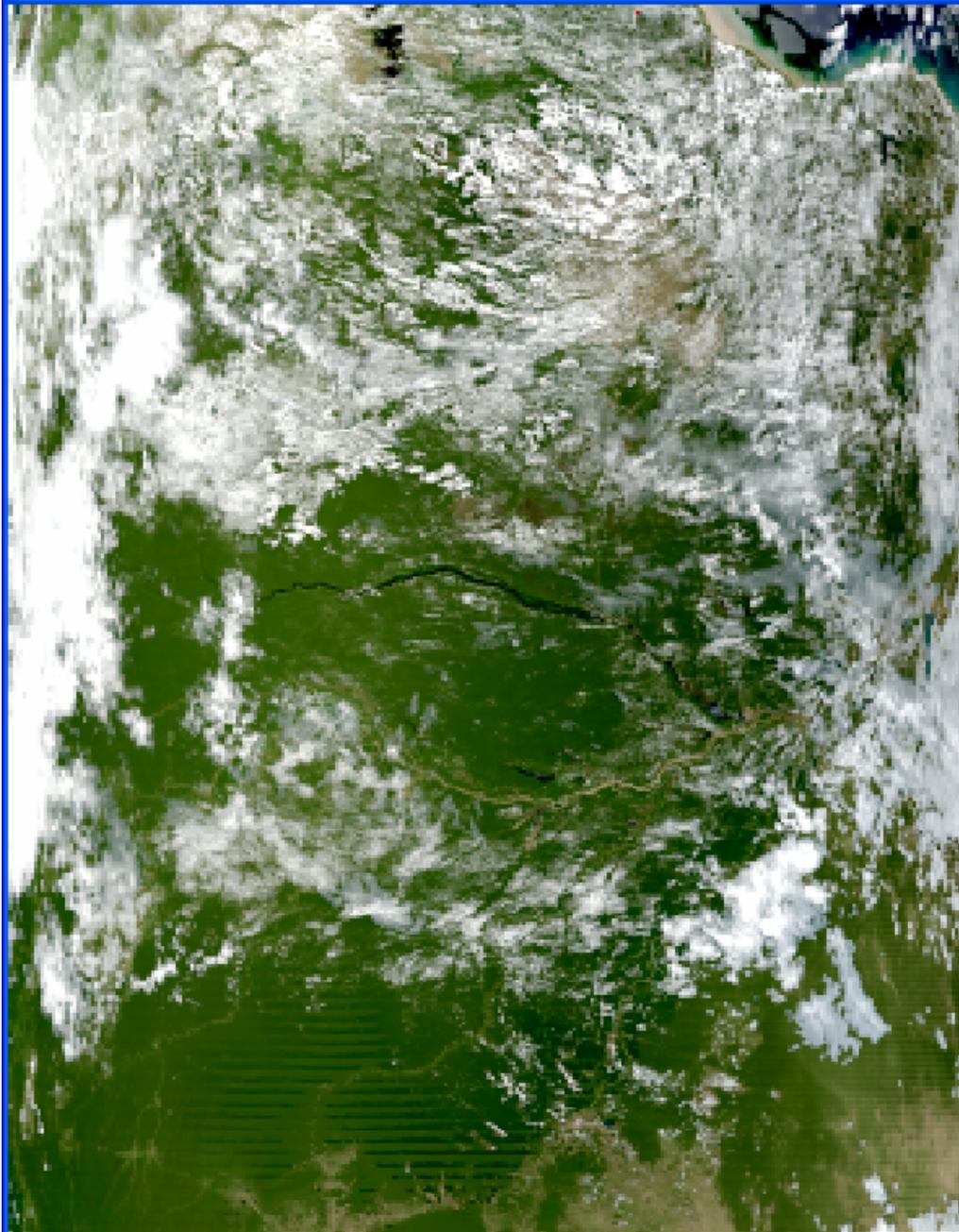
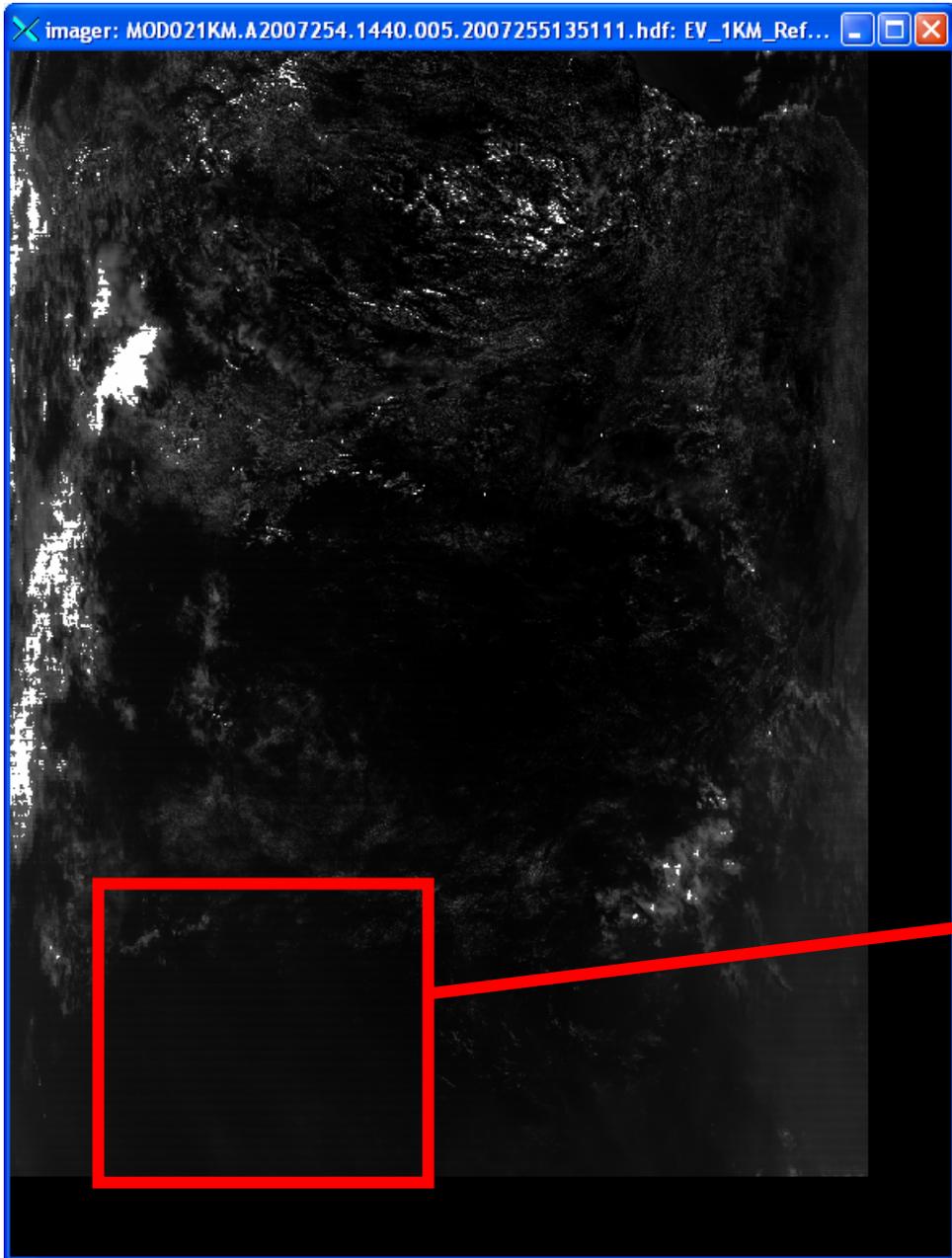


Polarization effect at 412nm
depending on mirror side for
Terra (band 8)

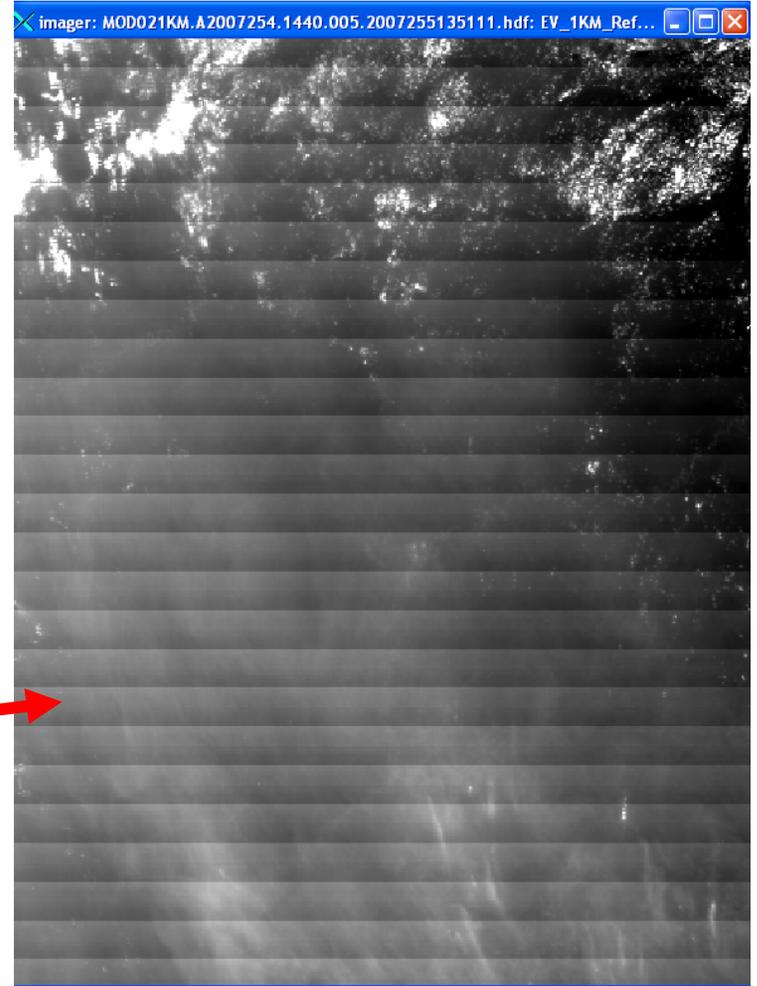
Eric Vermote



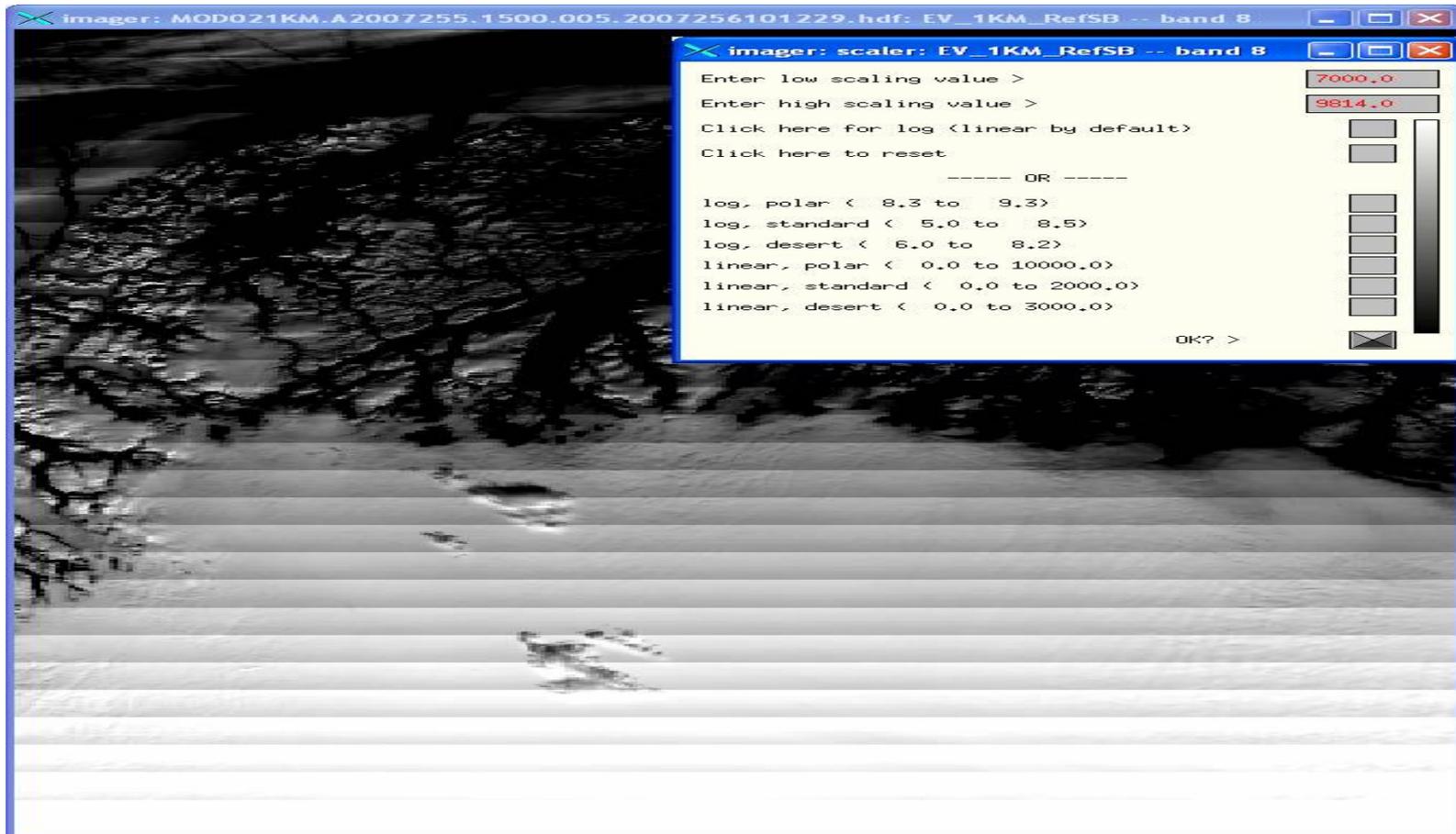
- Pbs detected over the rain forest at high aerosol level (between 0.8-1.2): band 8 noise make the aerosol model switch to high to low absorption



Band 8/ Band 8 details



Mirror side effect in Terra band 8 despite mirror side equalization also visible over snow/ice target (polar zone)



This is not apparent on Aqua data

The screenshot shows the 'imager' software interface. The main window displays a satellite image of a coastline. A dialog box titled 'imager: scaler: EV_1KM_RefSB -- band 8' is open, showing scaling options. The dialog includes input fields for 'low scaling value' (10000.0) and 'high scaling value' (13818.0), and several radio buttons for different scaling methods: log (polar, standard, desert), linear (polar, standard, desert), and an 'OK?' button.

current resolution 1 -->

imager: MYD021KM.A2007255.1205.005.2007257194137.hdf: EV_1KM_RefSB -- band 8

imager: scaler: EV_1KM_RefSB -- band 8

Enter low scaling value > 10000.0

Enter high scaling value > 13818.0

Click here for log (linear by default)

Click here to reset

----- OR -----

log, polar (8.3 to 9.3)

log, standard (5.0 to 8.5)

log, desert (6.0 to 8.2)

linear, polar (0.0 to 10000.0)

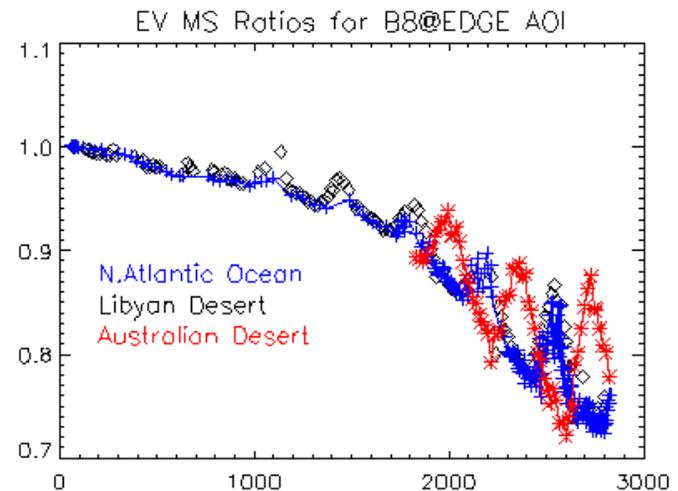
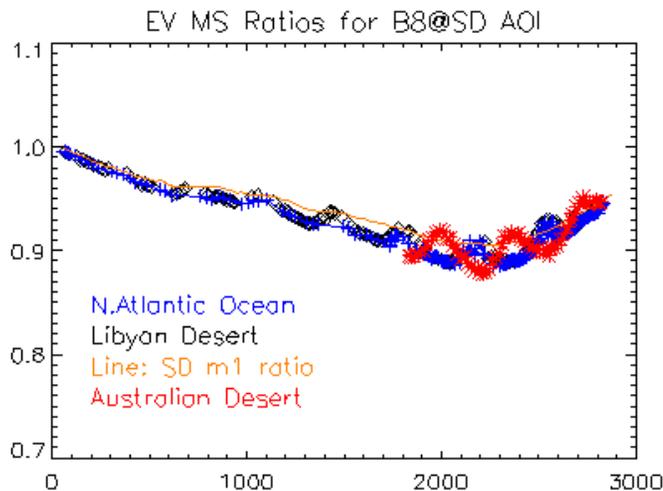
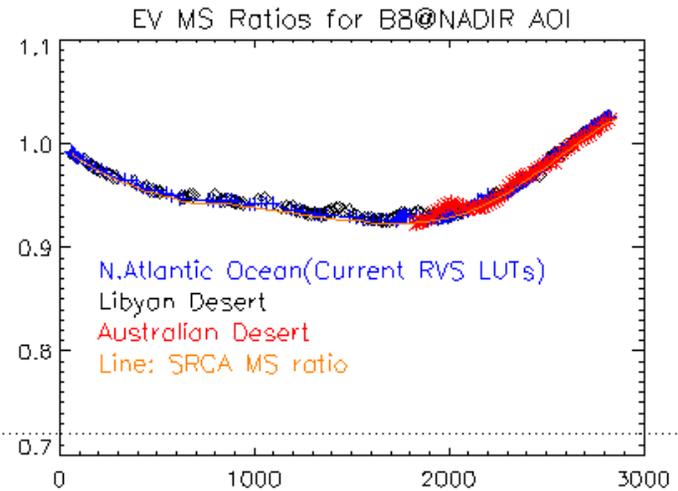
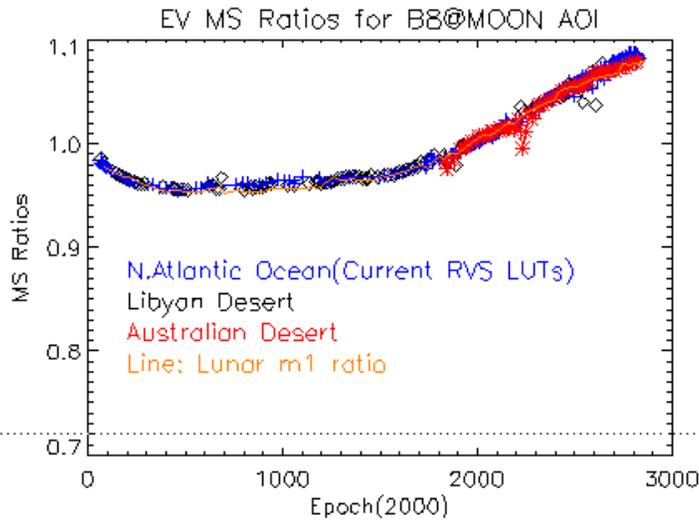
linear, standard (0.0 to 2000.0)

linear, desert (0.0 to 3000.0)

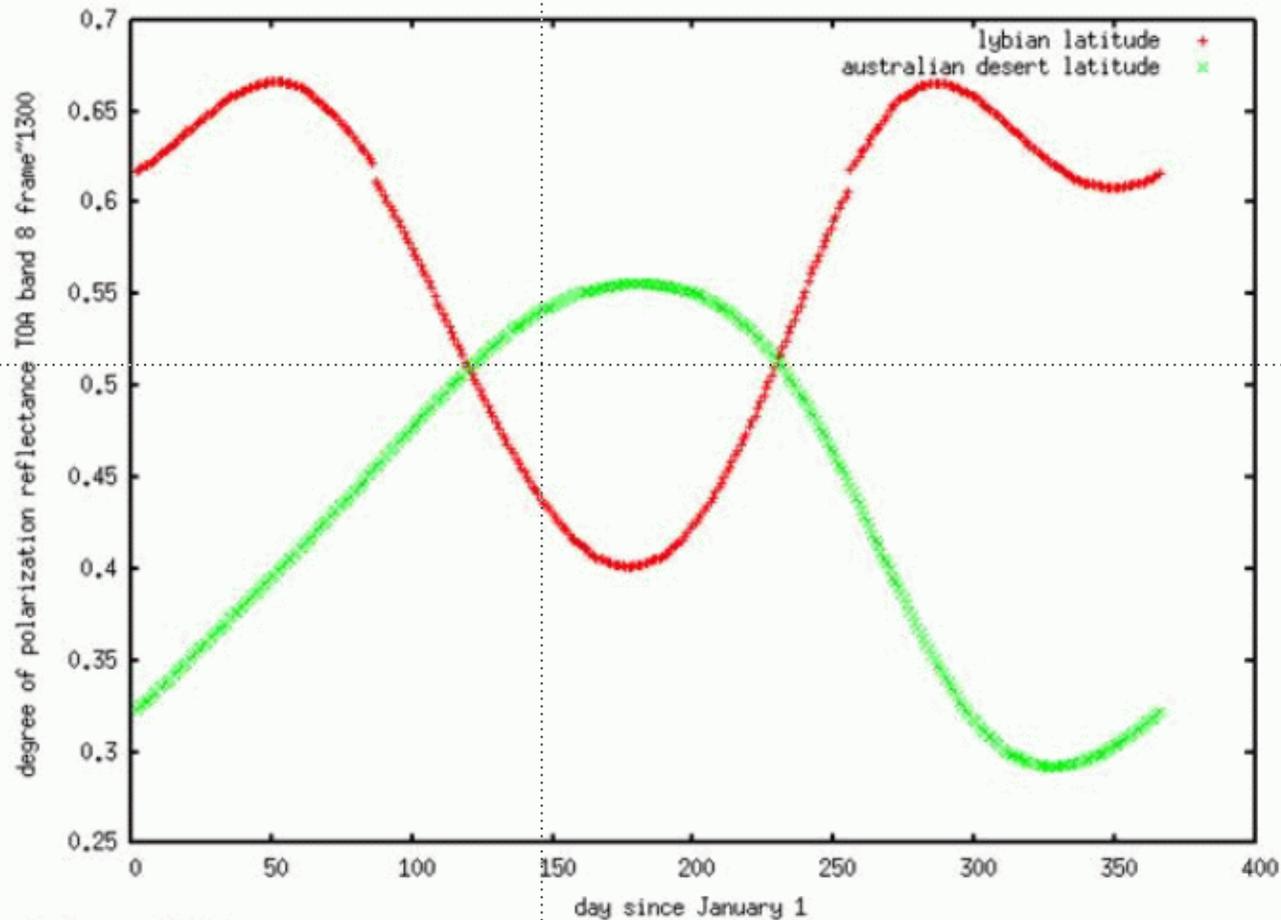
OK? >

```
Indexes -- band 12 3
Indexes -- band 13 1
Indexes -- band 14 4
Indexes -- band 15 15
band 20 315
band 21 251
band 22 336
band 23 326
band 24 313
band 25 369
band 27 113
band 28 119
band 29 825
band 30 869
band 31 823
band 32 915
band 33 157
band 34 180
band 35 187
band 36 233
Indexes -- band 1 3
Indexes -- band 2 7
Indexes -- band 3 2
Indexes -- band 4 2
```

Terra Mirror side ratio is dependent on AOI (fine) but Australian and Lybian desert give different ratio at EDGE AOI



Polarization simulation over desert sites may explain the previous results: The polarization over Lybia and Australia are out of phase



268.104. 0.734163