

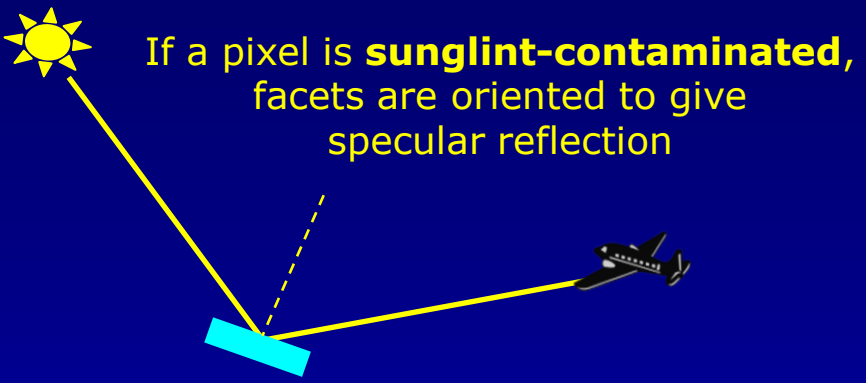


Ocean Surface Refractive Index retrieval

PI: Ottaviani

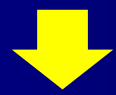
Co-I: Chowdhary

Collaborators: Martins, Hasekamp, Wasilewski



Research Scanning Polarimeter heritage:

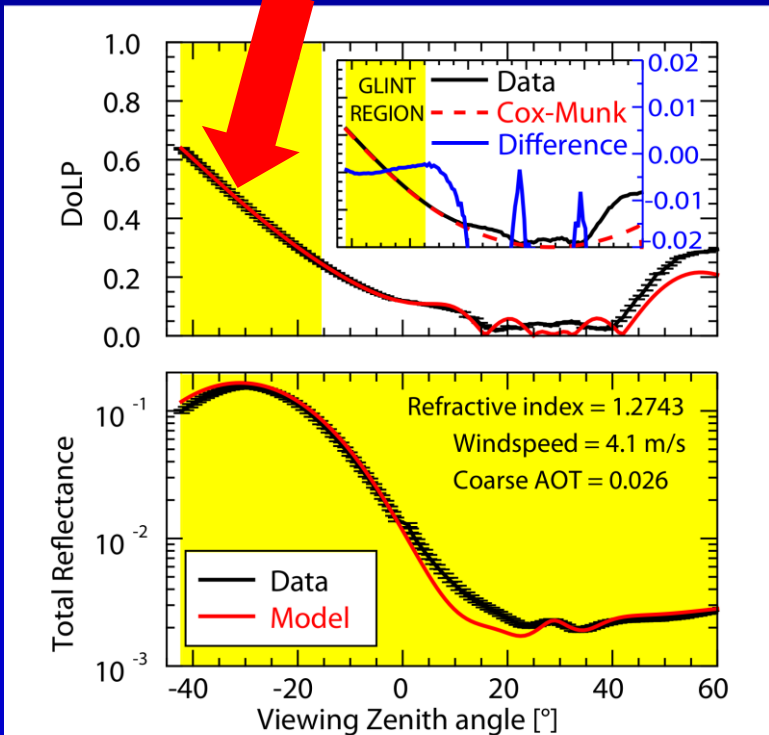
High accuracy DoLP measurements ($\geq 0.2\%$)
 +
 minimal aerosol interference at 2264 nm



Extend the method to HARP2 870nm channel (+ SPEXOne)

Fresnel laws: if geometry is known, DoLP is only a function of surface refractive index

Inversion algorithm



Deepwater horizon oil spill

