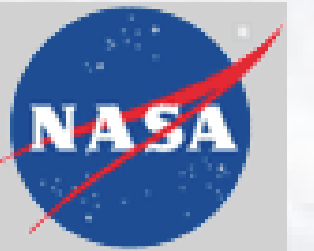# Aerosol Remote Sensing in the Vicinity of Clouds

J. Redemann[1], Q. Zhang[1], P. Russell[2], B. Schmid[3]   [1]BAER Institute, [2]NASA Ames, [3]PNNL
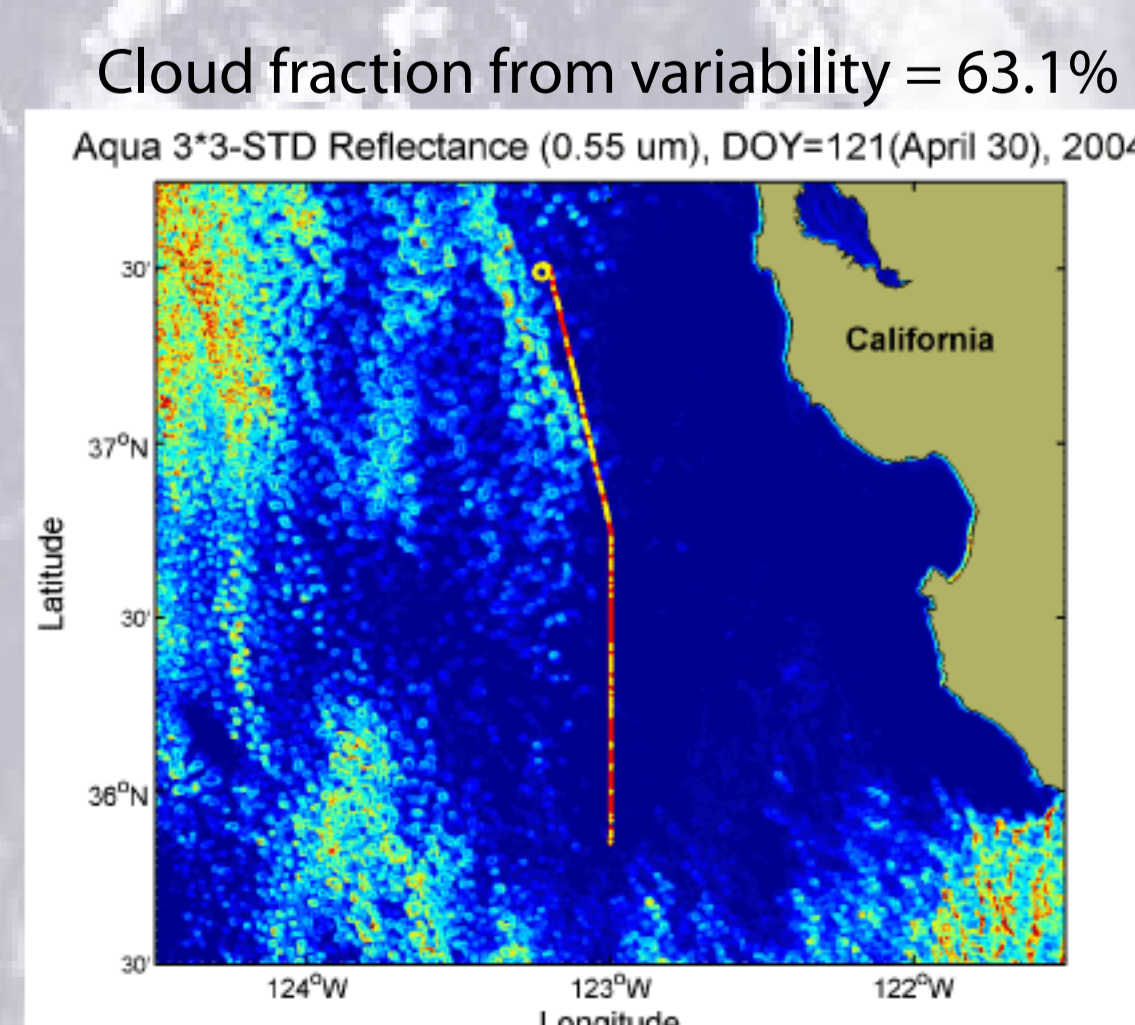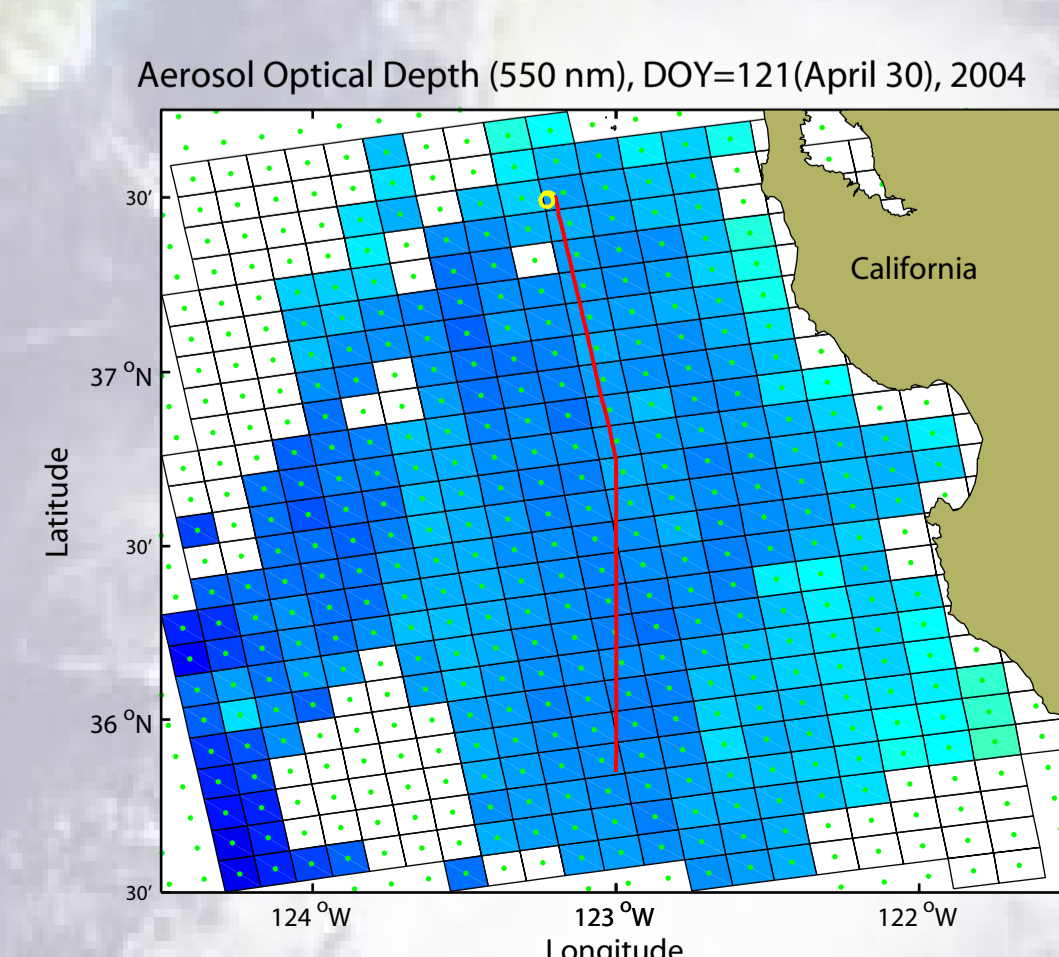
bay area environmental research institute

Contact information:
Jens Redemann - jredemann@mail.arc.nasa.gov
Ph.:(805) 658-2637

1-3-4 true color

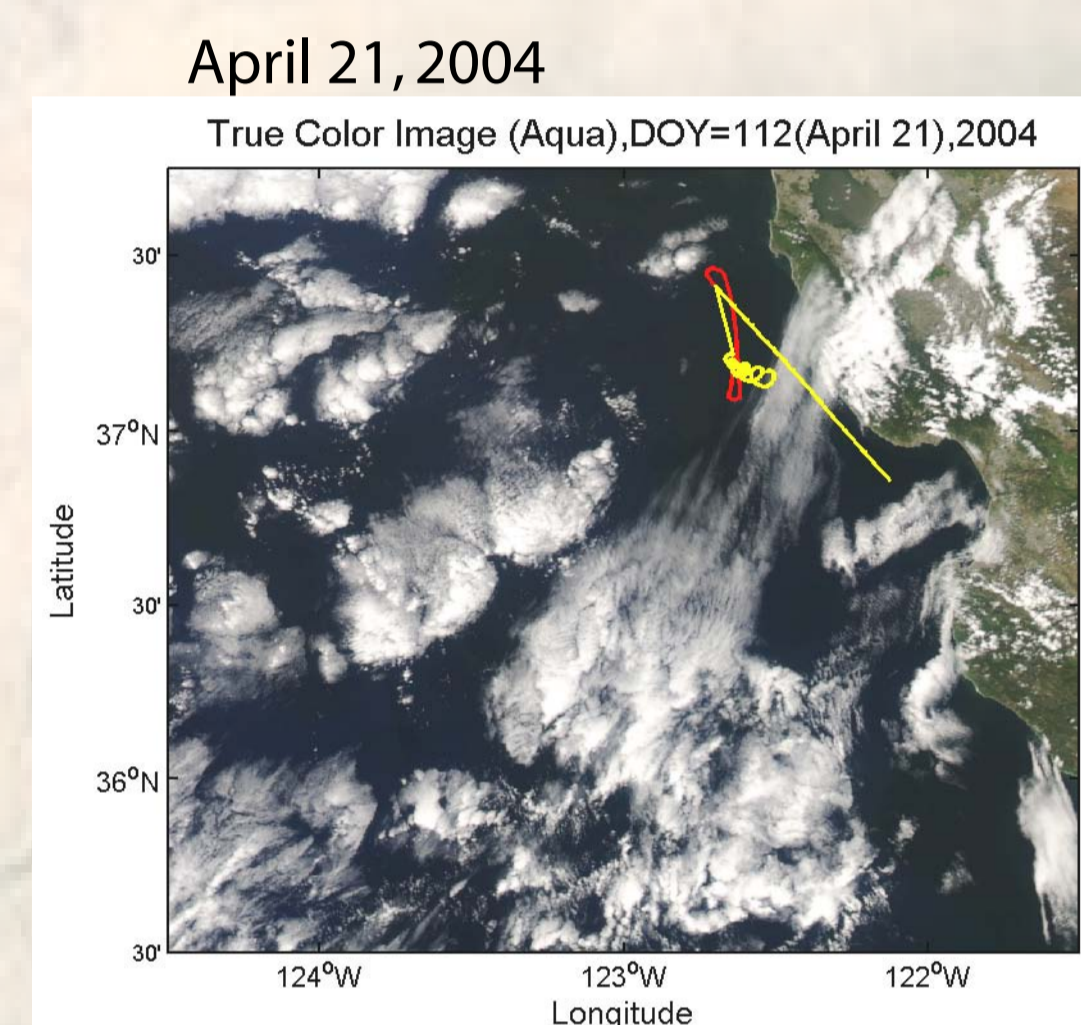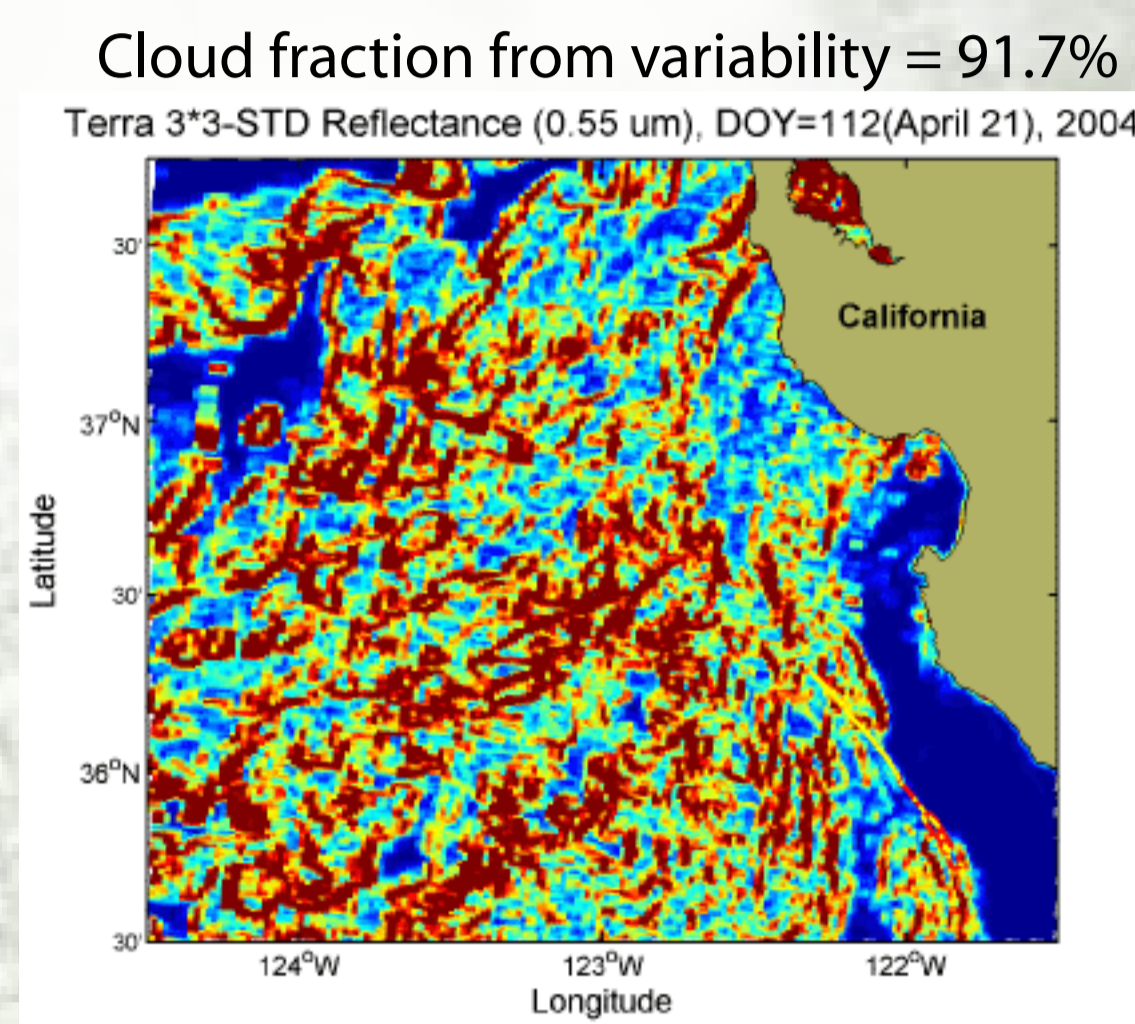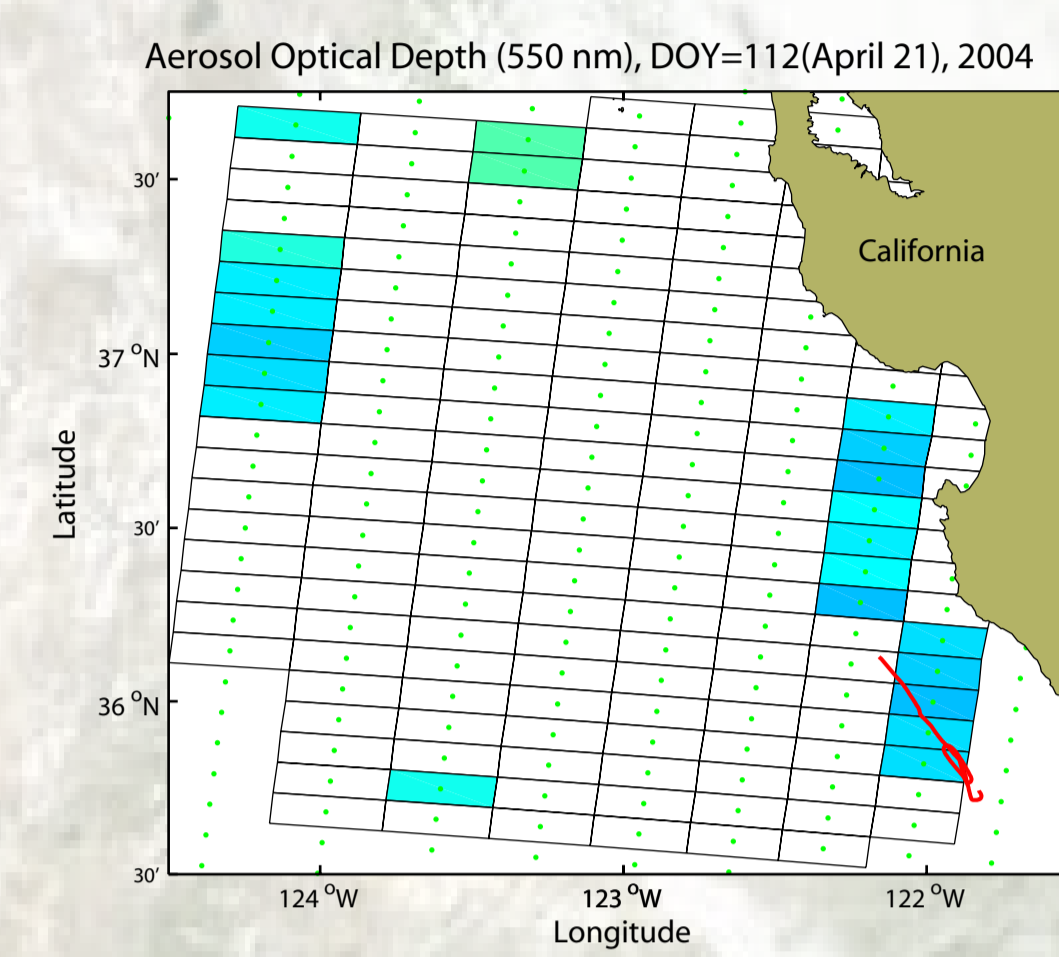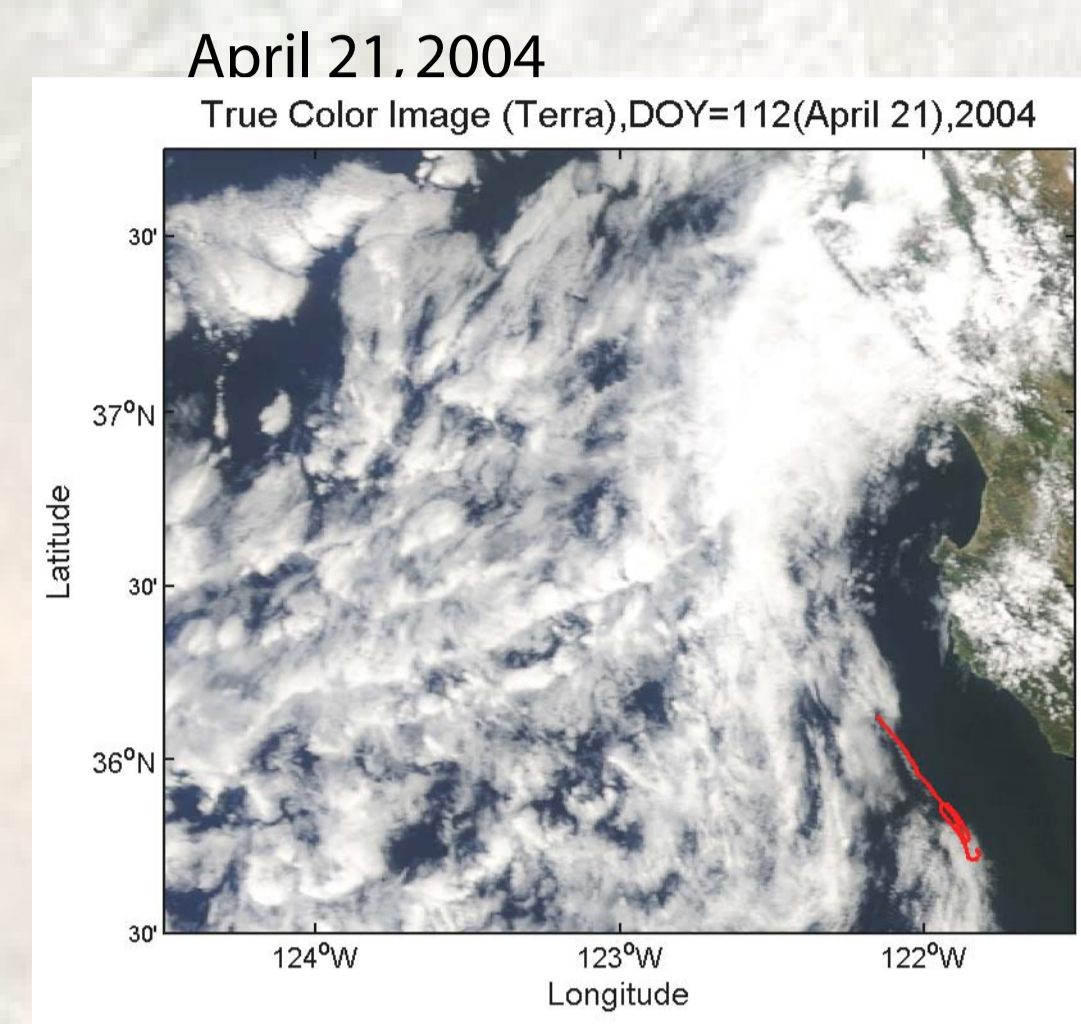AOD (550 nm)

std(3x3 reflectance)

April 21, 2004
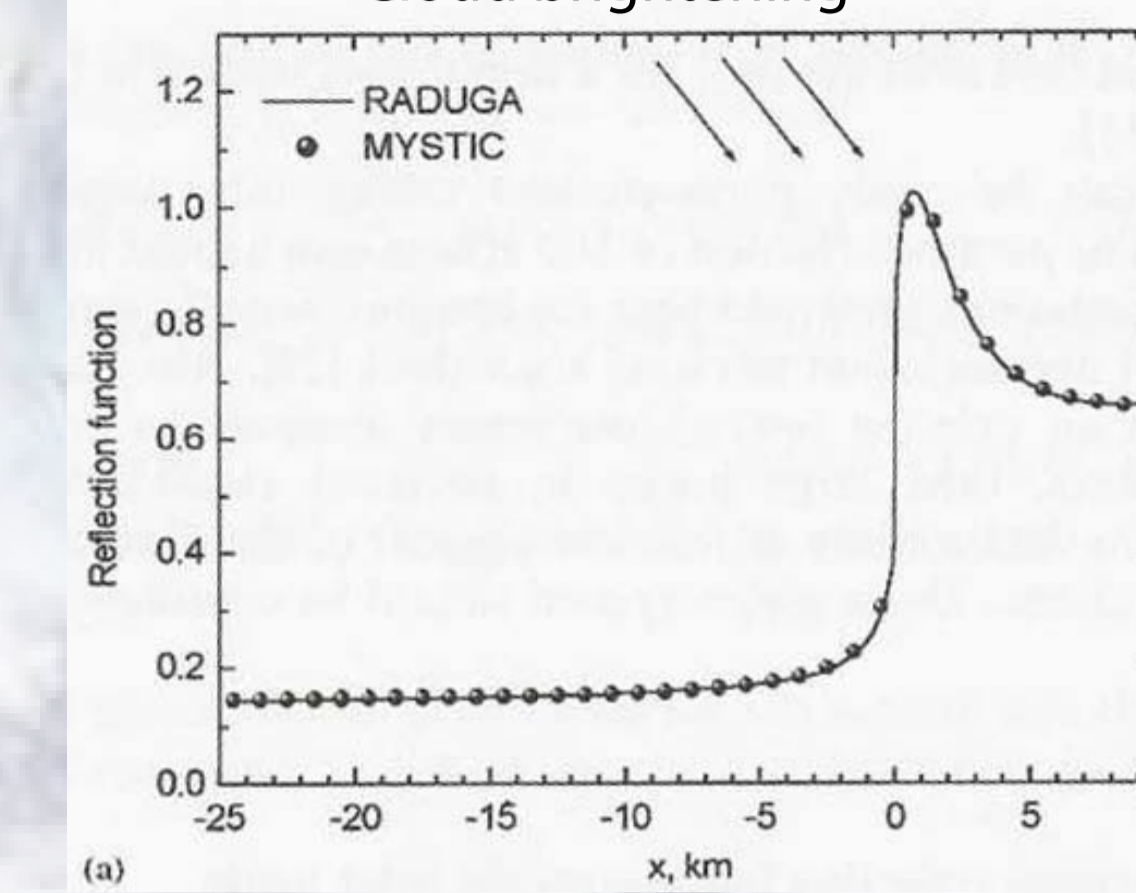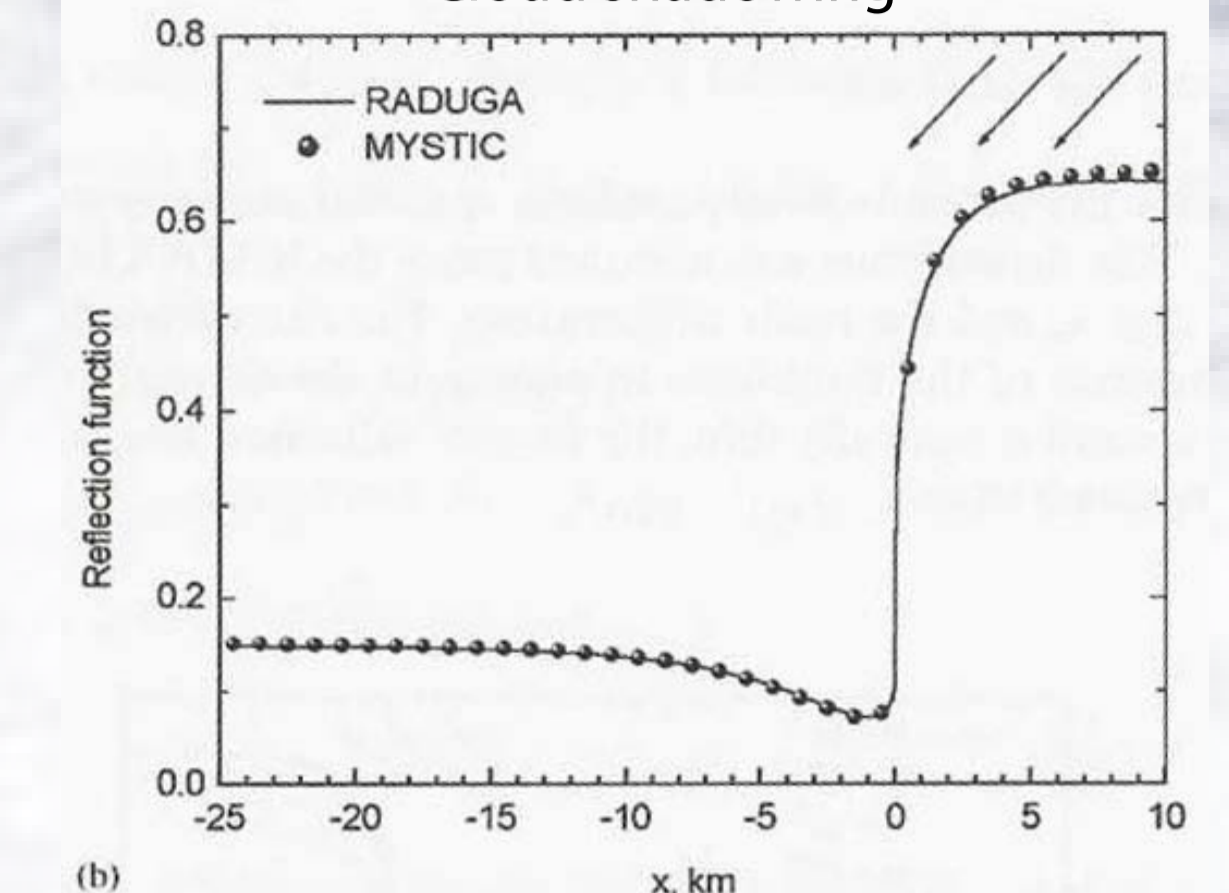
April 21, 2004

April 26, 2004

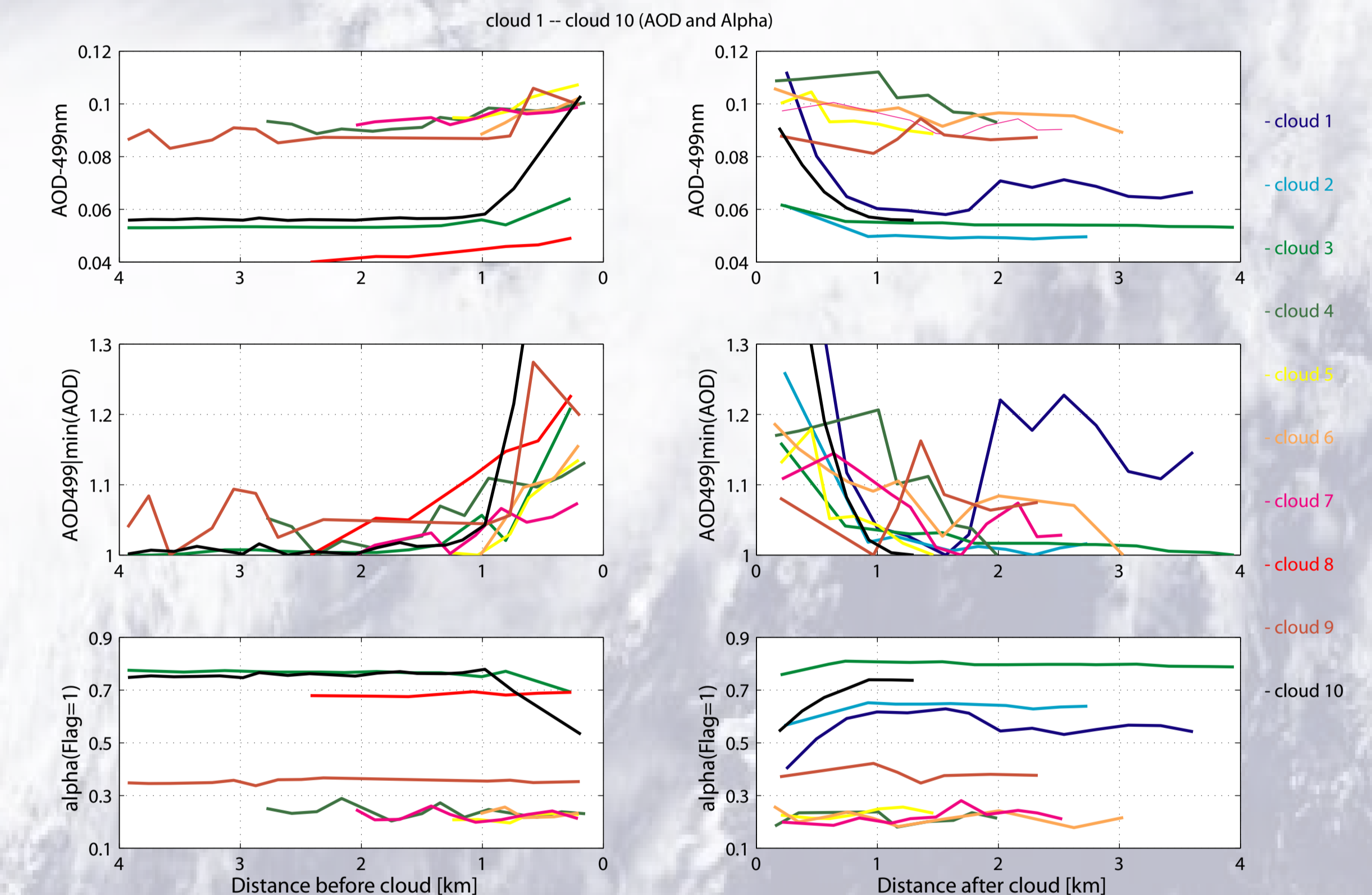April 26, 2004
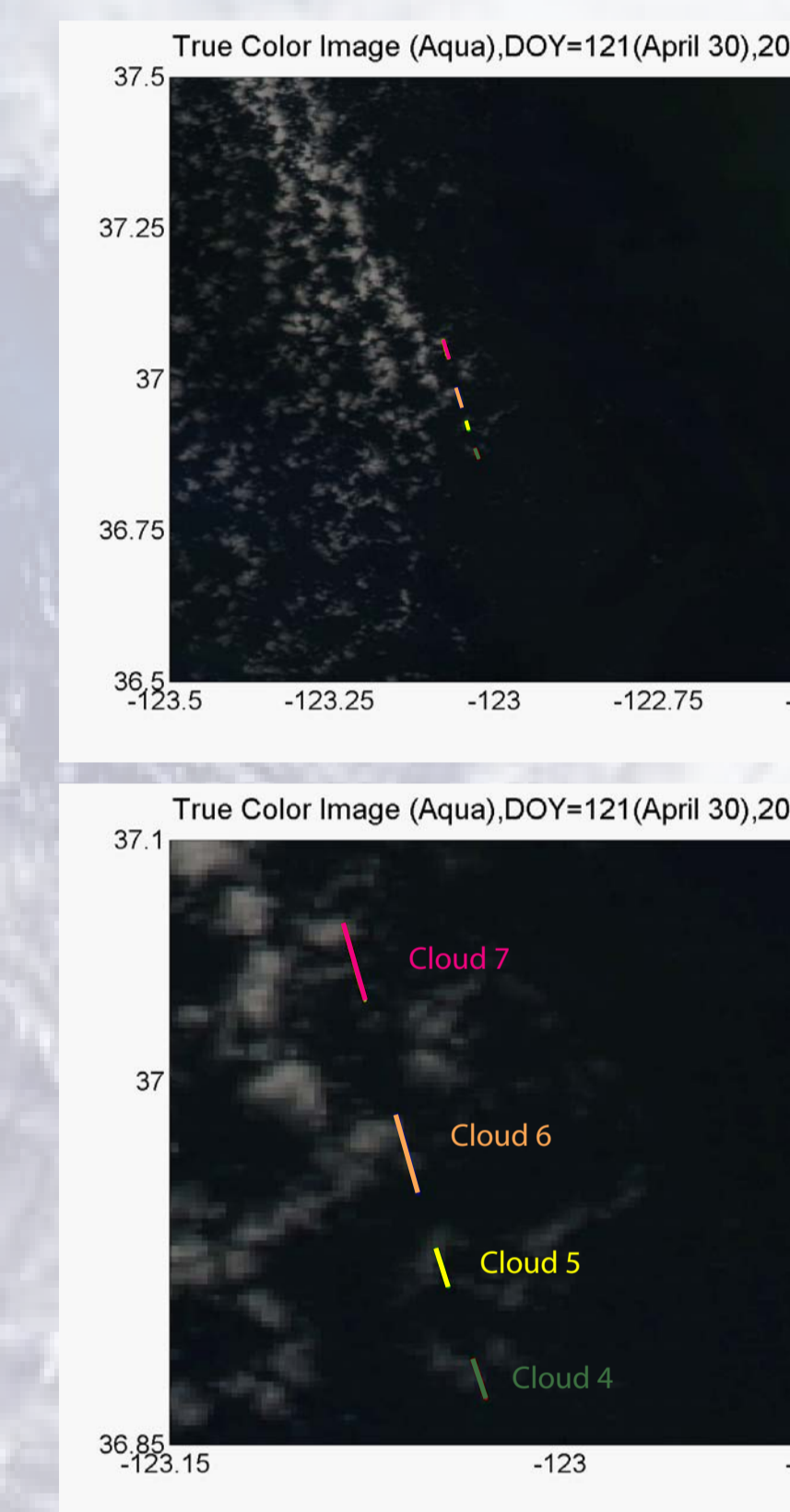
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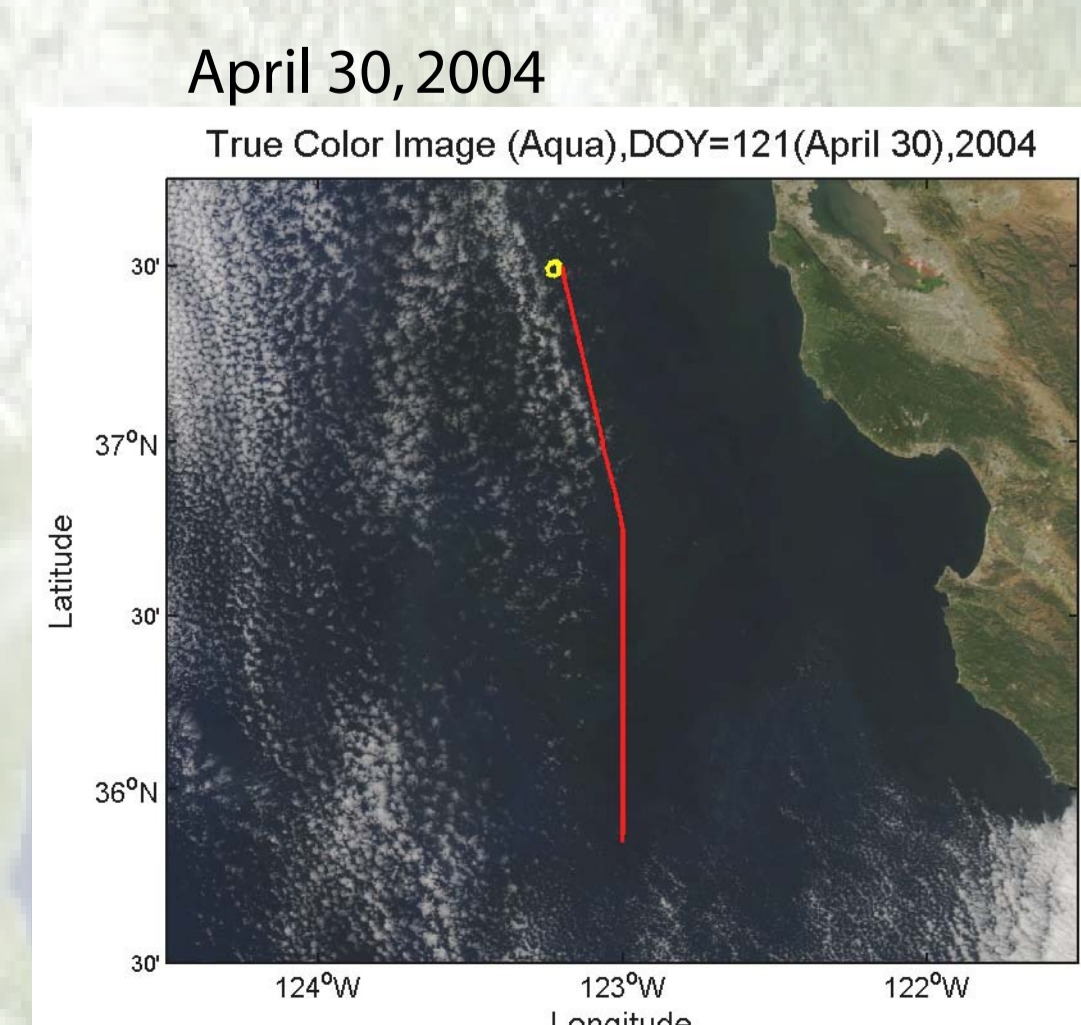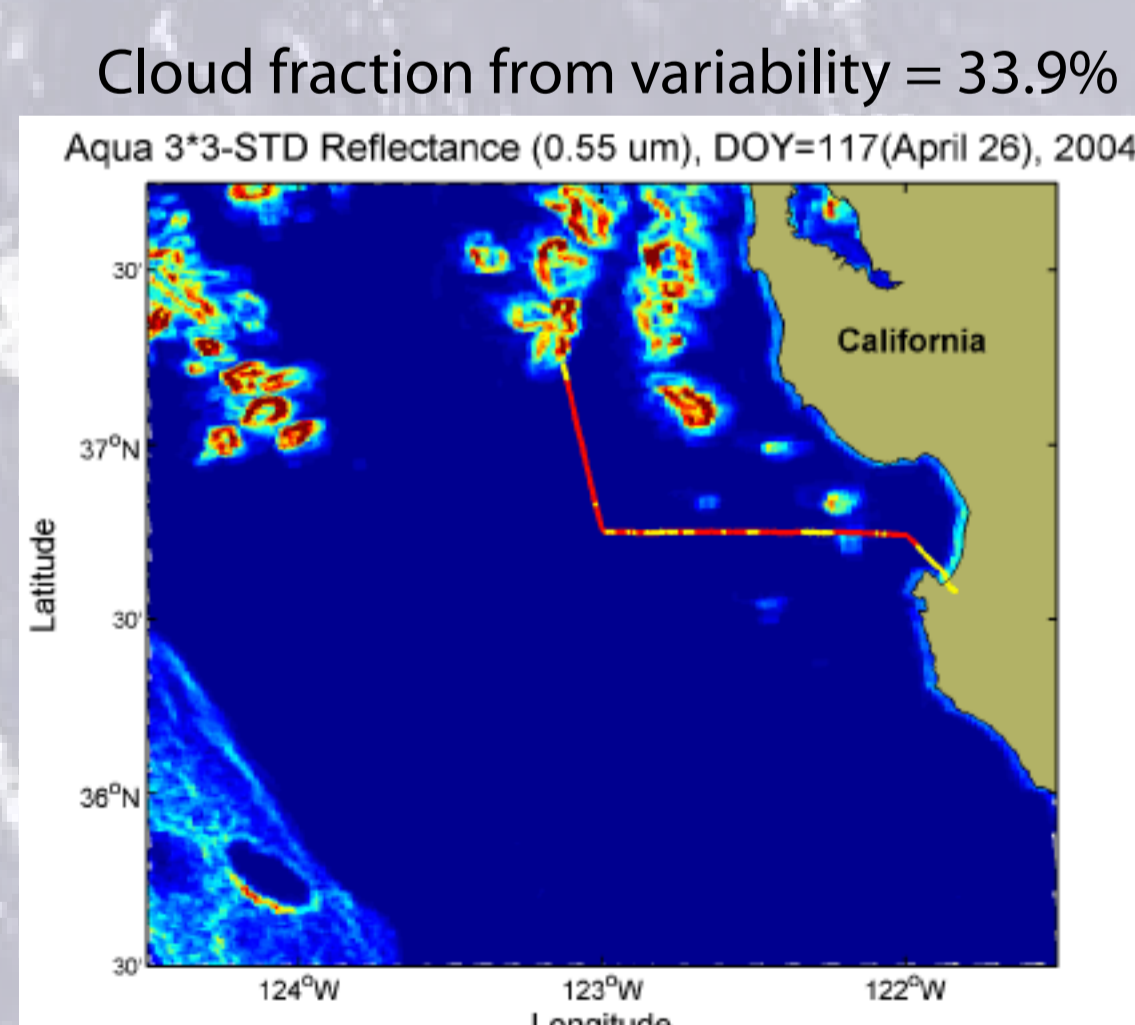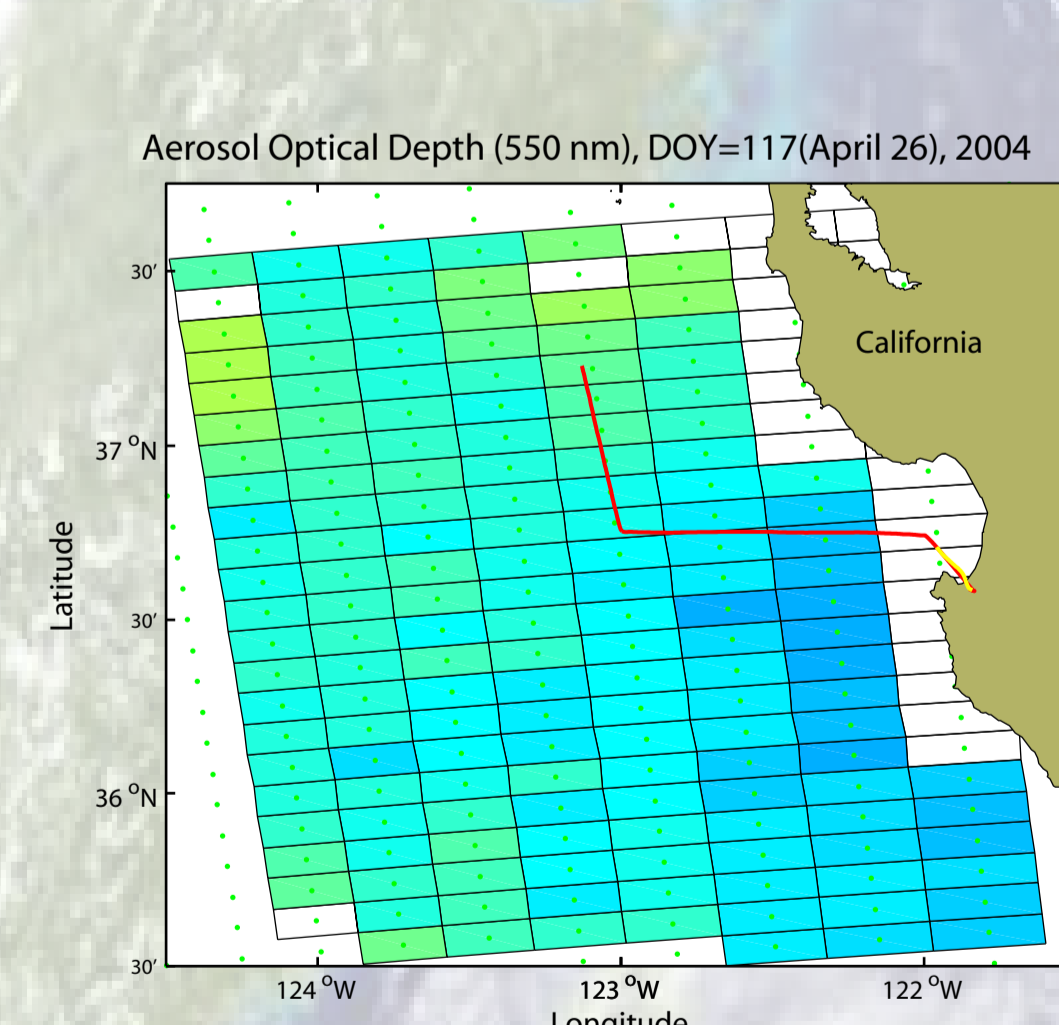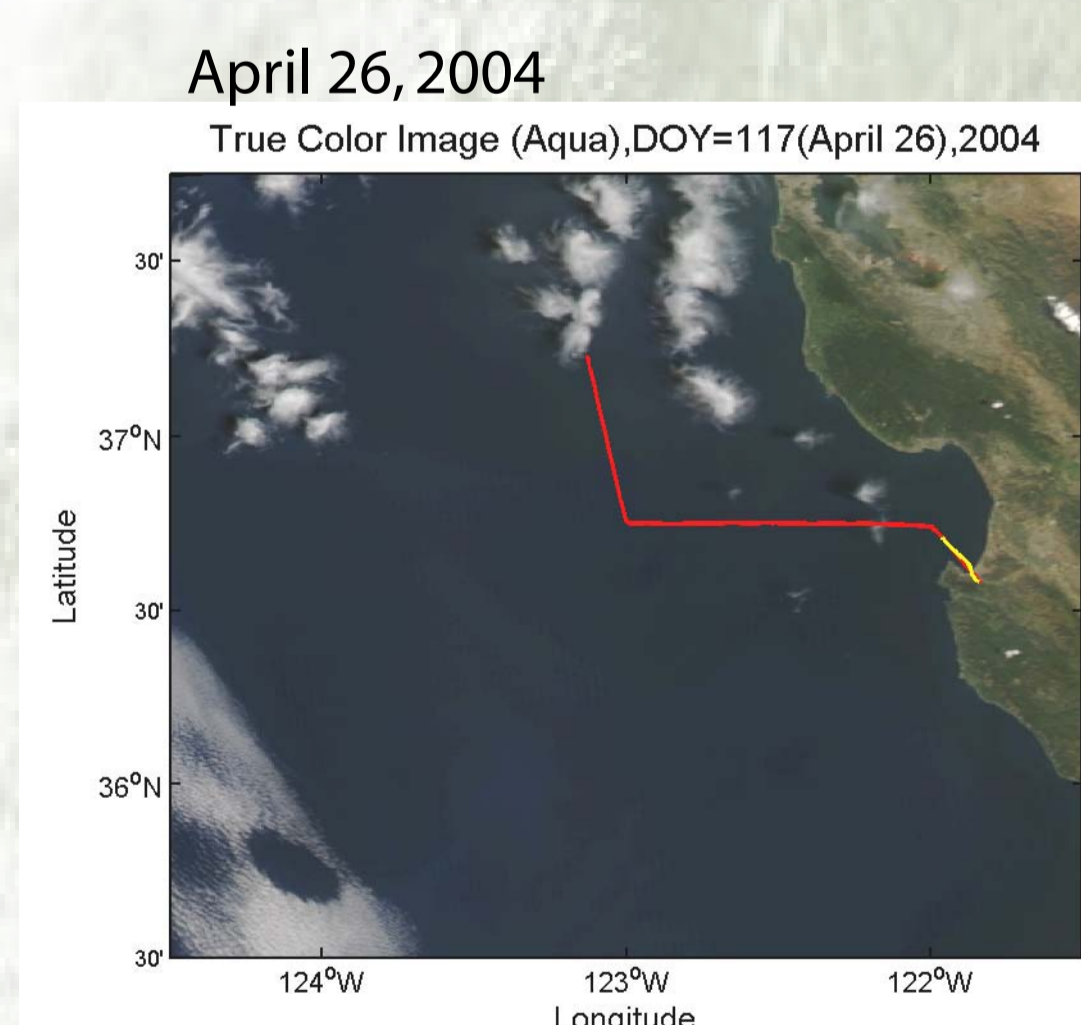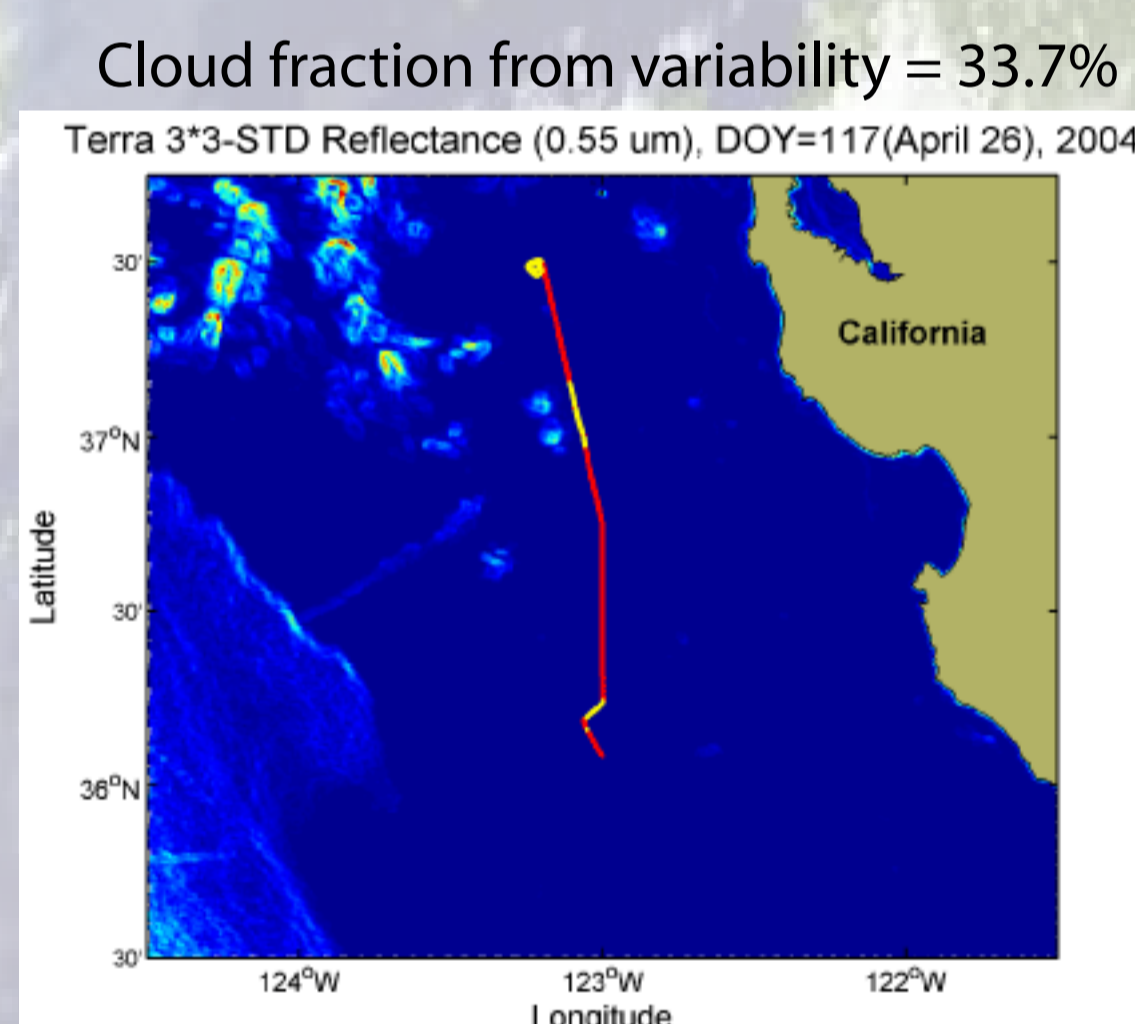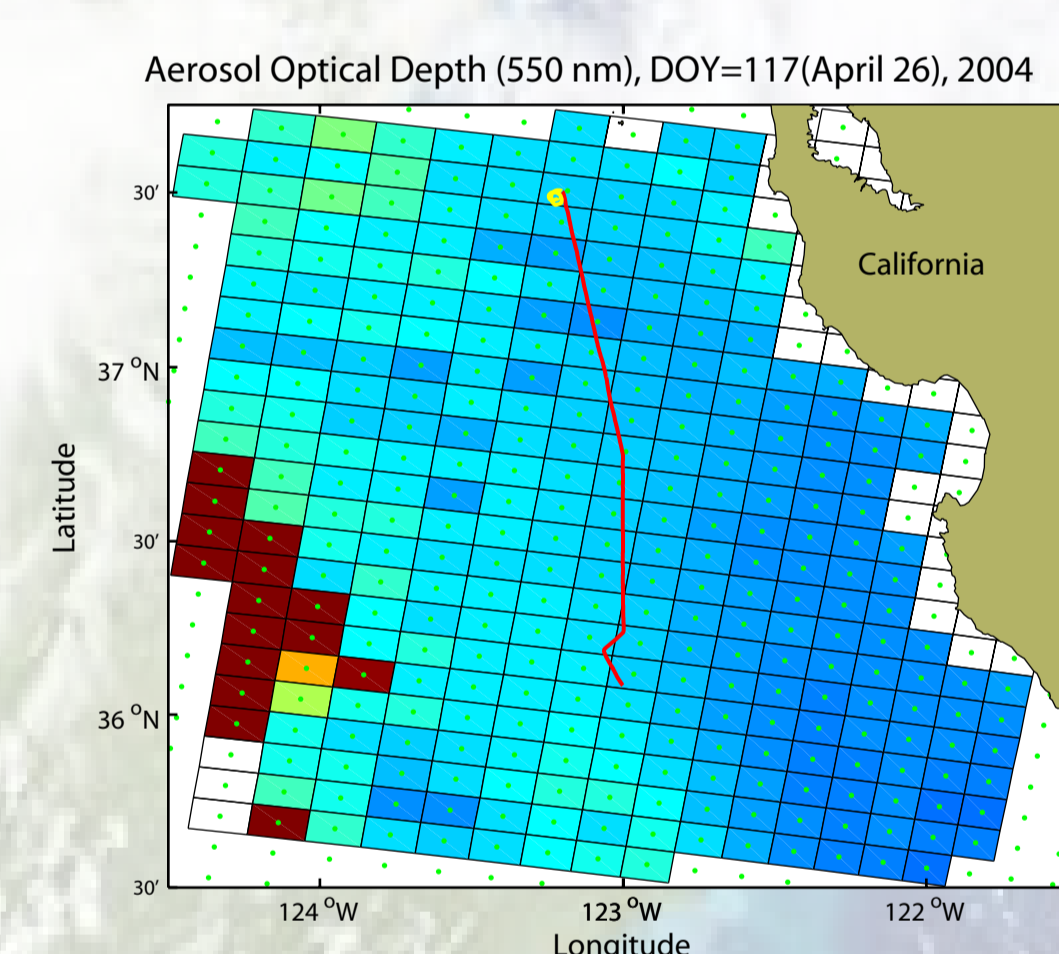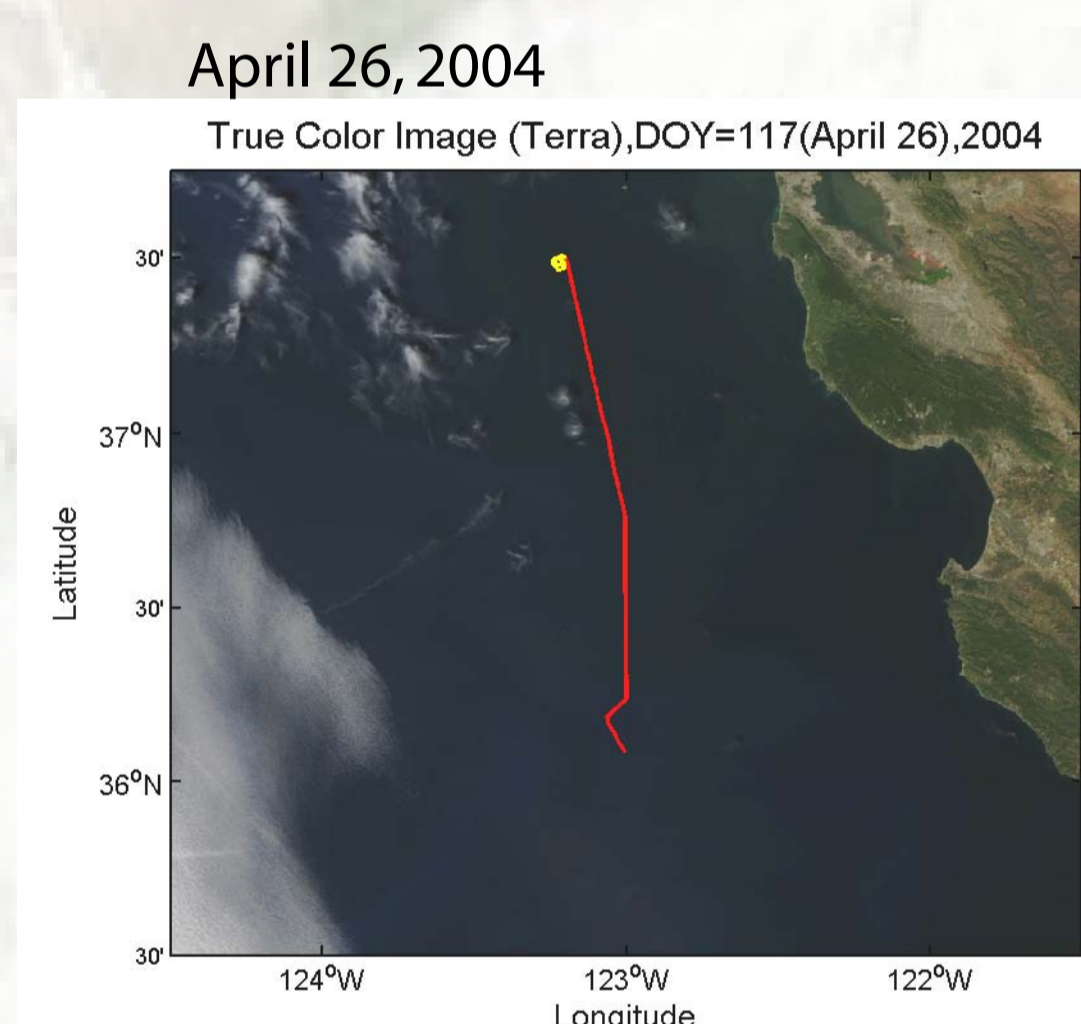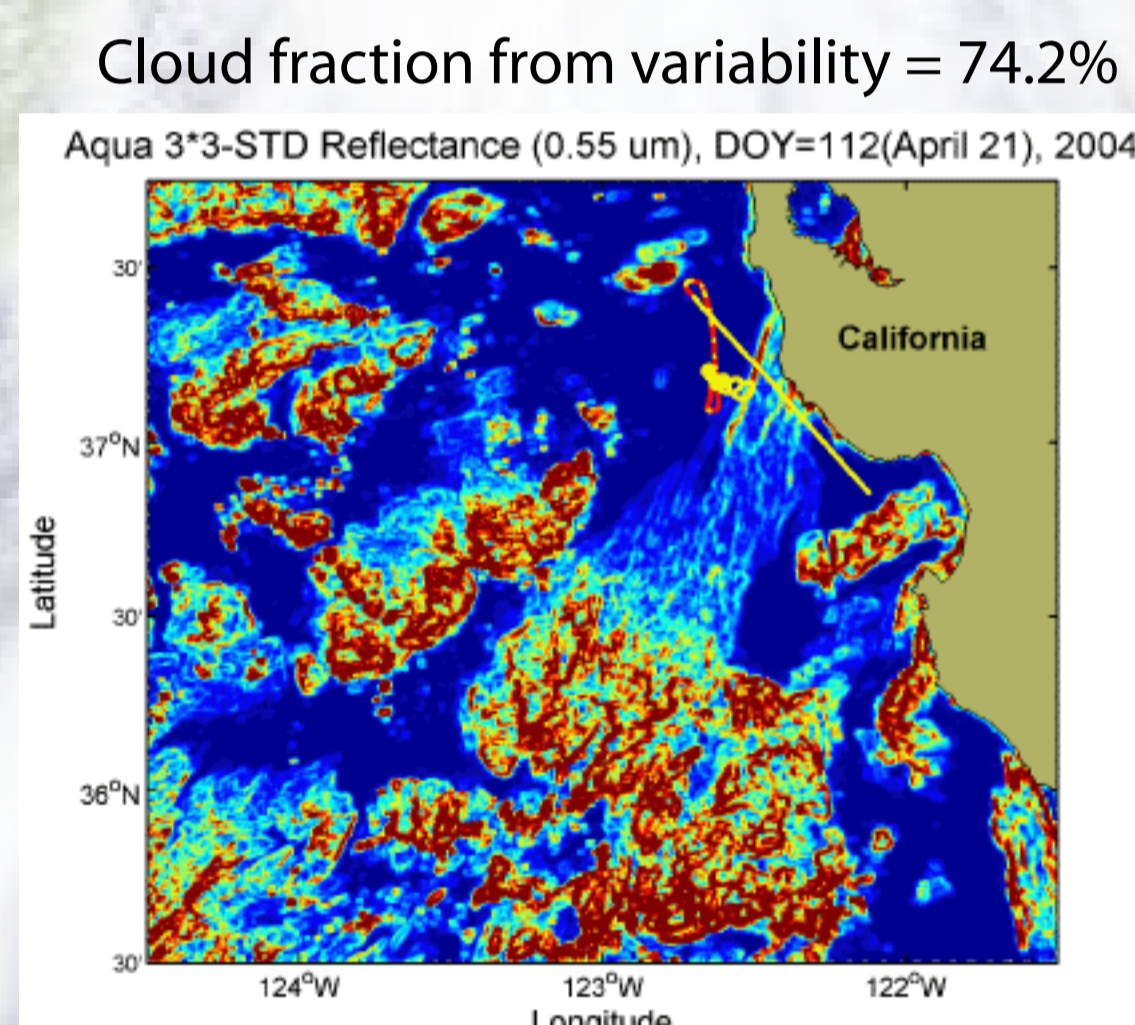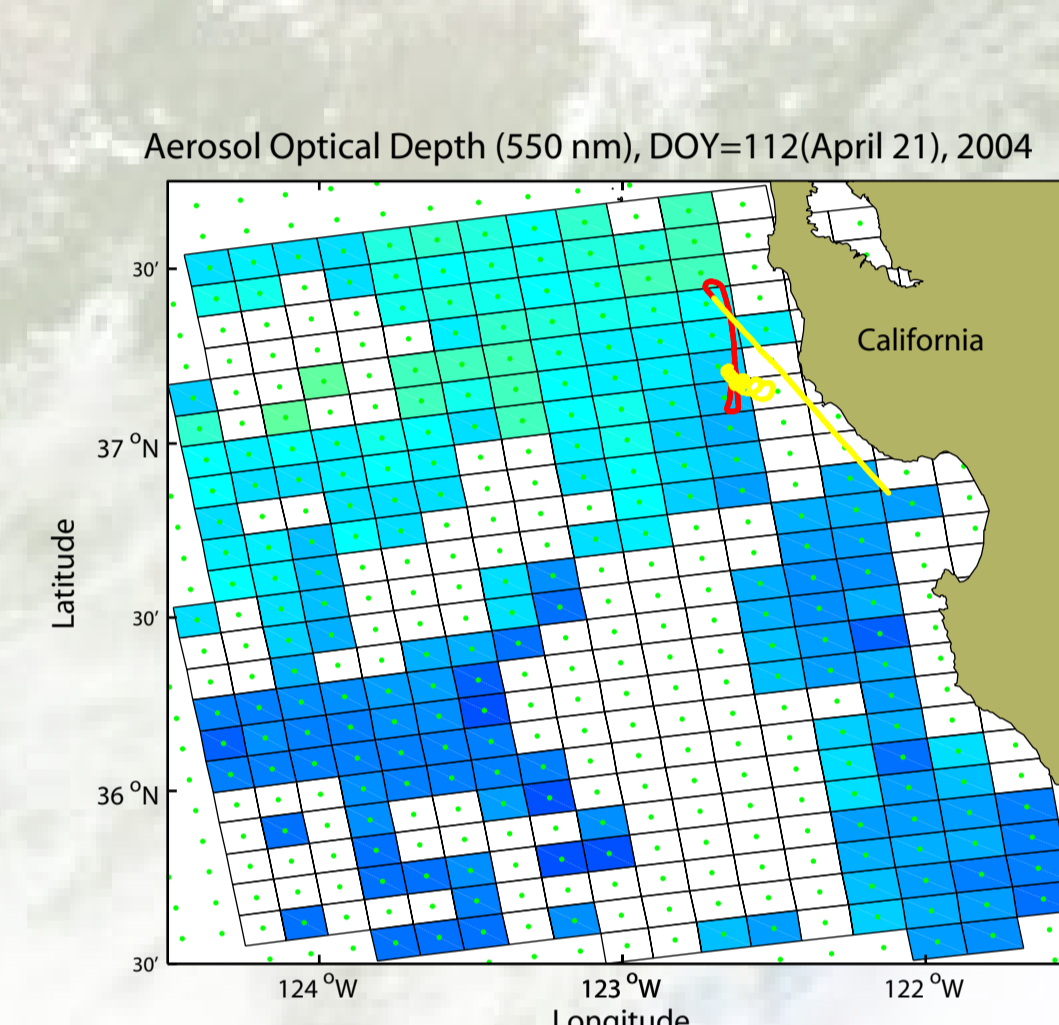
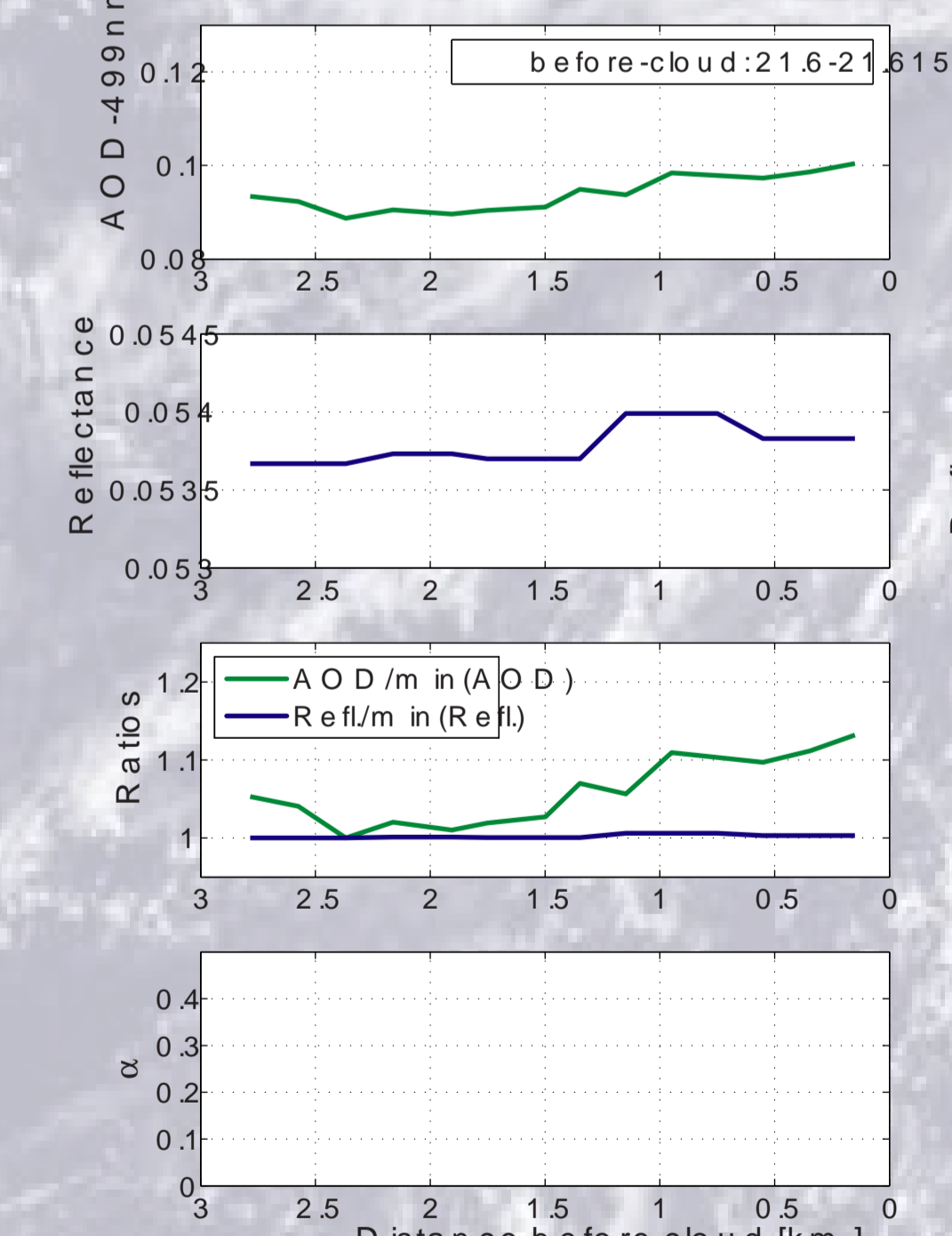## Problem
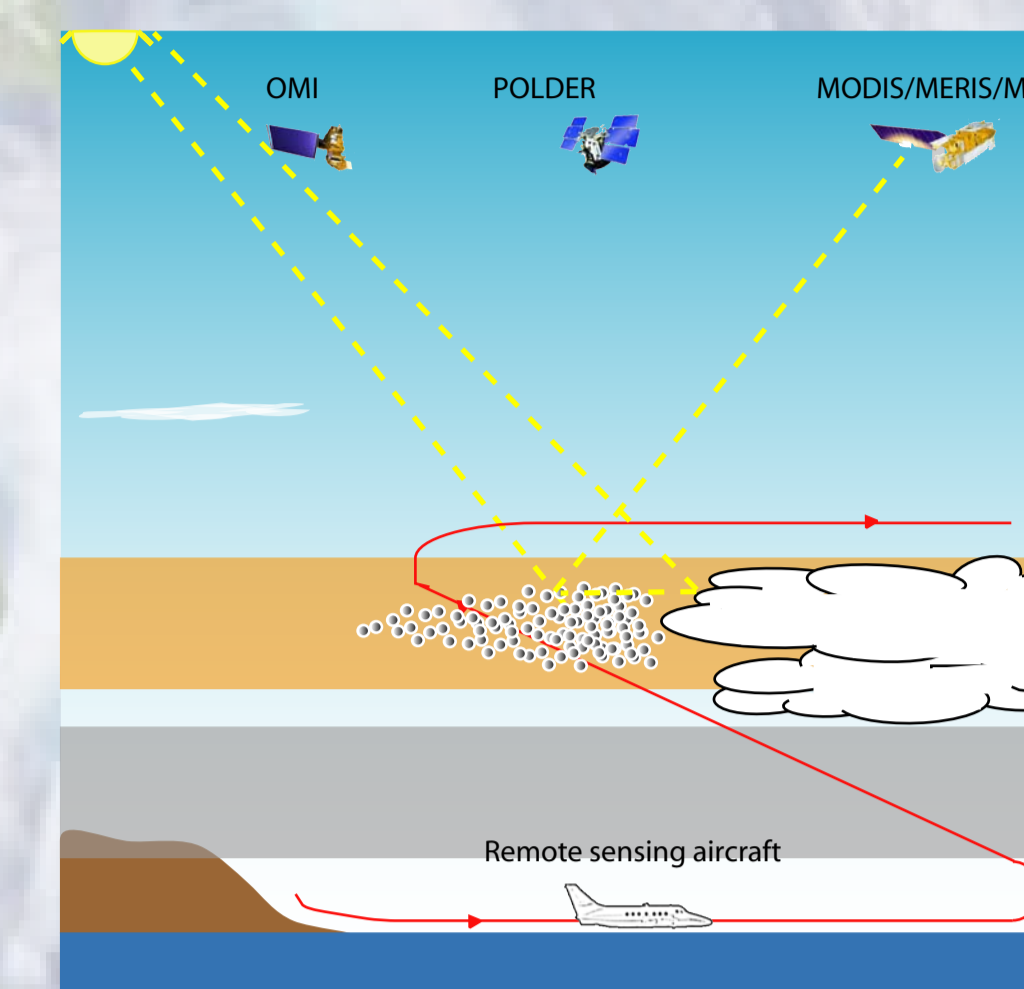
Theory

Cloud brightening

Cloud shadowing

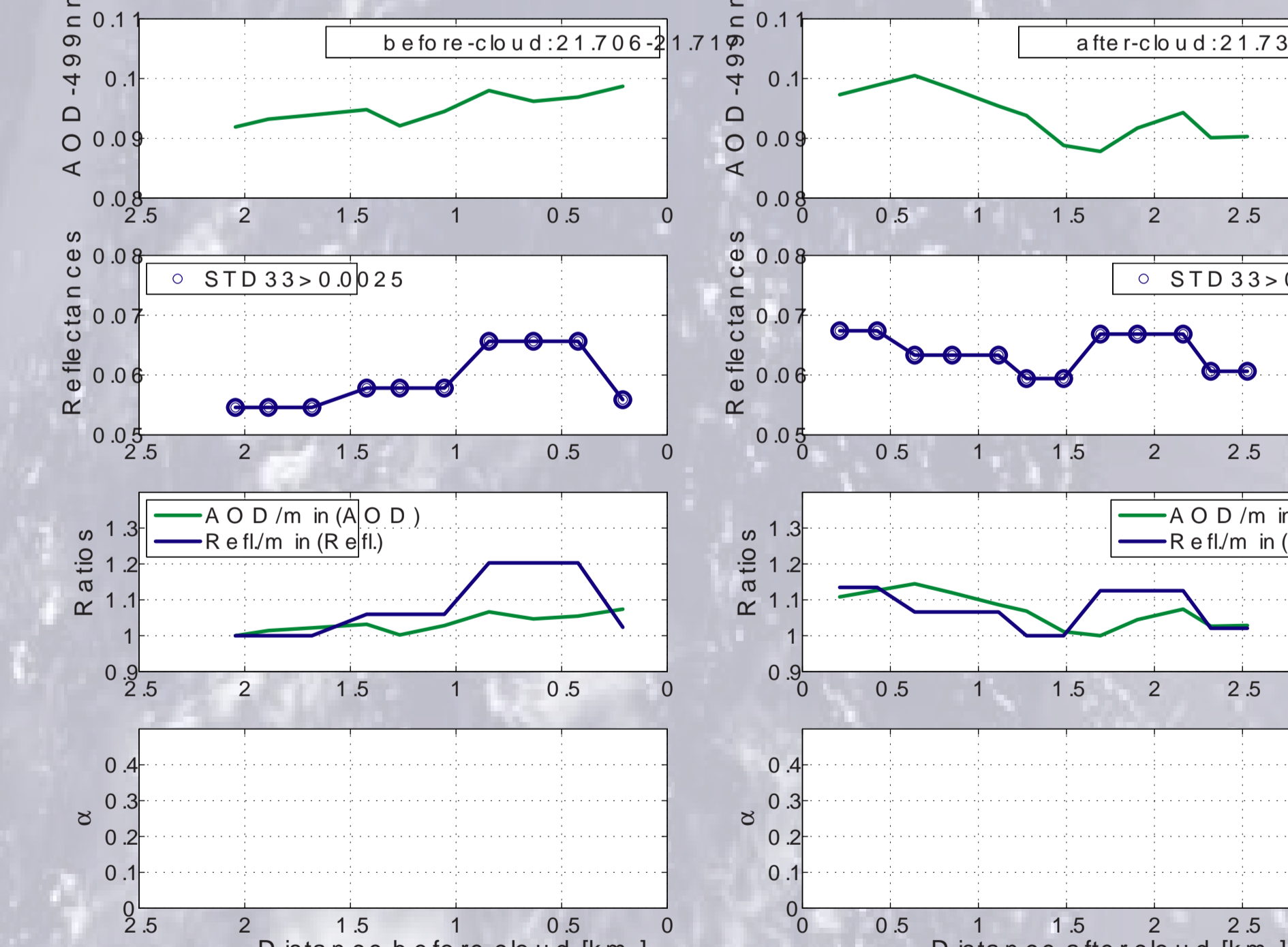Nikolaeva et al., JQSRT, 2005

Simultaneous MODIS and AATS measurements near clouds

Cloud 4 : EVE 30.4.2004,21.6-21.637 UT, MODIS Aqua 121 (band-4) 21:30

Cloud 7 : EVE 30.4.2004,21.706-21.75 UT, MODIS Aqua 121 (band-4) 21:30

EVE - experiment summary

Platform: CIRPAS Twin-Otter

EVE flight calendar

EVE mishap's

AATS-14 at
Mauna Loa