

MODELS

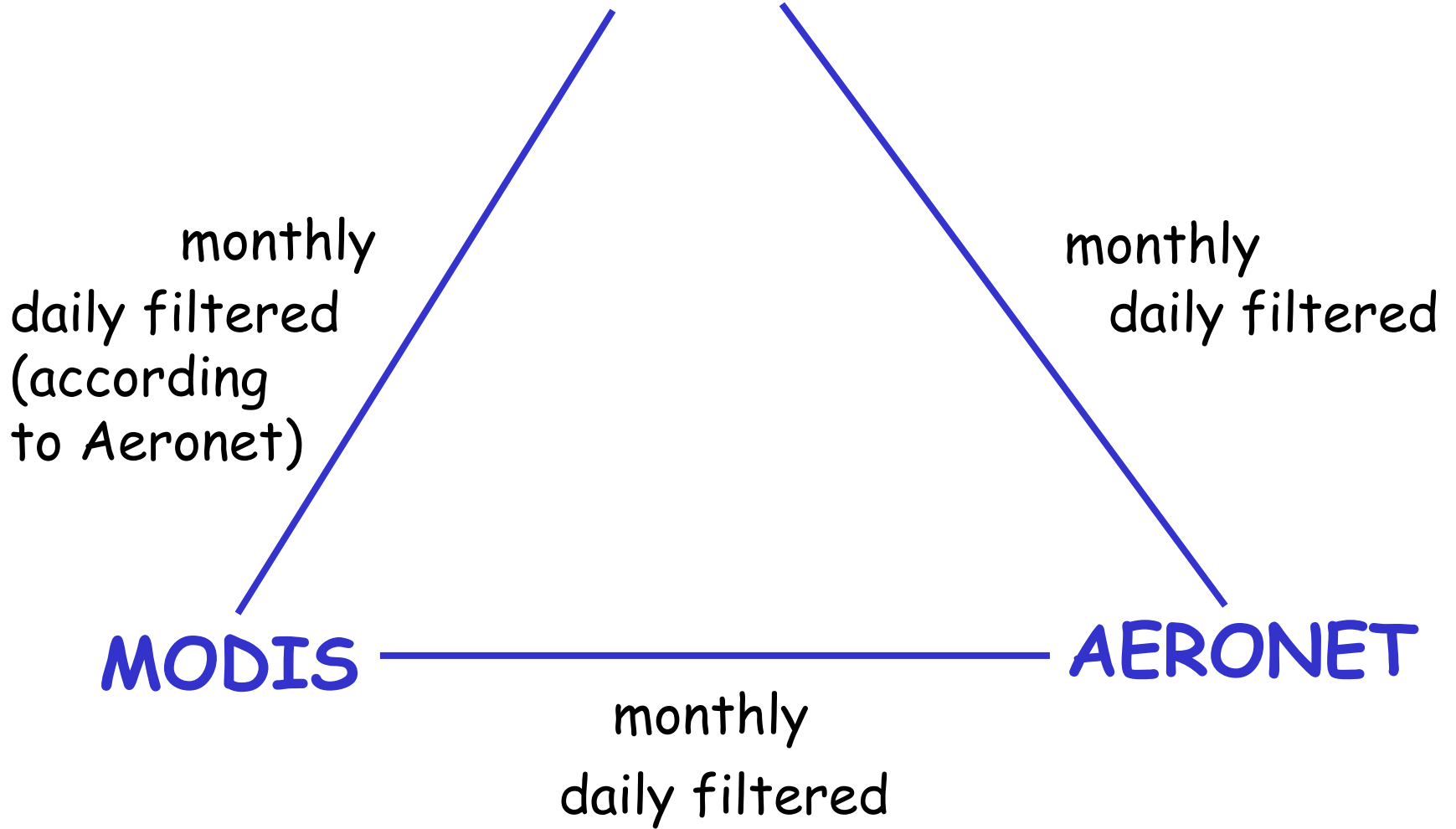
monthly
daily filtered
(according
to Aeronet)

monthly
daily filtered

MODIS

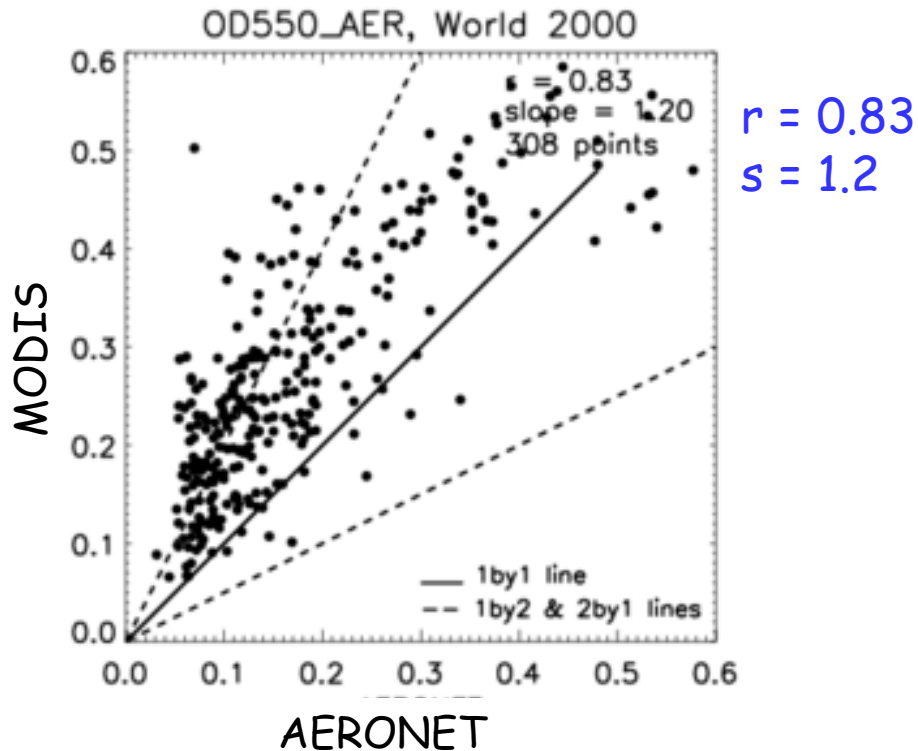
AERONET

monthly
daily filtered

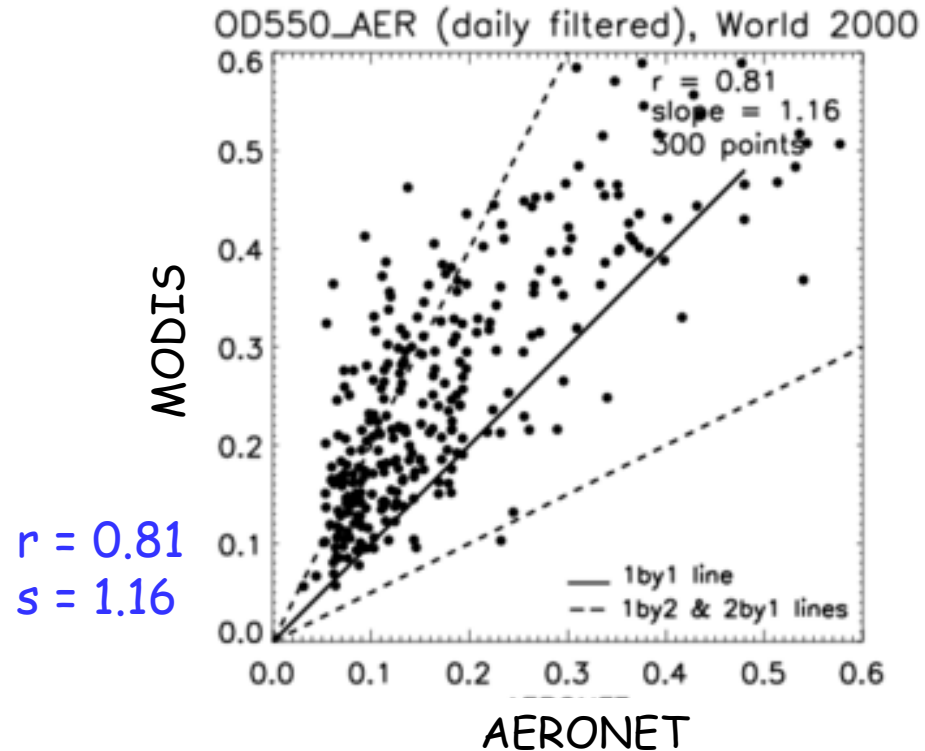


MODIS versus AERONET

monthly



daily filtered

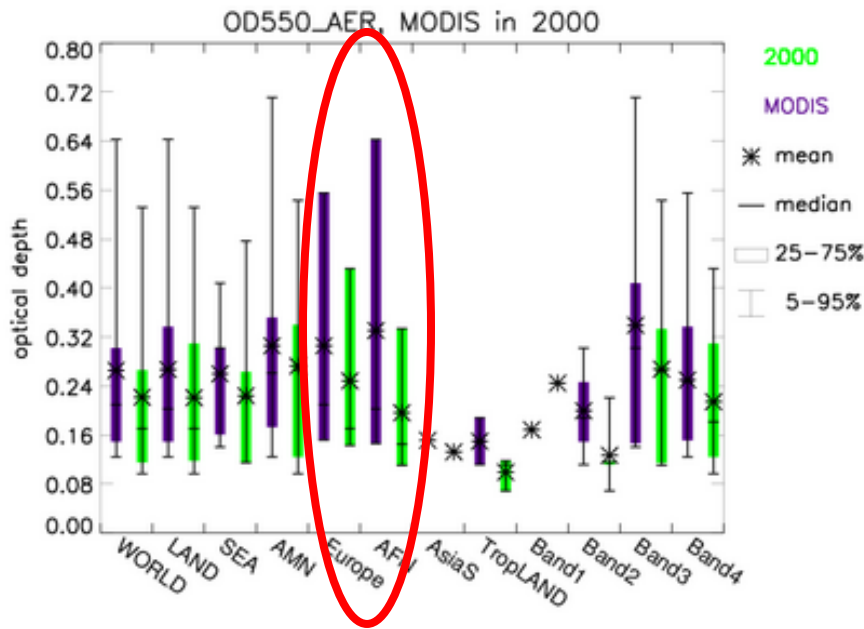


No effect a priori of daily filtering

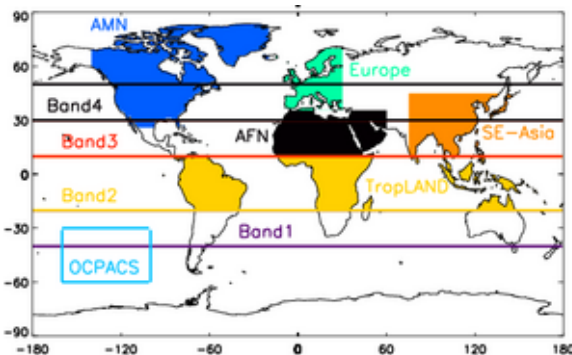
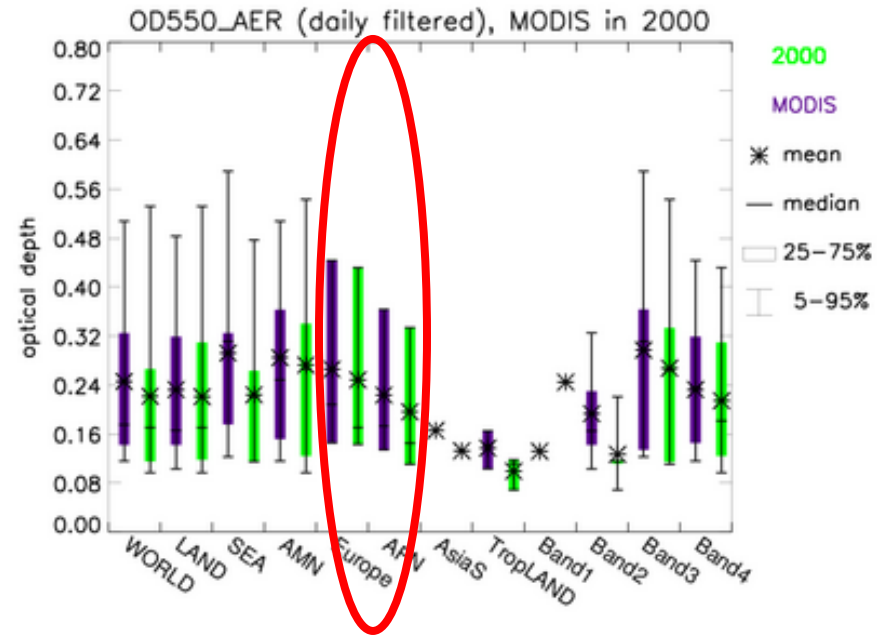
No mountains sites

MODIS versus AERONET

monthly



daily filtered



Daily filtered =>

- better agreement of the mean
- less spread in Europe and AFN but less than 30 points

Models versus AERONET

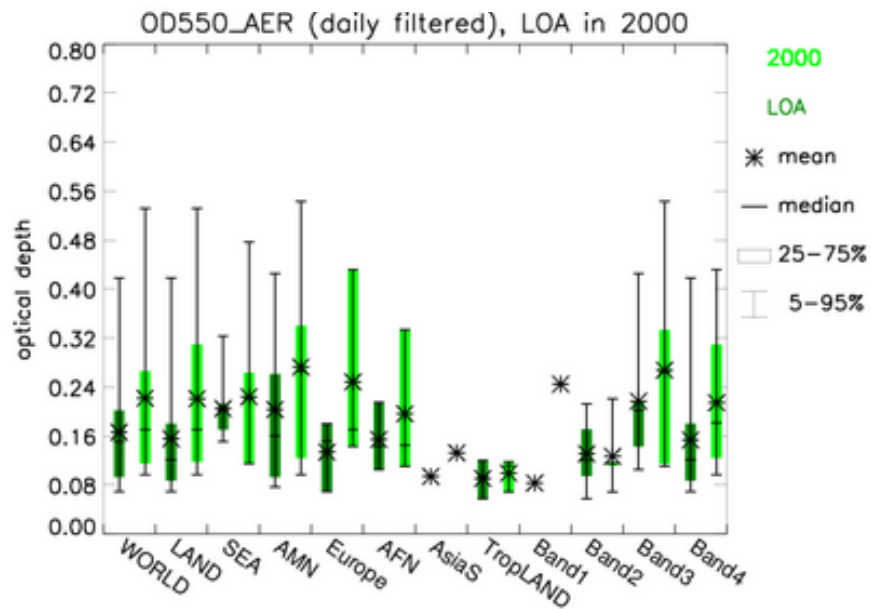
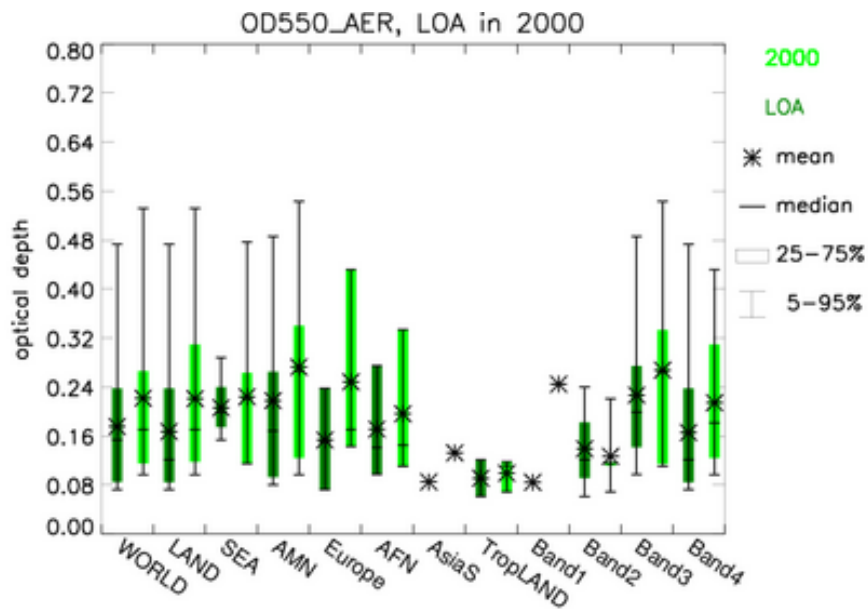
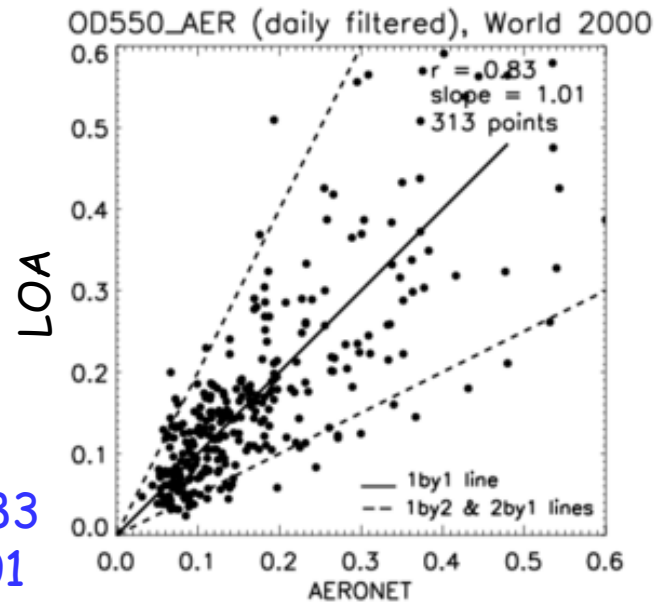
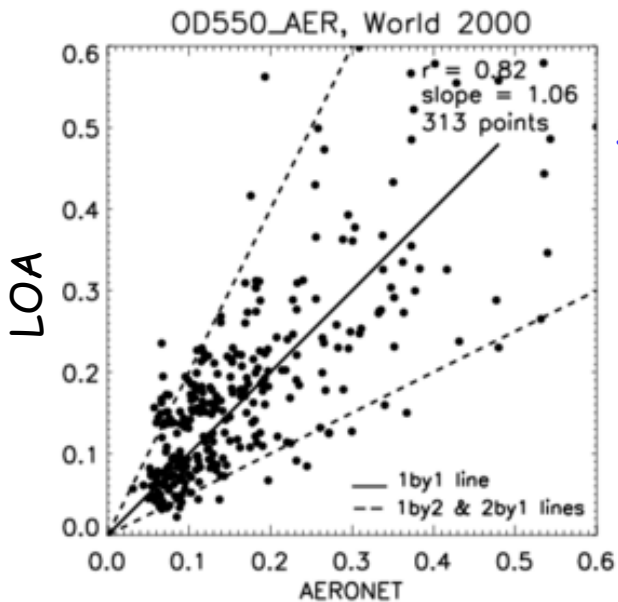
daily
filtered

monthly

$r = 0.82$
 $s = 1.06$

No effect
a priori
of daily filtering

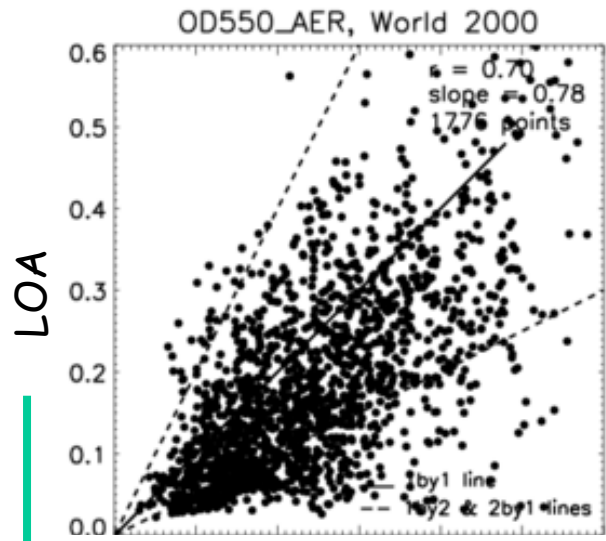
$r = 0.83$
 $s = 1.01$



monthly

Models versus MODIS

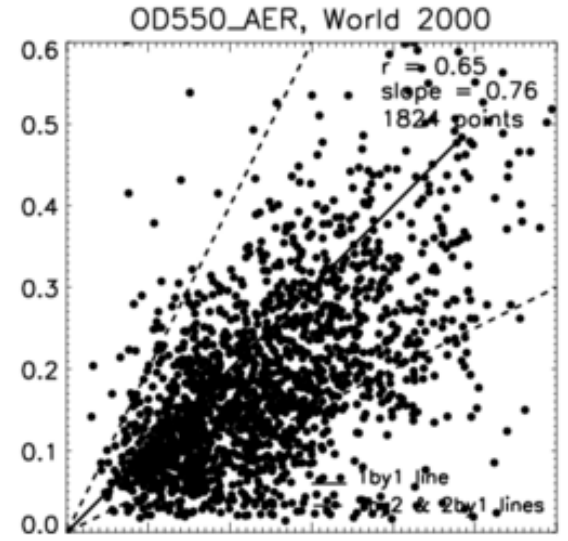
monthly



$r = 0.70$
 $s = 0.78$
 1776#

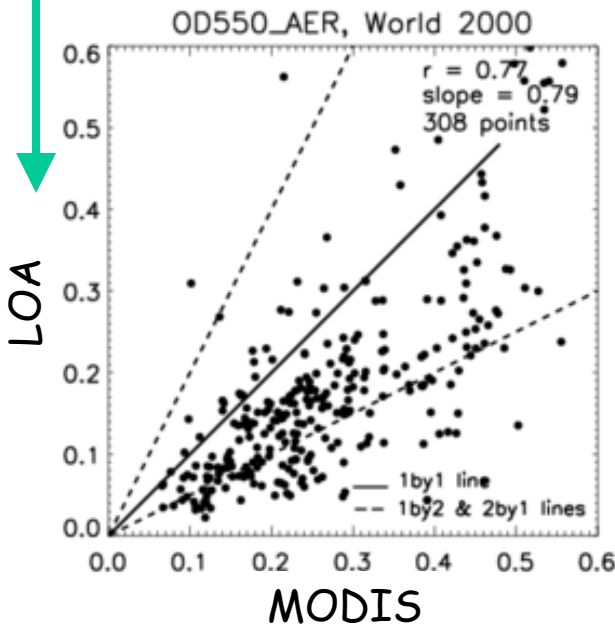
All stations
 (no mounts)

$r = 0.65$
 $s = 0.76$



UIO_CTM

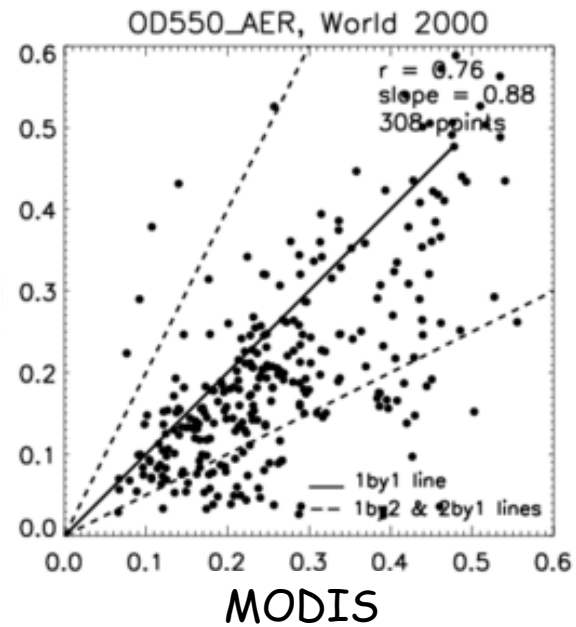
Increase of correlation when comparison only at Aeronet station



$r = 0.77$
 $s = 0.79$
 308#

Aeronet
 stations
 (no mounts)

$r = 0.76$
 $s = 0.88$
 308#



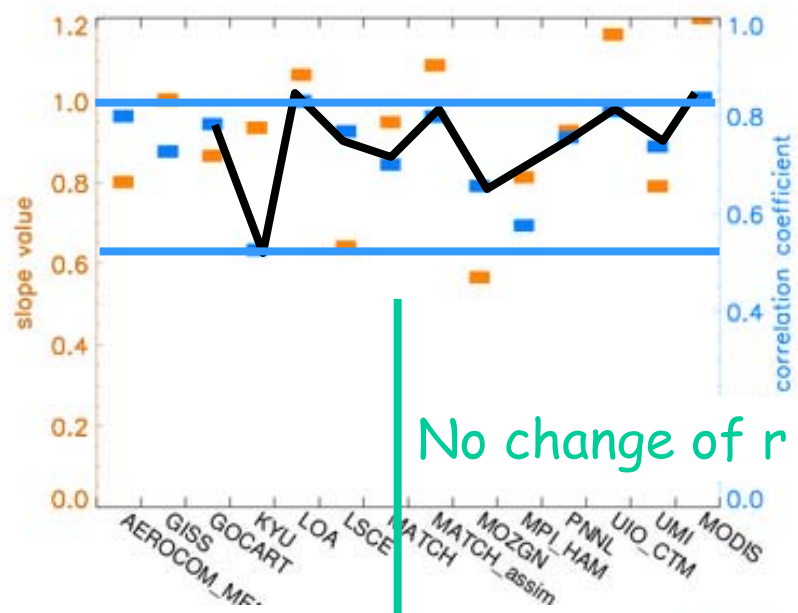
UIO_CTM



Models versus AERONET

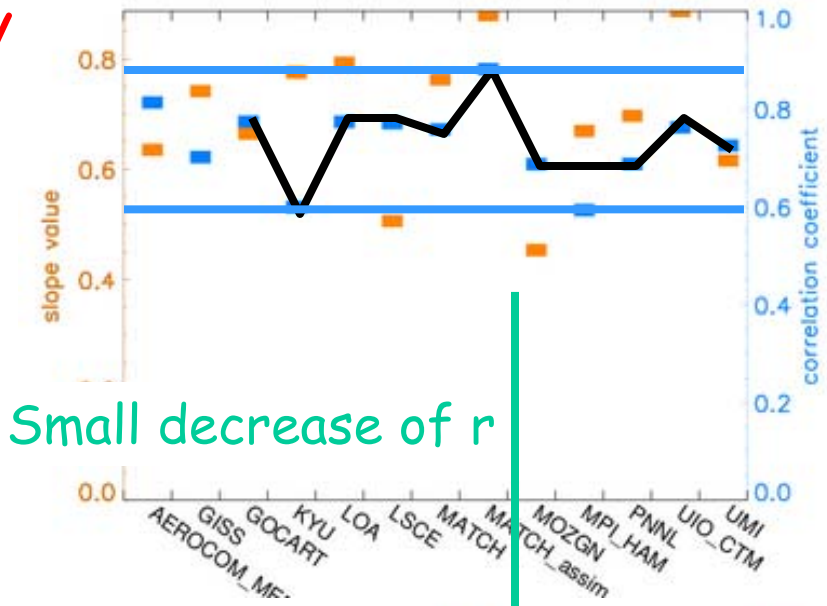
Models versus MODIS

(restricted to Aeronet stations)

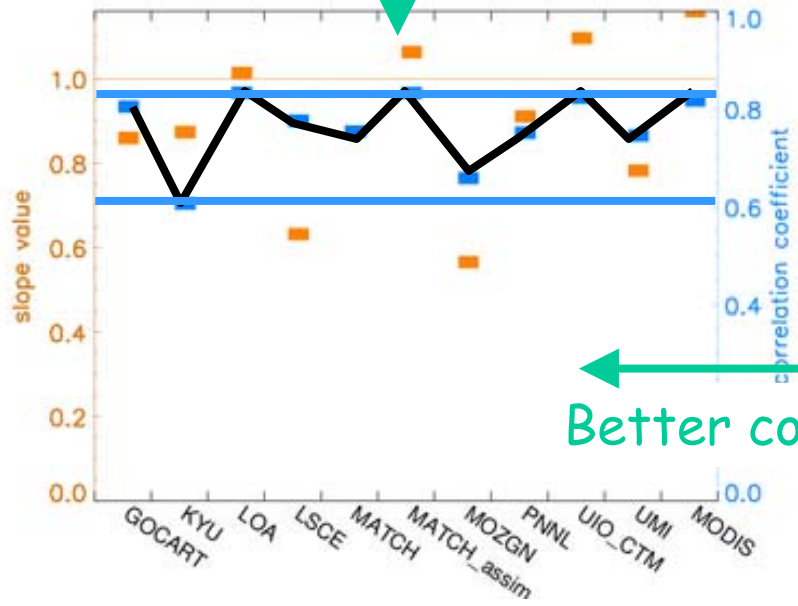


monthly

No change of r

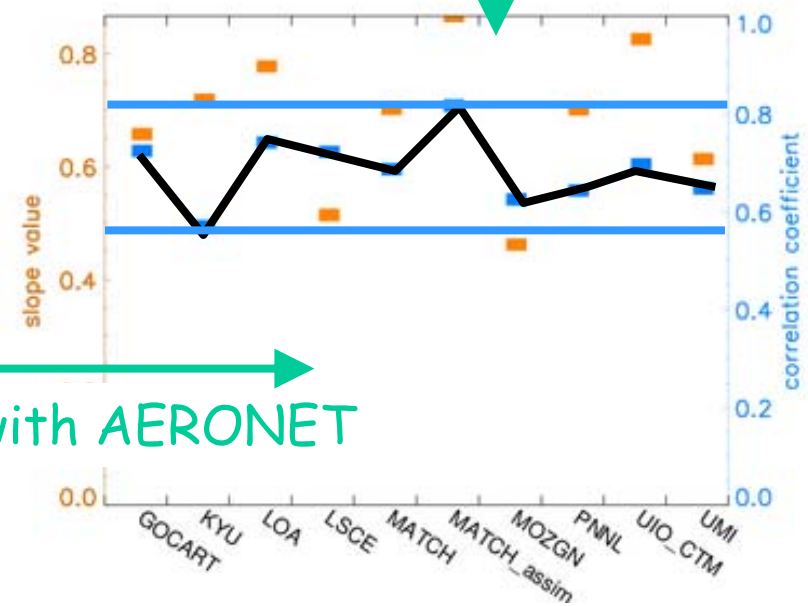


Small decrease of r



daily

Better correlation with AERONET

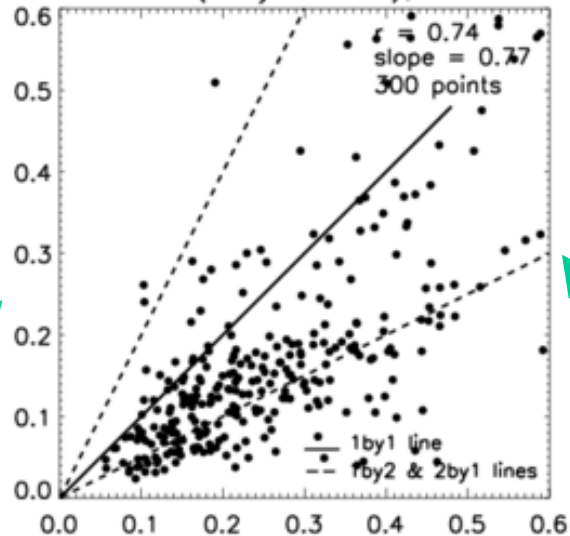


WORLD
Daily filtered

Smaller
correlation

LOA

OD550_AER (daily filtered), World 2000

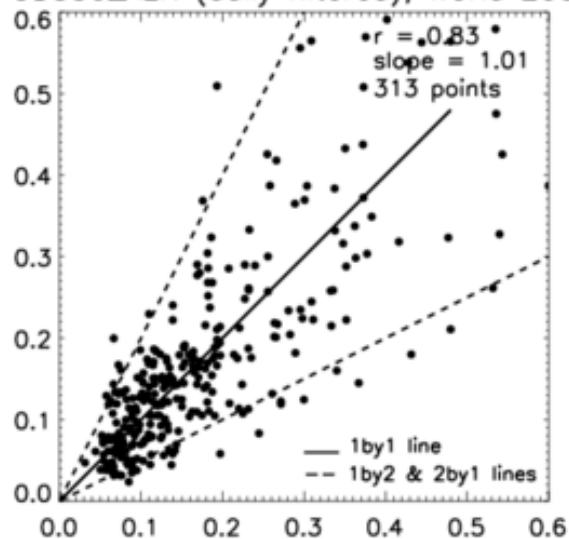


$r = 0.74$
 $s = 0.77$

Underestimation
of the model

MODIS

OD550_AER (daily filtered), World 2000



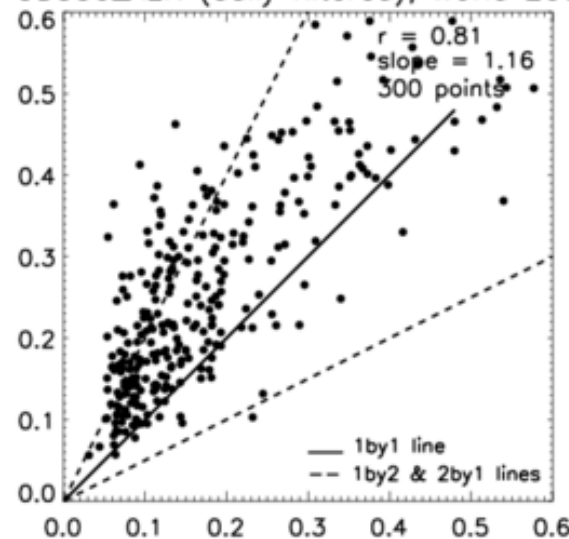
$r = 0.83$
 $s = 1.01$

$r = 0.81$
 $s = 1.16$

AERONET

Overestimation
by MODIS

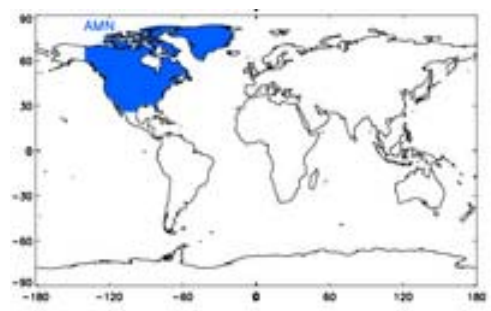
OD550_AER (daily filtered), World 2000



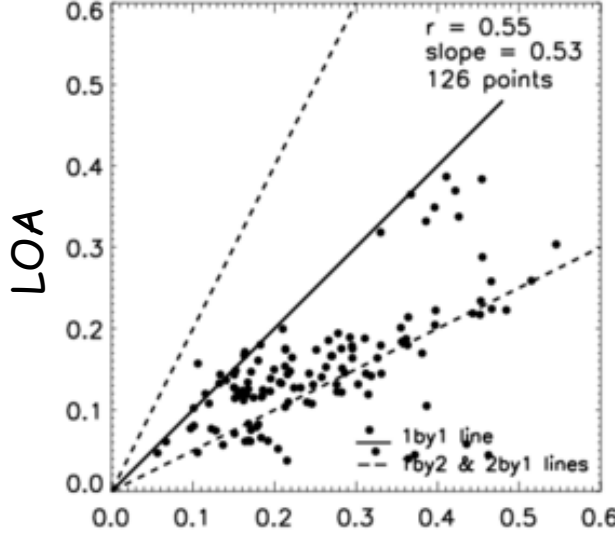
MODIS

AERONET

NORTH AMERICA Daily filtered



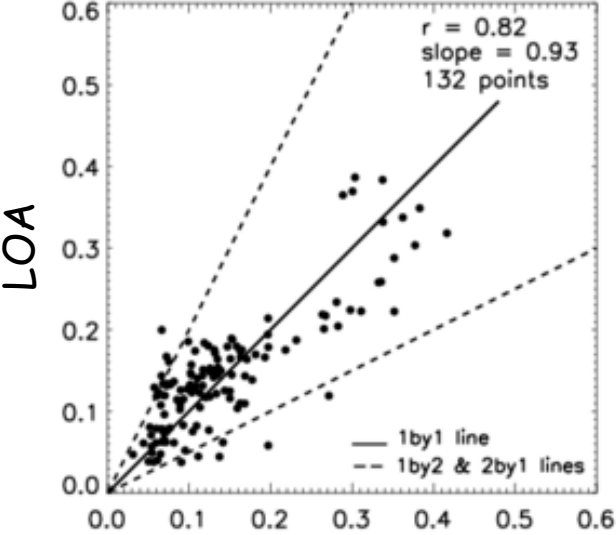
MODIS500_AER (daily filtered), North America 2000



$r = 0.55$
 $s = 0.53$

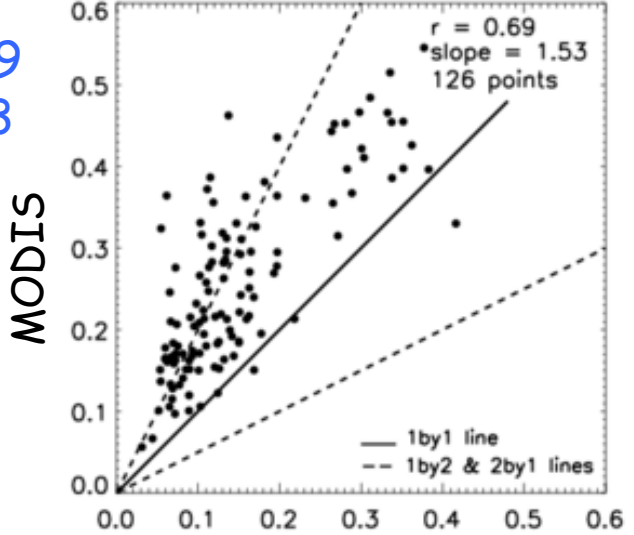
Same conclusion than for WORLD but a bit worst

MODIS500_AER (daily filtered), North America 2000



$r = 0.82$
 $s = 0.93$

MODIS500_AER (daily filtered), North America 2000

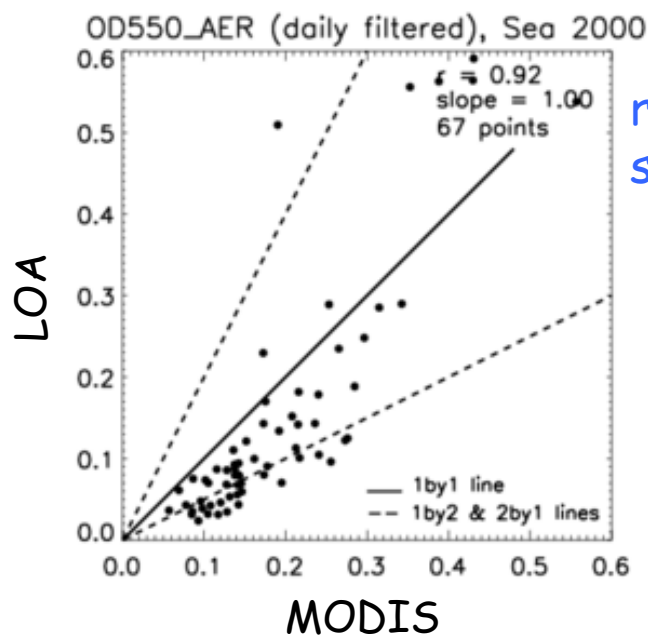


$r = 0.69$
 $s = 1.53$

AERONET

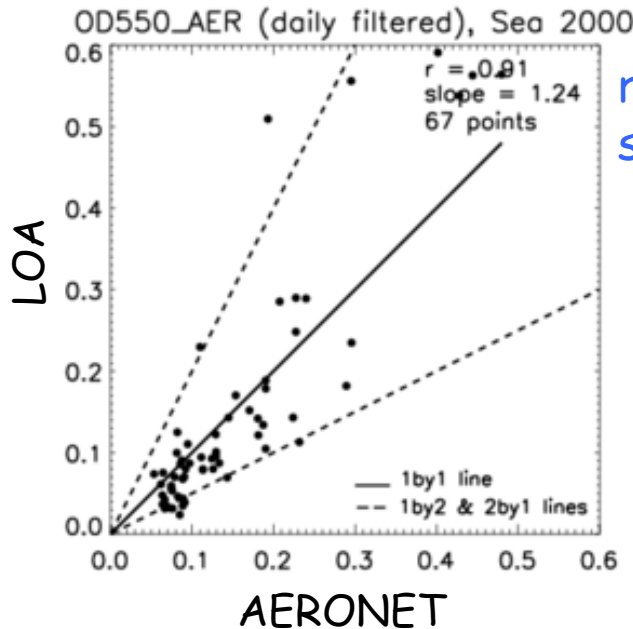
AERONET

SEA
Daily filtered

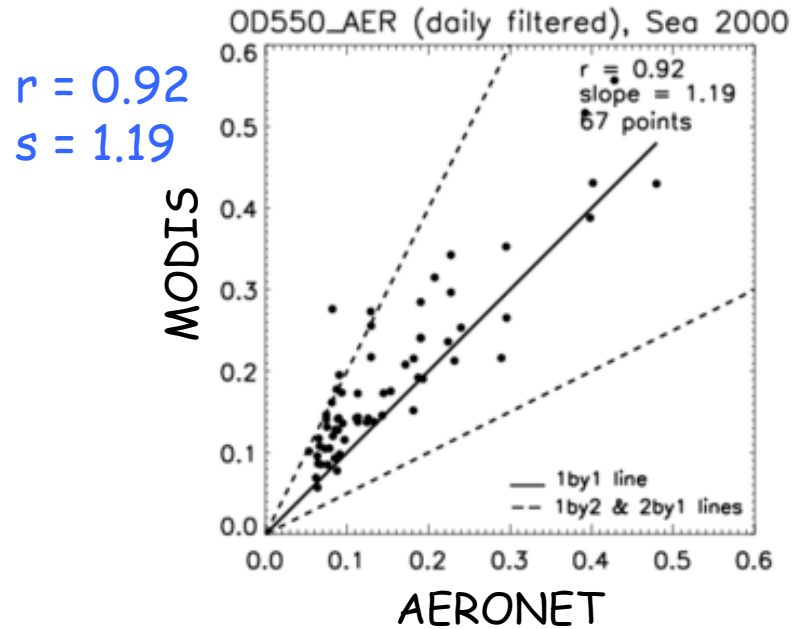


$r = 0.92$
 $s = 1.00$

Better agreement
for the SEA stations



$r = 0.91$
 $s = 1.24$

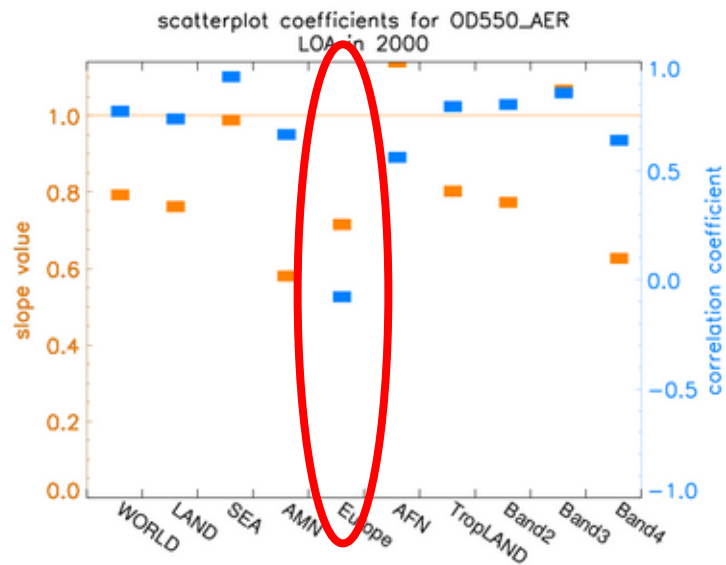
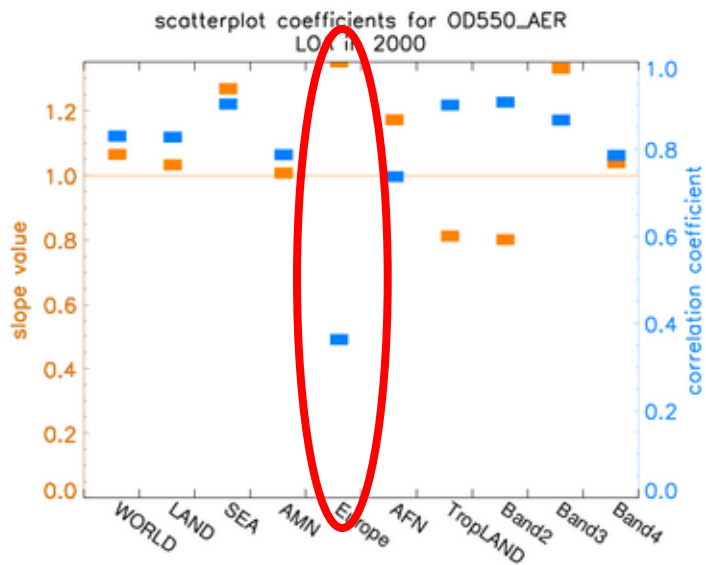
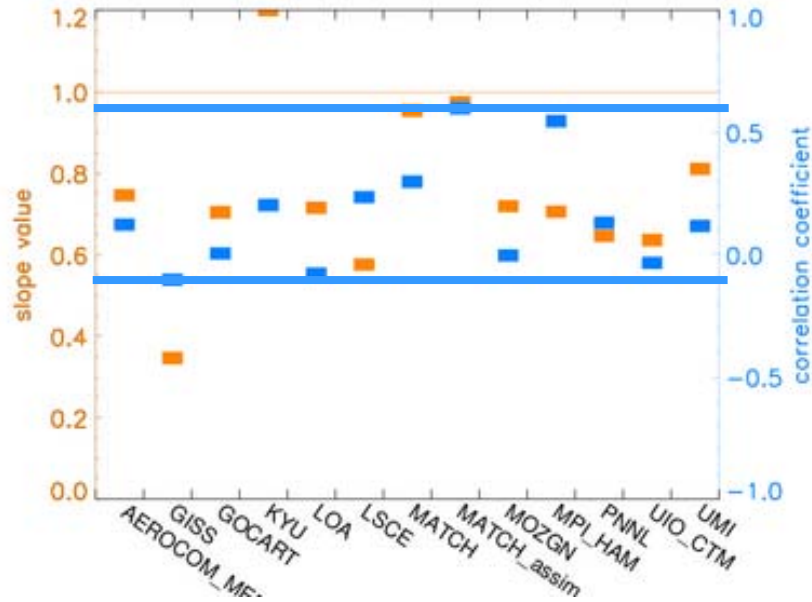
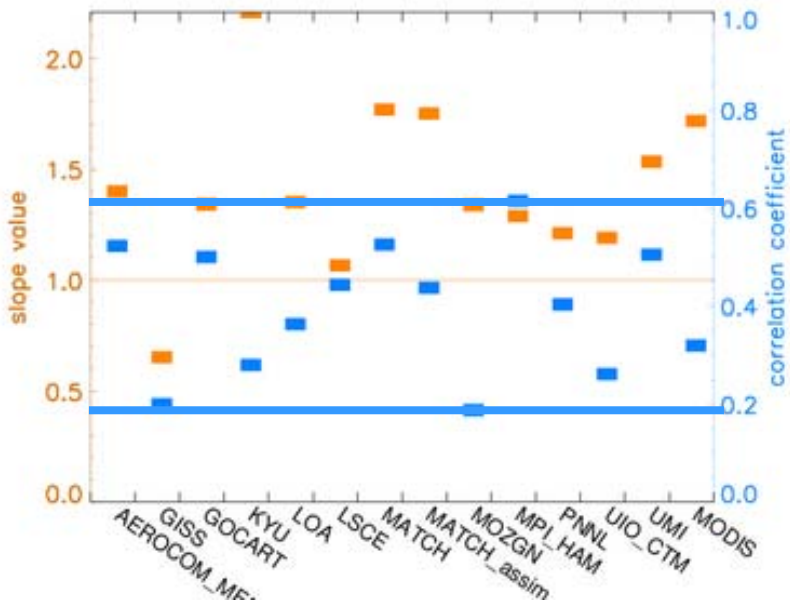


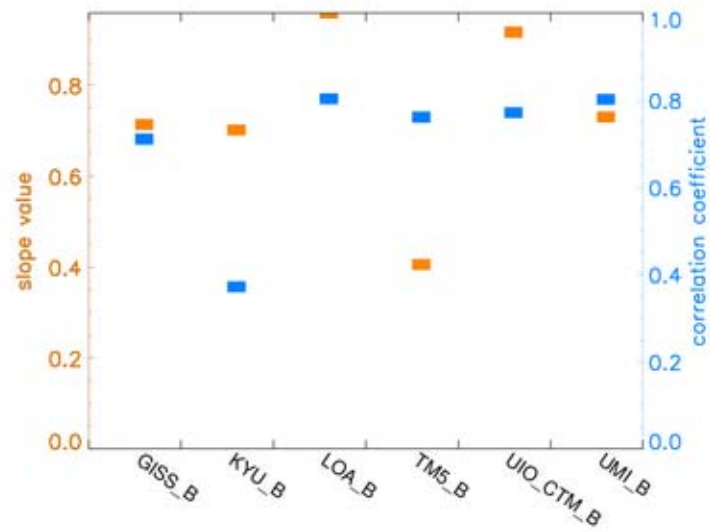
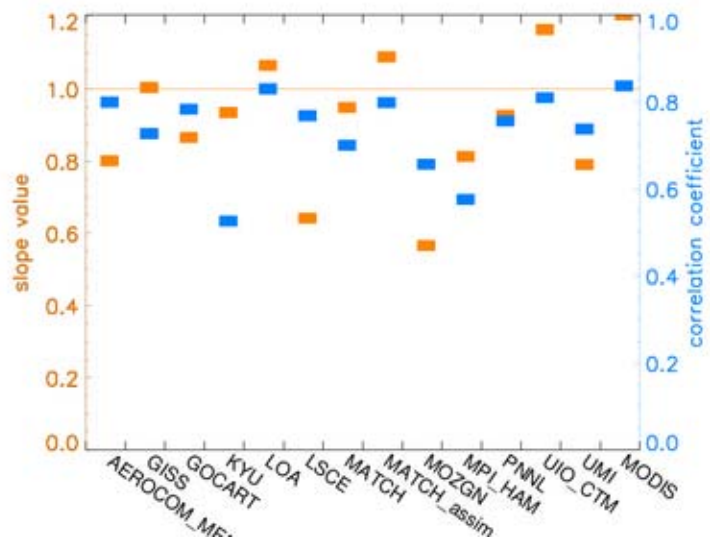
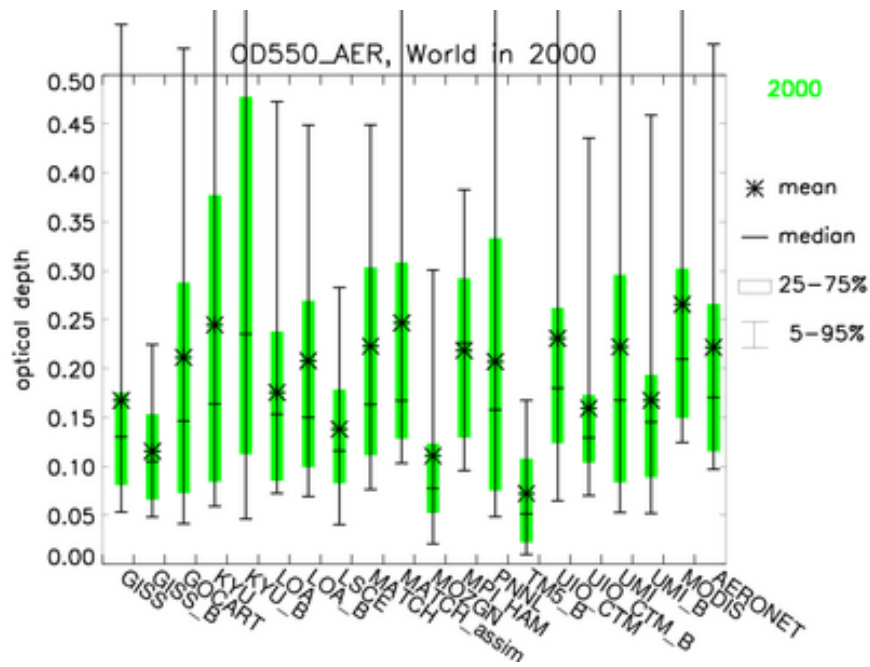
$r = 0.92$
 $s = 1.19$

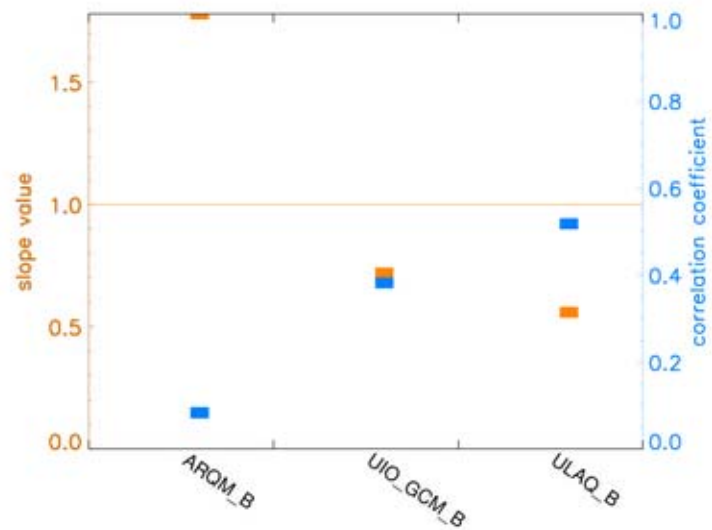
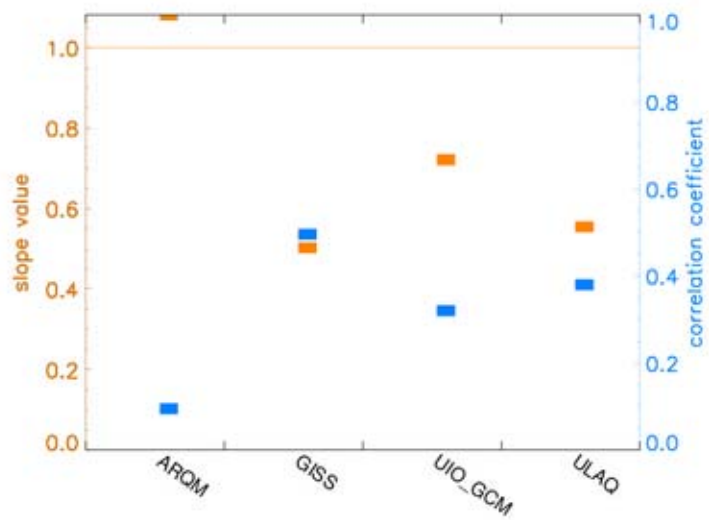
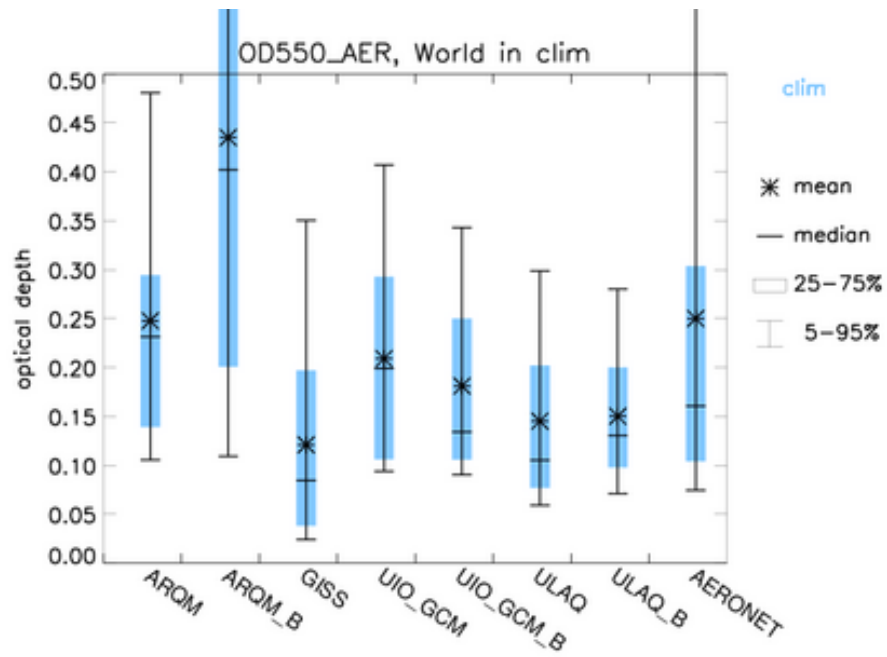
Europe case

Vs AERONET

Vs MODIS







scatterplot coefficients for OD550_AER
World in 2000

