COMPARISON OF RETRIEVAL OF BIOSPHERE PRODUCTIVITY OVER LAND & OCEAN

1. MAGNITUDE
   * PRIMARY (DAILY) PRODUCTIVITY OR COMUNITY PRODUCTIVITY
   * METHODS OF ESTIMATES, MODELS
2. ATMOSPHERIC CORRECTION

BLUE FOR CORREC.
*RED, NIR ⇒ VEGET.

RED, NIR FOR CORREC.
BLUE, GREEN FOR ⇒ R.S

? USE OF MID-IR ⟶

INFORMATION ON VEG.
LIQUID WATER & CHLOR.
SMALL AEROSOL EFFECT ($\sim \frac{1}{2} - \frac{1}{10}$)

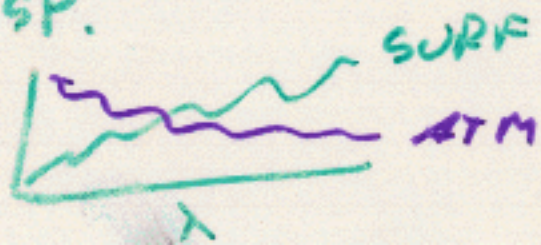
INFORMATION ON
DUST. PROBLEMS
WITH S/N, FOAM

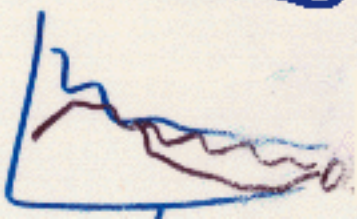
MODIS RED NIR
⇓ MODE
CORRECTION

MID IR ⟶ ρ_{RED} ρ_{BLUE}
VISIBLE $\xrightarrow{\text{MODEL}}$ τ_{RED} τ_{BLUE}
⇓
CORRECTION

VEG. INDEX (MNDVI, ARVI, SAVI)
THAT ARE LESS SENSITIVE TO
ATMOSP.

NO WAY





3. TIME SCALES

LONG ⇒ COMPOSITES
EMPIRICAL REL.
ECOSYSTEMS

* STATIONARY

SHORT ⇒ ESTIMATE
DYNAMICS WITH MODELS
OCEAN REGION

NUTRIENT LIMITED
STRONG CONSUMPTION
*MOVING

4 FLUORESENCE

PROBLEMS WITH
SOIL FLUOR.

V

IN BLUE

5 SATURATION

IN RED
⇓
ADD GREEN
EMPHASIZE NIR
MID IR ?

CROSS FERTILIZATION OF

IDEAS