Planned analysis writing efforts

Stephens

Overview

APO (+CO2?) CA (+ whole campaign ratio?) (+ M-theta?)

Morgan / Keeling

O2:CO2 BL ratios (+ whole campaign ratio?)

+? (M-theta?)

Long / Whitt

O2 / CO2 relationships in model (butterflies? Variability decomposition?)

* Ocean BL physics?

Bent

PSA seasonal cycles (+ ICP)

+ Ar?

Hoecker-Martinez

1-2 day Lagrangian (plus interactions with reactive gas efforts)

Whole campaign Lagrangian CO2 and O2

Kort

Flux variability

N2O? BL (+ strat / trop - Cindy Nevison, Elliot, Sue)

McKain / Sweeney

Summertime SO CO2 sink - CT-NRT and box model

Large scale transport wrt jet (in synthesis paper?)

Dierssen / Randolph

Copied from Heidi’s talk:

Algorithm papers  
Chl, PIC, PFT, Chl  
Phytoplankton characterization   
Assessing Palmer Grid flux across 2 lines  
Working with David Munro coupling flux to Phytoplankton  
Linking to SOCCOM Bio-argo floats

Apel / Hornbrook / Asher / Gordon

Super-reactive biogenic gases

ORCAS+ATOM (+CONTRAST?) medium lived gases

VSLSs, Bromoform v. O2

Atlas / Schauffler

Multitracer mixing constraints

Relationships to Chl

HIPPO contribution to Apel

Alkyl Nitrates

Diao / D’Alessandra

RH wrt ice

Cloud microphysics - WRF / Chem

Gettelman

Simulations to support detailed cloud analysis (Diao, etc)

Sensitivity analysis of mixed phase and ice cloud microphysics

Comparison to CESM clouds

Jensen / Stith / Toohey

precursor to SOCRATES for

ice and water budgets for various cloud types

pysical processes (ice multiplication, Jorgen's giant aerosol) responsible for precipitation formation

Sweeney / Atlas / Apel

CO2, CH4, CH2Br2, +

CH4 => OH

CH2Br2 => vertical mixing timescale (or CH3NO3)

Residence time => CO2 flux

0 - Need to decide on Chl product most of use for STILT (time and space)

0 - Which effort(s) report large scale CO2 sink?

CO2 sink Team formed - self association

1-d box model calc (CS, KM)

Compare CESM to CT to Tak to Lanschutzer to SOCAT (MCL)

Run climatological fluxes fwd through CAM (MCL)

Tuning the dial calc (CS KM)

Short box Curtain Average calculation - calibrate to SNI using model(s) (BBS)

STILT inversion (Kort/M-H)

0 - Desire to meet at AGU or in the following year? Telecons?

AGU dinner

Meet next year

Loose ideas

Chemistry / chemicals far from sources (CH4 loss, Cl sink constraint, -CFC strat tracer?)

0 - get ballpark lifetimes for BL, mid-trop, and t’pause for handful of key transport tracers