



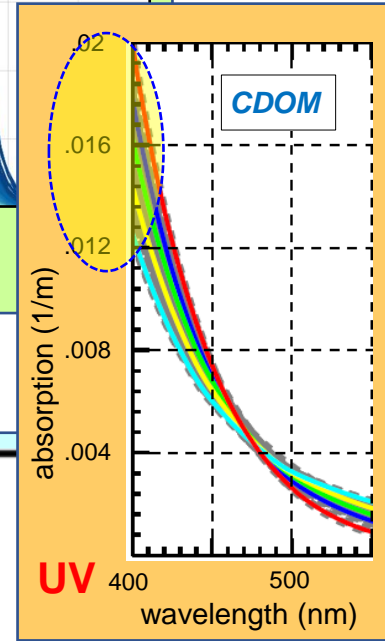
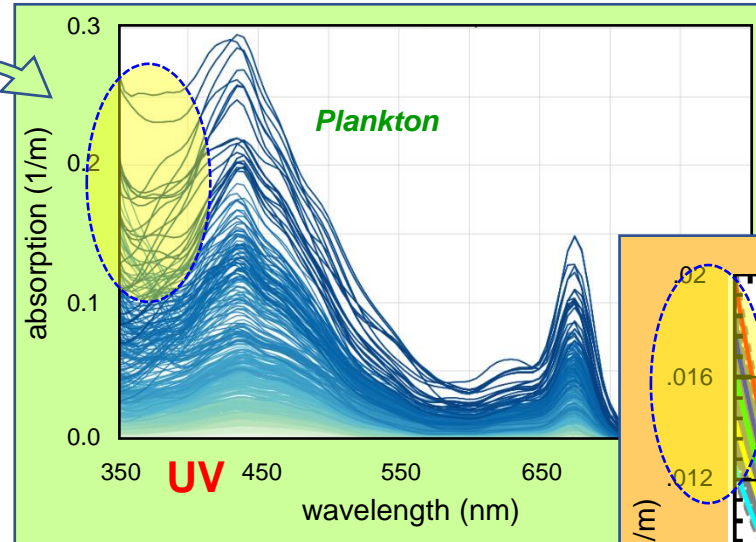
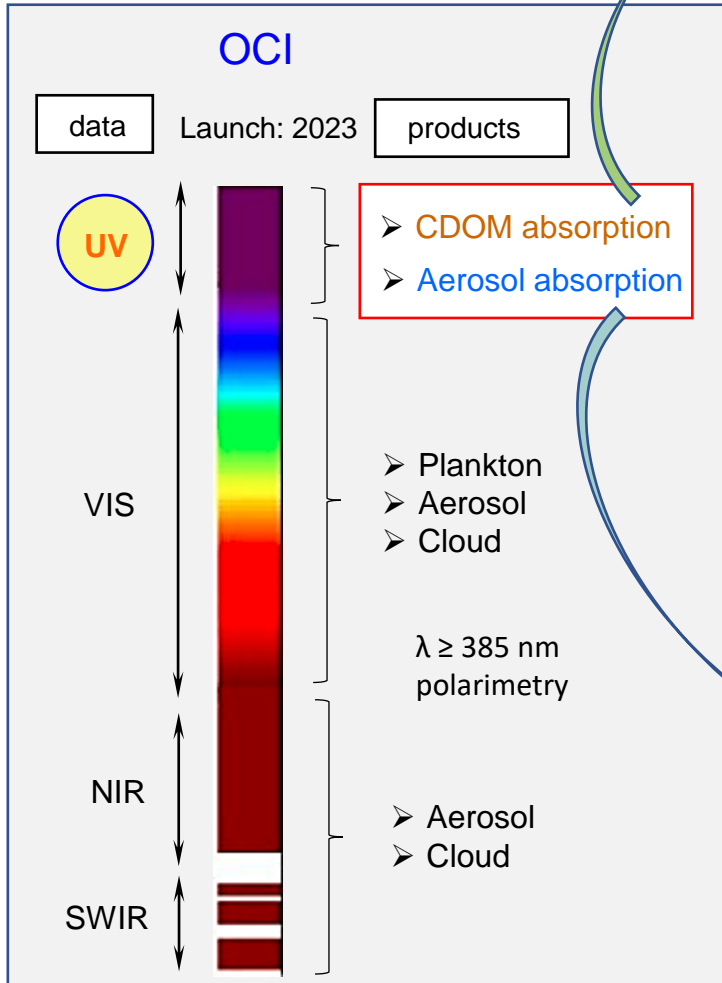
PACE UV Retrieval of Ocean and Atmospheric Data products (PACE UV ROAD)

Jacek Chowdhary, Hans Moosmuller, Greg Schuster, Li Liu
Matteo Ottaviani, Snorre Stamnes, Anna Wadhwa, Dariusz Stramski

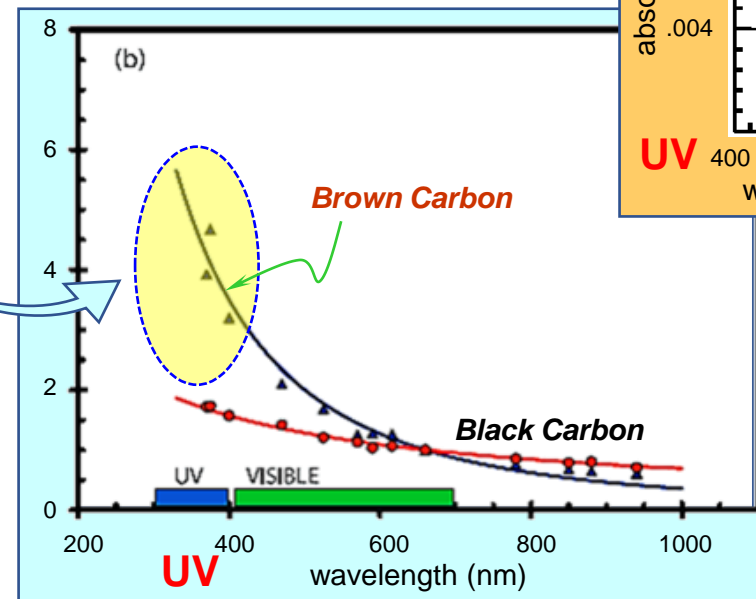


PACE UV ROAD

Motivation



SPEXone \updownarrow \leftrightarrow

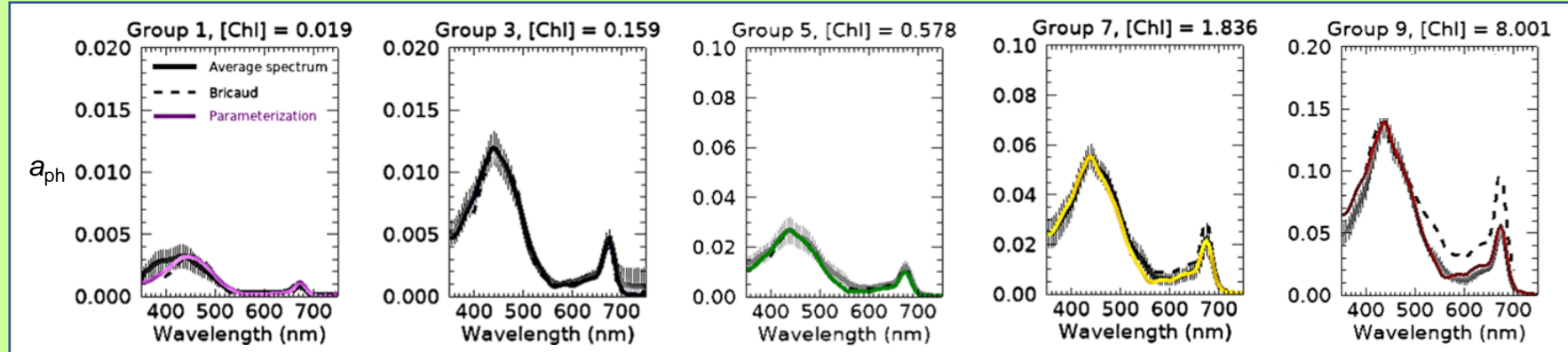


Models

Plankton $a_{ph}(\lambda)$

- ❑ Class 1 models (*co-vary with Chl*) – Exponential fit parameters $A(\lambda)$ & $B(\lambda)$ ready
- ❑ Class 2-4 models (*anomalous UV behavior*) – Work in progress (synthetic, MAAs)

Class 1



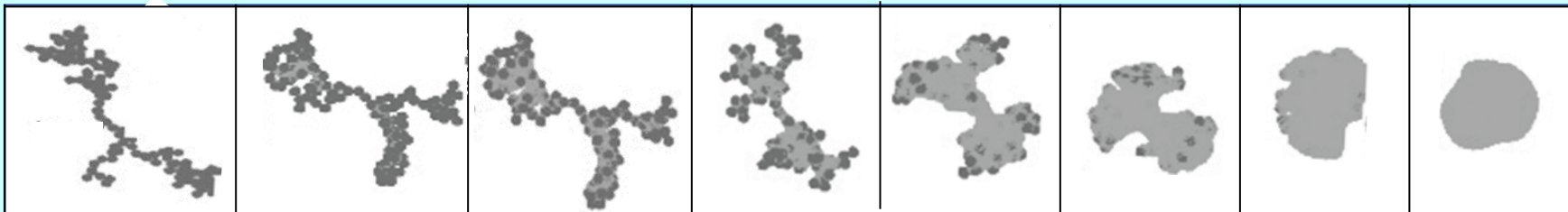
BrC $m_{BrC}(\lambda)$

- ❑ 3-parameter model (kAE , k_{350} , f_{HM}) – hyperspectral m_{BrC} , spherical shapes, currently being integrated into PACE-MAPP for **MAPP-A** aerosol retrievals

BC aggregate

- ❑ Shape-aging model (*age*, $10 \leq N_m \leq 1000$) – multispectral, available this month

Shapes





Please see our narrated presentation – *it contains more details on our modeling efforts and results for plankton absorption, brown carbon complex refractive index, and black carbon aggregate shapes*

thank you!