Regional Earth System Data Lab

4D (lon, lat, time, var) Vegetation data subset **Analysis Ready Data** GPP NDVI EVI FPAR **Cubes (ARDs)** dimmensions A. Pixel wise <u>analysis</u> **Data** Gap **PCA** standardization filling $\mu = 0$, $\sigma = 1$ Px. coord: Lat. 5.67°, Lon. -70.5° Ratio = 0.2 Fraction = 0.46 Mean PC 2 PC 3 RGB map Seasonal Cycle Absolute value of annual oscillation **Fast Fourier** Ratio of Seasonality **Power** annual and ratio map semiannual **Spectrum** Absolute value of (Fig. 5) oscillation semiannual oscillation **B. Biotic units** <u>analysis</u> Frequency Spatio-temporal analysis data aggregation **Driest** month precipitation layer Seasonality ratio Mean Seasonal by biotic untis in Cycle by biotic the climate space untis **Biotic** units map Seasonality ratio and Seasonally of biotic climate heatmaps units (Fig. 7) (Fig. 6)