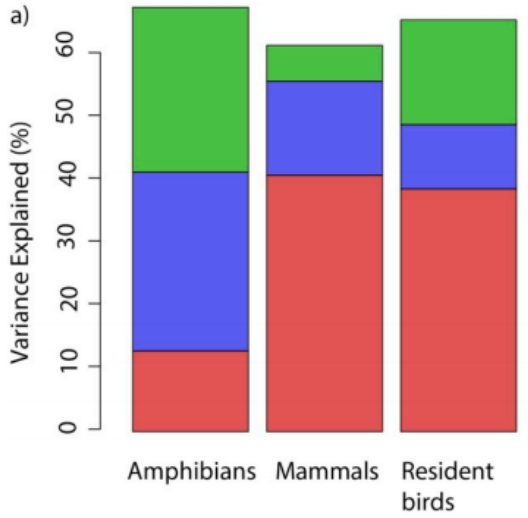
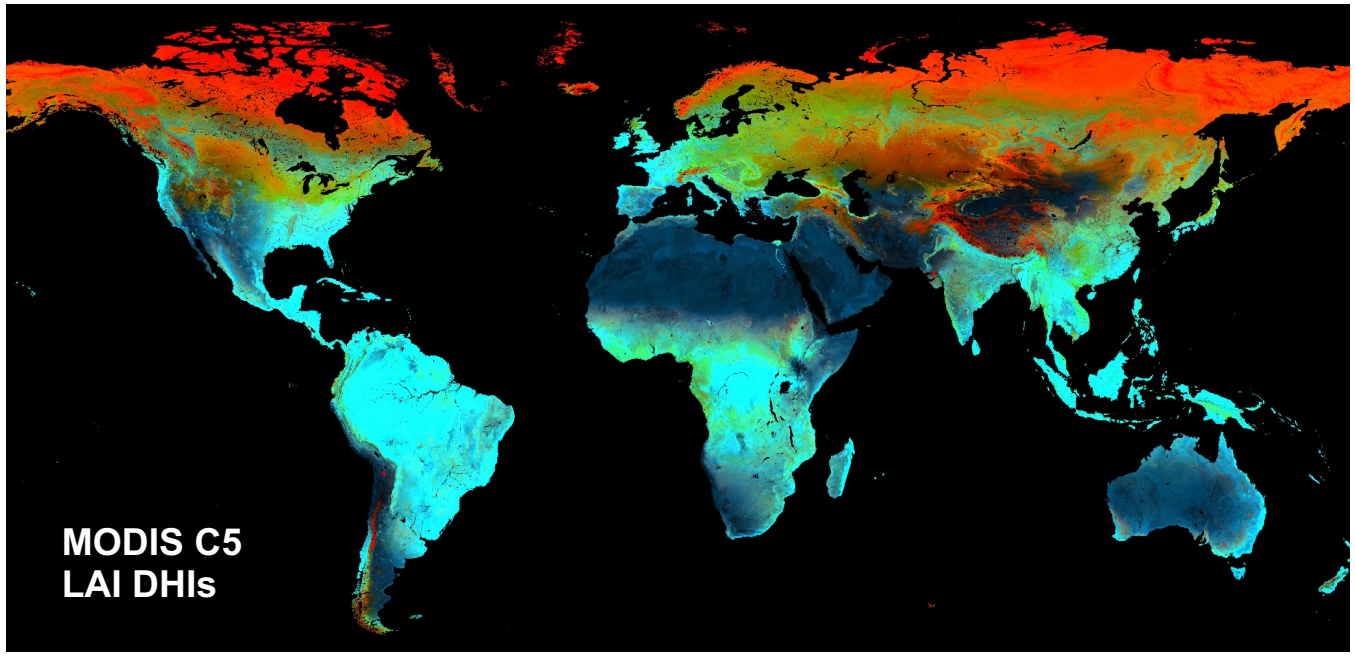
Radeloff et al, UW-Madison, The Dynamic Habitat Indices

Product Overview:

- The Dynamic Habitat Indices (DHIs) capture three aspects of annual productivity: cumulative (green, minimum (blue), and variation (red)
- Globally, the DHIs explain the majority of species richness in amphibians, mammals, and birds
- ***Our goal is to create a continuous time-series of the DHIs from Terra, Aqua, Suomi NPP and JPSS data***





Objectives:

- Update DHIs from MODIS C5 to C6/7, and add Suomi NPP/JPSS VIIRS
- Develop QA flags
- Write an ATBD
- Model biodiversity, adding reptiles
- Analyze trends in the DHIs

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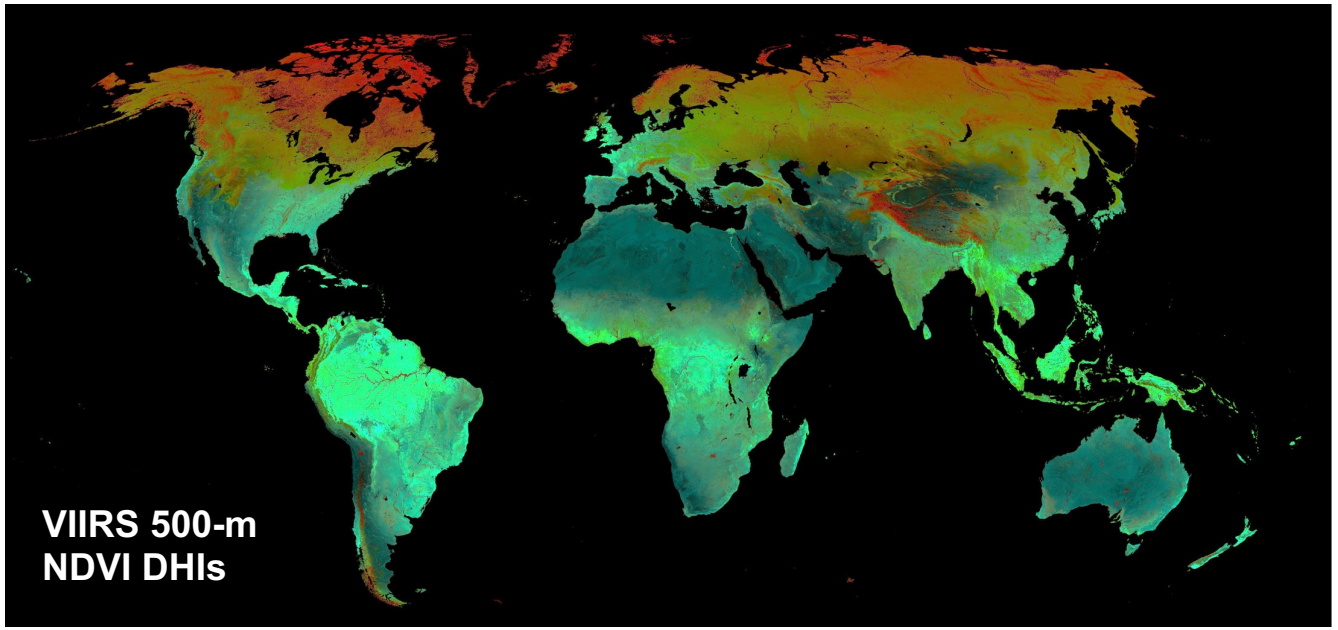
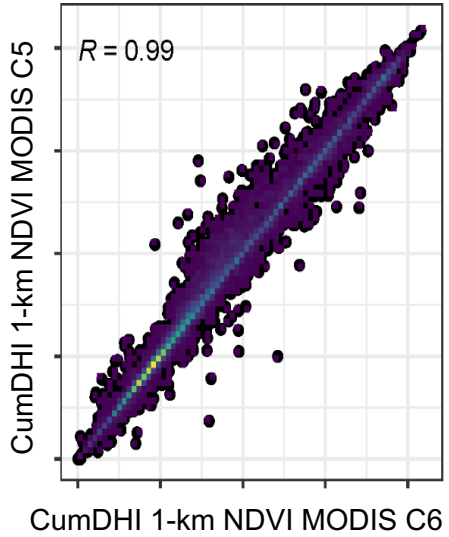
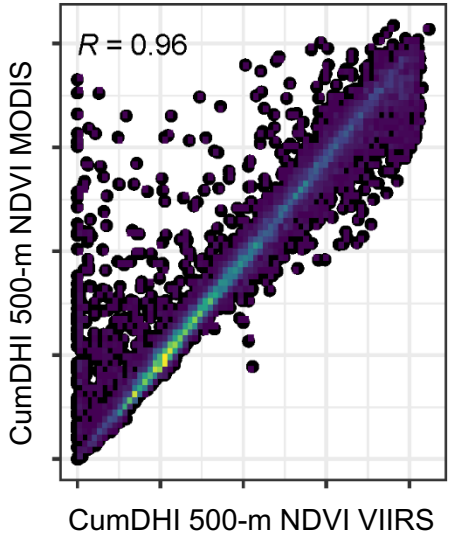
Product Status:

- Production of the DHIs going very well
- Composite DHIs for:
- - MODIS 250, 500, 1000-m NDVI and EVI
  - MODIS 500-m LAI, FPAR, and GPP
  - VIIRS 500-m NDVI, EVI, and EVI2
- Comparisons C5/C6 & MODIS/VIIRS encouraging







Product Milestones:

	Task	Year 1				Year 2				Year 3			
		F	W	Sp	Su	F	W	Sp	Su	F	W	Sp	Su
Part 1: Produce DHIs	Calculate composite DHIs												
	Calculate annual DHIs												
	Share the DHIs freely												
Part 2: Characterize DHIs	MODIS vs. VIIRS DHIs												
	QA flags for composite DHIs												
	QA flags for annual DHIs												
	Write ATBD for the DHIs												
Part 3 Ana-lyze	Significance in DHIs trends												
	Global biodiversity vs. DHIs												