

# MODIS – Vegetation Index Products

## Products

- ▣ Normalized Difference Vegetation Index
- ▣ Enhanced Vegetation Index
- ▣ Derived from atmospherically-corrected reflectance
  - Red, Near-Infrared, Blue Bands
- ▣ Characterize global range of vegetation states and processes
- ▣ Produced in 16 day intervals
- ▣ Application Area: AGRICULTURE

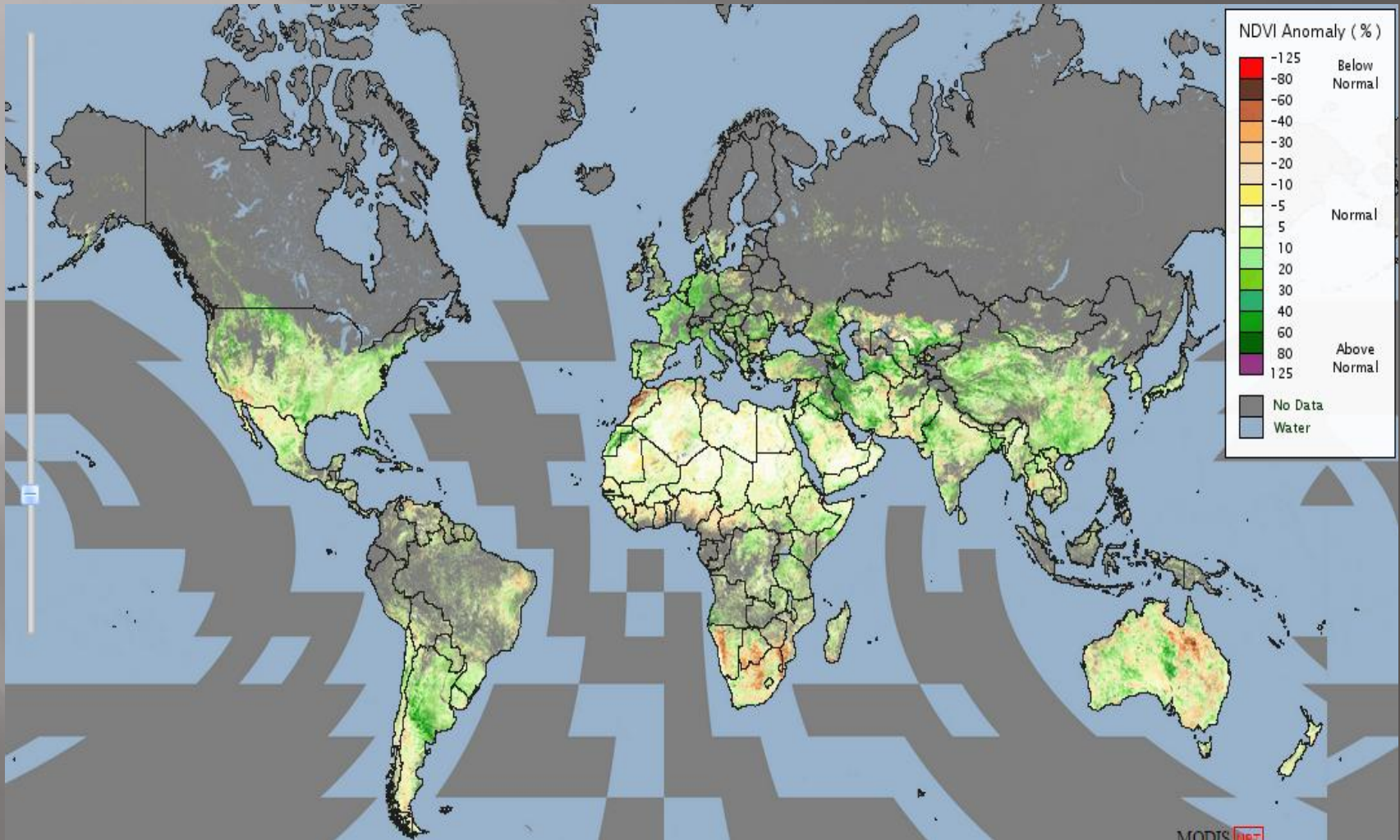
# MODIS/Terra Vegetation Indices 16-Day L3 Global 1km SIN Grid

MODIS Normalized Difference Vegetation  
Index (NDVI)



[https://lpdaac.usgs.gov/dataset\\_discovery/modis/modis\\_products\\_table/mod13a2](https://lpdaac.usgs.gov/dataset_discovery/modis/modis_products_table/mod13a2)

# Global Agriculture Monitoring



# Academic Research

Foreign Agriculture Service - Global Agriculture Monitoring System: <http://glam1.gsfc.nasa.gov/>

- ▣ Joint program to watch food stability , markets, global agriculture, crop yeilds
- ▣ Powerpoint

[https://vip.arizona.edu/documents/workshop/docs/general\\_session/USDA\\_FAS\\_Jan2013\\_reynolds.pdf](https://vip.arizona.edu/documents/workshop/docs/general_session/USDA_FAS_Jan2013_reynolds.pdf)

Xiao et al. (2005). Mapping paddy rice agriculture in southern China using multi-temporal MODIS images. *Remote Sensing of Environment*, 95: 480-492.

Alcantara et al. (2012). Mapping abandoned agriculture with multi-temporal MODIS satellite data. *Remote Sensing of Environment*, 194: 334-347.