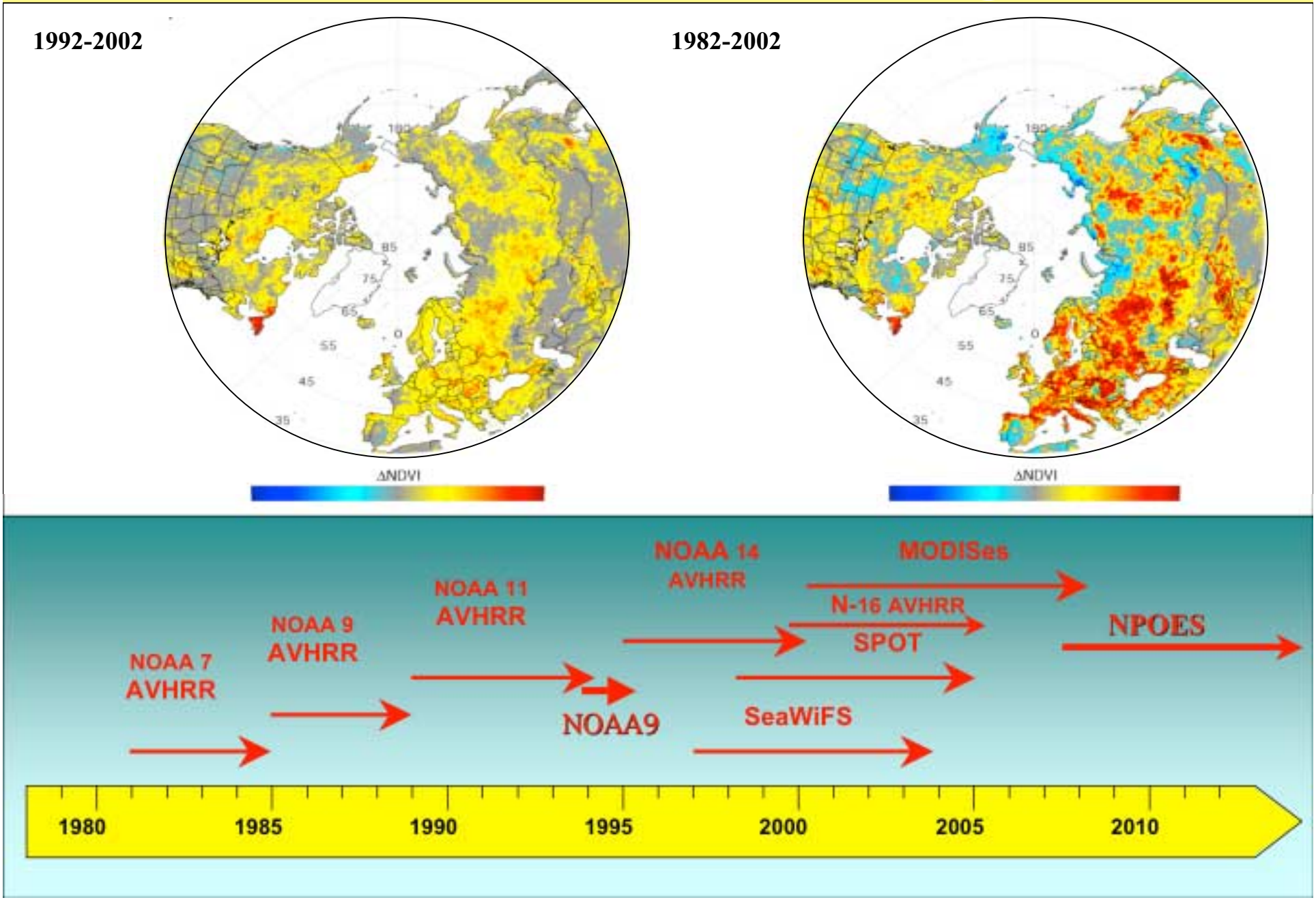
Global Inventory Modeling and Monitoring Study

FY2004 Funding to date **Journal articles 2003: 14**

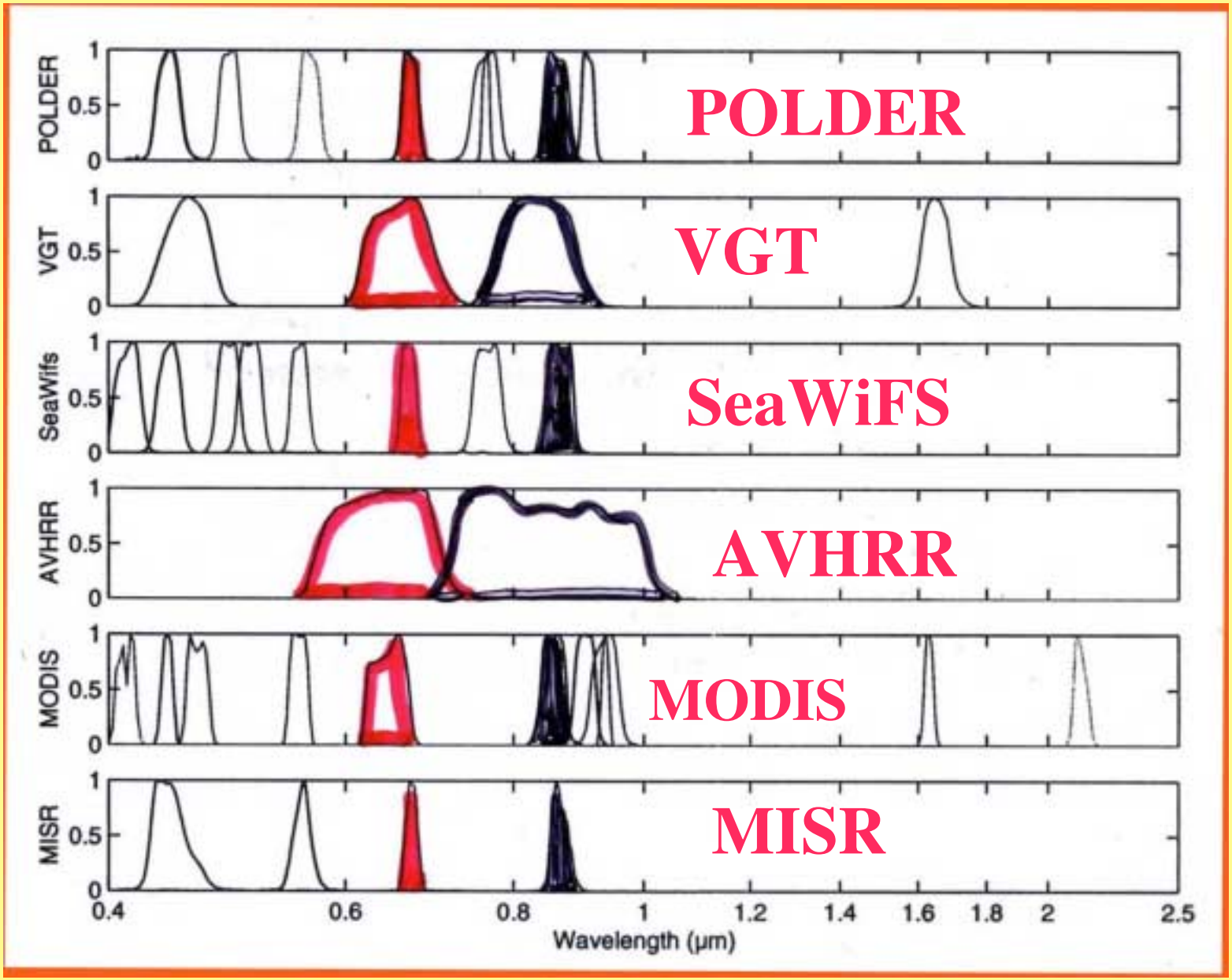
	GIMMS's Funding FY04	Amount	Purpose
		(k$)	
1	USAID Famine Warning	$305	Famine early warning from US AID
2	USAID Cen. Africa For.	$85	Central African Regional Program on Environment
3	USDA-FAS	$150	Satellite data for FAS USDA
4	USDA-FAS	$250	Satellite data for FAS USDA
5	US Army	$190	Satellite monitoring of infectious diseases
6	Reason-Can AVHRR	$50	Reprocessing of AVHRR record 1981-2004...
7	NASA-plague	$160	SW USA plague outbreaks
8	Sensor Development	$100	Shortwave infrared advanced sensors
	total:	$1,290	

Presentation today: AVHRR Topics, Famine and Agriculture, Death and Disease, Tropical Deforestation, and Proposed North American Carbon Research.

Decadal trends in *terrestrial* vegetation

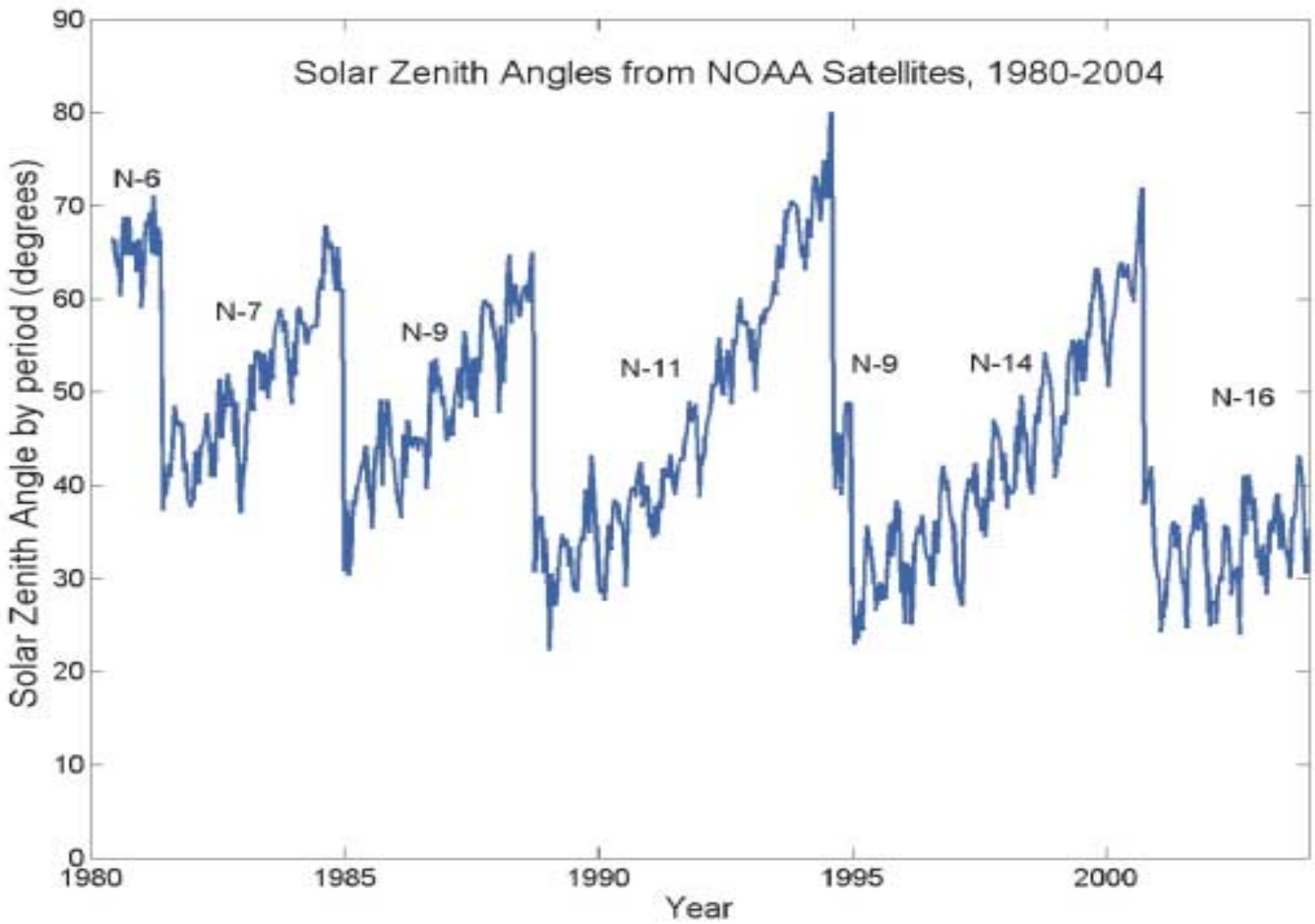


VIS/NIR/SWIR Band Comparison

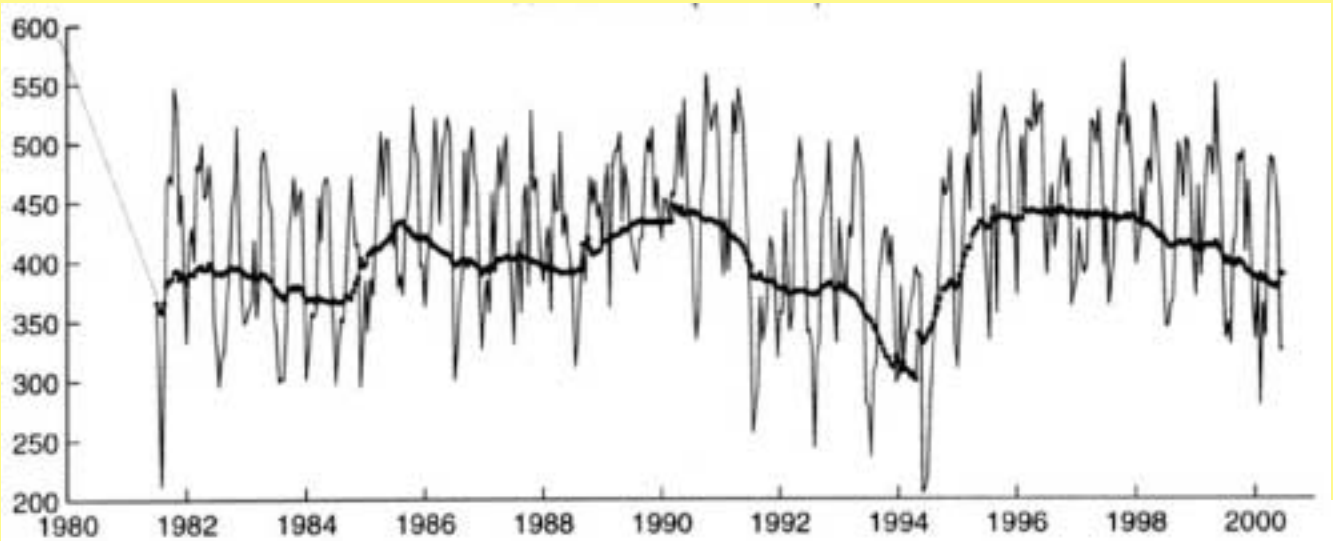


NOAA AVHRR 8-km NDVI Data Set

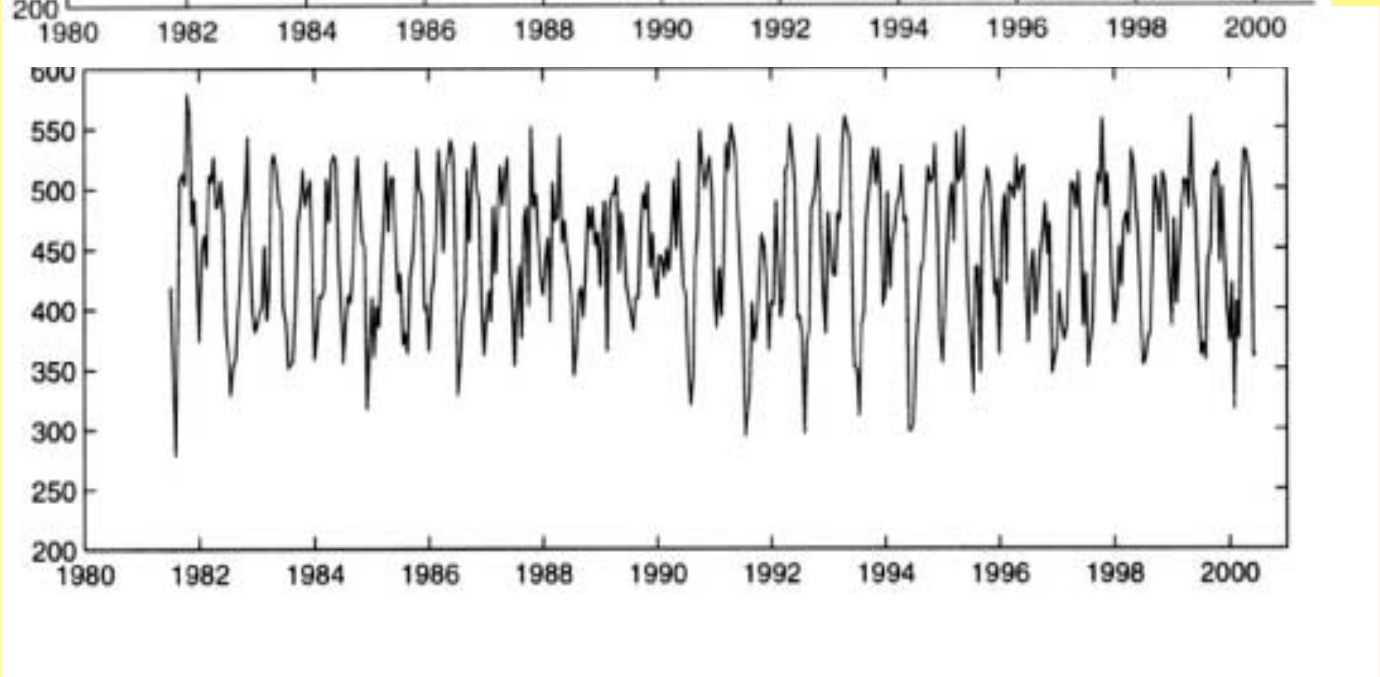
AVHRR analyses require Solar zenith angle correction



Solar Zenith Angle Correction

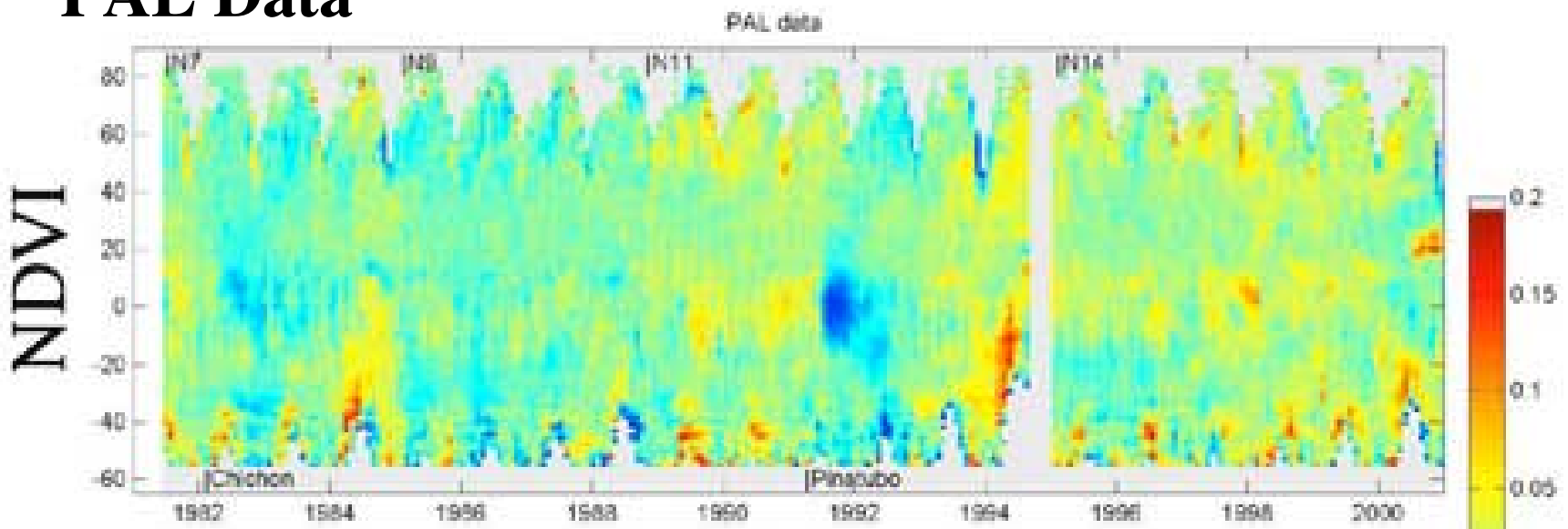


Uncorrected NDVI with trend line for African Tropical Forest



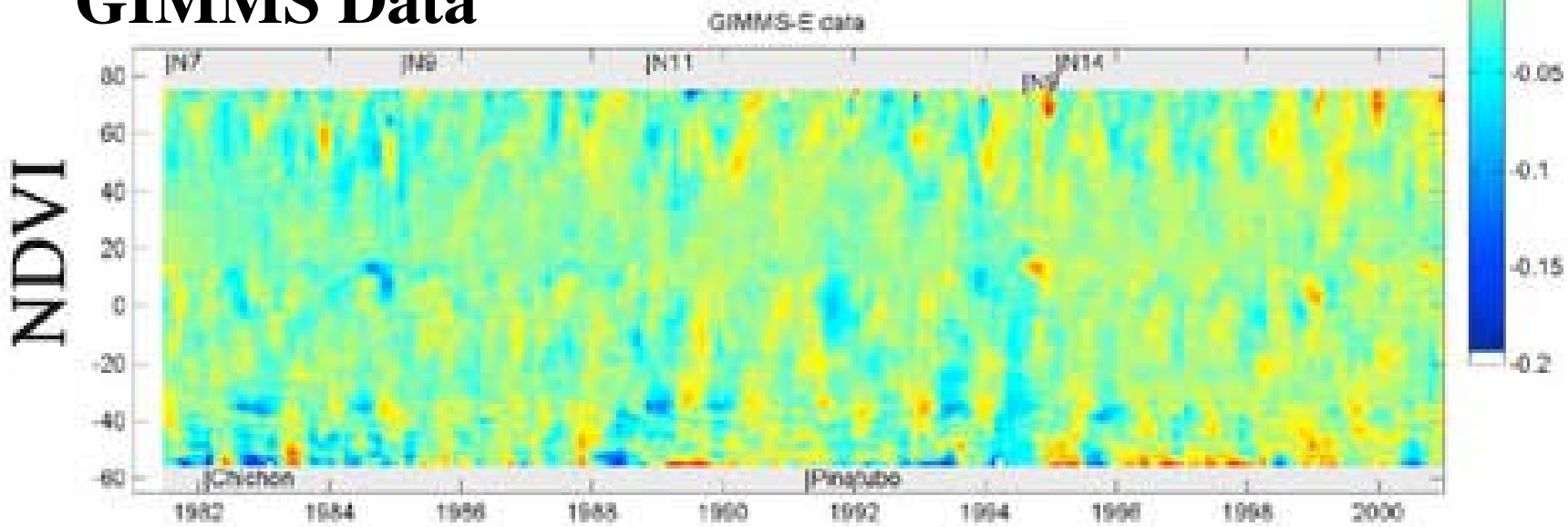
Reconstruction of NDVI time series with solar zenith angle artifacts removed by EMD

PAL Data



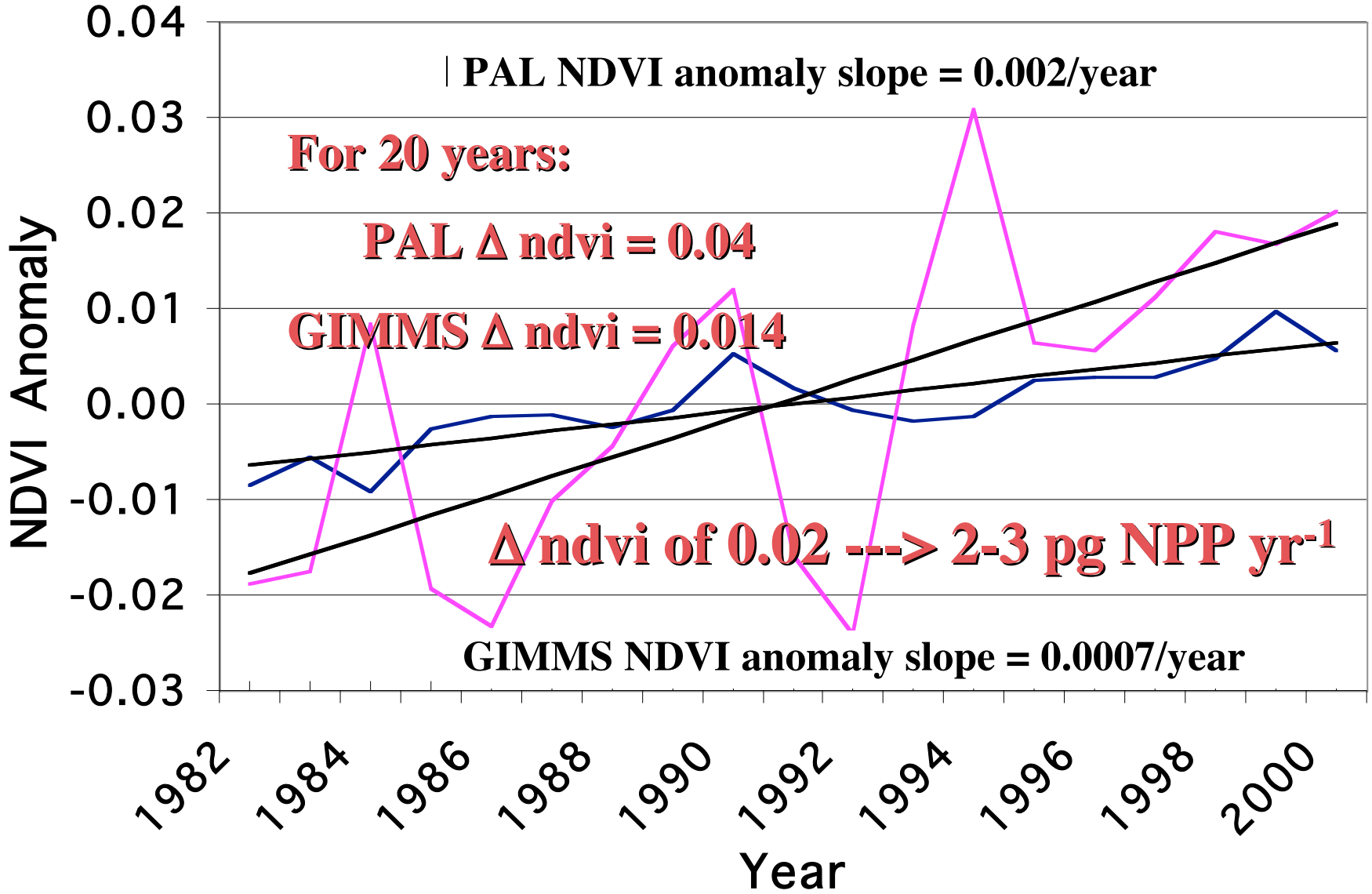
1982-2000 NDVI Anomalies

GIMMS Data

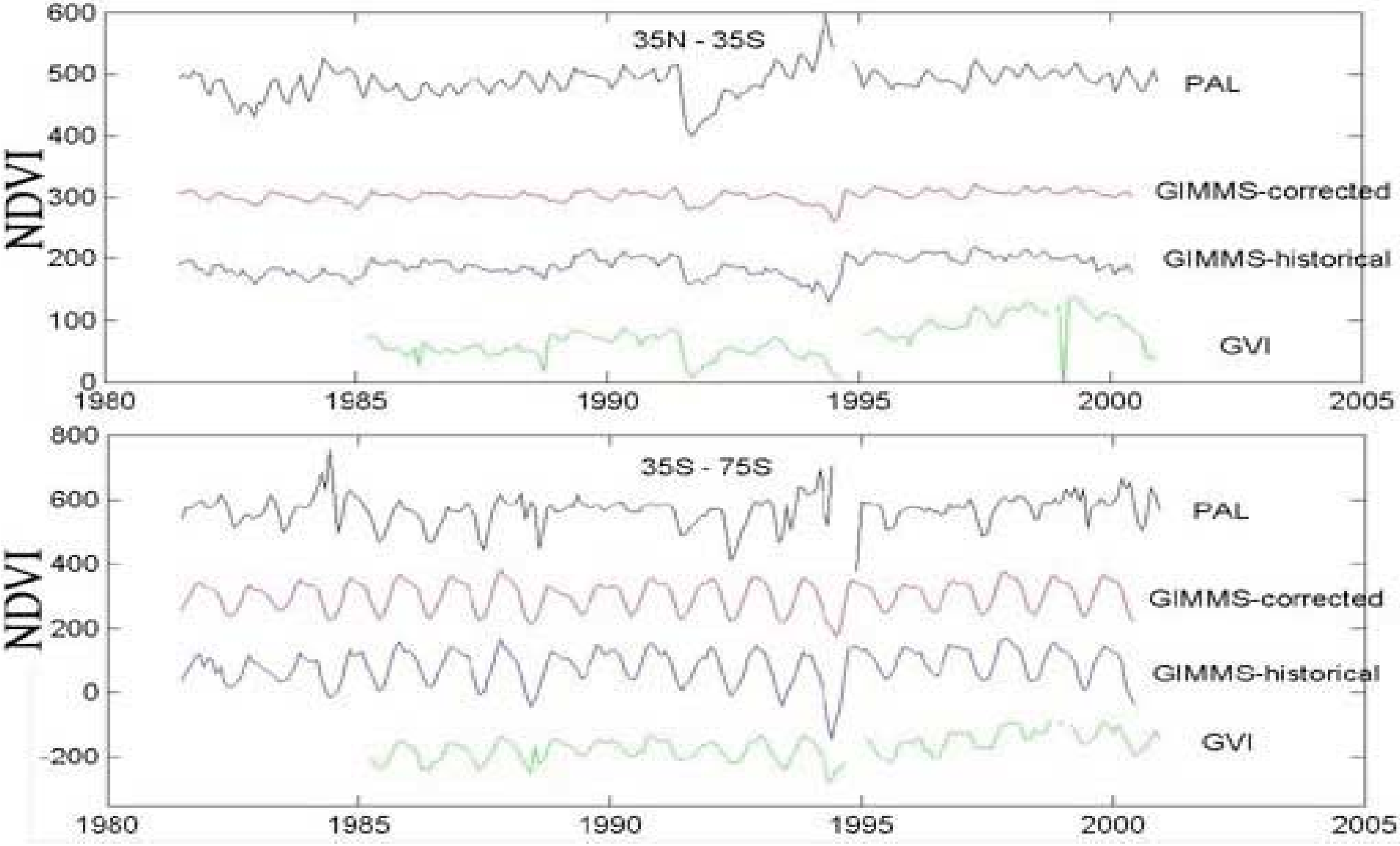
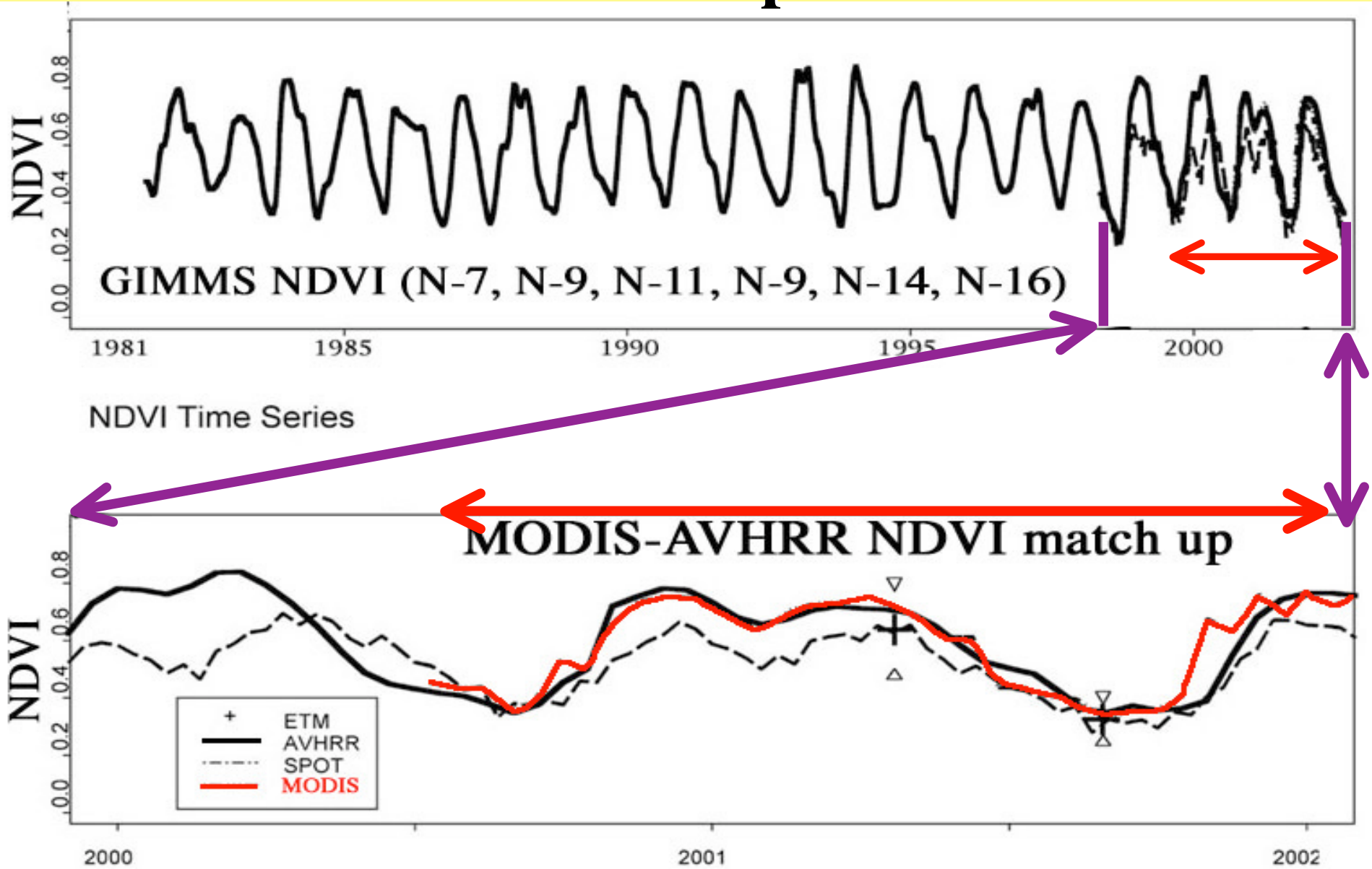


Year

PAL vs. GIMMS NDVI Anomalies



Serious NDVI problems with PAL and GVI for 35° N-75° S



Ready for Prime time:
AVHRR NDVI match up to MODIS NDVI