Analysis for Variabilities Present in Different Components of Earth System Science

at

Emerging Trends in Ocean Observation and Ocean Data Analysis

4-15 July 2016 INCOIS

(GROUP-1)

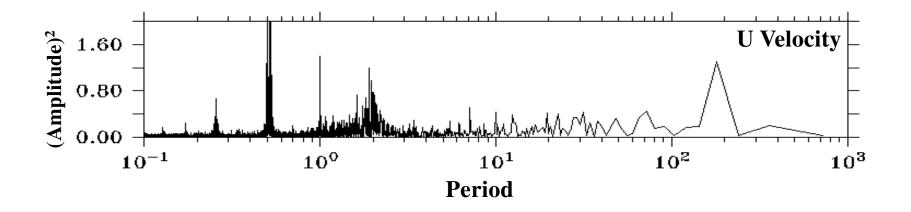
Introduction & Objectives

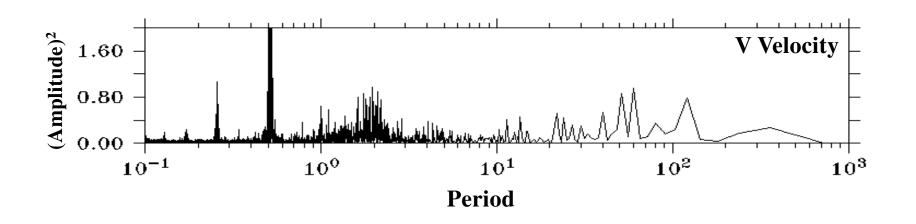
Emerging Trends in Ocean Observation and Ocean Data Analysis is the workshop conducted at INCOIS.

The objectives of the workshop is as follows

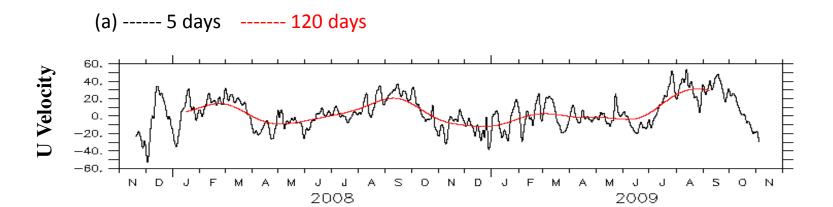
- FFT analysis for current data
- Using filter for various frequencies present in current data
- Use of wavelet analysis for the current data
- Carbon flux analysis

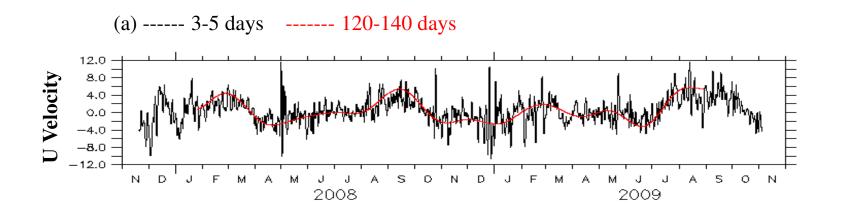
FFT for Moored Buoy at 90 °E, 15 °N at 10 m Depth



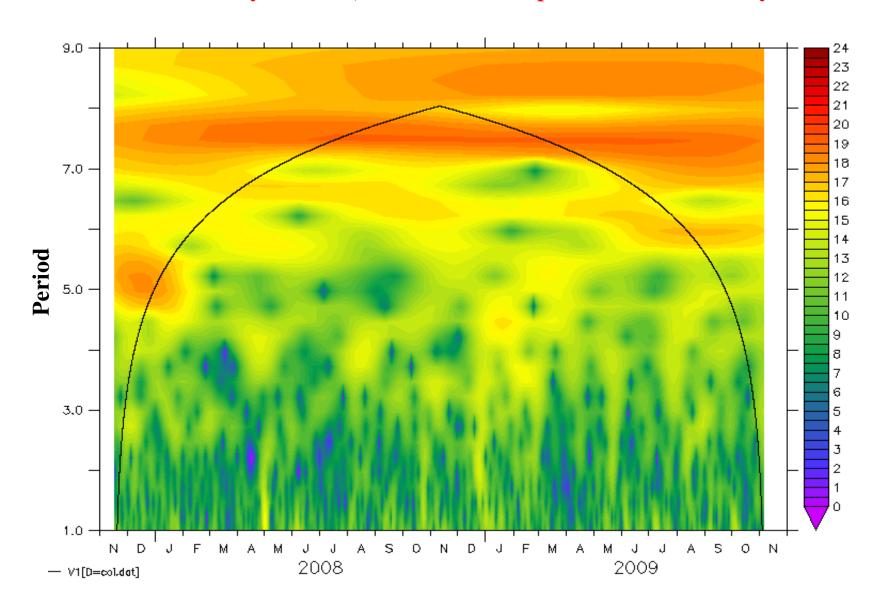


Lanczos Filter

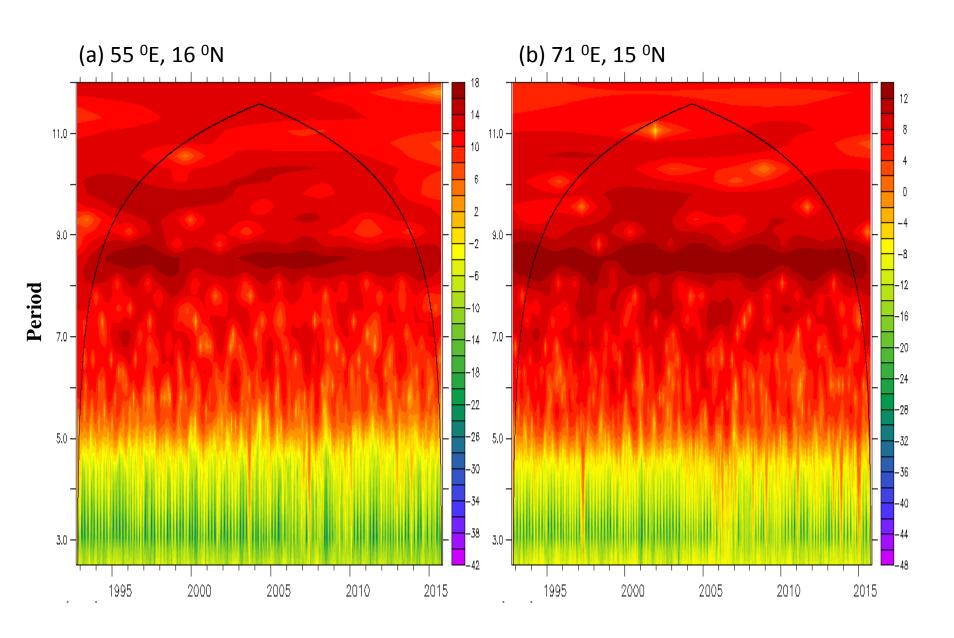




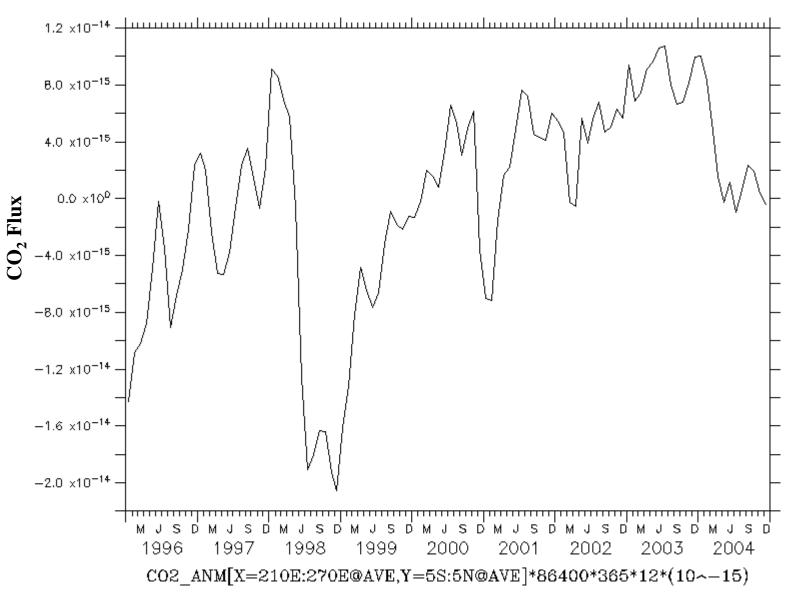
Wavelet Analysis 90 °E, 15 °N at 10 m Depth from Moored buoy



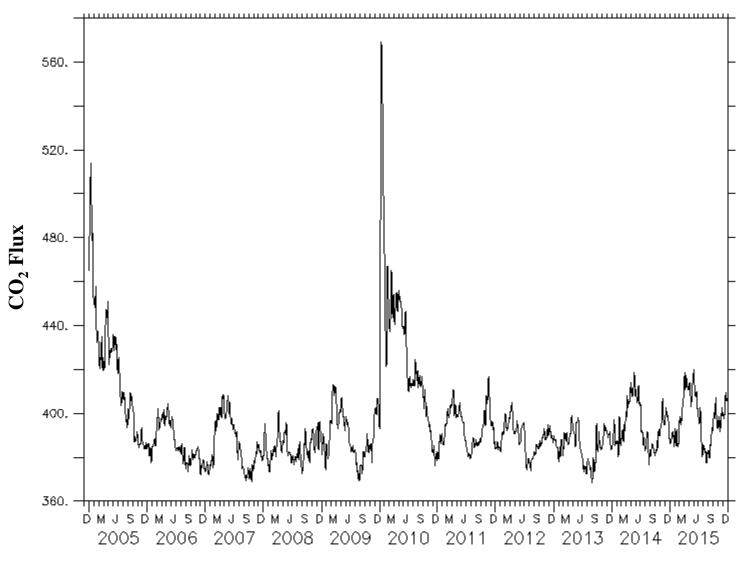
Wavelet Analysis of Current from Oscar



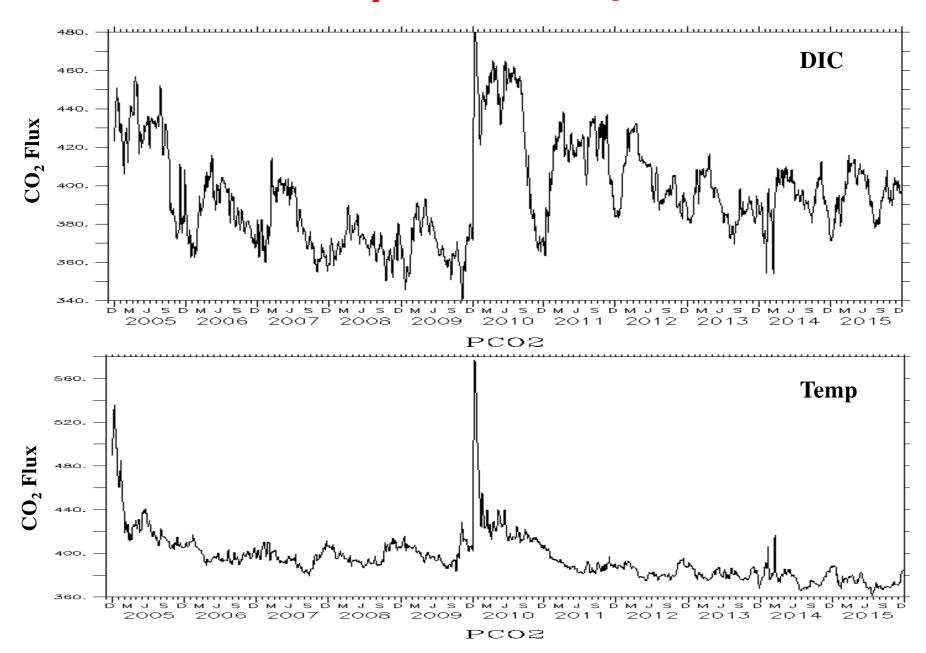
CO₂ Flux at Nino 3.4 region in PG/Yr



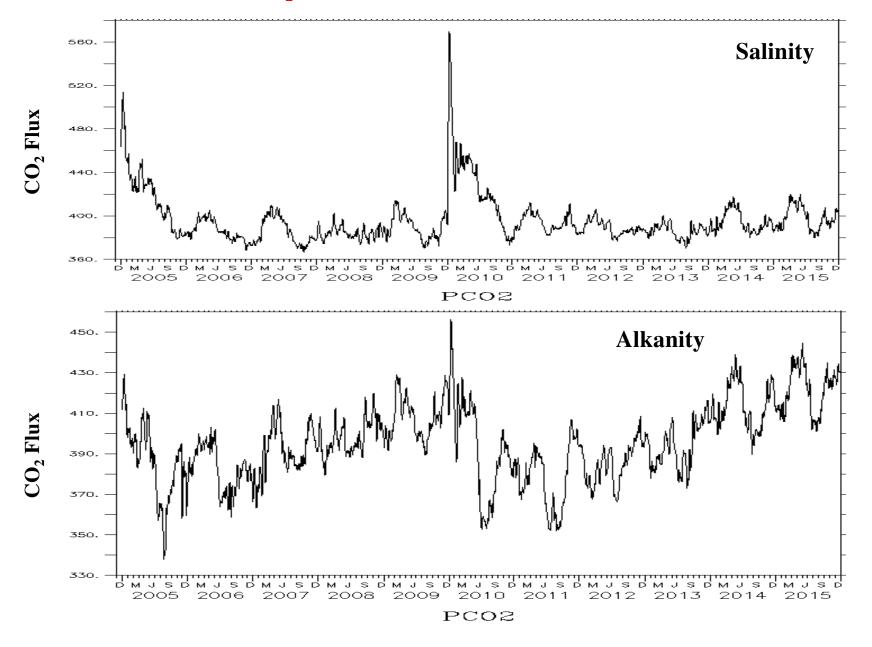
CO₂ Flux from Ctrl Run



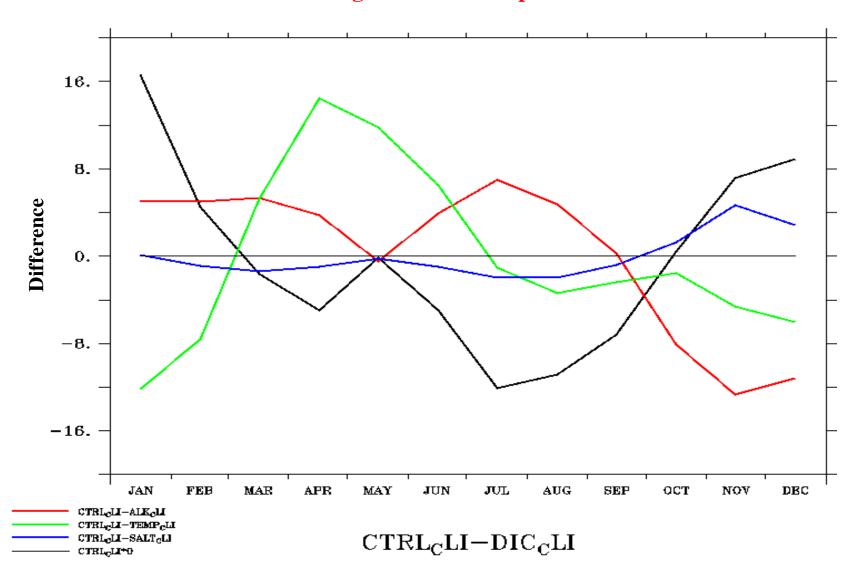
CO₂ flux from DIC & Temp



CO₂ Flux from Salinity and Alkanity



Effect of Removing Different Component from Ctrl run



THANK YOU