



中国国家海洋局第一









FIO-AMFR RAMA Buoy/Mooring Observation

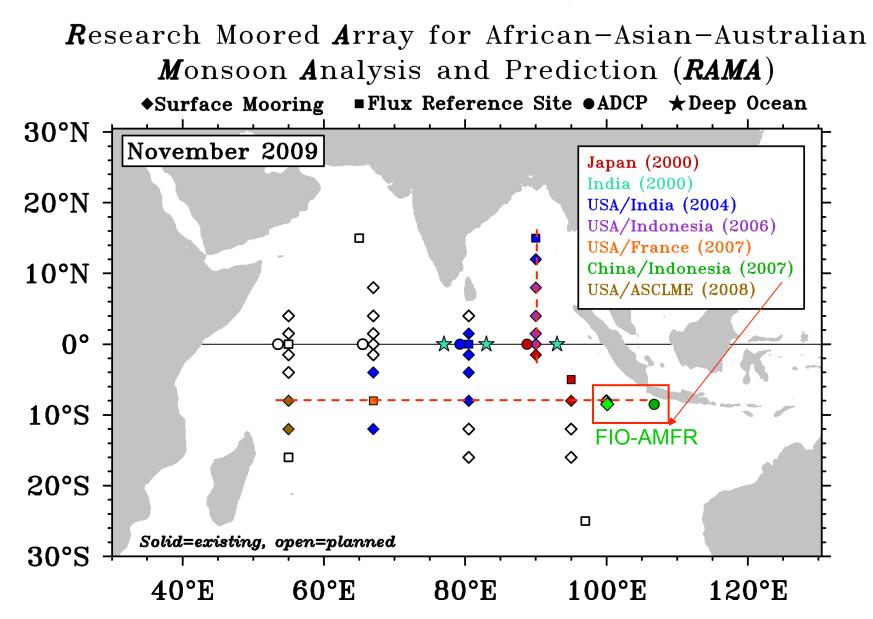
Chunlin NING, Weidong YU

Lab. Ocean-Atmosphere Interaction and Climate Change

First Institute of Oceanography, SOA

Significant progress since IOP-6 meeting.

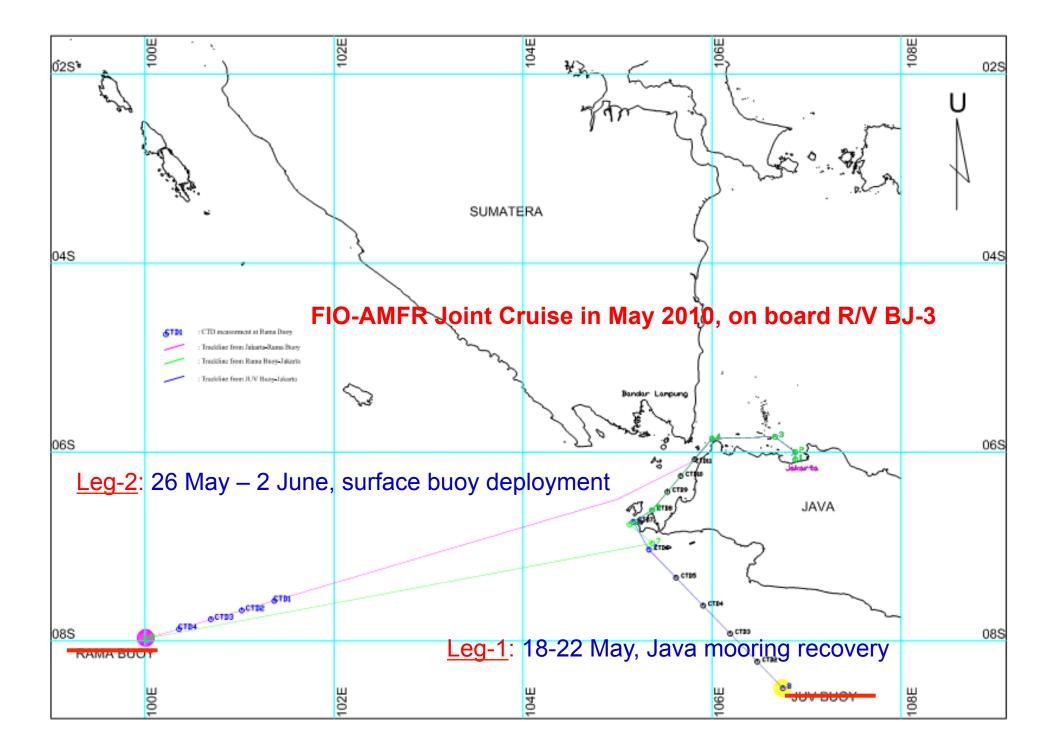
Two RAMA sites are completed.



FIO-AMFR Joint Cruise Summary

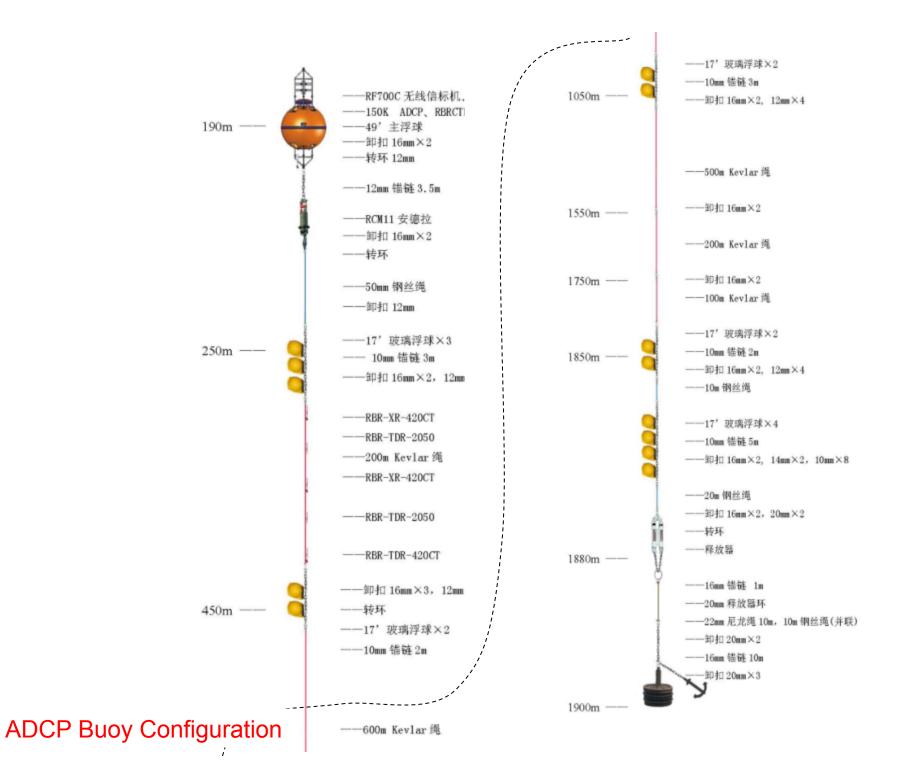
in support of IndOOS Implementation

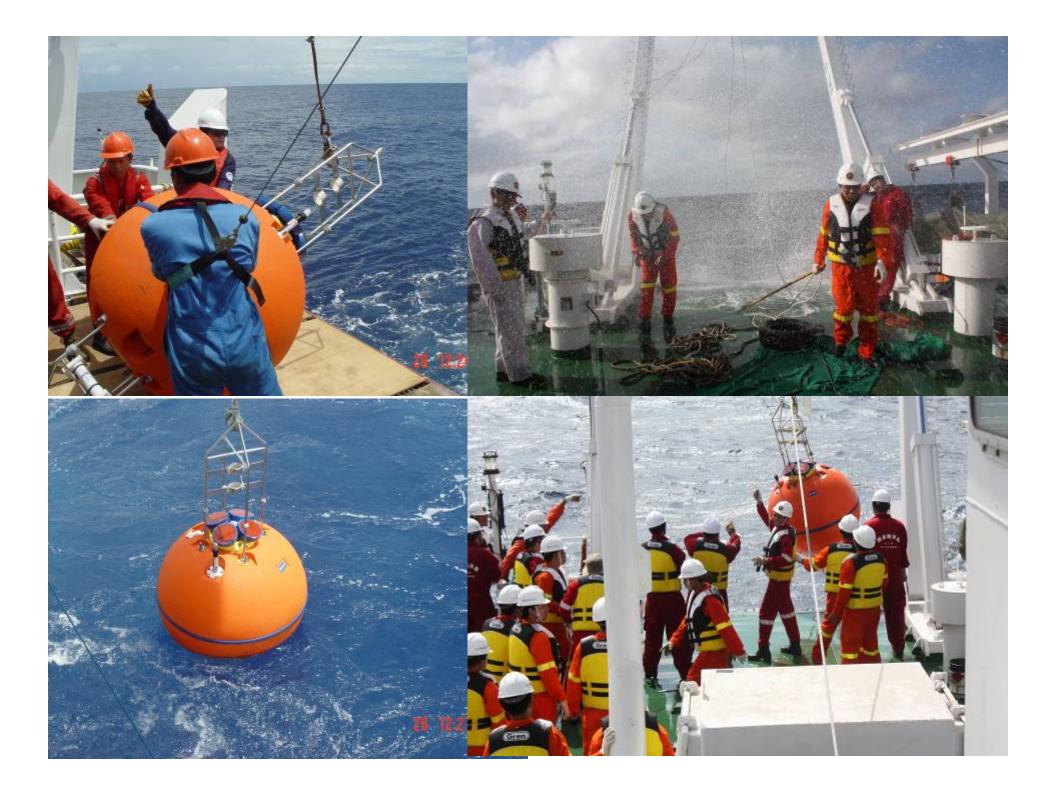
No.		Cruise Period	Days	Ship	Description
1		12-19 Nov. 2007	8	BJ-3	Java mooring deployment
2		08-15 Apr. 2008	8	BJ-1	Java mooring recovery (failure and lost)
3		24-29 Dec. 2008	6	BJ-8	Java mooring new deployment
4		06-11 Sep. 2009	6	GEOMARI N III	Java mooring R(ok)/D
5		21 Feb. – 1 Mar. 2010	9	BJ-3	Surface buoy deployment at (100E, 8S) with data transmission problem
6		18-22 May 2010	5	BJ-3	Java mooring R (ok)
	2	26 May-2 Jun. 2010	8	BJ-3	New buoy deployment with successful data transmitting.
		Total	50		

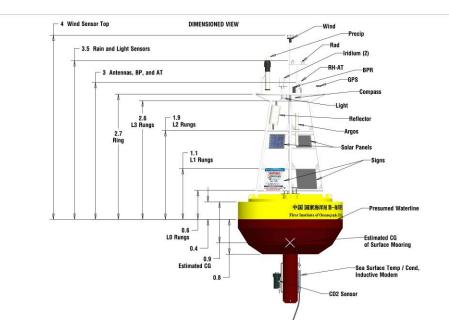


Detail information of the two Sites

- 1. ADCP buoy at (106E, 8S)
- In place since Nov. 2007 and valid data stream since 26 Dec. 2008
- 18 months data will be posted on FIO website soon
- Data includes: 0-200m current profile and 200-500m T-profile
- 2. Surface buoy at (100E, 8S)
- In place since 29 May 2010
- Daily data has been posted on FIO ftp and PMEL website
- Data includes the meteorological parameters: wind speed and direction, air temperature, relative humidity, air pressure, shortwave radiation, long wave radiation, unfortunately precipitation missed due to damage in the deployment
- **Data includes** the *T*-profile down to 700m and S-profile down to 100m

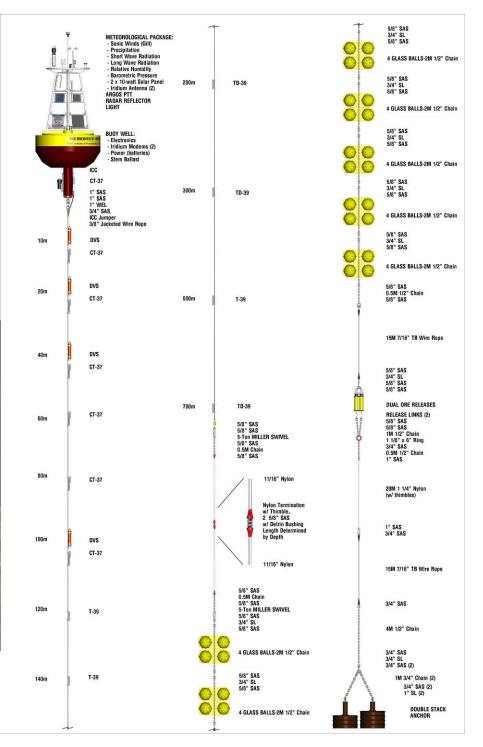


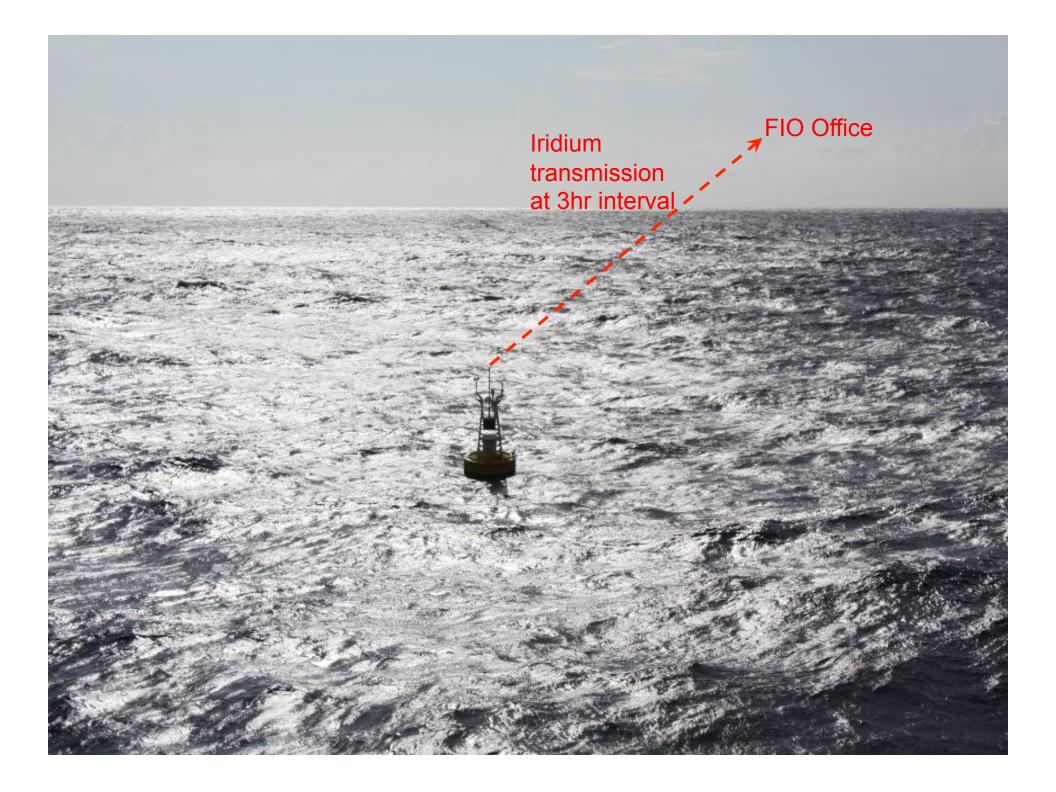






Surface Buoy Configuration





Hardware of the Communication System in Lab.





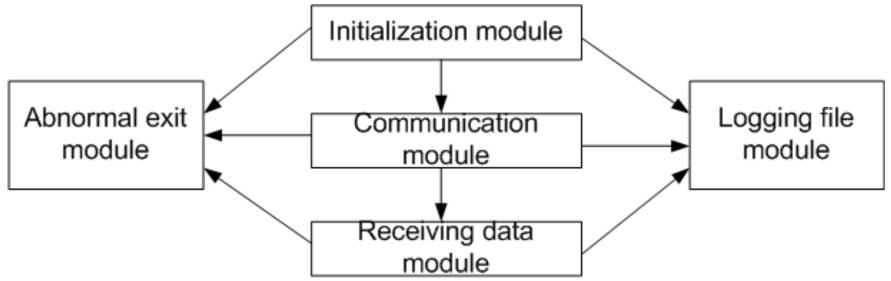


Software of the Communication System

Communication System based on Iridium System		×			
The program is running now.Please don't close.					
LOAICC, FIO, SOA	Time begin: 2010-9-14 6:35:44				

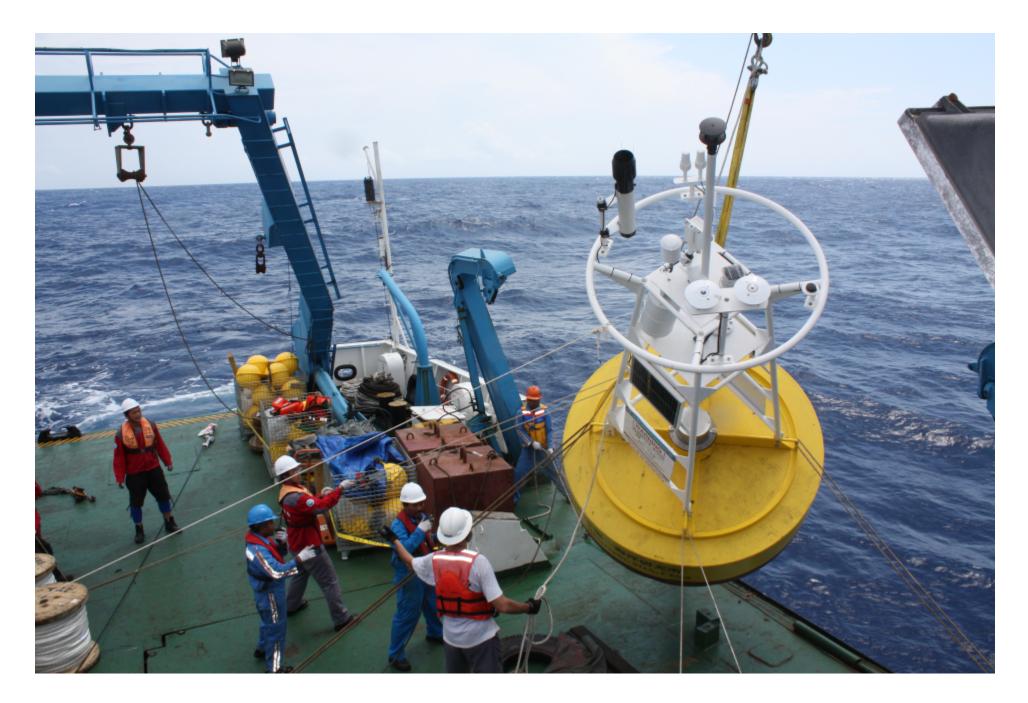
- 1. Unmanned program
- 2. Auto create log files and data files

The software's construction



Communication Data

- 1. The data's website is <u>ftp://ftp.fio.org.cn/</u>
- 2. The daily 24hr average data is provided
- 3. The Data is updated every day.
- 4. The data is then disseminated
- to the RAMA data website.

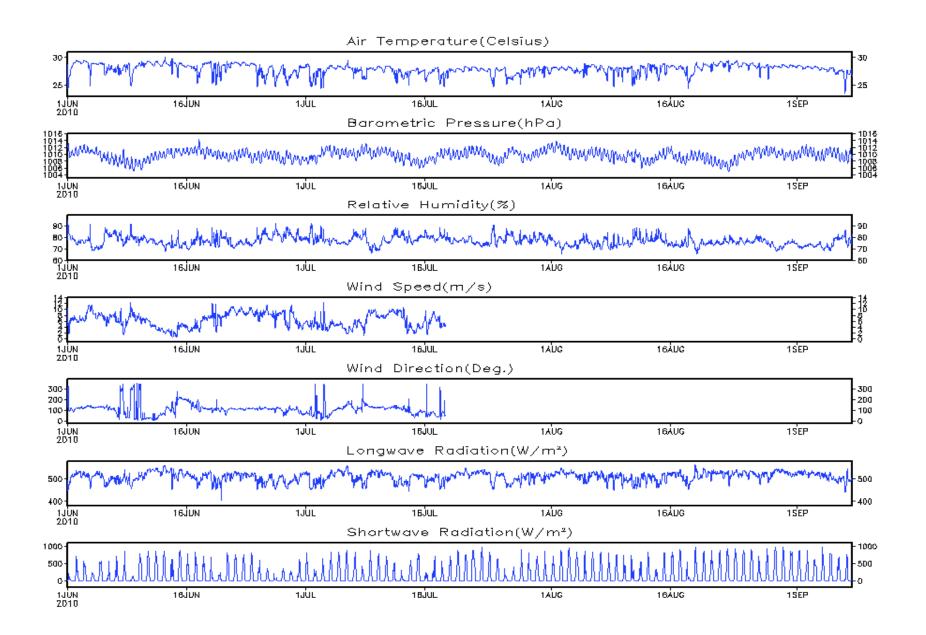


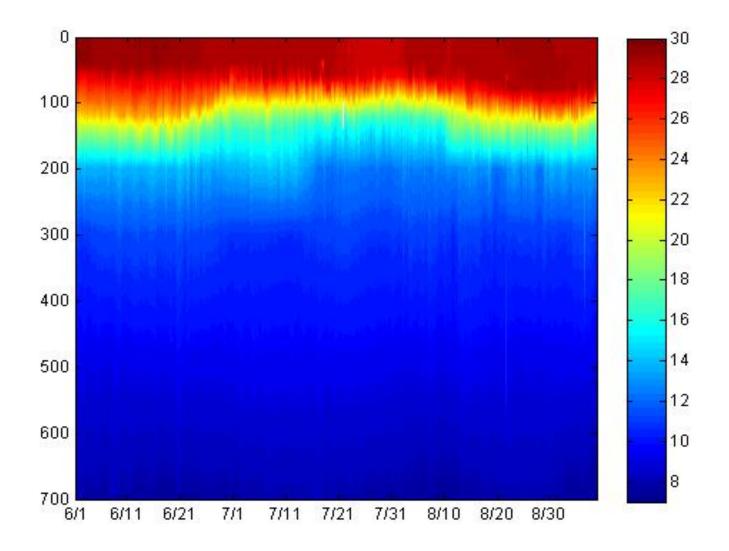
Surface Buoy Deployment on 29 May 2010



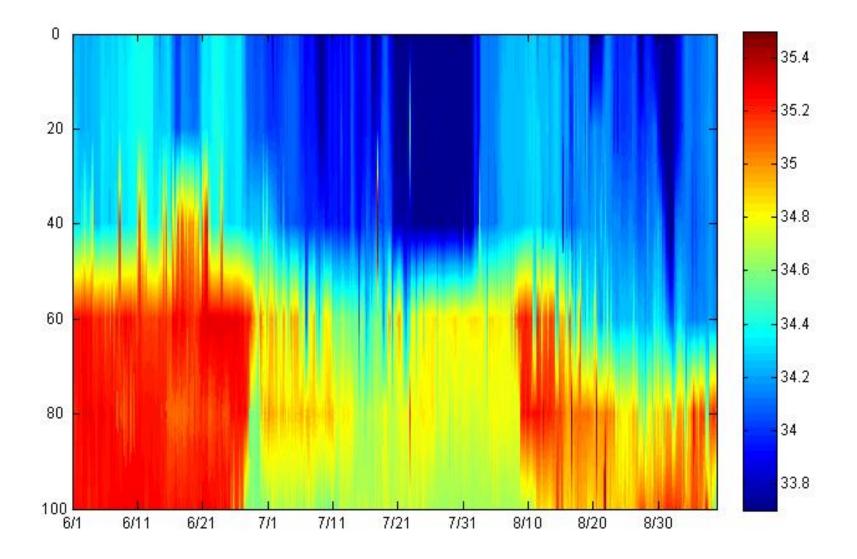
Working in the rain

Hourly meteorological data plots from June 1st to Sep. 7th 2010



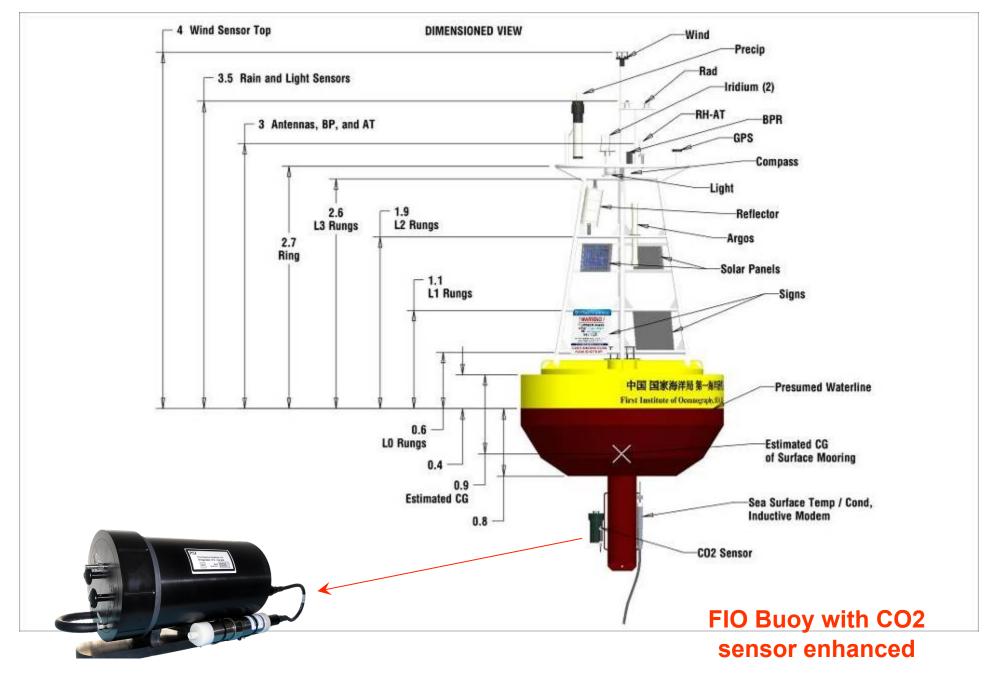


Hourly S-profile (0-100m) plot from June 1st to Sep. 7th 2010









PSI CO₂-Pro[™]: Pro-Oceanus System Inc., Canada

