NANO NEARSHORE HYDRODYNAMIQUE GROUP
Ivory Coast (west Africa)

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Background:

- **NANO-NHG Report 2013 (Tunis)**: nearshore wave-climate modeling at eroding coastal sites in Angola, Nigeria, Ivory Coast and Tunisia (RBR and Weather Station)

- **NANO-NHG Report 2014 (Abidjan)**:
  - Wave modeling using DELFT3D (Christo)
  - RBR and MetPAK deployment
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RBR AND METPAK LOCATION
FILED TRIP 1 : RBR DEPLOYMENT

RBRvirtuoso : pressure recorder with intermittent and continuous wave burst and tidal averaging

Deployment : Saturday, May 30 2015

Sponsors :
- CIAPOL
- Army (national Marine)
- Abidjan harbor (PAA)
Deployment : Friday, July 3 2015

WindSonic+Base Station

Data logger (Metstream 100)
DATA ANALYSIS

TIDE AND WAVE GAUGE

- Wave height
- Wave period
- Tide

WEATHER STATION

Wind – rose 2015-08-01
Flow nearshore simulating using DELFT3D-FLOW

WATER LEVEL
Flow nearshore simulating using DELFT3D-FLOW

DEPTH AVERAGE VELOCITY
Project in Brazil

Observation
SiMCosta: Sistema de Monitoramento da Costa Brasileira

- Met-ocean costal mooring network;
- Near-real time public data;
- Hourly measurements;
- First buoy installed in the São Sebastião Channel, Brazil;

http://www.simcosta.furg.br
São Sebastião Channel
SiMCosta mooring
Selected time-series
Seasonal winds
Seasonal T—S diagrams
The way forward: 2016 proposal

- New member to join NHG. Wind, sea level & wave observation equipment will be provided;
- Collaboration with the Southeast Asia group (water quality);
- Redeployment of pressure sensor in Tunisia and Ivory Coast;
- Deployment of weather station in Tunisia;
- Get met-ocean data for the Brazilian study site(s);
- Numerical simulation of the flow, waves & sediment transport;
- Measurements and modelling of water quality (multi-sensor, Delft3D-WAQ);
- Data management (NHG data base);
- NHG webpage management
CHOKRAN!

THANK YOU!

Partnership for Observation of the Global Oceans