

## Introduction to NPOCE

(Northwest Pacific Ocean Circulation and Climate Experiment)

#### **Dunxin Hu**

Institute of Oceanology, Chinese Academy of Sciences (IOCAS)

with many contributors from various countries

(Australia, China, Germany, Indonesia, Japan, Korea, Philippines, and USA)

NPOCE Inauguration Meeting May 30, 2010, Qingdao, China



### **Goals and Objectives of NPOCE**

The GOAL of NPOCE is to improve the understanding of the NWP ocean circulation dynamics and its role in warm pool maintenance and low-frequency variability, modulation of ENSO cycle, the EAM variability, and tropical cyclones.

Theme1: Western Boundary Currents

Theme2: Interaction with Ambient Circulation Systems

Theme3: Roles in Warm Pool Maintenance and Variability

Theme4: Regional Air-Sea Interaction and Climatic Impacts



Design of NPOCE field experiment



(From NPOCE Science/Implementation Plan, 2010)



## NPOCE Timetable

	2004 2007	2008	2009	2010	2011	2012	2013	2014	2015
PROGRAM PLANNING	NPOCE Workshops Formulation of Scientific Issues Observation Program Design Review, Submission to CLIVAR Adjustment, Response to New Development								
OBSERVATIONS	Initial Hydrographic Hydrographic Cruises, Moorings  Cruise Argo Floats Deployments  High Frequency Radar Gliders  Buoys								
	Satellite Remote Sensing								
NUMERICAL MODELLING	Nested Regional Models  Data Assimilation								
	High Resolution Models (100m)  Coupled Climate Models  Analysis of Other Models, Inter-model Comparison								



# NPOCE+SPICE+E-INSTANT= well organized study in the whole western Pacific

