

## **Aircraft Working Group (Day 1, 7/6/10):**

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1) Objectives: better understand air-sea coupling physics, surface fluxes/boundary layer/convection in MJO initiation

2) Timing: availability of P3 in November-December 2011 (after hurricane season June-Oct 2011)

Total two P3 aircraft, will not available until after hurricane season

One of the two will go into long-term maintenance after hurricane season

3) Instrumentation integration: in addition to the standard instrumentation for hurricanes,

UCI instruments: turbulence, scanning lidar for wave topo mapping including Oxford RT3003 INS/GPS, Heiman KT19.85 Radiometric SST, Fast humidity and temperature sensors, INS/GPS motion sensor, two high resolution miniature radar altimeters,

CIRES instruments: isotopic gas analyzer, UHSAS aerosol spectrometer, inlet required.

4) Location preference:

Gan Island:

Diego Garcia: access by foreign nationals (?)

Preference by NOAA AOC?

5) Air-sea coupling processes vs. moist convective processes

overlapping objectives

Observation strategy:

basic flight patterns: spatial variability of surface fluxes for  
vertical profiles of mean and fluxes  
dropsonde path  
radar scan

Upstream and downstream sampling of deep convective systems (boundary layer, surface wave and fluxes, humidity)

Items remain to be discussed:

- Status of aircraft request, P3-flight limitations (Jim Mcfadden)
- Coordination with other platforms
- Data sharing (input from modelers?)

