Sounding Array Design Strategy

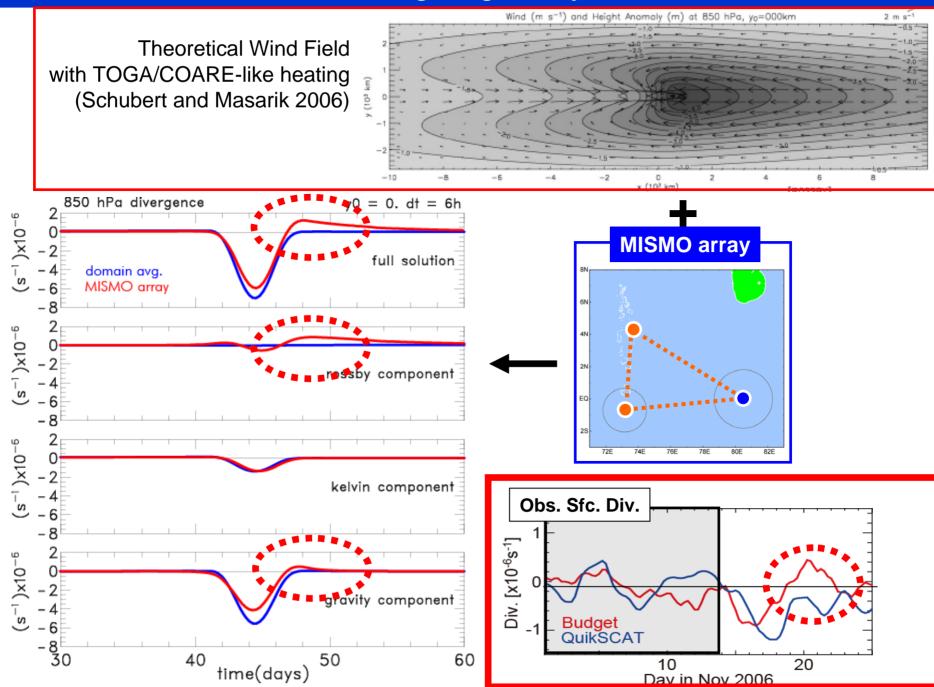
Masaki Katsumata (JAMSTEC) Richard H. Johnson (CSU) Paul E. Ciesielski (CSU) Kunio Yoneyama (JAMSTEC)

Lessons learned from MISMO

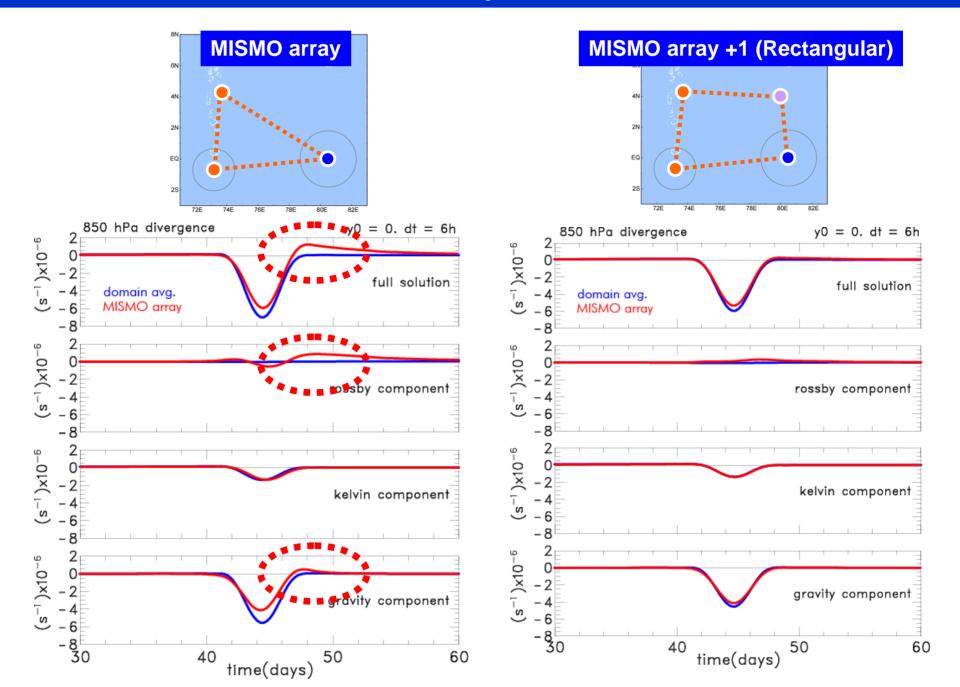
Optimal array configurations to capture equatorial wave divergence field

Possible array configurations for CINDY2011/DYNAMO

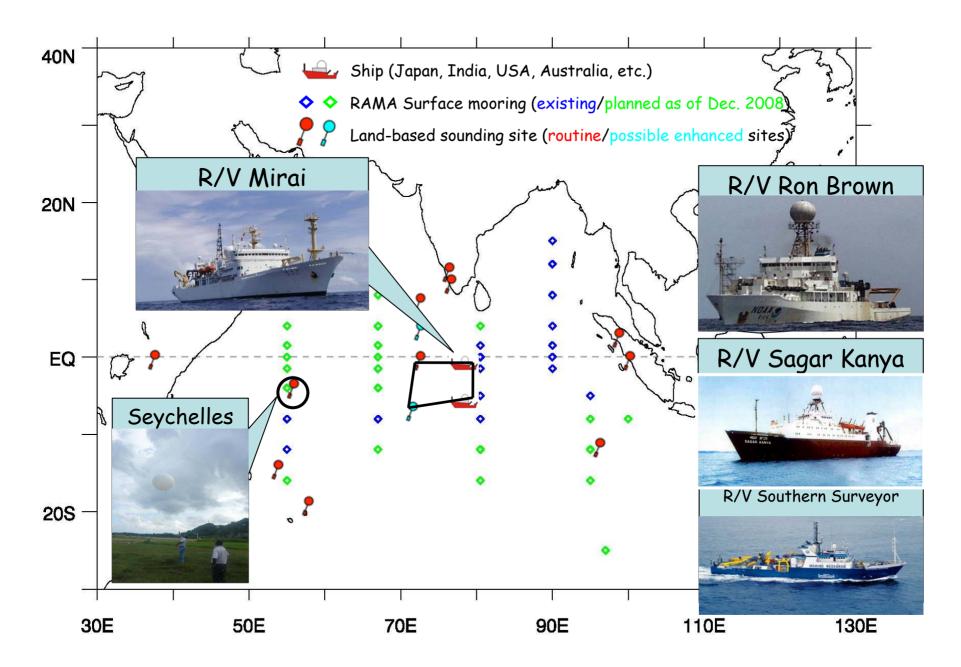
Simulating budget analyses



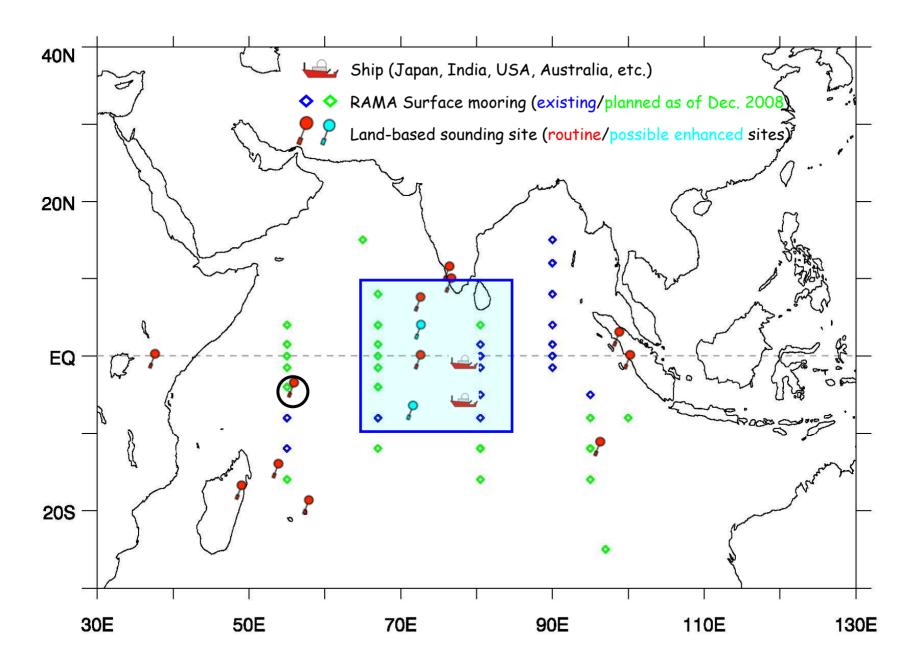
Possible Improvement



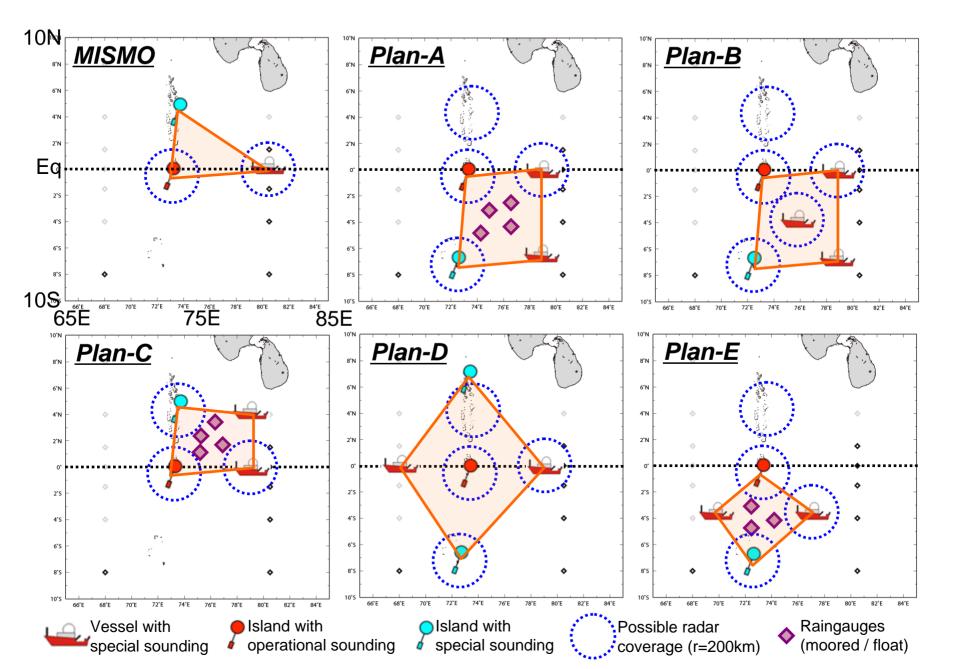
Large-area map for Indian Ocean

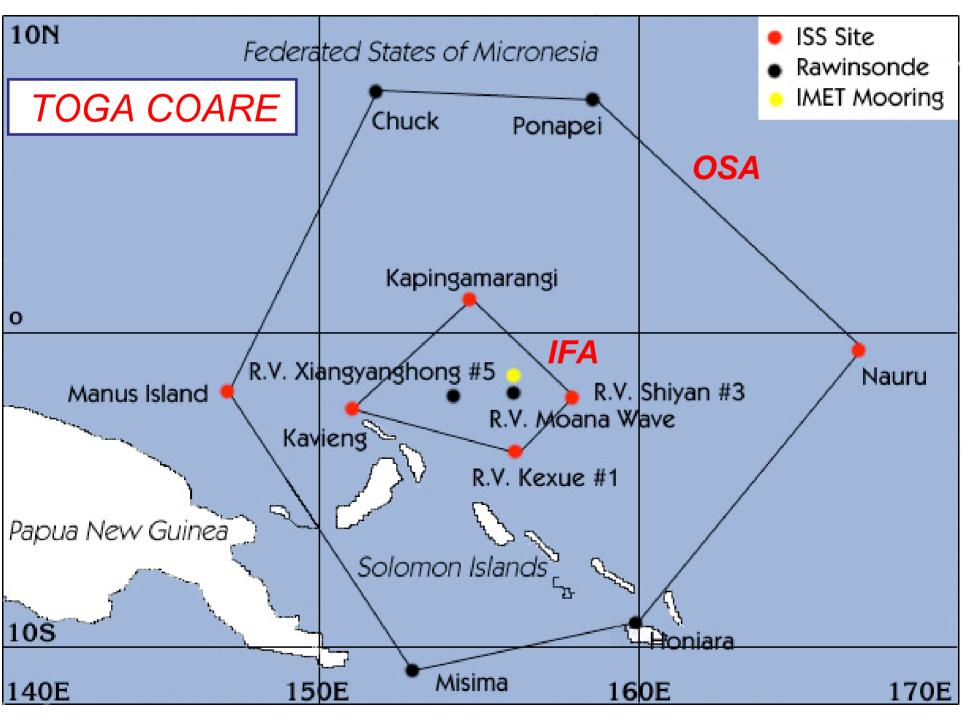


Large-area map for Indian Ocean

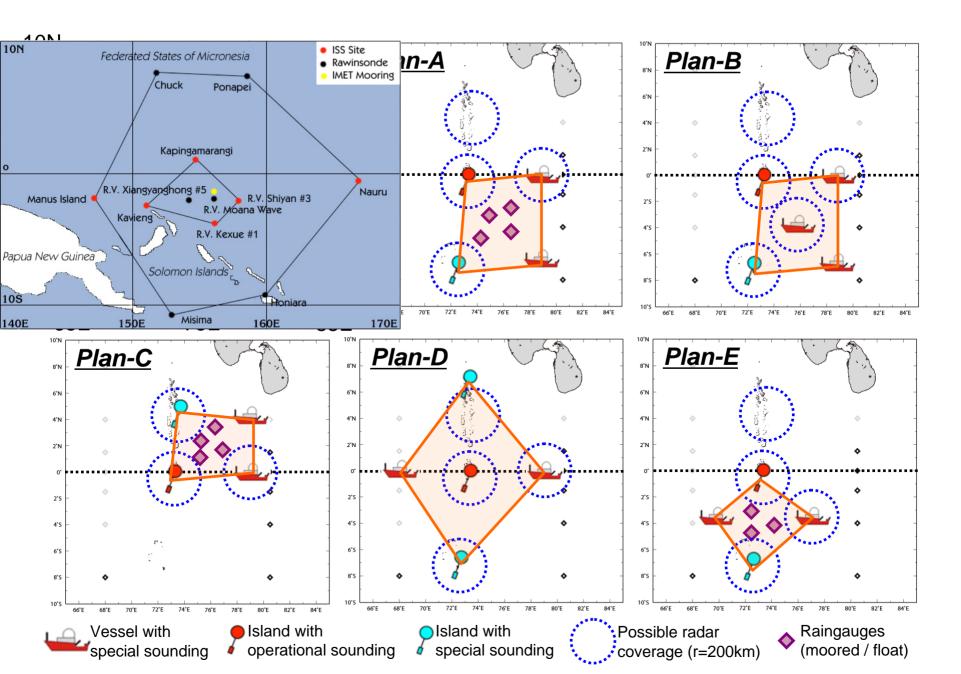


Examples of sounding array





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Array Options

Plans A,B,E are centered near 4°S, near center of precipitation variance

Plans C,D extend north of equator and include Malé, Maldives

Plans A,C,D,E include staggered deployment of 4 ships, hence longer overall experiment duration

Plan B has three ships in array, one at center; hence shorter array duration

All plans have some form of rainfall measurements in array interior (although incomplete) to assist in constraining budgets

Plan E is closest to size of COARE IFA