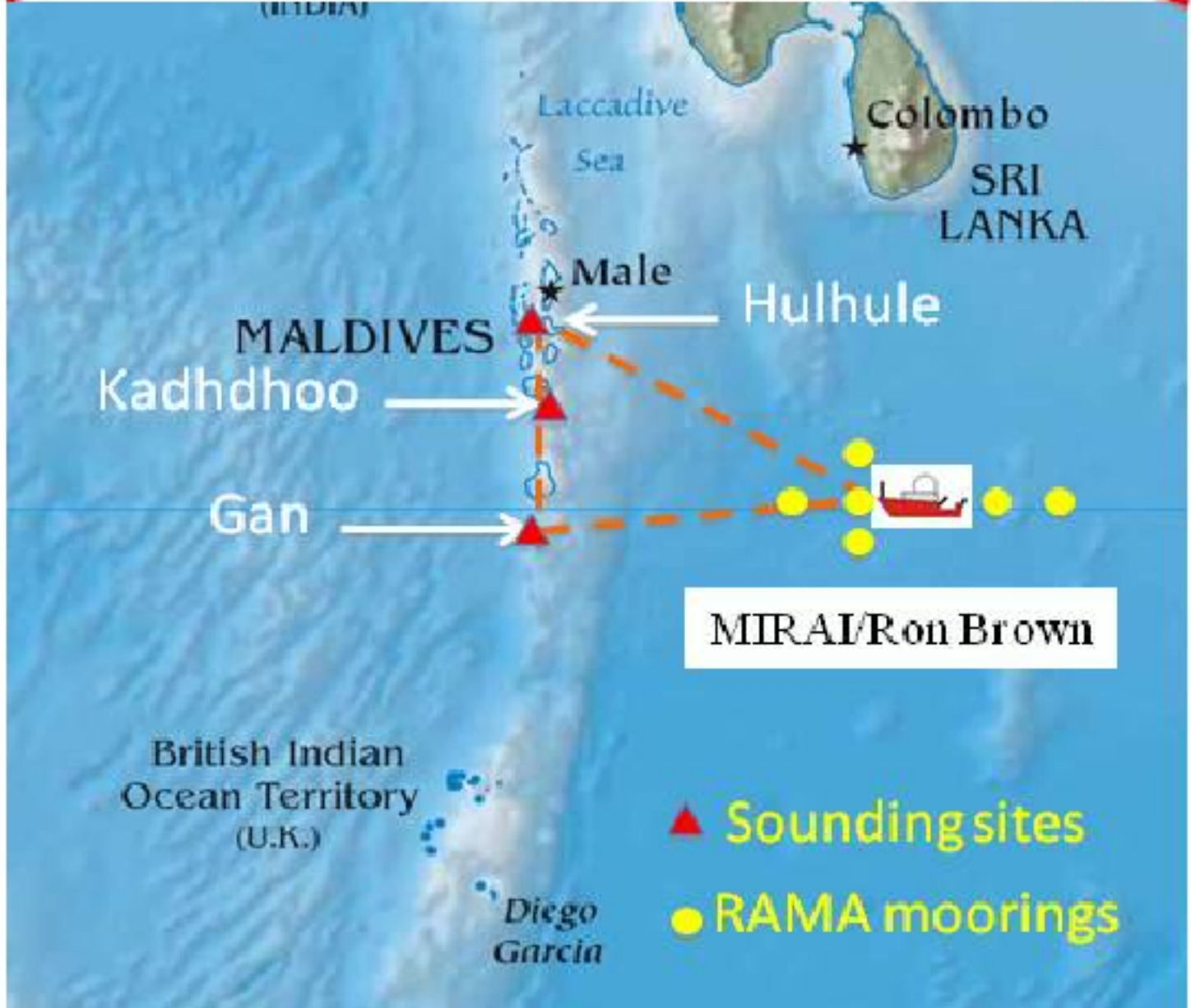


NOAA Form 77-65 (Rev 5-04)		U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration		1. Originating Office		2. Date	
<b>REQUEST FOR SHIP TIME (FY )</b>							
<b>Mail or fax completed form to:</b> NOAA Marine and Aviation Operations, Program Services and Outsourcing Division, 8403 Colesville Road, Suite 500, Silver Spring, MD 20910. Fax: 301-713-1541, Phone 301-713-1045							
<b>Use Continuation page if more space is needed</b>							
3. Project/Cruise Title, Mission/Purpose							
4. Ship Preferences (In order of preference)				5. Possible foreign research or Port Clearances:			
6. Project Area: (Include Chartlet)							
7. NOAA Mission goals supported by the Project (Check all that apply and show percentages if more than one) <span style="float: right;">Unknown</span>							
Climate %		Weather / Water %		Ecosystem %		Commerce / Transportation %	
8. PPBES Program(s) supported by the project/mission:							
9. Impact Statement (Impact of project not being funded)							
10. Sea time required (including transit time): Desired: Days Minimum: Days			11. Cruise Period (Months)			12. This project will be Primary Piggyback	
13. Field of Science Category (See Form Instructions)				14. NSF R&D Category (See Form Instructions)			
<b>NOAA Program Personnel</b>							Ship's company only
	Max/Min	Office	Berthing Required				
Scientists							
Technicians							
Total							
<b>15b. Non-NOAA Participants and their Affiliation</b>							
Personnel (Names)				Affiliations			
15c. Non-NOAA Berths Required				15d. Total Berths Required			
16. Suggested piggyback projects and time requirements (or restrictions) which can be accommodated:							
<b>17. Ship Capabilities Requirements</b>							
Endurance: Days		Lab Space: sq.ft.		Wet: sq.ft.		Dry: sq.ft.	
Minimum position accuracy required +				On station time:		Speed: Knots	
Electronics Requirements		Oceanographic Requirements		Gear Handling Requirements			
Ship Support Required: Yes No		Ship Support Required: Yes No		Ship Support Required: Yes No			
<b>18. Program Furnished Equipment</b>							
Item	Description	Wt (lbs).	Power Req'd.	Space Req	Location Preference		
1							
2							
3							
4							
19. If a NOAA Ship is unavailable or not economical, do you want to charter a ship to support your project? Yes No						Continuation page used? Yes No	
20. Has your lab or science center director approved this request? Yes No							
21. Principal Investigator/Chief Scientist (Include complete address, phone, fax, Email)				22. NOAA PPBES Program Manager approval of ship time request			
Signature/Date				Signature/Date			

# CINDY2011/DYNAMO



(INDIA)



MIRAI/Ron Brown

- ▲ Sounding sites
- RAMA moorings

# Cooperative Indian Ocean Experiment on Intraseasonal Variability in Year 2011 (CINDY2011) and its US participation - Dynamics of the MJO (DYNAMO)

*Other participating countries:* Australia, India, China, French  
*Other US components:* DOE AMIE, ONR air-sea interaction experiment  
*Time window:* November 2011 – February 2012

*Objective:* Collect in situ observations needed to advance our understanding of MJO initiation mechanisms and to improve our simulations and prediction of MJO initiation

*Scientific Hypothesis:* Moistening and diabatic heating in the lower troposphere by shallow convection play key roles in MJO initiation and maintenance.

*Planned major observational instruments:* ship-borne (MIRAI, Ron Brown) Doppler radars and radiation/surface flux package (AMF2), sounding array, surface and subsurface mooring array (RAMA), wind profiler array (HARIMAU), cloud radar and ARM Manus site (AMIE)

*Modeling component:* regional and global cloud-resolving and meso-scale models, global climate models

*ARM contributions:* Combine DYNAMO-ARM observing, data analysis, and modeling efforts to cover the entire MJO life cycle from its initiation in the Indian Ocean to eastward propagation into the western Pacific

