

Project Endorsement Form

1. PROJECT TITLE

Full title	NEW NORMAL - NEar surface Warming in the Northern Indian Ocean and Rainfall Monsoon Anomaly Linkages
Acronym	NEW NORMAL
Website	TBD
Keywords (up to 10, describing the project research)	Indian Ocean; Bay of Bengal; sea surface temperature; Indian Ocean Dipole; ENSO; heat transport; global climate variability
New initiative or continuing programme?	New initiative

2. APPLICANTS

Lead applicant / Project Leader / key research contact person:

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Other key participants / research team leaders: (repeat as needed)

First name	Sinha
Last name	Bablu
Role in the project	Co-I
Affiliation	National Oceanography Centre
Country	United Kingdom
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First name	Mathew Koll
Last name	Roxy
Role in the project	Collaborating partner
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Country	India
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First name	Ashis Kumar
Last name	Mitra

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Role in the project	Collaborating partner
Affiliation	The National Centre for Medium Range Weather Forecasting
Country	India
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Institutional or personal website	https://www.ncmrwf.gov.in

First name	Andrew
Last name	Turner
Role in the project	Collaborating partner
Affiliation	University of Reading
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Institutional or personal website	http://www.met.reading.ac.uk/~sws05agt/

N.B.: Please note that all these names and contact details will be added to the IIOE-2 membership database.

3. ABSTRACT– Brief description of the project: (1/4 page maximum)

This will be placed on the IIOE-2 Website after endorsement.

The South Asian monsoon impacts about a third of the world's population. In the past decades, extremes in monsoon rainfall are found to be increasing and have been linked to Indian Ocean warming. The Bay of Bengal sea surface temperature (SST) is a *known* key driver of the South Asian monsoon system. *What we don't know is how the Bay of Bengal SST is affected by the Indian Ocean warming and how the Bay of Bengal feeds back/leads to extremes in monsoon rainfall.* This project will capitalise on data and results from the international Indian Ocean programmes (e.g. IIOE-2, IndoOS-2, BoBBLE, STIMULATE), the latest operational seasonal to decadal forecast models from the UK Met Office and collaborating partners, and new high resolution climate projections from the UK and EU ACSIS and PRIMAVERA programmes, and bring together new international collaborations *to address the shifting/changing role of Bay of Bengal SST running up to and during extreme climate events.* In doing so, this project will complete the steps needed to understand and eventually predict extremes in monsoon rainfall.

4. LINKS TO IIOE-2 SCIENCE PLAN: (1/2 page maximum)

How do you anticipate your project to contribute to the IIOE-2 strategy and science delivery, with reference to which (either one or more) of the six IIOE-2 Science Plan themes that your project responds. Please state the specific issues and questions addressed by your project in the context of the IIOE-2 Science Plan themes and key issues.

NEW NORMAL aims to address the first question from the IIOE-2 Science Plan relevant to the Indian Ocean circulation and climate variability: How has the atmospheric and ocean circulation of the Indian Ocean changed in the past and how will it change in the future?

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NEW NORMAL seeks to understand the changing conditions of the subsurface ocean processes in the lead up to and during extreme climate events (e.g. super ENSO) and how that might lead to anomalies in monsoon rainfall. Thus, NEW NORMAL corresponds best with Science Theme 4: Circulation, Climate Variability and Change.

5. INTERNATIONAL COLLABORATION(S):

Is the project part of a related multi-national activity? **YES/NO**

If No, would you welcome international collaboration in your project? **YES/NO**

6. REGION(S) OF STUDY

Provide a description of 'where' the research is to be conducted (for field based activities) and/or the region or regions to which the research pertains (you are encouraged to consider providing either the coordinates of the area of studies or the coordinates of the planned cruise tracks, as well as a figure as an addendum to your proposal).

The tropical upper Indian Ocean. The Bay of Bengal.

6. TIMETABLE OF THE PROJECT

Start date: 1 November 2021

End date: 1 November 2023

7. LINKAGES WITH OTHER PROJECTS / PROGRAMMES / INITIATIVES

Is the project part of a related national or multi-national activity?

If yes, provide the related activity title and website for reference, if available:

TBD

Is your project part of, or affiliated to, another SCOR, IOC or IOGOOS activity or project?

If "yes", please indicate which activity or project:

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8. DATA MANAGEMENT AND SHARING

1. Will new data be collected as part of this project (yes or no?)

No

2. C
Contact information if any, of the person in charge of the data management from whom the metadata can be accessed by interested IIOE-2 stakeholders.

Please note that for all IIOE-2-endorsed projects, IIOE-2 will have developed its own metadata portal. Once the project is endorsed, the project leader will be asked to provide the metadata information of the project.

3. Recognizing the need for an initial period of exclusive data use, would you be willing to provide timely access to all data generated under this project and associated metadata in accordance with relevant national and funding agency data sharing policies? **YES/NO**

9. FUNDING

Please note that IIOE-2 strongly encourages funded/resourced projects. However, IIOE-2 may endorse projects yet to receive funding/resourcing if IIOE-2 endorsement can be clearly shown to significantly aid in prospects for funding/resourcing.

Has funding and resources to successfully achieve and undertake the project been obtained? Indicate the sources of funding and resources that have been approached and/or secured.

TBD.
Information about the call: <https://www.ukri.org/opportunity/global-partnerships-seedcorn-fund-2021/>

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10. BENEFITS FROM IIOE-2 ENDORSEMENT (1/4 page maximum)

Specify why you are seeking endorsement and how the activity would benefit from endorsement, and how the IIOE-2 SC could assist in the implementation of your project.

NEW NORMAL is to be submitted 30 March 2021 to the Global Partnerships Seedcorn Fund (GPSF) scheme (<https://www.ukri.org/opportunity/global-partnerships-seedcorn-fund-2021/>). The GPSF is a grant intended for supporting new long-term partnerships with international researchers.

NEW NORMAL is based on the Indian Ocean and the South Asian monsoon. The benefits from IIOE-2 endorsement are as follows:

- The support/endorsement of the IIOE-2 community will lend credence to the proposal
- The project will benefit from the IIOE-2 connections and its scientific community through the exchange of ideas and data sharing
- Endorsement from the IIOE-2 will facilitate new long term collaborations on Indian Ocean science

11. OPTIONAL: OTHER COMMENTS/INFORMATION/MATERIAL (length and detail may be at the discretion of and as deemed necessary by the applicant)

Please feel free to provide any other comments, information or materials that you feel relevant to your proposal for the IIOE-2 Steering Committee's information and benefit. You may provide this as general information or provide the additional comments/information/materials as relevant to any of the specific Sections above.



Dr. Alejandra Sanchez-Franks

(Signature of the PI)

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