

## Project Endorsement Form

### 1. PROJECT TITLE

Full title	KIOST Indian Ocean Study
Acronym	KIOS
Website	
Keywords (up to 10, describing the project research)	Indian Ocean, Biogeochemistry, Circulation, Indian Ocean Dipole(IOD),TEIs, Nutrients, Anthropogenic Carbon, KIOST, R/V ISABU
New initiative or continuing programme?	New Initiative

### 2. APPLICANTS

#### Lead applicant / Project Leader / key research contact person:

First name	TaeKeun
Last name	Rho
Affiliation	Korea Institute of Ocean Science and Technology
Postal address	787 Haeantro, Ansan
Country	Republic of Korea
Telephone	82-31-400-6452
Email address	tkrho@kiost.ac.kr
Institutional or personal website	www.kiost.ac.kr

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

First name	Suk Hyun
Last name	Kim
Role in the project	Co-Leader
Affiliation	Korea Institute of Ocean Science and Technology
Country	Republic of Korea
Email address	shkim@kiost.ac.kr
Institutional or personal website	www.kiost.ac.kr

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

### IIOE-2 Joint Project Office (JPO)

Perth Australia Node  
IOC Perth Programme Office  
c/o Commonwealth Bureau of Meteorology  
3rd Floor, 1 Ord Street  
West Perth, Western Australia, 6005, Australia.  
Phone: +61-8-92262899  
Email: iioe-2@bom.gov.au

<http://www.iioe-2.incois.gov.in>

Hyderabad India Node  
Indian National Centre for Ocean Information Services  
(INCOIS)  
Pragathi Nagar  
Hyderabad, Telangana 500 090, India.  
Phone: +91-40-2388 6142  
Email: iioe-2@incois.gov.in

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

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

The western region of Indian Ocean is located at the endpoint of great conveyor belt and may be very sensitive to global climate changes. The Indian Ocean Dipole may also influence physical conditions of the region and dynamic of internal material cycles. This project will examine the response of vertical and horizontal circulation pattern and internal material cycles, including nutrients, organic and inorganic carbon, TEIs. We will conduct multi-disciplinary research including physical, chemical, and biological parameters and multi-platforms such as satellite, RAMA buoy, Argo drifter, and research vessel. This project is funded by Korea Institute of Ocean Science and Technology for three years (2017-2019). We will embrace GEOTRACES activities in this project using clean CTD system on board R/V ISABU crossing the 8 °S transect from 55 °E to 100 °E.

### **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.

1. Anthropogenic Impacts
2. Boundary current dynamics, upwelling variability and ecosystem impacts
3. Monsoon Variability and Ecosystem Response
4. Circulation, climate variability and change

### **5. 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 a figure as an addendum to your proposal).

Western equatorial region (67 °E line from 5 °N - 20 °S )  
Cross Indian Ocean equatorial regions (along 8 °S from 55 °E to 100 °E)  
Eastern equatorial region (100 °E line from 20 -4 °S)

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## 6. TIMETABLE OF THE PROJECT

Start date: 01/01/2017	End date: 12/31/2019
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## 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:

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

If “yes”, please indicate which activity or project:

## 8. DATA MANAGEMENT

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

Yes

2. CContact 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.*

TaeKeun Rho (tkrho@kiost.ac.kr)

## 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.

## IIOE-2 Joint Project Office (JPO)

Funded by Korea Institute of Ocean Science and Technology

**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.

Our institute would like to contribute to global issues, which may be one of gateways. The success of the project is largely depended on other information collected by other studies in the Indian Ocean. Thus we want to closely communicate with IIOE-2 community. We also seek internal cooperation for the future research cruises in the regions.

**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.

This project will conduct three multi-disciplinary research cruises in the Indian Ocean using newly constructed 5900-ton research vessel called R/V ISABU. She will have her maiden voyage on 2 July, 2017 from Colombo, Sri Lanka to Port Louis, Mauritius. We didn't have enough time to announce our Indian Ocean research cruise in 2017. We are planning to accommodate IIOE-2 activities during 2018 and 2019, if possible. We will make an announcement in advance.

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## KIOST Indian Ocean Study Expedition Plan (2017-2019)

