

# Sea Ice Advisory to 35<sup>th</sup> Antarctic Expedition

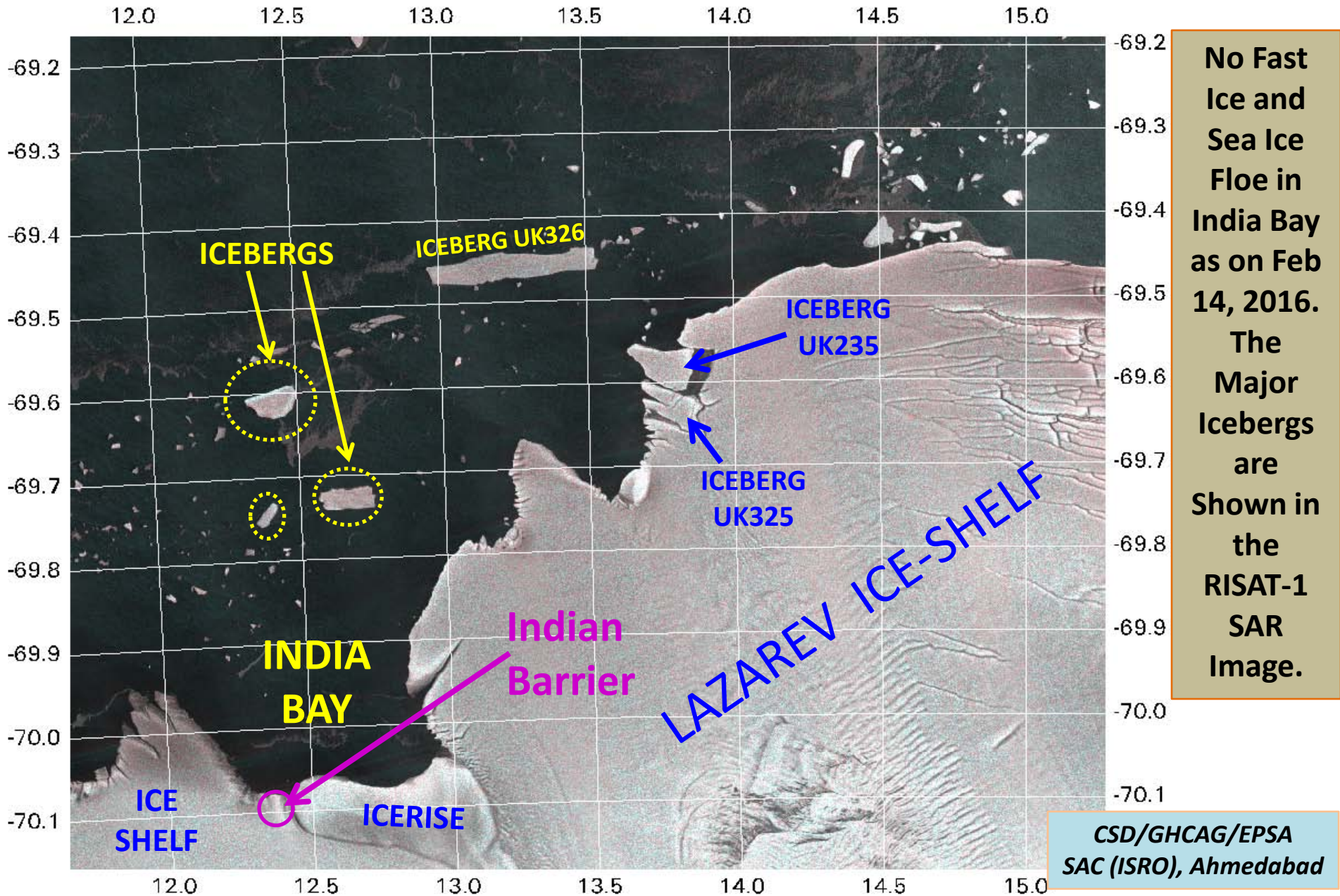
Dt. Feb 17, 2016

## **Status of Icebergs & Sea Ice Over India Bay Coast**

Multi-satellite data analysis shows that no fast ice and sea ice floe exist near the Indian Barrier in India Bay. Major ice-bergs are monitored using Indian and foreign satellites data. The locations are marked over a RISAT-1 SAR and Resourcesat-2 AWiFS images. A highly drifting iceberg, UK326 has been monitored since August 2015 and its positions during different dates are shown over a MODIS LANCE mosaic image. It is evident from the data analysis that ship may not face any sea ice resistance for navigation to reach Indian Barrier in India Bay.

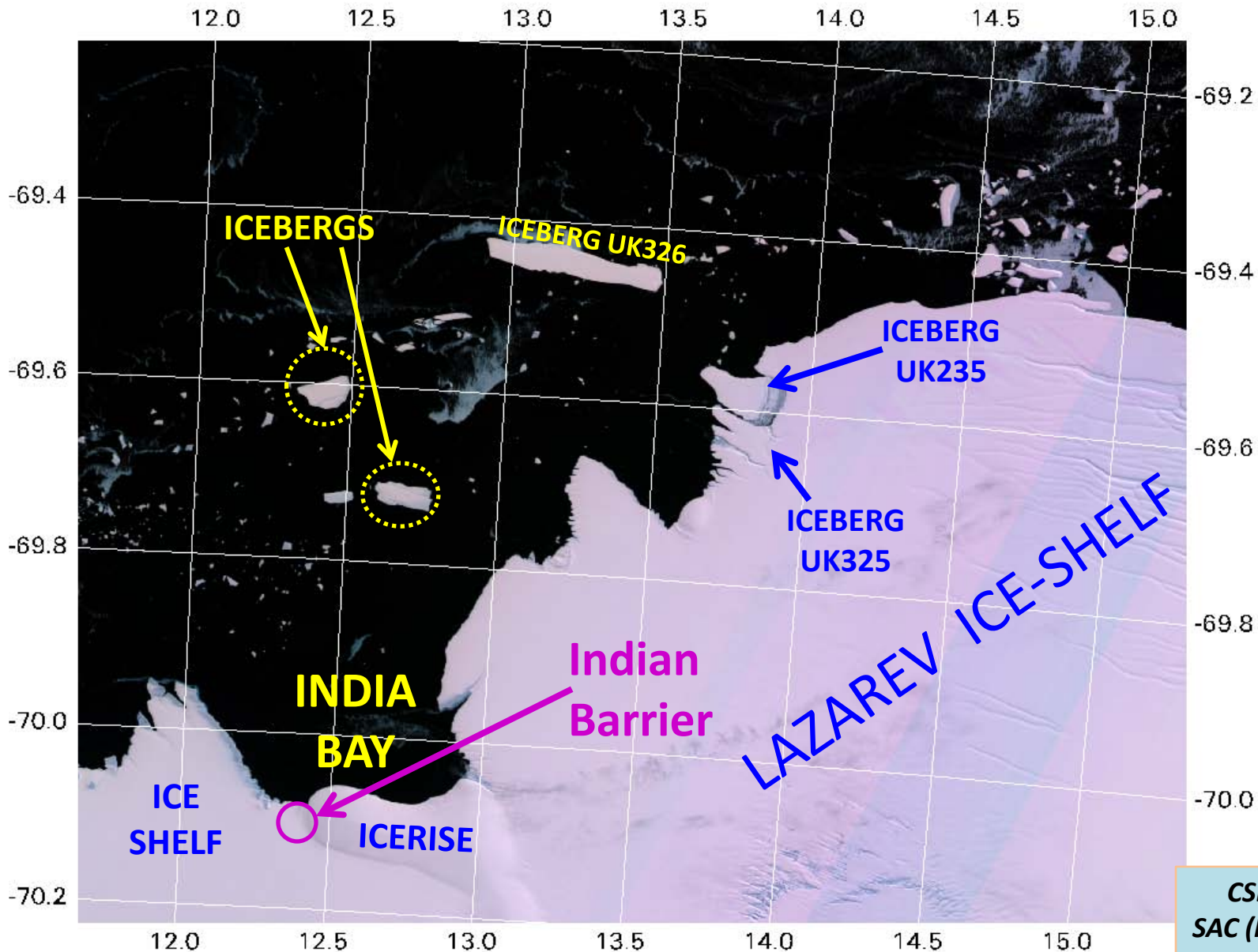
# Icebergs & Sea Ice Status as on Feb 14, 2016

## RISAT-1 SAR CRS Data



# Icebergs & Sea Ice Status as on Feb 14, 2016

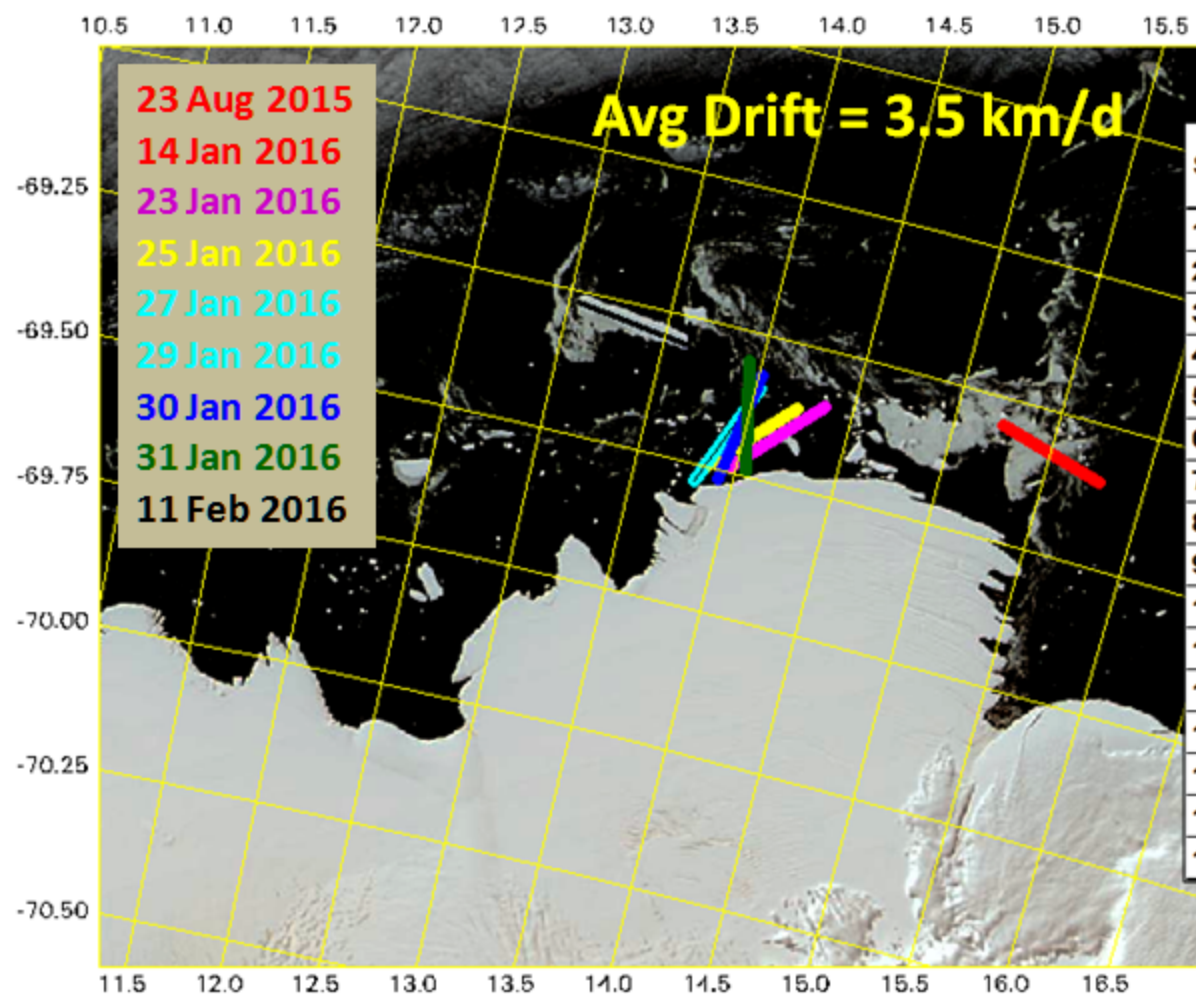
Resourcesat-2 AWiFS Data



No Fast Ice and Sea Ice Floe in India Bay as on Feb 14, 2016. The Major Icebergs are Shown in the AWiFS Image.

# Tracking Iceberg UK326

A highly drifting iceberg UK326, which was first detected by SAC cryosphere team in 2016, is being monitored using RISAT-1 SAR, Resourcesat-2 AWiFS & other satellites data. It remained almost stationary from August 2015 to January 14, 2016. It started drifting after melting of fast ice in the region in the direction of Sub-polar currents and strong winds. Its position in different dates is overlaid over 11<sup>th</sup> Feb 2016 MODIS LANCE image.

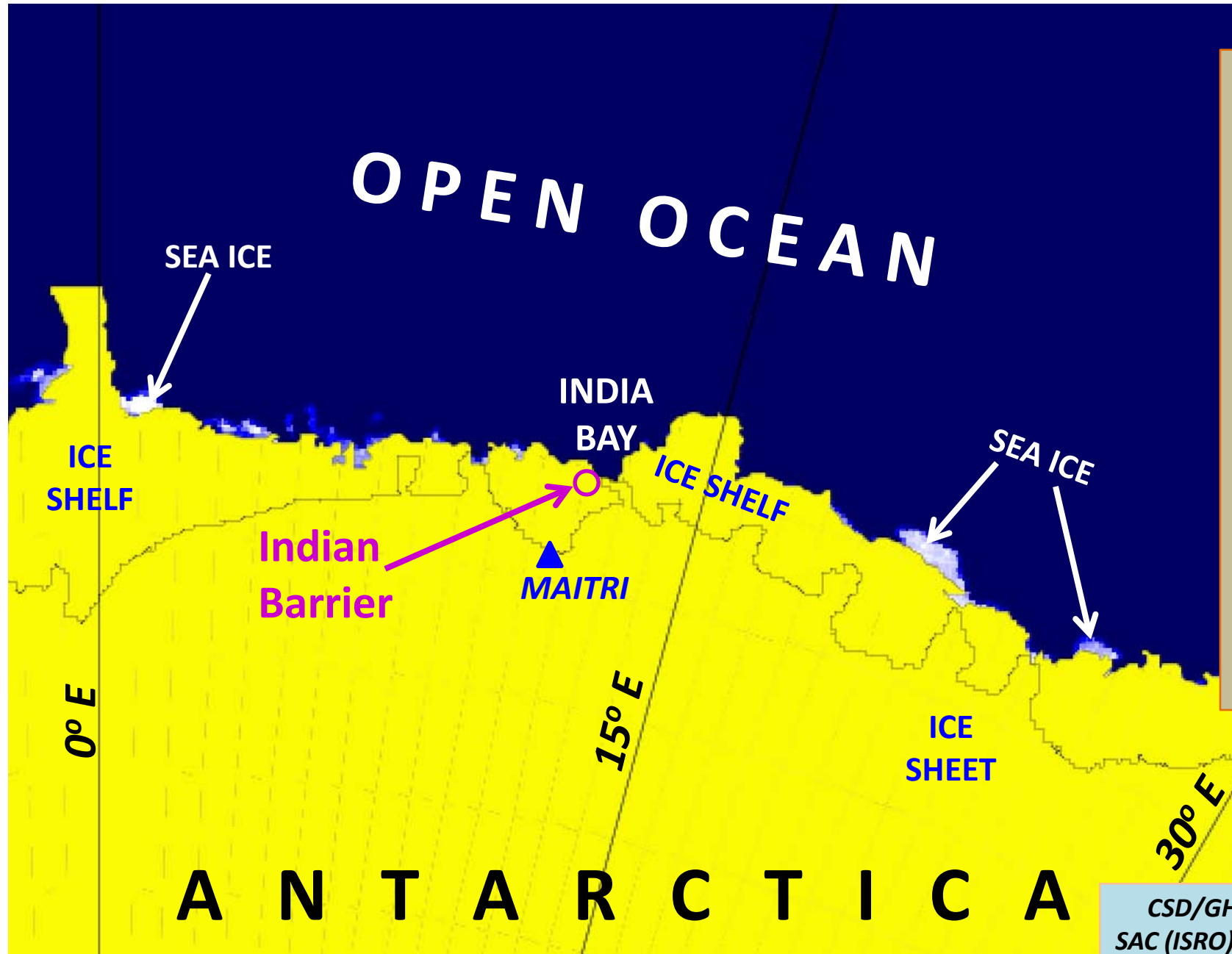


**Centre Coordinates and Drift of the Iceberg UK326**

SN	Date	Long	Lat	Drift (km)	Drift Dir
1	23-Aug-15	-69 19	15 30	NIL	-
2	28-Aug-15	-69 19	15 30	NIL	-
3	19-Oct-15	-69 19	15 30	NIL	-
4	23-Oct-15	-69 19	15 30	NIL	-
5	27-Oct-15	-69 19	15 30	NIL	-
6	18-Nov-15	-69 19	15 30	NIL	-
7	3-Dec-15	-69 19	15 30	NIL	-
8	6-Dec-15	-69 19	15 30	NIL	-
9	14-Jan-16	-69 19	15 30	NIL	-
10	23-Jan-16	-69 25	14 10	53.6	West
11	25-Jan-16	-69 25	14 01	5.9	West
12	27-Jan-16	-69 26	13 55	4.3	South-West
13	29-Jan-16	-69 26	13 55	NIL	-
14	30-Jan-16	-69 25	13 58	2.7	North-East
15	31-Jan-16	-69 24	13 59	2.0	North
16	11-Feb-16	-69 17	13 20	28.7	North-West

**CSD / GHCAG / EPSA  
SAC (ISRO), Ahmedabad**

# Sea Ice Status (India Bay Coast) as on Feb 16, 2016



No Fast Ice and Sea Ice Floe in India Bay as on Feb 16, 2016.

Data Source: ASI AMSR2 Sea Ice Concentration product at 3.125km.