CCAMLR

COMM CIRC 13/34
SC CIRC 13/22

Mercredi, 6 Mars 2013

Mise en place d'un mouillage de sub-surface dans la sous-zone 48.1 – informations soumises par l'Allemagne

À TOUS LES MEMBRES DE LA COMMISSION ET DU COMITÉ SCIENTIFIQUE

Les Membres sont avisés que l'institut Alfred Wegener pour la recherche polaire et marine a mis en service un mouillage de sub-surface au sud de l'île Éléphant, dans la sous-zone statistique 48.1 de la CCAMLR. Ce mouillage, équipé d'enregistreurs acoustiques passifs, a été déployé à 319 m de profondeur pour suivre la présence de mammifères marins, y compris lorsque les observations visuelles ne sont pas possibles. Un profileur acoustique de courant par système Doppler (ADCP), dirigé vers le haut, permet de suivre la présence de krill.

Le mouillage est situé à proximité de 61°00.88'S et 55°58.53'W, et la bouée de sub-surface se trouve à environ 120 m en dessous de la surface.

Les Membres devraient éviter de pêcher à des profondeurs supérieures à 110 m aux alentours du mouillage.

Andrew Wright
Secrétaire exécutif

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DATE 05.03.2013

Mr Andrew Wright
Executive Secretary
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Dear Drew,

I am writing to notify that the German Alfred Wegener Institute for Polar and Marine Research has deployed a permanent scientific mooring in the CCAMLR statistical Area 48.1 (South of Elephant Island).

During a CCAMLR research cruise in March/April 2012 with the German research vessel Polarstern a large number of fin whales were observed in the Elephant island area. This observation suggests that the area constitutes an important feeding area for fin whales in early austral fall. The mooring with passive acoustic recorders was deployed in a water depth of 319 m to monitor the presence of marine mammals also at times when visual observations are not possible. An upward looking Acoustic Doppler Current Profiler (ADCP) serves to monitor the presence of krill.

Please find further information on the area and technical specifications as well as references to scientific observation in the attached notification and drawing.

I should be grateful if the Secretariat would circulate this letter to Commission Members to ensure the mooring does not interfere with any activities in the area.

Kind regards,

Walter Dübner
German CCAMLR Commissioner

Notification of a permanent scientific mooring in the CCAMLR statistical Area 48 (Elephant Island Area)

Division and subarea in which mooring is located:	Statistical area 48.1
Mooring Position:	61° 00.88'S, 55° 58.53'W
Equipment:	Mooring with passive acoustic recorders and upward looking ADCP
Mooring No:	AWI 251-1
Mooring Depth:	Deployed in water depth of 319m with topmost buoyancy package at 120m below surface (see attached figure)
Deployment:	15.01.2013 (02:11 am)
Estimated time:	open ended

Purpose of research: During a recent CCAMLR research cruise (ANT-XXVIII/4) in March/April 2012 with the German research vessel Polarstern large numbers of fin whales (*Balaenoptera physalus*) were observed in the Elephant Island area [Burkhardt and Lanfredi, 2012]. This observation suggests that Elephant Island constitutes an important feeding area for fin whales in early austral fall.

Since observational surveys are time consuming and only possible for a certain time of the year, passive acoustic recordings are the only technology to monitor the presence of marine mammals at times where visual observations are not possible. The ADCP serves to concurrently monitor the presence of Krill at the mooring site [Cisewski et al., 2010].

Burkhardt, E., and C. Lanfredi (2012), Fall feeding aggregations of fin whales off Elephant Island (Antarctica), *Paper SC/64/SH9 presented to the IWC Scientific Committee*, 6.

Cisewski, B., V.H. Strass, M. Rhein, and S. Krägefsky (2010), Seasonal variation of diel vertical migration of zooplankton from ADCP backscatter time series data in the Lazarev Sea, Antarctica, *Deep Sea Research Part I: Oceanographic Research papers, 57(1)*, 78-94.

Mooring ID : AWI 251-1 Position :61° 0,88'S, 55°58,53' W
Cruise: ANT XXIX/2 Deployed : 16.01.2013 02:12
Waterdepth : 320 m Released :
Mooring length:120 m
16.01.2013 Anker zuerst

-Depth-Dist.	Segments	Instruments	Time-in	Time-out
- 200 - 120				
	5 Floats			
	4 Floats			
- 210 - 110				
		AURAL M2 Sn: 231 LF		
			02:10	
- 212 - 108		Develogic SonoVault Sn: 1008		
	100 m			
- 314 - 6		RDI LR ADCP Sn: 5848		
- 316 - 4		SBE 16 P 1000 Sn: 1973	01:58	
- 317 - 3		RT 861 Sn: 456 AR 661 Sn: 540		
	2 m			
- 320 - 0	Anker 850 kg			