

Chief Scientist: Marcel Croon	Ph: 858.822.2717	MPC: Stian Alesandrini
Event #(s): G-071-N / O-260-N	E-mail: mcroon@ucsd.edu	Cruise #: NBP08-04

Required fields are highlighted in yellow. Click in the gray text box to enter comments.

Send completed outbrief form to marine.super@usap.gov

Planning Services

<input checked="" type="checkbox"/>	Yes	SIP Process Met Expectations?
Comments:		
<div></div>		
<input checked="" type="checkbox"/>	Yes	RSP helpful and timely?
Comments:		
<div></div>		
<input checked="" type="checkbox"/>	Yes	POC Responsive?
Comments:		
Adam was helpful		

Medical Services

<input type="checkbox"/>		Kits received on time?
Comments:		
N / A, since we sailed north of -60 Latitude		
<input type="checkbox"/>		Questions answered?
Comments:		
N / A, since we sailed north of -60 Latitude		

Travel Services

<input checked="" type="checkbox"/>	Yes	TRW available and understandable?
Comments:		
<div></div>		
<input checked="" type="checkbox"/>	Yes	Ticketing completed easily?
Comments:		
Deployment ticketing went well. Redeployment ticketing didn't happen until the last minute		
<input checked="" type="checkbox"/>	Yes	Meet and assist service met requirements?
Comments:		
Jimmy was great		

Environmental Services

<input type="checkbox"/>		Sample permits received okay?
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Environmental Services

Comments:

N / A

☐ ACA permits received okay?

Comments:

N / A

☐ Waste handling needs met?

Comments:

N / A

Equipment Availability

☒ **Yes** Requested equipment available?

Comments:

Appreciated showing up and having the XBT autolauncher installed and wired.

☐ **No** Damaged?

Comments:

☐ **No** Late?

Comments:

☒ **Yes** ECW gear in good condition?

Comments:

Having boots, float coats and waterproof gear on board was appreciated

☒ **Yes** Lab space adequate?

Comments:

☒ **Yes** Remote sensing support needs met? (TeraScan, RadarSat)

Comments:

Good weather reporting and isobar charts

Hotel Services

☒ **Yes** Cabins clean and neat?

Comments:

☒ **Yes** Linens clean and in good condition?

Comments:

Hotel Services

Yes	Food quality and variety was good?
Comments:	

Research Objectives

Yes	All accomplished? If not, please explain (weather, ice, equipment, personnel, etc.)
Comments:	
<p>From Marcel Croon:</p> <p>A returning issue every cruise is that the Simrad multibeam needs a hardware and software checkup since it has always operated under its potential. Many detailed reports have been written on this issue (e.g. Fred Davies after NBP0701) so I won't go in details but I'd like to say the following based on my experience: In the slightest weather conditions the system deteriorates to almost zero swath (10 degrees at most during 50% of the cruise) and data collection, related to bubble formation. This is especially a problem for transits between Lyttelton and Punta Arenas where bad weather is likely. On this cruise we barely collected multibeam data (at some moments zero) even though it's an very important data set for our research. Chris Linden did an outstanding job in maximizing the quality of the incoming seafloor bathymetry data. Therefore, this criticism is not directed towards him but towards policy makers that invest money in improvement and in this case hardware and software fixes for the Simrad multibeam system. Since the Simrad has always operated under its potential, in my view we lost an incredible amount of data over the years and actually had to go back to areas again where relatively little data was collected due to this problem. Therefore, a fix would have paid itself back multiple times and a lot more data could have been collected.</p> <p>My advice: When the ship goes in drydock an expert of Simrad should check on mistakes that may have been made when the system was installed and that person should sail along on one of the cruises to do a complete check on all issues, both hardware and software. Based on the findings of the Simrad expert hopefully the problems / mistakes can (partially) be solved / fixed / repaired. I strongly disagree it is just an issue related to the shape of the hull, which is a story I've heard many times over the years. A software upgrade may be needed as well but I don't think that's the main issue. It is very frustrating that every single time I go on the Palmer to see how little useful multibeam data we collect because the Simrad never operated up to its full potential.</p>	

Future Cruises

Yes	If returning for another cruise, are there any additional equipment or support needs your group anticipates?
Comments:	
Just a thought: In the future the Palmer may be an excellent platform to collect magnetic data around Antarctica via magnetometer equipped drones.	
Yes	Anything you would like to see changed?
Comments:	
See comments above about Simrad multibeam system	

Personnel Issues/Concerns

No	ECO
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Personnel Issues/Concerns

Comments:

Excellent support

No

RPSC

Comments:

Excellent support

Other Issues

No

Diving, Zodiac, E-mail support, interaction with stations, etc.?

Comments:

Excellent E-mail support and IT services