

## Attachment A

*BALANCE UPDATE AS OF 7<sup>TH</sup> APRIL 2016*

### OFEG barter bank balances following completion of confirmed cruises (see black text)

Overall balances (at the end of 2015): black: confirmed; red: needs to be confirmed

<b>BMBF</b>	<b>+926 points</b>
CSIC	-465 points
IFREMER	-63 points
<b>IMR</b>	<b>-175 points</b>
NERC	-987 points
NIOZ	+764 points

#### Balances between partners (at the end of 2015)

<u>BMBF/IFREMER:</u>	IFREMER owes BMBF 5 points
<u>BMBF/NERC:</u>	NERC owes BMBF 1193 points
<u>BMBF/NIOZ:</u>	BMBF owes NIOZ 148 points
<u>BMBF/CSIC</u>	CSIC owes BMBF 6 points (from a 1 d intervention of POSEIDON for CSIC in 2006)
<b>BMBF/IMR:</b>	<b>BMBF owes IMR 74 points</b>
<u>NERC/NIOZ:</u>	NERC owes NIOZ 523 points
<u>NERC/IFREMER:</u>	IFREMER owes NERC 132 point
<u>NERC/IMR:</u>	IMR owes NERC 305 points
<u>NERC/CSIC:</u>	CSIC owes NERC 292 points (from 2003: 3 days Pelagia plus TOBI)

**NIOZ/CSIC**

NIOZ owes CSIC 9 points

**NIOZ/IFREMER:**

IFREMER owes NIOZ 102 points

**IFREMER/CSIC:**

CSIC owes IFREMER 176 points

**OFEG barter bank balances (actual and forecast)**

[black text = confirmed; red text = to be confirmed]

Year of exchange & activity number <sup>1</sup>	Exchanged marine facility	Day rate points charge for facilities	Barter balance (before exchange)	Background on exchange & barter cost	Barter balance (following exchange)
2015 Activity No.1	<i>Sonne</i>	10 points per day	NERC owes BMBF 893 points	30 -day cruise for NERC [Barter cost: 300]	NERC owes BMBF 1193 points
NB: NEW BARTER POINTS USED FROM 1 <sup>st</sup> May 2015 onwards					
2015 Activity No.2	<i>Pelagia</i>	9 points per day	NERC owes NIOZ 343 points	20 days cruise for NERC [Barter cost: 180 points]	NERC owes NIOZ 523 points
2015 Activity No.3	<i>2 x AUVs; AsterX and IdefX</i>	3 (x2) points per day	IFREMER owes CSIC 4 points	23 days activity [Barter cost: 180 points] Note additional points agreed for mob/demob and transport]	CSIC owes IFREMER 176 points
2015 Activity No.4	<i>Haakon Mosby</i>	7 points per day	IMR owes BMBF 102 points	4 days activity [Barter cost: 28 point]	IMR owes BMBF 74 points
2014 Activity No. 1	<i>Isotope container</i>	1 point per day	IFREMER owes NIOZ 22 points	80 days use on l'Atalante and 11 for return transport [Barter cost: 80 points]	IFREMER owes NIOZ 102 points

<sup>1</sup> This is the same as the activity number in the OFEG activity document

2014 Activity No. 2	<i>Pelagia</i>	7 points per day	NERC owes NIOZ 28 points	12-day cruise for NSF [Barter cost: 84 points]	NERC owes NIOZ 112 points
2014 Activity No. 3	<i>Pelagia</i>	7 points per day	NERC owes NIOZ 112 points	33-day cruise for NERC [Barter cost: 231 points]	NERC owes NIOZ 343 points
2014 Activity No. 4	<i>METEOR</i>	10 points per day	NERC owes BMBF 683 points	21-day cruise for NERC [Barter cost: 210 points]	NERC owes BMBF 893 points
2014 Activity No. 5	<i>Thalassa</i>	8 points per day	IFREMER owes BMBF 93 points	11-day cruise for BMBF [Barter cost: 88 points]	IFREMER owes BMBF 5 points
2014 Activity No.6	<i>James Cook</i>	11 points per day	NERC owes CSIC 126 points	38 –day cruise for CSIC [Barter cost: 418 points]	CSIC owes NERC 292 points

Year of exchange & activity number <sup>2</sup>	Exchanged marine facility	Day rate points charge for facilities	Barter balance (before exchange)	Background on exchange & barter cost	Barter balance (following exchange)
2013 Activity No. 1	<i>Pelagia</i>	7 points per day	NIOZ owes NERC 98 points	18-day cruise for NERC [Barter cost: 126 points]	NERC owes NIOZ 28 points
2013 Activity No. 2	<i>Isotope container</i>	1 point per day	NIOZ owes IFREMER 36 points	58 days use on l'Atalante [Barter cost: 58 points]	IFREMER owes NIOZ 22 points
2013 Activity No.3	<i>Multi-Channel Seismics</i>	2 points per day	NERC owes CSIC 70 points	28 days use on James Cook [Barter cost: 56 points]	NERC owes CSIC 126 points

Year of exchange & activity number <sup>3</sup>	Exchanged marine facility	Day rate points charge for facilities	Barter balance (before exchange)	Background on exchange & barter cost	Barter balance (following exchange)
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<sup>2</sup> This is the same as the activity number in the OFEG activity document

2012 Activity No. 1	<i>METEOR</i>	10 points per day	BMBF owes NIOZ 208 points	6-day cruise for NIOZ [Barter cost: 60 points]	BMBF owes NIOZ 148 points
2012 Activity No. 2	<i>E. Shackleton</i>	10 points per day	IMR owes NERC 205 points	10-day cruise for IMR [Barter cost: 100 points]	IMR owes NERC 305 points

Year of exchange & activity number <sup>4</sup>	Exchanged marine facility	Day rate points charge for facilities	Barter balance (before exchange)	Background on exchange & barter cost	Barter balance (following exchange)
2011 Activity No. 1	<i>Sonne</i>	10 points per day	BMBF owes NERC 174 points	50-days cruse for NERC [Barter cost: 500 points]	NERC owes BMBF 326 points
2011 Activity No. 2	<i>Meteor</i>	10 points per day	BMBF owes NIOZ 502 points	35-day cruise for NIOZ [Barter cost: 350 points]	BMBF owes NIOZ 152 points
2011 Activity No. 3	<i>James Cook</i>	11 points per day	NERC owes NIOZ 89 points	17-day cruise for NIOZ [Barter cost: 187 points]	NIOZ owes NERC 98 points
2011 Activity No. 4	<i>Håkon Mosby</i>	6 points per day	BMBF owes IMR 30 points	12-day intervention for BMBF, Kiel - Bergen [Barter cost: 72 points]	BMBF owes IMR 102 points
2011 Activity No.5	<i>Pelagia</i>	7 points per day	BMBF owes NIOZ 152 points	8-day cruise for BMBF [Barter cost: 56 points]	BMBF owes NIOZ 208 points
2011 Activity No 6	<i>ROV Kiel 6000</i>	7 points per day	NERC owes BMBF 326 points	51-day cruise for NERC [Barter cost: 357 points]	NERC owes BMBF 683 points
2011 Activity No 7	Multi-Channel Seismics	2 points per day	CSIC owes NERC 30 points	50-day cruise for NERC [Barter cost: 100 points]	NERC owes CSIC 70 points

Year of exchange & activity number <sup>5</sup>	Exchanged marine facility	Day rate points charge for facilities	Barter balance (before exchange)	Background on exchange & barter cost	Barter balance (following exchange)
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<sup>3</sup> This is the same as the activity number in the OFEG activity document

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2010 Activity No. 1	<i>Sonne</i>	10 points per day	IFREMER owes BMBF 23 points	7-days cruise for IFREMER [Barter cost: 70 points]	IFREMER owes BMBF 93 points
2010 Activity No. 2	<i>Ernest Shackleton</i>	10 points per day	NERC owes BMBF 156 points	33-day cruise for BMBF [Barter cost: 330 points]	BMBF owes NERC 174 points
2010 Activity No. 3	<i>Discovery</i>	10 points per day	NERC owes BMBF 156 points	33-day cruise for BMBF [Barter cost: 330 points]	BMBF owes NERC 174 points
2010 Activity No. 4	<i>TOBI</i>	3 points per day	IFREMER owes NERC 0 points	44 days TOBI time for IFREMER on MARION DUFRESNE [Barter cost: 132 points]	IFREMER owes NERC 132 points
2010 Activity No. 5	<i>Viking Explorer</i>	3 points per day	BMBF owes IMR 0 points	2 X 5-day cruise for BMBF, Svalbard [Barter cost: 30 points]	BMBF owes IMR 30 points
2010 Activity No.6	<i>Meteor</i>	10 points per day	BMBF owes NIOZ 592 points	4-days intervention for NIOZ Irminger Sea [Barter cost: 40 points]	BMBF owes NIOZ 552 points
2010 Activity No 7	<i>Sarmiento de Gamboa</i>	9 points per day	NIOZ owes CSIC 0 points	1-day intervention for NIOZ, recovery MOVE! [Barter cost: 9 points]	NIOZ owes CSIC 9 points
2010 Activity No. 8	<i>Meteor</i>	10 points per day	BMBF owes NIOZ 552 points	5 days barter cruise for NIOZ (cruise continues in 2011) Barter cost: 50 points	BMBF owes NIOZ 502 points
2010 Activity No. 9	<i>E. Shackleton</i>	10 points per day	IMR owes NERC 135 points	7 days barter cruise for IMR Barter cost: 70 points	IMR owes NERC 205 points

Year of exchange & activity number <sup>6</sup>	Exchanged marine facility	Day rate points charge for facilities	Barter balance (before exchange)	Background on exchange & barter cost	Barter balance (following exchange)
2009 Activity No. 1	<i>Sarmiento de Gamboa</i>	9 points	CSIC owes Ifremer 194 points	22 days Sarmiento de Gamboa Cruise for Ifremer [barter costs 198 points]	Ifremer owes CSIC 4 points

<sup>5</sup> This is the same as the activity number in the OFEG activity document

<sup>6</sup> This is the same as the activity number in the OFEG activity document

2009 Activity No. 2	<i>Pelagia</i>	7 points	BMBF owes NIOZ 214 points	54 days geophysics cruise off South Africa in Spring 2009  [Barter cost: 378 points]	BMBF owes NIOZ 592 points
2009 Activity No. 3	<i>Sonne</i>	10 points	BMBF owes NERC 314 points	50-days geophysics cruise off Sumatra in early 2009  [Barter cost: 500-points]	NERC owes BMBF 186 points
2009 Activity No. 5	<i>Melville</i>	10 points	NERC owes BMBF 186 points	3-days mooring intervention early 2009 Sulu Sea; transfer through NERC to NSF  [Barter cost: 30-points]	NERC owes BMBF 156 points

2008 Activity No. 1	<i>Meteor</i>	10 points	BMBF owes NIOZ 138 points	19-days cruise in Mozambique Channel  [Barter cost: 190-points]	NIOZ owes BMBF 52 points
2008 Activity No. 2	<i>Meteor</i>	10 points	Ifremer owes BMBF 41 points	19-days working off La Reunion for ERODER  [Barter cost: 190-points]	Ifremer owes BMBF 231 points
2008 Activity No. 3, 11	<i>James Cook</i> <i>MCS</i>	11 points 5 points	BMBF owes NERC 254 points	60-days geophysics cruise off Chile in early 2008  [Barter cost: 960-points]	BMBF owes NERC 1214 points
2008 Activity No. 4	<i>Thalassa</i>	8 points	Ifremer owes BMBF 231 points	26-days barter of 35-days hydrographic cruise in the sub-polar North Atlantic, Aug/Sep 2008;  [barter costs 208 points]	Ifremer owes BMBF 23 points
2008 Activity No. 5,6	<i>Sonne</i>	10 points	BMBF owes NERC 1214 points	90-days spread over two geophysics cruises off Sumatra in 2008  [Barter cost: 900-points]	BMBF owes NERC 314 points
2008 Activity No. 7	<i>Pelagia</i>	7 points	NIOZ owes NERC 67 points	28 days cruise Arabian Sea  [Barter costs: 196 points]	NERC owes NIOZ 129 points
2008 Activity No. 8	<i>Pelagia</i>	7 points	NIOZ owes BMBF 52 points	38 days cruise Gulf of Cádiz  [Barter costs: 266 points]	BMBF owes NIOZ 214 points

2008 Activity No. 13	<i>Discovery</i>	10 points	NERC owes NIOZ 129 points	4 days recovery moorings/lander [Barter costs: 40 points]	NERC owes NIOZ 89 points
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Year of exchange & activity number <sup>7</sup>	Exchanged marine facility	Day rate points charge for facilities	Barter balance (before exchange)	Background on exchange & barter cost	Barter balance (following exchange)
2007 Activity No. 1	<i>Poseidon</i>	6 points per day	NIOZ owes BMBF 14 points	5-days cruise for NIOZ [Barter cost: 30 points]	NIOZ owes BMBF 44 points
2007 Activity No. 2	<i>Le Suroit</i>	5 points per day	BMBF owes Ifremer 9 points	13-day ship-time [Barter cost: 65 points]	BMBF owes Ifremer 74 points
2007 Activity No..3	<i>Pelagia</i>	7 points per day	NIOZ owes BMBF 44 points	26-days cruise for BMBF Irminger Sea [Barter cost: 182 points]	BMBF owes NIOZ 138 points
2007 Activity No. 4	<i>TOBI</i>	3 points per day	NERC owes BMBF 65 points	38-days TOBI time for BMBF on a Meteor cruise (M74/3) in the Indian Ocean [Barter cost: 114 points]	BMBF owes NERC 49 points
2007 Activity No. N/A	N/A	N/A	BMBF owes NERC 49 points  BMBF owes Ifremer 74 points	Transfer NERC's barter credit with Ifremer to BMBF  [Barter points transferred: 205 points]	BMBF owes NERC 254 points  Ifremer owes BMBF 131 points
2007 Activity No. 5	<i>L'Atalante</i>  <i>MCS</i>	10 points per day  9 points per day (?)	Ifremer owes CSIC 15 points	11-day cruise  [Barter cost: 209 points]	CSIC owes Ifremer  194 points
2007 Activity No. 6	<i>James Clark Ross</i>	15 points	NERC owes BMBF 80 points	1-day additional to passage for mooring work in Vema Channel in the S. Atlantic [Barter cost: 15 points]	NERC owes BMBF 65 points
2007 Activity No. 7	<i>James Clark Ross</i>	15 points	NIOZ owes NERC 65 points	2-day additional to passage for coring work in the N. Atlantic [Barter cost: 30 points]	NIOZ owes NERC 95 points

<sup>7</sup> This is the same as the activity number in the OFEG activity document

2007 Activity No. 8	<i>Pelagia</i>	7 points per day	NIOZ owes NERC 95 points	4-days ship-time to recover drifting PAP mooring off SE Ireland [Barter cost: 28 points]	NIOZ owes NERC 67 points
2007 Activity No. 9	<i>L'Atalante</i>	10 points per day	Ifremer owes BMBF 131 points	3 days trials, ROV IFM-GEOMAR [Barter cost: 30 points]	Ifremer owes BMBF 101 points
2007 Activity No. 10	<i>Isotope container on L'Atalante</i>	1 point	Ifremer owes BMBF 101 points	Isotope container on L'Atalante 60 days [Barter cost: 60 points]	Ifremer owes BMBF 41points

Year of exchange & activity number <sup>8</sup>	Exchanged marine facility	Day rate points charge for facilities	Barter balance (before exchange)	Background on exchange & barter cost	Barter balance (following exchange)
2006 Activity No. 1	<i>Discovery</i>	10 points	NIOZ owes NERC 3 points	32-day NERC-NIOZ cruise of which 18-days are for the NIOZ work in the Mozambique channel [Barter cost: 180 points]	NIOZ owes NERC 183 points
2006 Activity No. 2	<i>Discovery</i>	10 points	NIOZ owes NERC 183 points	22-day NERC-NIOZ-BMBF cruise of which 5-days are for NIOZ work in Irminger Sea [Barter cost: 50 points]	NIOZ owes NERC 233 points
2006 Activity No. 2	<i>Discovery</i>	10 points	BMBF owes NERC 52 points	22-day NERC-NIOZ-BMBF cruise of which 3-days are for BMBF work in Irminger Sea [Barter cost: 30 points]	BMBF owes NERC 82 points
2006 Activity No. 3	<i>Merian</i>	10 points	BMBF owes Ifremer 455 points	32-days Ifremer cruise in NE Atlantic [Barter cost: 320 points]	BMBF owes Ifremer 135 points
2006 Activity No. 4	<i>Poseidon</i>	6 points	BMBF owes Ifremer 135 points	21-days cruise off Egypt [Barter cost: 126 points]	BMBF owes Ifremer 9 points
2006 Activity No. 5	<i>Pelagia</i>	7 points	NIOZ owes NERC 233 points	24-day cruise for NERC in the Celtic and Irish Seas [Barter cost: 168 points]	NIOZ owes NERC 65 points

<sup>8</sup> This is the same as the activity number in the OFEG activity document



2006 Activity No. 6	<i>Poseidon</i>	6 points	BMBF owes NERC 82 points	17-days cruise for NERC to turnaround NERC moorings off the Canary Islands in late summer/early winter 2006 [Barter cost: 102 points]	NERC owes BMBF 20 points
2006 Activity No. 7	<i>Poseidon</i>	6 points	NERC owes BMBF 20 points	31-day cruise for NERC off the Cape Verdes in early 2006 [Barter cost: 186 points]	NERC owes BMBF 206 points
2006 Activity No. 8	<i>Poseidon</i>	6-point	NERC owes BMBF 206 points	12-day re-deployment cruise for the RAPID array off the Canaries at the end of November 06 [Barter cost: 72 points]	NERC owes BMBF 278 points
2006 Activity No. 9	<i>Discovery</i>	7 points [NB. lower points cost by agreement]	NERC owes BMBF 278 points	30-day cruise for BMBF in the Irminger Sea [Barter cost: 210 points]	NERC owes BMBF 68 points
2006 Activity No 10	<i>Poseidon</i>	6-point	NERC owes BMBF 68 points	2-day intervention for NERC using POSEIDON in recover a drift RAPID mooring in the eastern North Atlantic [Barter cost: 12 points]	NERC owes BMBF 80 points
2006 Activity No #	<i>JCR</i>	15 points	IMR owes NERC 15 points	8-day intervention using JCR to recover moorings located in region between Scotland and Iceland [Barter cost: 120 points]	IMR owes NERC 135 points

Year of exchange & activity number <sup>9</sup>	Exchanged marine facility	Day rate points charge for facilities	Barter balance (before exchange)	Background on exchange & barter cost	Barter balance (following exchange)
2005 Activity No. 1	<i>Discovery</i>	7 points [NB. lower points cost by agreement]	NIOZ owes NERC 38 points	21-days ship-time for NIOZ in the Mozambique Channel in February 2005 [Barter cost: 147 points]	NIOZ owes NERC 185 points
2005 Activity No. 2	<i>Heincke</i>	5 points	BMBF owes Ifremer 485 points	14 days ship-time for Ifremer [Barter cost: 70 points]	BMBF owes Ifremer 415 points

<sup>9</sup> This is the same as the activity number in the OFEG activity document

2005 Activity No. 3	<i>L'Atalante</i>	10 points	BMBF owes Ifremer 415 points	4-days ship-time for BMBF [Barter cost: 40 points]	BMBF owes Ifremer 455 points
2005 Activity No. 4	<i>Pelagia</i>	7 points	NIOZ owes NERC 185 points	24-days ship-time for NERC in the Celtic and Irish Seas in Spring 2005 [Barter cost: 168 points]	NIOZ owes NERC 17 points
2005 Activity No. 5	<i>Poseidon</i>	6 points	BMBF owes NERC 184 points	21-days ship-time for NERC in the Faeroe Channel in Autumn 2005 [Barter cost: 126 points]	BMBF owes NERC 58 points
2005 Activity No. 6	<i>Poseidon</i>	6 points	BMBF owes NERC 58 points	1-day of ship time for opportunistic recovery near the Canary Islands of a drifting RAPID mooring in April [Barter cost: 6 points]	BMBF owes NERC 52 points
2005 Activity No. 7	<i>Las Palmas</i>	5 points	CSIC owes Ifremer 0 points	3-day of ship time for intervention for Ifremer [Barter cost: 15 points]	Ifremer owes CSIC 15 points
2005 Activity No. 8	<i>Pelagia</i>	7 points	NIOZ owes BMBF 35 points	3-day intervention for BMBF South East of Greenland [Barter cost: 21 points]	NIOZ owes BMBF 14 points
2005 Activity No. 9	<i>Pelagia</i>	7 points	NIOZ owes NERC 17 points	2-day intervention for NERC to retrieve two un-recovered moorings in the Faeroe Channel [Barter cost: 14 points]	NIOZ owes NERC 3 points
2005 Activity No. 10	<i>Discovery</i>	10 points	Ifremer owes NERC 195 points	1-day intervention for Ifremer to recover moorings near the Greenland Coast. [Barter cost: 10 points]	Ifremer owes NERC 205 points
2005 Activity No. #	<i>JCR</i>	15 points	IMR owes NERC 0 points	1-day intervention using JCR to recover lander on MAR [Barter cost: 15 points]	IMR owes NERC 15 points

Year of exchange & activity number <sup>10</sup>	Exchanged marine facility	Day rate points charge for facilities	Barter balance (before exchange)	Background on exchange & barter cost	Barter balance (following exchange)
2004 Activity No. 1	<i>Charles Darwin</i>	7 points per day	NERC owes NIOZ 39 points	10-days ship-time for NIOZ in the Irminger Sea in Summer 2004 [Barter cost: 70 points]	NIOZ owes NERC 31 points
2004 Activity No. 2	<i>Alkor</i>	5 points per day	No credit or deficit between NIOZ and BMBF	7-days ship-time for NIOZ [Barter cost: 35 points]	NIOZ owes BMBF 35 points
2004 Activity No. 3	<i>Poseidon</i>	7 points per day	BMBF owes Ifremer 580 points	15-days ship-time for Ifremer [Barter cost: 105 points]	BMBF owes Ifremer 475 points
2004 Activity No. 4	<i>Charles Darwin</i>	7 points per day	BMBF owes NERC 174 points	10½-days ship-time for BMBF in the Labrador Sea in Summer 2004 [Barter cost: 73.5 points]	BMBF owes NERC 247.5 points
2004 Activity No. 5	<i>Charles Darwin</i>	7 points per day	BMBF owes NERC 247.5 points	9½-days ship-time for BMBF in the Irminger Sea in Summer 2004 [Barter cost: 66.5 points]	BMBF owes NERC 314 points
2004 Activity No. 6	<i>Charles Darwin</i>	7 points per day	BMBF owes NERC 314 points	9-days ship-time for BMBF in the Irminger Sea in Summer 2004 [Barter cost: 63 points]	BMBF owes NERC 377 points
2004 Activity No. 8	<i>Poseidon</i>	7 points per day	BMBF owes NERC 377 points	27-days ship-time for NERC in the NE Atlantic in Spring 2004 [Barter cost: 189 points]	BMBF owes NERC 188 points
2004 Activity No. 9	<i>Poseidon</i>	7 points per day	BMBF owes NERC 188 points	14-days ship-time for NERC in the NE Atlantic in Summer 2004 [Barter cost: 98 points]	BMBF owes NERC 90 points
2004 Activity No. 11	<i>TOBI</i>	3 points per day	BMBF owes NERC 90 points	36-days TOBI time for BMBF on a Meteor cruise in the S. Atlantic in late 2004 [Barter cost: 108 points]	BMBF owes NERC 198 points
2004	<i>Poseidon</i>	7 points per day	BMBF owes NERC 198 points	BMBF intervention to re-deploy NERC mooring in the subtropical NE Atlantic in late 2004 (cost = 2-days)	BMBF owes NERC 184 points

<sup>10</sup> This is the same as the activity number in the OFEG activity document

Activity No. 12				[Barter cost: 14 points]	
2004 Activity No. 13	<i>L'Atalante</i>	10 points per day	BMBF owes Ifremer 475 points	1-day intervention by Ifremer for BMBF [Barter cost: 10 points]	BMBF owes Ifremer 485 points
2004 Activity No. 14	<i>Charles Darwin</i>	7 points per day	NIOZ owes NERC 31 points	1-day intervention by NERC for NIOZ for mooring recovery in Canary Basin [Barter cost: 7 points]	NIOZ owes NERC 38 points