

Time	9 March 2015, 13–16
Place	T40, Geoscience building, Stockholm University
Attending board members	<p><i>Cynthia de Wit, Chair</i> <i>Dan Henningson, Professor, Royal Institute of Technology</i> <i>Karin Holmgren, Head, Dep. of Physical Geography, Stockholm University</i> <i>Max Holmström, Student representative</i> <i>Martin Jakobsson, Head, Dep. of Geological Sciences, Stockholm University</i> <i>Erik Kjellström, Head of Rossby Centre, Swedish Meteorological and Hydrological Inst.</i> <i>Michael McLachlan, Head, Dep. of Env. Science and Anal. Chemistry, Stockholm U.</i> <i>Michael Tjernström, Head, Dep. of Meteorology, Stockholm University</i></p>
Other participants	<p><i>Karin Jonsell, Science Coordinator, Bolin Centre for Climate Research</i> <i>Alasdair Skelton, Director, Bolin Centre for Climate Research</i></p>
Absent	<p><i>Marianne Lilliesköld, Swedish Environmental Protection Agency</i> <i>Leonard Barrie, Director of Research, Bolin Centre for Climate Research</i></p>
Secretary	<i>Karin Jonsell</i>

§ 1	<p>Meeting opens</p> <p>The chair welcomed everyone.</p>
§ 2	<p>Appointment of attester</p> <p>Erik Kjellström was appointed as attester.</p>
§ 3	<p>Approval of the agenda</p> <p>The agenda for this meeting was approved, with the addition of 10 d.</p>
§ 4	<p>Protocol from the previous meeting</p> <p>The protocol from the previous meeting was approved.</p>
§ 5	<p>Approval of the budget for the Bolin Centre for 2015</p> <p>Bolin Centre director Alasdair Skelton presented a budget for 2015 and the board discussed it. The Linnaeus grant ends 30 June 2016 and the Bolin Centre has to adapt to a lower income. The Linnaeus budget for 2015 will create a positive net balance at the end of the year and this will be used during a transitional period.</p> <ul style="list-style-type: none"> • The Board accepted the proposed budgets for the Linnaeus grant and for the strategic grant, see Appendix 1, with a reservation about the outcome of the board's decision on funding for climate modelling coordination, item 8. • The Board made it clear that the decided Linnaeus budget is firm, and gave the director authority to see to it that everyone keeps within budget.

§ 6	<p>Discussion of scenarios of future financing of the Bolin Centre</p> <p>The chair Cynthia de Wit, Director Alasdair Skelton and the four heads of departments have negotiated an agreement regarding the best solution for future distribution of the strategic grant so as to keep up momentum with the research nodes being built up around recruited scientists. The current allocation is IGV 16.7 %; NG 16.7 %; MISU 35.3 % and ACES 31.3 % out of the 80 % of the strategic money distributed to Stockholm University. The agreement would allocate an equal share of 25 % to each of the Stockholm University departments from 1 January 2021. During the transitional period starting 1 January 2016, IGV and NG will receive 25 % and MISU and ACES 33.3 %. The extra cost will be covered by the budgeted positive net result from the Linnaeus grant on 1 July 2016.</p> <p>The Board then continued the discussion from the previous meeting of future scenarios for the Bolin Centre central functions.</p> <ul style="list-style-type: none"> • The Director is presently employed 50 % and the Director for Research 50 %. The Board recommended reducing the combined Directorship to 50 % totally. • The Board recommended continuing with a Science Coordinator at 100 %. • The Board discussed the other functions but needs more information before making recommendations and asked <ul style="list-style-type: none"> ○ Director Alasdair Skelton to investigate the future organisation of the Climate Research School and dimension the need for its Director of Studies. ○ Head of Department Martin Jakobsson to carry out a needs analysis on the future organisation of Database coordination. ○ Director Alasdair Skelton to propose a combined package for the future organisation of the Climate Research School, the Database coordination and the Climate modelling coordination in a document to be prepared in time for the next Board meeting. • The Board recommended keeping the funding for the research areas to 6 x SEK 300 000. • The Board recommended reducing the Director's and Research Director's resources to 2 x SEK 200 000. • The Board recommended allocating SEK 500 000 to communication for the Bolin Centre.
§ 7	<p>Research education in Climate Science</p> <p>The item was postponed to the next Board meeting.</p>
§ 8	<p>Status of climate modelling coordination from 2015 onwards</p> <p>The general discussion was postponed to the next Board meeting.</p> <ul style="list-style-type: none"> • The Board decided to employ Laurent Brodeau at 30 % as a Climate Modelling Coordinator and to allocate him SEK 100 000 in resources for 2015. Thus, the entire budget presented in item 5 was validated.
§ 9	<p>Follow up on undergraduate teaching in Climate Science</p> <ul style="list-style-type: none"> • The Board delegated the task of negotiating the details of undergraduate teaching organisation to Director Alasdair Skelton and MISUs Head of Department Michael Tjernström.
§ 10	<p>Information</p> <ol style="list-style-type: none"> a. Follow up on joint workshop with the Baltic Sea Centre Research Director Leonard Barrie will relate the information at the next Board meeting.

	<p>b. Update on Bolin Centre Data Base Coordination The final version of the terms of reference for the Bolin Centre Data Base Group was presented in Appendix 2.</p> <p>c. Updated agenda for the Bolin Centre Summer School on Islay The preliminary program for the Summer School on Islay was presented in Appendix 3.</p> <p>d. FORMAS visit The research council FORMAS contacted the Bolin Centre and wanted to learn more about the centre. They were invited 3 March for a meeting with the Directors. Leonard Barrie presented the Bolin Centre and Nina Kirchner and Kevin Noone presented their current research projects, which are financed by FORMAS.</p>
§ 17	<p>Any other business There was no other business.</p>
§ 18	<p>Next meeting Next meeting will be 20 May 9-12 in U37 in the Geoscience building.</p>

Karin Jonsell,
Secretary

Erik Kjellström,
Attester

Cynthia de Wit,
Chair of the Board

Bolincentret (Linnaeus)	Utgående balans (2013)	Inkomst (2014)	Ingående balans (2014)	Kostnader (2014)	Utgående balans (2014)
Kapital från tidigare år (Bolincentret)		SEK 8 845 882			
Inkomst (Linnaeus bidrag)		SEK 12 000 000			
Ingående balans (Bolincentret)		SEK 20 845 882			

		ÖVF från 1333323 (2014)			
Huvudprojektet (1333323)	SEK 760 735				SEK 491 223
Christophe Sturm, inkl. 35% OH	SEK 161 169	SEK 646 747	SEK 646 747	SEK 646 747	SEK 0
Rezwan Mohammad (50%), inkl. 35% OH	-SEK 7 212	SEK 504 551	SEK 497 339	SEK 497 339	SEK 0
Karin Jonsell 2013-05-27, inkl. 61% OH	-SEK 16 835	SEK 636 810	SEK 619 975	SEK 619 975	SEK 0
Kristofer Döös, inkl. 35% OH	SEK 15 022	SEK 1 244 700	SEK 1 259 722	SEK 1 237 360	SEK 22 362
Laurent Brodeau (70%), inkl. 35% OH	SEK 393 184	SEK 185 000	SEK 578 184	SEK 587 625	-SEK 9 441
Nina Kirchner, inkl. 35% OH	SEK 791 358	SEK 321 000	SEK 1 112 358	SEK 1 025 134	SEK 87 224
Håkan Grudd (50%), inkl. 35% OH	SEK 123 551	SEK 377 000	SEK 500 551	SEK 497 474	SEK 3 077
Director, inkl. 35% OH	SEK 241 259	SEK 455 000	SEK 696 259	SEK 651 348	SEK 44 911
Research director, inkl. 35% OH	SEK 268 755	SEK 455 000	SEK 723 755	SEK 393 745	SEK 330 010
Research Area 1, inkl. 35% OH	SEK 697 303	SEK 405 000	SEK 1 102 303	SEK 555 662	SEK 546 641
Research Area 2, inkl. 35% OH	SEK 317 870	SEK 405 000	SEK 722 870	SEK 388 081	SEK 334 789
Research Area 3 / Jarsjö, inkl. 35% OH	SEK 165 088	SEK 405 000	SEK 615 974	SEK 612 721	SEK 3 253
Research Area 3 / Ring, inkl. 35% OH	SEK 45 886	SEK 0	SEK 0	SEK 0	SEK 0
Research Area 4, inkl. 35% OH	SEK 185 745	SEK 405 000	SEK 590 745	SEK 515 610	SEK 75 135
Research Area 5, inkl. 35% OH	SEK 277 447	SEK 405 000	SEK 682 447	SEK 860 133	-SEK 177 686
Research Area 6, inkl. 35% OH	SEK 963 474	SEK 405 000	SEK 1 368 474	SEK 665 463	SEK 703 011
Kommunikation, inkl. 35% OH	-SEK 74 191	SEK 1 881 691	SEK 1 807 500	SEK 1 544 913	SEK 262 587
Utbildning, inkl. 35% OH	SEK 0	SEK 0	SEK 0	SEK 0	SEK 0
Databas, inkl. 35% OH	SEK 89 160	SEK 17 339	SEK 106 499	SEK 95 031	SEK 11 468
Klimatforsarskolan, inkl. 35% OH	SEK 3 447 113	SEK 2 000 000	SEK 5 447 113	SEK 4 201 637	SEK 1 245 476
Extra överföringar		SEK 1 114 674			
Summa	SEK 8 845 882	SEK 12 269 512			SEK 3 974 040

#REF!

SEK 14 551

Kvarstående medel (2015)
Inkomster (2016)
Kvarstående (Linnaeus)
Kvarstående (CRS)
Kvarstående (summa)

Inkomst (2015)	Ingående balans (2015)	Kontonamn	Projektnr	Ansvarig
SEK 3 974 040				
SEK 12 000 000				
SEK 15 974 040				

OVF från 1333323 (2015)				
		Bolincentret/Linnaeus	1333323	Alasdair Skelton
SEK 1 112 550	SEK 1 112 550	IGV/Sturm/Lön	1290008	Martin Jakobsson
SEK 463 377	SEK 463 377	IGV/Mohammad/Lön	1290007	Martin Jakobsson
SEK 619 975	SEK 619 975	IGV/Jonsell/Lön	1514501	Martin Jakobsson
SEK 1 225 515	SEK 1 247 877	MISU/Döös/Lön	1940415	Michael Tjernström
SEK 585 867	SEK 576 426	MISU/Brudeau/Lön	1940418	Michael Tjernström
SEK 974 857	SEK 1 062 081	INK/Kirchner/Lön	1273919	Karin Holmgren
SEK 488 751	SEK 491 828	INK/Grudd/Lön	1207805	Karin Holmgren
SEK 405 000	SEK 449 911	IGV/Bolincentret/Skelton	1333324	Alasdair Skelton
SEK 405 000	SEK 735 010	IGV/Bolincentret/Barrie	1508701	Leonard Barrie
SEK 405 000	SEK 951 641	MISU/Bolincentret/RA1	1940413	Johan Nilsson/Rodrigo Cabellero/Agatha de Boer
SEK 405 000	SEK 739 789	ITM/Bolincentret/RA2	1479203	Ilona Riipinen/Annica Ekman/Gunilla Svensson
SEK 405 000	SEK 408 253	INK/Bolincentret/RA3	1351806	Jerker Jarsjö/Margareta Hansson/Magnus Mörtth
SEK 0	SEK 0	IGV/Bolincentret/RA3	1488203	Uwe Ring / Transfer to 1351806
SEK 405 000	SEK 480 135	IGV/Bolincentret/RA4	1437507	Volker Bruchert/Örjan Gustafsson
SEK 405 000	SEK 227 314	IGV/Bolincentret/RA5	1409802	Malin Kylander/Qiong Zhang
SEK 405 000	SEK 1 108 011	IGV/Bolincentret/RA6	1290005	Helen Coxall/Nina Kirchner
SEK 810 000	SEK 1 072 587	IGV/Bolincentret/Kommunikation	1333325	Alasdair Skelton
SEK 0	SEK 0	IGV/Bolincentret/Utbildning	1333326	Alasdair Skelton
SEK 100 000	SEK 111 468	INK/Bolincentret/Databas	1207806	Håkan Grudd
SEK 2 000 000	SEK 3 245 476	INK/Bolincentret/CRS	1440003	Björn Gunnarsson/Alasdair Skelton
SEK 11 620 892				

SEK 4 353 148
SEK 6 000 000
SEK 8 107 672
SEK 2 245 476
SEK 10 353 148

IGV	SEK 5 030 903
MISU	SEK 2 216 382
INK	SEK 3 968 608
ITM	SEK 405 000

Kostnader			2013	2014	2015 OH (2013)	OH (2014)	OH (2015)	2013	2014	2013 + 2014	4333308+09	4333308 (2014)	
Riipinen, Ilona 1/9-11	Prefekt	ITM	SEK 849 750	SEK 875 243	SEK 901 500	60%	60%	60%	SEK 1 359 600	SEK 1 400 388	SEK 2 759 988	SEK 2 760 000	SEK 1 400 000
Beer, Christian	Prefekt	ITM	SEK 609 008	SEK 684 304	SEK 704 833	60%	60%	60%	SEK 974 413	SEK 1 094 886	SEK 2 069 300	SEK 2 068 800	SEK 1 094 400
Barrie, Leonard 1/3-13	Prefekt	ITM	SEK 269 133	SEK 236 334	SEK 250 727	60%	60%	60%	SEK 430 612	SEK 378 134	SEK 808 746	SEK 808 000	SEK 377 600
PD: Ahlm, Lars 1/1-12 ²	Prefekt/Riipinen	ITM	SEK 158 000	SEK 0	SEK 0	60%	60%	60%	SEK 252 800	SEK 0	SEK 252 800	SEK 252 800	SEK 252 800
PD: Bayer, Tina 20/10-133	Prefekt/Beer	ITM	SEK 197 000	SEK 517 000	SEK 481 547	60%	60%	60%	SEK 315 200	SEK 827 200	SEK 1 142 400	SEK 1 142 400	SEK 827 200
PD: Freud, Eyal 1/2-14	Prefekt/Barrie	ITM	SEK 0	SEK 541 341	SEK 49 213	60%	60%	60%	SEK 0	SEK 866 145	SEK 866 145	SEK 865 600	SEK 865 600
Doktorand: Ivica Crljenica, 1/9 2011	Prefekt/Riipinen	ITM	SEK 217 767	SEK 224 300	SEK 149 533	60%	60%	60%	SEK 348 427	SEK 358 879	SEK 707 306	SEK 707 200	SEK 358 400
Programmerare: Brakebusch, Matthias 1/9-20	Prefekt	ITM	SEK 187 624	SEK 562 871	SEK 579 758	60%	60%	60%	SEK 300 198	SEK 900 594	SEK 1 200 792	SEK 1 201 600	SEK 900 800
Databasexpert:Tunved, Peter 1/9-13	Prefekt	ITM	SEK 233 761	SEK 722 321	SEK 495 994	60%	60%	60%	SEK 374 017	SEK 1 155 713	SEK 1 529 731	SEK 1 529 600	SEK 1 155 200
Startbidrag Ilona/Christian	Prefekt/Riipinen/Beer	ITM	SEK 250 000	SEK 0	SEK 0	0%	0%	0%	SEK 250 000	SEK 0	SEK 250 000	SEK 250 000	SEK 250 000
Qiong Zhang 1/9 -12	Prefekt	INK	SEK 634 845	SEK 653 890	SEK 673 507	45%	45%	59%	SEK 920 525	SEK 948 141	SEK 1 868 667	SEK 1 945 900	SEK 948 300
Startbidrag (Qiong)	Prefekt/Qiong	INK	SEK 200 000	SEK 0	SEK 0	0%	0%	0%	SEK 200 000	SEK 0	SEK 200 000	SEK 200 000	SEK 70 100
PD: Klas Persson 1/9-14	Prefekt/Gia Destouni	INK	SEK 0	SEK 147 638	SEK 590 554	45%	45%	59%	SEK 0	SEK 214 076	SEK 214 076	SEK 215 000	SEK 215 000
PD: Ballarotta, Maxime 1/9-13	Prefekt/Jarsjö	INK	SEK 190 700	SEK 589 262	SEK 381 399	45%	45%	59%	SEK 276 514	SEK 854 430	SEK 1 130 944	SEK 1 131 000	SEK 854 050
Li, Qiang Programmerare 15/8-13	Prefekt/Zhang	INK	SEK 137 027	SEK 609 008	SEK 627 279	45%	45%	59%	SEK 198 689	SEK 883 062	SEK 1 081 751	SEK 1 081 700	SEK 883 050
Koordinatormedel	Svensson/Caballero	MISU	SEK 540 000	SEK 540 000	SEK 100 000	0%	0%	0%	SEK 540 000	SEK 540 000	SEK 1 080 000	SEK 1 080 000	
Friköp koordinator	Prefekt	MISU	SEK 235 526	SEK 240 604	SEK 186 722	52%	52%	52%	SEK 358 000	SEK 365 719	SEK 723 719	SEK 910 000	
Ekman, Annica 1/1-113	Prefekt	MISU	SEK 163 000	SEK 166 093	SEK 427 690	52%	52%	52%	SEK 247 760	SEK 252 462	SEK 500 222	SEK 500 000	SEK 252 000
Caballero, Rodrigo 1/1-11	Prefekt	MISU	SEK 751 000	SEK 767 720	SEK 790 751	52%	52%	52%	SEK 1 141 520	SEK 1 166 934	SEK 2 308 454	SEK 2 309 000	SEK 1 167 000
Barrie, Leonard 1/3-13	Prefekt	MISU	SEK 272 977	SEK 239 710	SEK 246 902	52%	52%	52%	SEK 414 925	SEK 364 360	SEK 779 285	SEK 774 000	SEK 365 000
Biträdande lektor, Frida Bender 1/1 -2014	Prefekt	MISU	SEK 0	SEK 701 000	SEK 741 329	52%	52%	52%	SEK 0	SEK 1 065 520	SEK 1 065 520	SEK 1 066 000	SEK 1 066 000
Postdoc, Anders Engström 1/9-14 -7/11-14; F	Prefekt	MISU	SEK 0	SEK 122 000	SEK 738 192	52%	52%	52%	SEK 0	SEK 185 440	SEK 185 440	SEK 185 000	SEK 185 000
Caron, LP 1/6-11	Prefekt/Svensson	MISU	SEK 333 000	SEK 0	SEK 0	52%	52%	52%	SEK 506 160	SEK 0	SEK 506 160	SEK 506 000	SEK 506 000
Fabien Roquet, 1/10-13	Prefekt	MISU	SEK 149 945	SEK 149 945	SEK 0	52%	52%	52%	SEK 227 917	SEK 227 917	SEK 455 834	SEK 456 000	SEK 228 000
Garcia-Carreras, Luis 7/10-13	Prefekt	MISU	SEK 156 866	SEK 627 463	SEK 484 715	52%	52%	52%	SEK 238 436	SEK 953 744	SEK 1 192 180	SEK 1 192 000	SEK 953 000
Pausata, Francesco 1/1-14	Prefekt	MISU	SEK 0	SEK 627 463	SEK 646 287	52%	52%	52%	SEK 0	SEK 953 744	SEK 953 744	SEK 953 000	SEK 953 000
Chiacchio, Marc 13/1 -14	Prefekt/Barrie	MISU	SEK 0	SEK 143 908	SEK 0	52%	52%	52%	SEK 0	SEK 218 740	SEK 218 740	SEK 219 000	SEK 219 000
Doktorander:Henrik Carlsson 1 1/1-12	Prefekt/Caballero	MISU	SEK 218 689	SEK 218 689	SEK 240 457	52%	52%	52%	SEK 332 408	SEK 332 408	SEK 664 816	SEK 664 000	SEK 333 000
Frey, Lena 1/9-14		MISU	SEK 0	SEK 145 793	SEK 450 500	52%	52%	52%	SEK 0	SEK 221 605	SEK 221 605	SEK 222 000	SEK 222 000
Hanley, John 1/7-11 ²	Prefekt/Caballero	MISU	SEK 118 000	SEK 0	SEK 0	52%	52%	52%	SEK 179 360	SEK 0	SEK 179 360	SEK 179 000	SEK 179 000
Samfinansiering SeRC proj		MISU	SEK 0	SEK 1 200 000	SEK 0	0%	0%	0%	SEK 0	SEK 1 200 000	SEK 1 200 000	SEK 1 200 000	SEK 1 200 000
Undervisningsproj, Hede	Prefekt	MISU	SEK 110 000	SEK 0	SEK 0	52%	52%	52%	SEK 167 200	SEK 0	SEK 167 200	SEK 167 000	SEK 167 000
Startbidrag Rodrigo/NN 200/Postdoc 2013 2*50/ Postdoc 2014 2*50/		MISU	SEK 0	SEK 400 000	SEK 0	0%	0%	0%	SEK 0	SEK 400 000	SEK 400 000	SEK 400 000	SEK 400 000
Karin Jonsell	Prefekt	IGV	SEK 500 000	SEK 500 000	SEK 500 000	0%	0%	0%	SEK 500 000	SEK 500 000	SEK 1 000 000	SEK 1 000 000	
Agatha de Boer 1/9-11	Prefekt	IGV	SEK 679 800	SEK 700 194	SEK 721 200	57%	57%	61%	SEK 1 067 286	SEK 1 099 305	SEK 2 166 591	SEK 2 193 800	SEK 1 067 286
Zhihong Zong 15/11-11	Prefekt/Skelton	IGV	SEK 605 640	SEK 0	SEK 0	57%	57%	61%	SEK 950 855	SEK 0	SEK 950 855	SEK 975 660	SEK 950 855
Hutchinson, David 1/1-15	Prefekt	IGV	SEK 0	SEK 0	SEK 627 463	57%	57%	61%	SEK 0	SEK 0	SEK 0	SEK 0	SEK 0
Robert Graham 24/8-11	Prefekt/de Boer	IGV	SEK 220 858	SEK 233 453	SEK 160 305	57%	57%	61%	SEK 346 747	SEK 366 522	SEK 713 268	SEK 721 620	SEK 346 747
Mohammad, Rezwan	Prefekt	IGV	SEK 332 186	SEK 332 186	SEK 342 152	57%	57%	61%	SEK 521 533	SEK 521 533	SEK 1 043 065	SEK 1 027 140	SEK 521 533

Ingående balans 1/1-2015 (4333308)

Ingående balans 1/1-2015 (4333309)

Inkomster (2015)

Summa

Utgående balans 31/12-2015

Utgående balans - 31/12-2015 (IGV)

Utgående balans - 31/12-2015 (INK)

Utgående balans - 31/12-2015 (ITM)

Utgående balans - 31/12-2015 (MISU)

Summa

Kvar att använda (IGV)

Kvar att använda (INK)

Kvar att använda (ITM)

Kvar att använda (MISU)

4333308 (2013)	4333309	2015 Summa
SEK 1 360 000		SEK 1 442 400
SEK 974 400		SEK 1 127 733
SEK 430 400		SEK 401 163
SEK 252 800		SEK 0
SEK 315 200		SEK 770 476
		SEK 78 740
SEK 348 800		SEK 239 253
SEK 300 800		SEK 927 612
SEK 374 400		SEK 793 590
SEK 250 000		SEK 0
SEK 997 600		SEK 1 070 876
	SEK 129 900	SEK 0
		SEK 938 980
SEK 276 950		SEK 606 425
SEK 198 650		SEK 997 373
SEK 540 000	SEK 540 000	SEK 100 000
SEK 544 000	SEK 366 000	SEK 283 817
SEK 248 000		SEK 650 089
SEK 1 142 000		SEK 1 201 942
SEK 409 000		SEK 375 290
		SEK 1 126 821
		SEK 1 122 052
SEK 506 000		SEK 0
SEK 228 000		SEK 0
SEK 239 000		SEK 736 767
		SEK 982 356
		SEK 0
SEK 331 000		SEK 365 494
	SEK 222 000	SEK 684 760
SEK 179 000		SEK 0
	SEK 1 200 000	SEK 0
SEK 167 000		SEK 0
	SEK 400 000	SEK 0
SEK 500 000	SEK 500 000	SEK 500 000
SEK 1 094 800	SEK 1 099 000	SEK 1 161 132
SEK 975 660		SEK 0
		SEK 1 010 216
SEK 355 810	SEK 365 810	SEK 278 797
SEK 520 030	SEK 507 110	SEK 560 532
		SEK 3 510 676
		SEK 20 534 686
		SEK 20 534 686
		SEK 0
		SEK 7 165 728
		SEK 15 125 600
		SEK 22 291 328
		SEK 1 756 642
		-SEK 123 191
		SEK 770 366
		-SEK 343 413
		SEK 292 807
		SEK 1 160 073
		Summa att överfö
		SEK 70 541
		SEK 3 581 218
		SEK 964 098
		SEK 4 577 753
		SEK 19 690
		SEK 5 800 656
		SEK 702 312
		SEK 8 331 701

BOLIN CENTRE DATABASE ADVISORY GROUP (DAG)

TERMS OF REFERENCE

1. Preamble

The main objective of the Bolin Centre Database initiative is to ensure the preservation, interoperability and open access of climate and other Earth system research data for Members of the Centre. Data and metadata stored in the database are made available through a web interface at <http://bolin.su.se>. A database coordinator and a technical database manager currently makes up the Database Team.

The External Science Advisory Group of the Bolin Centre (ESAG) pointed out (in their report of 9 December 2014) the need to increase the capacity of the Centre Database: *“The Bolin Centre collects unique datasets, some of which are very large. The capacity to organize an efficient and user-friendly databank is too limited. Archiving of the data cannot be left over to international databanks only. The ESAG proposes that action is taken to increase the capacity.”* From a discussion with the ESAG chair during the 21 Nov 2014 the following action was initiated: *“The [Bolin Centre] Board agreed that a more structured approach to data base services in the Centre is needed that has stronger participation of the Departments and their data base personnel. As a start, the [Bolin Centre] directorate is asked to prepare terms of reference for a possible Database Advisory Group to be discussed at the next board meeting. This document is in response to this request.*

2. Purpose

Working as a team, the Bolin Centre Database Advisory Group will provide strategic direction, leadership, support for service delivery and budgetary planning advice. This will ensure an increased capacity and a refined operability of the Bolin Centre research database.

3. Term

This Terms of Reference are effective from 29 January 2015 and will be ongoing until terminated by agreement between the parties.

4. Membership

The Bolin Centre Database Advisory Group will consist of one representative from each of the four Bolin Centre partner Departments at Stockholm University and the Bolin Centre partner institutions KTH and SMHI. The Data Base coordinator will chair the group. A rapporteur to assist in preparing minutes will be elected from amongst the members on an annual basis.

5. Objective and Responsibilities

To ensure the delivery of data base management service and support that in turn, ensures the preservation, interoperability and open access of climate research data generated by Bolin Centre Activities. The Data Base Advisory Group reports through the coordinator to the Directors of the Bolin Centre who in turn work with Bolin Centre partners to ensure the effective functioning of this team.

6. Meetings

- All meetings will be chaired by the Bolin Centre Data Base Coordinator
- A meeting quorum will be the chair, and two thirds of the remaining members of the advisory group.

- Meeting agendas and minutes will be provided by the Data Base Coordinator and rapporteur, this includes:
 - preparing and distributing agendas and supporting papers at least one week before the meeting
 - preparing and distributing meeting minutes that are checked by a group member no later than two weeks after the meeting..
- Meetings will be held at a minimum of twice a year.

7. Amendment, Modification or Variation

This Terms of Reference may be amended in writing through consultation with the Directors of the Bolin Centre and approval by the Bolin Centre Board.

Agenda for Bolin Centre Summer School on Isotopes in Climate and the Earth System 23-29 August 2015 Islay Scotland

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00-10:00	Overview: Use of Isotopes in Understanding Past and Present Climate on Earth Raymond Pierrehumbert	Overview: Isotopes and the Global Carbon Cycle: past and present James White	<p>Excursion: Neoproterozoic “snowball Earth”</p> <p>Tillites near Port Askaig</p> <p>Stromatolitic dolostones and raised shorelines on North Islay</p> <p>Public lecture: Snowball Earth – evidence from Islay</p>	Overview: Use of Geochemistry and Isotopes In Recovery of Climate Records James White	Overview: Isotopes and terrestrial trace gas biogeochemistry Patrick Crill
10:00-11:00	Lecture: Isotope fundamentals: mass fractionation and radioactive decay Per Andersson	Lecture: Cenozoic climate history from deep sea foraminifera stable carbon and oxygen isotopes: trends, rhythms and aberrations, Helen Coxall		Lecture: TBD	Lecture: Measurements of carbon and oxygen isotopes using quantum cascade spectroscopy Patrick Crill
11:00- 11:15	Break	Break		Break	Break
11:15- 12:15	Overview: Use of radioactive isotopes for dating and rate determination Per Andersson	Practical Carbon cycle perturbation and global warming 65 million years ago (PETM): analogue for anthropogenic change Helen Coxall and colleagues		Follow-up to Practicals: on (i) Dating and rate determination (ii) Isotopes and Sediments Per Andersson, Helen Coxall	Lecture: Measurement of isotope ratios by mass spectrometry (TIMS and ICP-MS) Per Andersson
12:15 – 13:00	Lunch	Lunch		Lunch	Lunch
13:00 -16:00	Excursion: Machair Bay	Excursion: Glacial landforms		Excursion: Peat coring on the Rhinns	Excursion: Laphraoig Distillery
16:00-17:00	Practical: On dating and rate determination Per Andersson	Lecture: Carbon isotopes and the neoproterozoic snowball earth Raymond Pierrehumbert		Lecture: Climate changes from isotopes in terrestrial peats Malin Kylander	Lecture Isotopes, atmospheric processes and aerosols (S, Pb, Rn, cosmogenic) L. Barrie
17:00-18:00	Lecture: Stable water isotopes and the hydrological cycle: part 1 Observations, Q. Zhang	Lecture: Evidence from Islay for a neoproterozoic snowball Earth A. Skelton		Lecture: Use of mixing models for source apportionment including statistical techniques (example Russian Marine Sediments August Andersson)	Lecture: Title TBD Otto Hermelin
18:00- 19:00	Lecture: Stable water isotopes and the hydrological cycle Part 2 modelling, Q. Zhang (F. Pausata TBC)	Local history lecture I		Practical on mixing models August Andersson	
19:00-19:30					Reception
20	Dinner	Dinner	Dinner	Dinner	Banquet