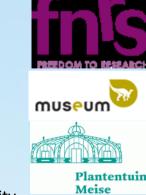


The science-policy link in practice: how to propose an Antarctic Specially Protected Area (ASPA)?



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1. InBios, University of Liège, Liège, Belgium: 2. Protistology and Aquatic Ecology, University of Ghent, Ghent, Belgium; 3. Microbiology, University of Ghent, Ghent, Belgium; 4. Royal Belgian Institute of Natural Sciences, Brussels, Belgium; 5. Meise Botanical Garden, Meise, Belgium

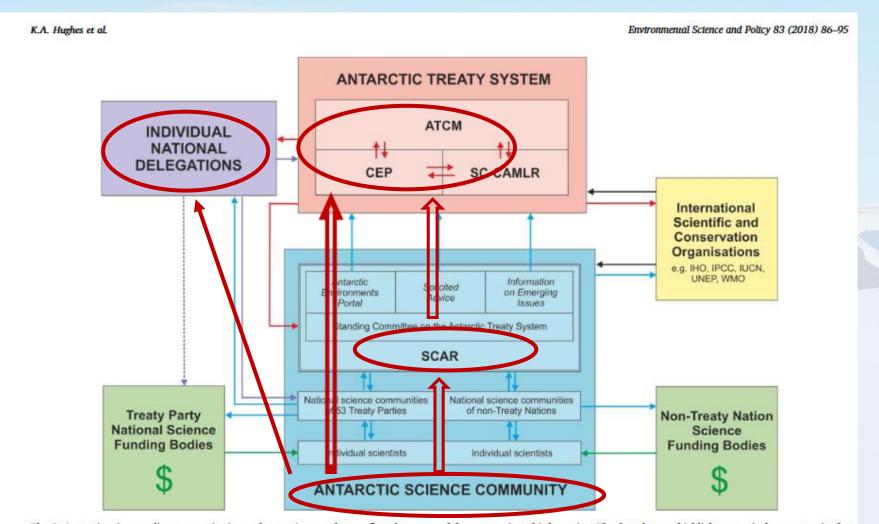
Basic idea: Scientists go to the field, analyse data and literature, and get a good idea of the environmental values of the sites that would deserve additional protection

However,

- the process of ASPA proposal may look quite mysterious and complex
- scientists might feel that this process is something for other people (environmental managers, CEP delegation members...) but it is not their job
- or that this process would take too much time and not be valued for their career

Example of the process of ASPA designation in the Sør Rondane Mountains started by Belgium, still in the penultimate step

Links between the Antarctic Science community and the Antarctic Treaty System where decisions are taken about ASPAs



2. Policy

1. Science

Fig. 2. Antarctic science-policy communication pathways. Arrow colours reflect the source of the communicated information. The dotted arrow highlights a particular opportunity for further improvements in communication between some individual national delegations to the ATCM and their respective national science funding bodies to consider more targeted funding of environmental science relevant to Antarctic policy needs.



1. Science

Our site:

Dronning Maud Land, Sør Rondane Mountains

Region of the Belgian station, Princess Elisabeth (2009)





1. Science

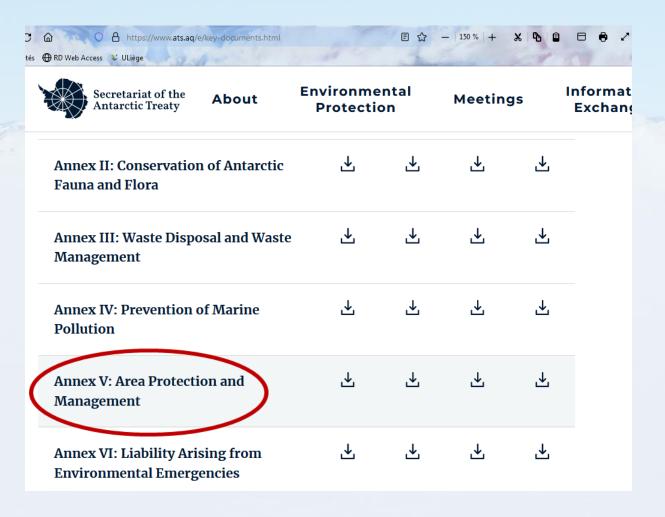
Belgian Science Policy funded projects ANTAR-IMPACT, BELDIVA and MICROBIAN (2008-2020):
A very rich and unique terrestrial biodiversity on specific sites of the nunataks and ridges, including biofilms and Biological Soil Crusts.



2. Policy

Look at the documents to prepare the submission of a proposal on the ATS website:

https://www.ats.aq/e/key-documents.html



Annex V: Area protection and Management

ARTICLE 3 : Antarctic Specially Protected Areas (ASPA)

- 1. ...to protect "outstanding environmental, scientific, historic, aesthetic or wilderness values, any combination of those values, or ongoing or planned scientific research"
- 2. ... include in the series of ASPA:
- (a) « areas kept **inviolate** from human interference so that future comparisons may be possible with localities that have been affected by human activities »
- (b) representative of major **ecosystems**
- (c) Important or unusual assemblages of **species**
- (d) Type locality or only known habitat of any species
- (e) areas of particular interest to ongoing or planned scientific research;
- (f) examples of outstanding geological, glaciological or geomorphological features;
- (g) areas of outstanding aesthetic and wilderness value;
- (h) sites or monuments of recognised historic value; and ...

1. Outstanding values of the proposed area in light of the provisions of the Annex V

1. Biodiversity

- 2. Unique representativeness of mountainous ecosystems (very extreme) in ACBR6
- 3. Potential refuges for living organisms during the glaciation cycles in Antarctica
- 4. Scientific experimental value

2. Implications of an increase of activities in the area

Potential for negative impacts due to **visits** and **human disturbances**, mainly driven by the presence of **infrastructures** (Station, Blue Ice Runway for intercontinental flights at 60 kms) in the vicinity, and general increase in **inland tourism**.

⇒ Therefore, the involved scientists initiated the process of creating an ASPA in collaboration with the relevant ministries (Foreign Affairs, Environment and Science Policy).

General process

(1) Prior assessment, to be presented at CEP

(1.b) Information Paper (IP) to answer the comments made

(2) Draft Management Plan, to be presented at CEP

Where we are now!

(3) Draft Management Plan discussed intersessionally in the Subsidiary Group on Management Plans (\rightarrow CEP Discussion Forum where all Parties are invited)

(4) New version of Management Plan, based on SGMP advices, submitted to CEP

? (5) Final version of the Management Plan adopted by Measure XX (202X) at ATCM?

Guidelines and Procedures

https://www.ats.aq/devAS/EP/GuidelinesAndProcedures?lang=e

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¥	Secretariat of the Antarctic Treaty	About	Environmental Protection	Meetings	Informat	ion Exchange	Data
А	AREA PROTECTION AND MANAGEMENT (ANNEX V) Revised Site Guidelines for Visitors Checklist (2021)			VIEW/	DOWNLOAD		
F					<u>↓</u>		
S	ummary of the work of the	CEP on M	Iarine Protected Areas 1998-2021		<u> </u>		
С	lowchart to illustrate/sumn onclusions with regard to a esignation (2019)		e process of evaluating and drawi an area for potential ASMA	ng	т		
	Guidelines for the assessmer 2018)	nt and ma	anagement of Heritage in Antarcti	ica	<u>+</u>		
G	Guidance for assessing an ar	ea for a p	otential ASMA designation (2017))	₹		
	Guidelines: A prior assessme ASMAs (2017)	ent proces	ss for the designation of ASPA and	i			
C	hecklist to assist in the insp	pection of	f ASPA and ASMA (2008)		₹		
G	Guidelines for handling of pr	re-1958 h	nistoric remains (2001)				
	Guidelines for Implementati 2000)	on of the	Framework for Protected Areas		<u></u>		

Appendix A: Antarctic Specially Protected Area prior assessment template1

Proponents should only complete those sections of the template that they consider relevant to the assessment they have completed.

1	Name of potential Antarctic Specially Protected Area (ASPA):							
2	Proponent(s) of potential ASPA:							
L								
3	Location and approximate co-ordinates	of potential ASPA	:					
4	Is the potential ASPA within an existing Antarctic Specially Managed Area (ASMA)?							
4	is the potential ASPA within an existing	Antarctic specially	y ivianageu Area (As	oiviA):				
5	Approximate size of potential ASPA:							
6	Main physical components contained w	ithin the potentia	I ASPA					
	(e.g. ice-free ground, lakes, ocean, ice si							
		12.0 6						
7	Description of the initial rational for are	a protection for th	he potential ASPA:					
8	Indication of the values to be protected	Indication of the values to be protected within the potential ASPA, in accordance with Annex						
	V Article 3(1):							
	Value	Primary value	Secondary value	Not	applicable			
	Environmental values							
	Scientific values							
	Historic values							
	Aesthetic values							
	Wilderness values							
	Combination of values							
	Ongoing or planned scientific activities							
9	Further description of values to be protected							
10	The following characteristics are contained within the potential ASPA: (Yes/No)							
(a)	areas kept inviolate from human interference so that future comparisons may be							
	possible with localities that have been affected by human activities							
(b)	representative examples of major terrestrial, including glacial and aquatic,							
	ecosystems and marine ecosystems							
(c)	areas with important or unusual assemblages of species, including major							
	colonies of breeding native birds or mammals							
(d)	the type locality or only known habitat of any species							
(e)	areas of particular interest to ongoing or planned scientific research							

Appendix A: **Checklist** of questions to define precisely what are the values to be protected

First time that the CEP hears about your proposal and needs to make an opinion about whether the site deserves to become an ASPA

To **communicate** to the other CEP members, as they do not know the area that you propose as ASPA.

Think of an annex with **pictures**!



WP 42

ENG

Agenda Item: CEP 9e
Presented by: Belgium
Original: English
Submitted: 07/04/2017

Prior assessment of a proposed Antarctic Specially Protected Area (ASPA) in the Sør Rondane Mountains

1	Name of proposed Antarctic Specially Pro	tected Area (ASF	'A):	I				
	Eastern Ser, Rondane, Mountains							
2	Proponent(s) of proposed ASPA:							
	BELGIUM							
3	Location and approximate co-ordinates of proposed ASPA:							
	Zone 71°50'-72°S 22°50'-23°50'E, includ			Nunatak range				
	of Pinguinane Nunataks. Perlebandet rang							
	ASPA includes several distinct ice-free sit	es, but the icy sur	faces separating the	em may not be				
	included (Fig. 1)							
4	Is the proposed ASPA within an existing Antarctic Specially Managed Area (ASMA)?							
	No							
5	Approximate size of proposed ASPA:							
	The ASPA includes several separated ice-free areas, and the sum of their sizes is about ~20-21 km²							
5	Main physical components contained with	in the proposed A	SPA					
	(e.g. ice-free ground, lakes, ocean, ice she							
	Nunataks and rocky outcrops, mountain re							
1	Description of the initial rational for area							
	In the ACBR 6 of Dranning Maud Land, o							
	designated, a coastal one in the Schirmac		_					
	one for the nunatak Syarthamaren (ASPA	142, Mühlig-Hofi	nannfiella). Altoge	ther, these 2				
ASPA represent an area of less than 11 km ² . These two ASPA have different goals, being a								
			retreating glacier or a very large nesting area for petrels, respectively. Therefore, no					
	retreating glacier or a very large nesting of	area for petrels, r	espectively. Therefo	re, none of them				
		area for petrels, r	espectively. Therefo	re, none of them				
	retreating glacier or a very large nesting of	area for petrels, r mountainous hab	espectively. Therefo itats (above 1000 m	re, none of them				
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Reaction of CEP to the presentation of the Prior Assessment (WP42) at CEP XX (Beijing, 2017)

"The Committee agreed that the **environmental and scientific values** found at the Sør Rondane Mountains site, including generally poorly studied organisms, merited further consideration for potential designation as an ASPA enhancing the representation of ASPAs in ACBR 6.

It was also noted that information provided to ATCM XL indicated a **potential increase in traffic in the area** in the future, which could underpin the need to protect pristine areas in this region.

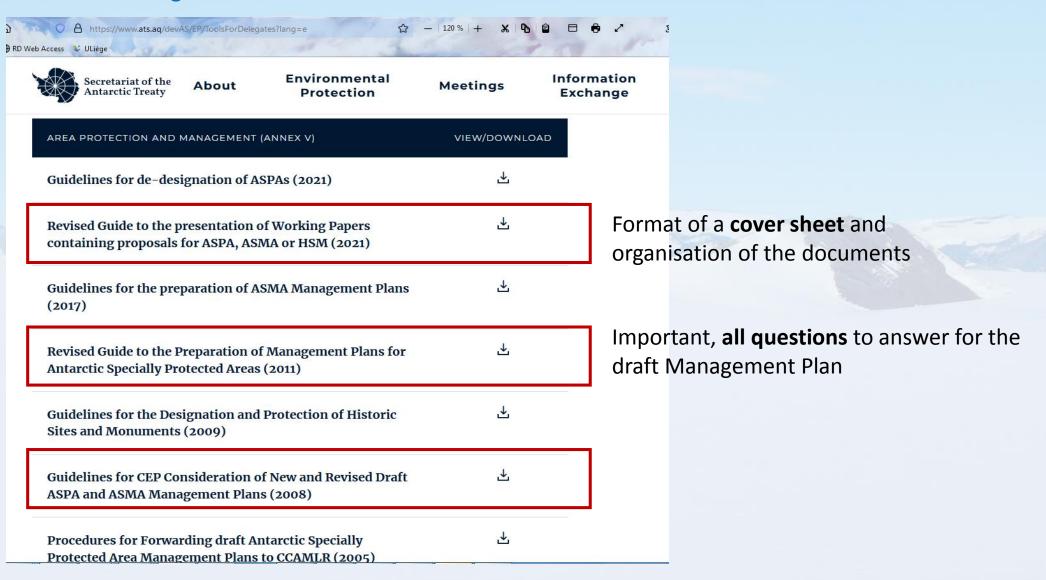
The Committee welcomed Belgium's intention to further consider the **development of a draft management plan** for the area, and noted that several Members had expressed an interest to contribute to the work. It encouraged other interested Members and Observers to work with Belgium in the intersessional period"

Final report ATCM40

+ reactions, questions, etc from other CEP members that we answered the next year with an Information Paper

(2) Draft Management Plan presented at CEP

Tools for delegates https://www.ats.aq/devAS/EP/ToolsForDelegates?lang=e



(2) Draft Management Plan presented at CEP

Revised guide: Checklist of items to define, what is permitted, etc

Format of Management Plans for ASPAs	
Guidance for the content of Management Plans	
Introduction 4	
1. Description of values to be protected	
2. Aims and objectives	
3. Management activities	
4. Period of designation	
5. Maps	
6. Description of the Area	
6(i) Geographical co-ordinates, boundary markers and natural features	
6(ii) Access to the area	
6(iii) Location of structures within and adjacent to the Area	
6(iv) Location of other protected areas in the vicinity	
6(v) Special zones within the Area	
7. Terms and conditions for entry permits	
7(i) General permit conditions	
7(ii) Access to, and movement within or over, the Area	
7(iii) Activities which may be conducted in the Area	
7(iv) Installation, modification, or removal of structures	
7(v) Location of field camps	
7(vi) Restrictions on materials and organisms which may be brought into the Area	
7(vii) Taking of, or harmful interference with, native flora and fauna	
7(viii) The collection or removal of materials not brought into the Area by the permit holder	
7(ix) Disposal of waste	
7(x) Measures that may be necessary to continue to meet the aims of the Management Plan 11	
7(xi) Requirements for reports	
Approval process for ASPA Management Plans	
Preparing the draft Management Plan	
Appendix 1. Guidance notes for producing maps for inclusion in Management Plans	

For drafting the Management Plan

For many practical questions, need to discuss with colleagues, operators, etc.

Pay attention to **misunderstandings**, as people may think that it is not possible anymore to enter into an ASPA, whereas it is still possible when a specific permit is given (but there are conditions set in the Management Plan)

Pay attention to **fears** of others that their research or operations might be negatively impacted

Need **good maps**, to define boundaries and other internal characteristics like presence of structures, paths, etc

In conclusion

If you think that your field site would deserve the additional protection of an ASPA designation, and you are interested to practice the link between Science and Policy, discuss with your colleagues, and contact your National SCAR or CEP representatives

Contact the ANT-ICON steering committee



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Thanks to:

- François André, Stéphanie Langerock, Nils Vanstappen (Ministry of Health, Food chain safety and Environment, also CEP delegates)
- Koen Verheyen, Chris Vanden Bilcke, Christian de Lannoy (Ministry of Foreign Affairs)
- Maaike Vancauwenberghe, Jean-François Mayence (Belgian Science Policy Office)
- Belgian and foreign colleagues involved in research and logistics in the Sør Rondane Mountains
- The 'unsung' heros of Antarctica: microbial communities!





Thanks for your attention!

