

**MINUTES:
SCANNET INTERNAL
MEETING**

*Copenhagen, Denmark
17-18 June 2002*



Danish Polar Centre in Copenhagen

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1. Introductory aspects

SCANNET was formally inaugurated in February 2001 and has now been up and running for almost 1 ½ years. During this period, the consortium partners have met three times, once at Abisko in Swedish Lapland, once at Ny Ålesund Svalbard and then in the Faroe Islands. Our next scheduled meeting will be held in Iceland, but since it was not going to be held until October we found it useful to have an unscheduled interim internal meeting between our first (Faroe Islands) and our second annual SCANNET meeting (Iceland).

The reasons for having this meeting were to:

- Review progress and any problems
- Look at any developments within the WP
- Discuss financial matters
- Look at new networking activities
- Look at new interactions with users particularly within EU framework 6
- Discuss continuation of SCANNET
- Discuss the content of the meeting in Iceland, particularly the user involvement

The Danish Polar Centre in Copenhagen hosted this internal meeting and we would like to thank our local organiser who did a great job. Also, there was an excellent attendance at this optimal meeting and we would like to thank all the partners for their enthusiastic participation.

2. Work Package Developments

2.1 WP 2 - Field sites baseline information

Annika Pettersson-Björström

The web site is fully developed now, however there is still some missing information that needs to be obtained from the different Stations. Both metadata and picture captions are missing. Annika has started to develop the database. She presented a form that could be used when providing the data to the database. It was decided that we should use the existing format of the data when providing data to the database and clearly specify the file size. We will not have any restrictions regarding the file size. All the WP leaders should identify what data they think they will provide to the database.

What data should we keep on the web and what should stay with the owner?

- *Metadata*, should be on the web
- *Data* (detailed data) should stay with the owner, as long as we have a good description of the data set on the web. When it is possible, for example with the owners permission, we can of course put data on the web.
- *Integrated data*, anyone using data is encouraged to work with the owner to ensure correct interpretation and to offer co-authorship where appropriate. After publication this should be published on the web
- *Data summaries*, arising from the WPs should be on the web, but after publication where appropriate.
- *Regional Synthesises* should be on the web.

2.2 WP 3 - Regional Climate Change Scenarios

Nils Roar Saelthun

WP 3 has produced a draft scenario report for the SCANNET region. In this draft the existing scenarios for the region have been compiled. All the data are now in place, but user requirements need to be determined before the final output will be delivered:

- What parameters should be used? A list of suggested parameters will be sent out among the SCANNET members by Margareta
- Which time slices? Use the same time slices as ACIA, i.e. 2020, 2050 and 2080 (decision made at the meeting).
- What time resolution?
- What spatial coverage? Statistical downscaling at each site?!
- Ways forward: Distribute list of parameters among the SCANNET group. Jack and Nils Roar will discuss the way forward
- Which scenarios should be on the web?

Thresholds and extreme events need further consideration when using the scenarios since this is something that is underrepresented in general and in ACIA.

2.3 WP 4 - Reviewing Land Use and Society Interactions

Neil Bayfield

This work package involves the stakeholders by using a decision modelling approach to identify a broad potential range of topics that is then identified as important or not important by the stakeholders. WP 4 has held 4 workshops, two in the Cairngorms, one in Abisko and one in the Faroe Islands. The protocols used for the workshops have been tested and improved as a result of the comments received from the stakeholders at the workshops. The stakeholders have now a clearer idea what they should do and why they are scoring the way they do.

Four additional workshops have been planned in the Faroe Islands, Iceland, Abisko and finally in Kevo. For these upcoming workshops the different host sites need to identify their key stakeholders which may result in different stakeholders for the different sites.

The sites that will host a workshop need to:

- identify an area that the stakeholders can use as a reference
- identify approximately 15 stakeholders to join the workshop
- summarise key environmental patterns of the area for the stakeholders (general notes), which will be distributed to the stakeholders before the workshop so they will have some background information.
- translate the form (necessary in some cases)
- set aside two days for the workshop (one day to go through with the hosts and one day for the stakeholders)

2.4 WP 5 -Presentation of more accessible data on climatic variability

Jack Kohler and Ola Brandt

Jack and Ola have received climate data from all the nine SCANNET sites. The data varies between the sites in both the length of the data sets and the parameters that have been measured. From all the sites air temperatures and precipitation have been obtained and these two parameters will be central to Jack and Ola's further work.

WP 5 will generate usual averages (mean annual temperatures for the different stations etc.) but also derived parameters. They will generate a model of snow pack by using the precipitation and air temperature data from the different sites. They are also exploring other derived parameters:

- *lake ice thickness*, where for example you can predict which year is likely to have thick ice layers
- *ground temperature* which is a fairly simple approach
- *water content* in the unsaturated zone
- “*zerocrossing*” (cumulative frequency of temperatures above zero)

The final data will be presented in plots and tables, for monthly and annual values but particular thresholds will also be identified.

2.5 WP 6 Standardisation of protocols: Spatial and temporal variation of biodiversity

Seppo Neuvonen

WP 6 will deliver results mostly at the species level, but some parts will be at habitat level. Seppo has started to collect data from the SCANNET sites and has compiled basic information from the different sites, which will be sent to all sites to be completed.

A compilation that will show the habitats (i.e. the ground cover within for example a 15 km radius around the field site) around the nine sites will be made. The land cover will be divided into seven broad categories: 1) sea 2) lakes 3) glaciers 4) land 4a) Above treeline 4b) Forest woodland 4c) Bogs & mires. Vegetation maps and elevation information (DEM) should be made available were possible for sites and local areas, and will be combined for presentation on the website.

Seppo will concentrate on the checklist part in the table below, since when looking towards the right (in the table) we move into species performance (WP 7).

Species level	Check lists	Atlas work	“Permanent plots”	Rare/vulnerable Species
Mammals	X			
Birds	X	X		
Freshwater fish	X			
Insects				
- <i>macrolepidoptera</i>	X	X (?)	o	
- <i>carabids</i>	X			
Vascular plants	X	X	X	
Mosses	X		?	
Lichens	X		?	

2.6 WP 7 - Reviewing species performance and phenology

Toke Høye

Toke has been compiling data both within and outside SCANNET. Toke has gathered data from Kilpisjärvi, Abisko and Zackenberg but he still lacks input from the other Stations. He has also compiled information from outside the SCANNET Stations in Iceland, in Greenland and from Sweden and has at this stage a quite comprehensive meta-database even though it is just a start. Apart from compiling metadata about species performance and phenology he also has contact with other networks dealing with phenology, for example the EU financed EPN and POSITIVE, public monitoring projects PHENOLOGY and Plant watch.

The potential of WP 7 is to:

- Compile a meta database to get a regional overview for the SCANNET region
- Integrate Arctic research in the area
- Link with other networks
- Look at climate and species responses (range shifts, timing of phenological events)

At the moment the constraints for WP 7 are the lack of data from the SCANNET sites. Next step is therefore to have the remaining questionnaires delivered with data for the SCANNET sites but also with data from outside the SCANNET sites, i.e. neighbouring sites.

The output from WP 7 should be useful as guidance for EEA and CAFF when they shall decide what they will monitor in the future.

WP 6 and 7 must decide which is going to document rare/vulnerable species.

2.7 WP 1, 8 - Network administration and Co-ordination, Station Managers Forum

Margareta Johansson and Terry Callaghan

Since the last meeting in the Faroe Islands, much time has been dedicated to the Annual report that was delivered to Brussels by the end of March according to the contract. A letter that was sent from our financial officer Ann Charlotte Wilhelmsson describing our financial situation was distributed at the meeting. Although we still lack some answers from Brussels we can assume that the report has been approved. The money is about to be transferred to us (the coordinator) who will then transfer it to the different contractors and the one member.

We have sent out the first announcement for our upcoming meeting in Iceland among the SCANNET members and it will soon be further distributed to our users that will be invited to the meeting.

3. New “to do lists”

3.1 WP 2 - Field sites baseline information

What we will do next:

- Check if measurements from each site on snow depth are within the WP's scope
- Send table (metadata, web-related info received from field sites) to all sites
- Test Reference web poster with existing bibliography databases

What we need from you:

- Remaining info for web page and metadata. Site descriptions (see table below)
- Short description from managers about WP
- Signatures for publication of contact details on web
- Send metadata in format agreed at Ny Ålesund
- Decide on format of metadata that will come together with the datafiles

Table: The existing information on the website, blank space is what is lacking.

	Images	Site desc	Logos	Bibliography	Maps	Meta data	Signatures
Abisko (KVA)	x	x	X	x	x	x	1
Banchory (NERC)	x		X	x	x	\ *	2
Dovre (NIVA)							3
Kevo (U.TURKU)	x	x	x **	x			4
Kilpisjärvi (UHEL.KILPI)	x	x	x	x		x	5
Litla-Skard (NATTFS)	x	X	x ****	x	x	x	6
Ny-Ålesund (NP)	x	X	X	x	x	\ ***	7
Somfelli (MNH)	x						8
Zackenbergl (DPC)	x	X	X	x	x	\ *****	9

* Only received metadata about monitoring

** Kevo Subarctic Research Institute does not have its own logo

*** Only projectlist

**** A logo does not exist for LS

***** Something strange with the last section monitoring activity and existing databases

Signatures have been received from most of the people at the sites.

3.2 WP 3 - Regional Climate Change Scenarios

What we will do next:

- Comment on the parameter list
- Discuss and settle need for time series with WP 5
- Finalise scenario report – prepare web page contributions
- Contact GRID Arendal for possible cooperation
- Sort out problems with Kongsvold
- Supply WP 2 with more site information on Dovre
- Assist WP 7 with contacts at NINA (on monitoring)

What we need from you:

- List of parameters for the scenarios

3.3 WP 4 - Reviewing Land Use and Society Interaction

What we will do next:

- Circulate final protocols (used for the workshops)
- Hold 4 more workshops
 - o Faroes July 2002?
 - o Iceland October 2002
 - o Abisko November 2002
 - o Kevo April 2003
- Prepare a paper (on approach Autumn 2002)
- Send out results from the Cairngorms workshop

- Continue working with the phenological camera work, i.e. continue to do the camera observations and continue to work on the manual.
- Present conclusions from the phenological measurements at the meeting in Iceland.

What we need from you:

- Local organisers for the workshops to identify the stakeholders for WP 4 and help with the organisation for the workshops.

3.4 WP 5 - Presentation of more accessible data on climatic variability

What we will do next:

- Work on Ny Ålesund data
- Start filling in gaps in meteorological records
- Make and circulate a list of meteorological statistics or derived parameters that we will generate
- Start calculating appropriate statistics

What we need from you:

- Tell us which parameter we may have overlooked
- Nils Roar: send us the climate model outputs
- Neil: Send us the climate data from the nearby station and previous years (Cairngorms, Banchory)

3.5 WP 6 - Standardisation of protocols: Spatial and temporal variation of biodiversity

What we will do next:

- Send WP 7 forms to Toke
- Send the missing meteorological data to Jack
- Work with Annika on the figure captions
- Suggest Climate parameters for the climate scenarios
- Send map of KEVO (and remaining metadata if something is missing) to Annika
- Give suggestions of people that could be invited for the meeting in Iceland
- Continue with check lists for selected taxa
- After preliminary check lists are ready, they will be sent to experts associated with SCANNET Stations for checking and comments
- Send info to the newsletter

What we need from you:

- Replies on request for missing data
- Comments on the “preliminary check lists” when they are ready

3.6 WP 7- Reviewing species performance and phenology

What we will do next:

- Contact the data managers
- Discuss format of meta data presentation with Annika
- Formulate “gray zone” relating to permission to publish information at different stages of processing on the web
- Deliver power point slides for www
- Comment on the web page
- Send back meta data form to Abisko for completion
- Inform on relevant participants for Iceland meeting
- Look at the figure caption and discuss with Annika
- Collaborate with Terry on the camera application
- Give input to the newsletter

What we need from you:

- Info/metadata from KEVO, CAINGORMS, KONGSVOLD, NY ÅLESUND, SORNFELLI
- Information from Sites outside the SCANNET network

3.7 WP 1, 8 - Network administration and Co-ordination, Station Managers Forum

What we will do next:

- Distribute list of parameters for the climate scenarios
- Compile a list of people to invite for Reykjavik and contact the organisations (for example IPS in Copenhagen)
- Prepare agenda for Reykjavik meeting
- Decide with Neil when the workshop should be held in Abisko
- Work with digital camera application
- Start to work on a new poster and circulate ideas for comments
- Distribute a list with FP 6 proposals and describe whether they are a network or a research programme and if it is interesting for separate sites as well as SCANNET as a whole.
- Contact the EU in connection to FP 6 to gain advice on Arctic interests and potential collaborators
- Get more info on precipitation network
- Check Seppo's checklist when it arrives
- Produce Newsletter number 3

What we need from you:

- Input to Newsletter (1 Aug), deadline 24 July
- Send suggestion who to invite for Iceland meeting (deadline 25 of June)
- Help to complete FP 6 list
- Input to new poster (Graphs etc)

4. User interaction

Bill Heal

It is of great importance for the users that we can function as a network as a whole. Our main users are identified to be CAFF (Conservation of Arctic Flora and Fauna), AMAP (Arctic Monitoring and Assessment Programme), EEA (European Environmental Agency) and IPS (Indigenous People Secretariat, in Copenhagen). SCANNET will participate in an EEA-meeting in Copenhagen in September.

Today our main link to our users is our web site, where the users can obtain information about the different research stations, the monitoring being carried out there etc. At the moment we have interactions with our main users named above, that are working reasonably well, and we have good interactions with our local users via WP 4. However, we do not have a user interaction with the larger organisations, such as the forestry industry. It was therefore discussed how SCANNET could reach out to our users. Ideas that were suggested were to:

- Consider establishing a monitoring programme that would involve the local communities
- Write short summaries of our environmental understanding in the SCANNET region to publish on the web for the larger organisations and our other users (one challenge will be to write these brief summaries, we might be able to use page 42 in the newly published "Tema rapport" from DMU as a reference and try to write the summary in a similar way)
- Write a half page article for WWF Bulletin
- Reach out to our users both via the press and also via our web page
- Use the individual Stations' existing networks to reach out to the local communities
- Think about drafting a new brochure and poster for our users

On the regional and global scale EU, GTOS, UNEP, UNESCO and ILTER are important users. SCANNET can be important for GTOS by validating their remote sensing data. SCANNET could become the Arctic part of ALTAR which is being developed as a comprehensive European LTER project.

Our next big event that will involve our users is SCANNET's second annual meeting that will be held in Iceland in October 17-19. For this meeting we will invite representatives from:

- CAFF
- AMAP
- GRID ARENDAL
- EEA
- ENVINET
- ICP-IM
- IPS
- EU
- GTOS
- Nordic Council for Ministers
- Icelandic National Organisations

5. Other developments within SCANNET

5.1 Digital Cameras

Morten Rasch

At our last meeting in Torshavn, the Faroe Islands, it was decided that SCANNET should investigate the possibilities of starting a network of automatic digital cameras that could monitor snow cover at all the SCANNET sites in a coordinated way. Morten Rasch (Danish Polar Centre) and Jørgen Hinkler have made a draft application for the digital camera network within SCANNET. The draft application describes the camera and the use of the camera and also the financial support needed to start the network.

Important issues raised by Morten and then discussed during the meeting were:

1) Who will participate in the application? All the SCANNET sites will participate in the application. The application will come from the SCANNET group rather than an individual Station.

2) Who will be PI? Jørgen Hinkler volunteered to take a lead on the educational part, and Morten Rasch and Knud Falk at DPC would take care of the rest.

3) Where do we apply? The application will be sent to Lars Otto Reiersen at AMAP. However, Bill Heal will contact CAFF and maybe we will send a joint application to both AMAP and CAFF. We will get back to this issue after Bill has contacted CAFF since we will then know how to proceed.

4) What do we apply for?

- Camera for each of the stations
- Educational course
- Software
- Overheads
- Travel money for trips to 3-4 field stations
- Money for the developmental process

5) When do we apply? There is no final deadline for this proposal since we are going to send the application to AMAP. They will deal with our application when they receive it.

6) What will happen with the output from the network? The data should go into the SCANNET database as freely available data from the SCANNET network.

5.2 SCANNET Phenology Camera Trials

Neil Bayfield

Can the same remote cameras that are being used for snow monitoring also be used for phenological measurements? Today there are two automatic cameras located at 2 sites in the Cairngorms area, Scotland, one high altitude and one low altitude site. The automatic digital cameras take weekly photographs from the two areas. In order to evaluate the results from the digital cameras, manual photographs are taken and the phenology for all species at each site are being recorded weekly. A phenological protocol has been developed for each species at each site in order to determine the definitions of changes.

During the period that the automatic digital cameras have been running, two problems with the photographs have been identified: 1) There can be huge differences in the light conditions from one week to another which makes it very difficult to distinguish biological changes. 2) It is fairly difficult and time consuming to edit the pictures with the different light conditions in an editing programme afterwards. Due to the two problems encountered it is at the moment difficult to sort out the changes.

A recommendation was made that the SCANNET group should initiate a manual recording phenology network, rather than a digital camera monitoring phenology network at this stage since the digital camera monitoring have not been fully tested. The Cairngorms site will continue their measurements throughout the summer and will then give the SCANNET group a full evaluation of the method at the meeting in Iceland.

5.3 General discussions about the application for the Automatic Digital Camera Network within SCANNET

At the moment there are some sites within the SCANNET network that already have Automatic digital cameras. Zackenberg have 4 cameras (3 for snow monitoring and one for NDVI) that have been up and running for some years now. Banchory has three cameras that are similar to the ones that are used at Zackenberg and the measurements were initiated this spring (1 for snow monitoring and two for phenological monitoring). Abisko has bought two digital cameras that are identical with the ones that are used at Zackenberg, but they are not yet operational. At the Faroe Islands the snow cover is being monitored, but it is monitored by two web cameras which is not really the same as the digital cameras that will be used within the Automatic Digital Camera network. The remaining five stations do not have a digital camera at the moment.

The operational parameters that could be measured fairly easy from the beginning (when establishing the Automatic Digital Camera Network) were identified. It was decided that we should start with the operational parameter when establishing the network and then once the network is up and running we should continue the development with the “developmental” parameters which were also identified (see below).

Operational:

Snow cover at the landscape level

Developmental:

Snow depth (site resolution), Multi spectral, NDVI, Phenology, Snow water equivalent, Snow cover versus temperatures, Online snow cover data from the SCANNET sites.

It was suggested that Annika should be involved at an early stage with the digital camera output that is going on the web page.

The next steps will be to:

- Continue to work with the application (Terry and Morten)
- Contact CAFF (Bill)
- Decide whether this will be a joint application to CAFF and AMAP, or just an application to AMAP.

5.4 Precipitation Network

Terry Callaghan and Margareta Johansson

Jeff Welker (USA) sent a proposal to Terry requesting participation of SCANNET sites in a precipitation network called “Climate controls on the amounts and isotopic (δ^{18} & δD) geochemistry of precipitation throughout the Pan Arctic: A coordinated network to address modern patterns, processes, and climate reconstruction”. The aims of this network are to:

- 1) Establish an internationally coordinated precipitation network enlisting land and ocean based sampling stations
- 2) Integrate, synthesise, rescue and reconstruct precipitation amounts and geochemistry data to evaluate how the variations in the Arctic Oscillation and the North Atlantic Oscillation are manifested in the patterns of precipitation and apply these to re-evaluation of climate proxy records recorded in ice cores and tree-rings
- 3) Conduct an internationally coordinated study of retrospective climate (past 100 years) using plant growth segments collected throughout the pan arctic based on site and region specific modern precipitation –climate relationships
- 4) Provide a precipitation database that would contribute to the overall efforts of CHAMP (Arctic Community-Wide Hydrological Analysis and Monitoring Program), ASOF (Arctic/Sub-arctic Ocean Fluxes) and SEARCH (Study of Environmental Arctic change)

By combining both a land- and a sea-based collection programme they aim to establish a complete precipitation network involving international colleagues and existing national networks.

The way forward for SCANNET is to find out what is required from us, i.e. the frequency of sampling and the efforts required (Terry and Margareta) and then make a decision whether we are interested to participate in this network or not.

6. EU Framework 6 – Applications

Terry Callaghan

Applications for the EU 6th Framework, that are of interest for SCANNET and also for the individual sites within SCANNET were collated at this meeting to ensure that the SCANNET members are aware of the future possibilities (table below).

Acronym	Name	Network/ Research Project?	Co-ordinator	Interest for SCANNET as a group	Interest for the SCANNET sites
ARCNET	Sustainable Development of the European Arctic in a Changing Environment	Network	Dr. Peter Kuhry, Arctic Centre, U. of Lapland, Rovaniemi, FINLAND	Could be of interest to SCANNET	Could be of interest to many SCANNET sites
ACE	Assessment of Environmental Changes in Arctic Europe	Research	Prof. Brian Huntley, Durham University, UK	Of interest for SCANNET Bill and Terry both involved.	Could include boreal forest sites. Extension of DART
DECOVAR	Dynamics of Ecosystem Variability and Biodiversity	Research	Prof. Beierkuhlein, Bayreuth University, Germany	SCANNET is mentioned here, especially Seppo WP 6	Could be of interest to many SCANNET sites
EUCAN	Europe's Forests under Global Change Biodiversity, Functions and Future Trajectories, EOI Submitted by European Canopy Network	Research	Prof. Mitchell Oxford University, UK	SCANNET has not been mentioned here	SCANNET forest sites may be interested and it could provide ideas.
PASSAGE	Parasitic plants and environmental change	Research	Prof Malcolm Press, University of Sheffield UK.	Seppo and WP 6 mentioned	Of potential interest to most sites
TRANSFORM	The responses of northern and mountainous transition forest ecosystems to climate change, and consequences for biodiversity, human interaction and sustainable resource management in Europe	Research	Dr Oddvar Skre, Norway	Kevo and Abisko mentioned, Kilpisjärvi also?	Limited to areas with forest
EXURA	Exploiting and understanding ultraviolet radiation impacts on plants and communities	Research	Dr. Dylan Gwynn Jones, Aberystwyth, UK	Relevant to many sites - also in ENVINET	Zackenbergl, Abisko, Ny Ålesund in particular
ARCBIONET	Arctic Biodiversity Networks (a CAFF project on species networks)	Research	Prof. Aevor Petersen, Institute of Natural History, ICELAND	Species focus complements SCANNET site network. Includes ITEX & community monitoring.	Sites could expand their species observations. Includes ITEX. It needs addition of inverts.
CABNET	Circumpolar Arctic Biodiversity Network	FP5 bid for Infrastructure support.	Prof. Aevor Petersen, Institute of Natural History, ICELAND.	If funded will establish CAFF species networks.*	If funded will provide basis for ARCBIONET*

PACE 21	Permafrost and Climate in the 21 st Century	Network	Prof. Charles Harris, Dept. of Earth Sciences, Cardiff University, UK	This network will be interested in permafrost and active layer monitoring and soil thermal monitoring at all SCANNET sites.	
ALTER	A Long Term Ecological Research – Europe project	Research	Dr Terry Parr, Centre for Ecology & Hydrology, Grange-over-Sands, UK	Major site network for Europe based on US LTER.. SCANNET could provide the Arctic component.	Could be of interest for individual sites as well as for SCANNET as a whole
STEP	Treeline project	Research	Prof A Mutetheis, Munster	Many	Forested sites
SEDIFLUX	Sedimentation source-to sink fluxes in cold environments	Network	Dr A. A Beylich, University of Uppsala, Sweden	This network mentions SCANNET as a project that one of the network participants Hanne H. Christensen is involved in. This network has interest in data management in different fields of geomorphology	
ECOMAN	Environmental Research manipulation experiment	Research	Dr G Taylor, Uni. Of South Hampton, UK	Many	Zackenbergl, Ny Ålesund, Abisko and others
VULCAN	Dynamics of European Shrub lands and heaths	Research	I K Smidt, Forest and Landscape Inst. DK	Few	Abisko
GLORIA-WORLDwide	The world-wide dimension of the Global Observation Research Initiative in Alpine Environments- a contribution to GTOS (This network will be a Europe based world-wide monitoring network assessing implications of climate change for high mountain biodiversity and habitats)	Network	Prof. G. Grabherr, Inst. Of Ecology and Conservation biology, Vienna, Austria	This project does not mention SCANNET but there will be some overlap in mountain monitoring	

BIOCHANGE	Dynamic approaches to conserving biodiversity in a changing world	Research	Mark Rounsevell Université Catholique de Louvain, Belgium	-	-
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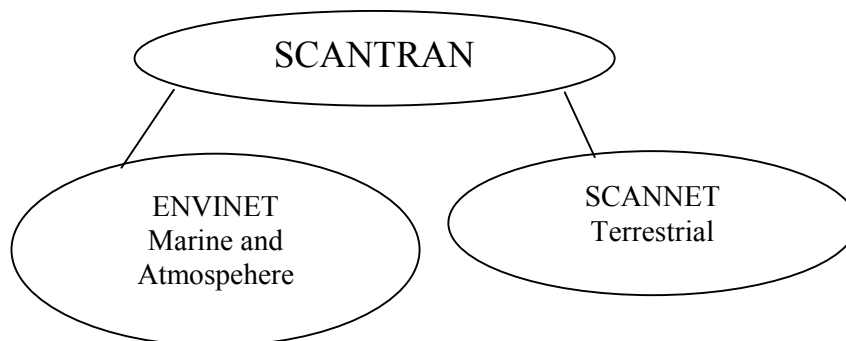
*This project has not been funded by EC

7. Continuation of SCANNET

Do we want SCANNET to continue? The answer to this question from all partners was yes. What are the possibilities in the future for SCANNET? Some of the possibilities are:

- As part of other projects
- Combined with other networks
- Involved with IASC
- Involved with NSN
- New funding specially for SCANNET

It was decided that SCANNET should continue with networking activities and not as a research project since our strength is to provide facilities. It was also mentioned that the secretariat and the fruitful meetings were two important components of SCANNET. It was discussed if SCANNET should seek new funding within or without the EU and some preferred to seek within and some suggested that we should become a unit in the circumpolar IASC network and go for a permanent network with a low budget. Would it be possible to get together Norwegian Polar Institute, Danish Polar Centre, the Swedish Polar Secretariat and ask for funding from the three bodies? Should SCANNET be part of other networks, for example become a part of ENVINET? It was mentioned that the strength of SCANNET is that it is limited to just include the terrestrial field Stations and field Sites and that we should try to keep it that way. One suggestion was to reinvent SCANTRAN as an umbrella organisation within which ENVINET and SCANNET could work side by side.



This first discussion on a continuation of SCANNET was a brainstorming session. However, we did identify some options for the continuation of SCANNET and it was agreed that the discussions should be developed at the meeting in October with the participation of stakeholders.

8. Concluding remarks

The meeting, although not a contractual commitment, was enthusiastically attended and all WPs were represented. There is clearly very good progress and an exciting potential for SCANNET to achieve. The will to continue now provides basis and challenge for both the co-ordination and the participants to pursue.

Appendix 1

Scandinavian / North European Network of Terrestrial Field bases



SCANNET



Internal Meeting
Copenhagen, Denmark, 17-18 June 2002

Programme

	<i>Time</i>	<i>Activity</i>	<i>Place</i>	<i>Name</i>
Monday 17th June	10.30	Meet in reception at the Hotel and we leave together for DPC.	Hotel	
	11.00	Welcome Address to DPC	Danish Polar Centre (DPC)	Hanne Petersen
	11.15	Welcome to the SCANNET meeting	DPC	Terry Callaghan
	11.20	Current development within SCANNET	DPC	Terry Callaghan Margareta Johansson
	11.40	<i>Work package developments constraints and ways forward, min presentation, 15 min discussions, WP 2</i>	DPC	Annika Pettersson-Björström
	12.10	<i>Work package developments WP 3</i>	DPC	Nils Roar Saelthun
	12.40	Guided tour around DPC	DPC	
	13.00	Lunch	DPC	
	14.00	<i>Work package developments WP 4</i>	DPC	Neil Bayfield
	14.30	<i>Work package developments WP 5</i>	DPC	Jack Kohler Ola Brandt
	15.00	<i>Work package developments WP 6</i>	DPC	Seppo Neuvonen
	15.30	<i>Work package developments WP 7</i>	DPC	Toke Thomas Høye
	16.00	Coffee break	DPC	
	16.15	<i>Work package developments WP 1, 8</i>	DPC	Margareta Johansson Terry Callaghan
	16.45	User interaction	DPC	Bill Heal
	18.00	<i>Taxi from DPC till Tivoli</i>		
	19.00	Dinner at Hercegovenia (buffet)	Tivoli	
Tuesday 18th of June	~7.30	Breakfast	At the hotel	
	8.30	Other developments a) Digital Cameras	DPC	Morten Rasch Neil Bayfield
	10.00	b) Precipitation measurements	DPC	Margareta Johansson
	11.00	Coffee break	DPC	
	11.30	c) Centres of excellence d) EC 6 th framework application	DPC	Terry Callaghan Seppo Neuvonen
	13.00	Lunch	Færgetroen	
	14.30	e) Continuation of SCANNET	DPC	Terry Callaghan
	15.00	Coffee break	DPC	
	15.20	Concluding remarks	DPC	
	16.00	Meeting finish		

Appendix 2

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