



EUROPEAN
COMMISSION

Community research



CLIPC First General Assembly

Meeting Report

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1 Introduction

1.1 Objectives

The aims of the meeting are to:

- ensure that the members of the consortium have a shared understanding of the work to be done and of the dependencies between partners;
- review the work-plan and identify areas of concern or new opportunities;
- reach agreement on modes of communication within the consortium;
- agree priorities for the initial 9 months of the project.

The first day will include contributions from a range of invited speakers, days 2 and 3 will focus on details of the project work plan.

1.2 Venue and agenda

Date and time: 9am Tuesday 14th January to midday Thursday 16th January.

Location: St. Mary's University College, Twickenham, London:

<http://www.smuc.ac.uk/conferences/conferences-and-meetings/>

Agenda

Tuesday AM

Coffee and registration: 8:30

Session 1.01: 9:00-10:45: Welcome, outline of meeting objectives, review of the programme of work.

This session will provide a brief overview of the agreed programme of work.

(a) Introduction to venue, meeting and project (Martin Juckes, 60 minutes)

- Introduction to venue
- Outline of meeting
- Introduction to project
- Project administrative issues
- User requirements
- Scientific lead
- Dissemination
- Links to other Copernicus Climate Service projects.

(b) Scientific and technical programme of work (45 minutes)

- The portal, visualisation and service integration (WP3,4) (Peter Thysse and Wim Som de Cerff);
- Access to science data (WP5,6); (Stephen Pascoe, Lars Barring);
- Impacts toolkit (WP7,8): (Rob Swart).

Session 1.02: 11:15-13:00: European programmes and UK perspective (20 minutes each).

- European Commission (Research Executive Agency), Stijn Vermoote;
- European Environment Agency, André Jol;
- European Space Agency, Pierre-Philippe Mathieu;
- Joint Research Centre, Julian Wilson;
- UK Climate Change Committee, Kathryn Humphrey.

Tuesday PM

Session 1.03: 14:00-16:15: Invited speakers from related collaborative projects:

(0) Moved forward from part (b)

- CHARMe, Debbie Clifford;

(a) Guest speakers (15 minutes each):

- IS-ENES2, Sylvie Joussaume;
- EUPORIAS, Carlo Buontempo;
- Impact2C, Elke Keup-Thiel;
- COST action Value, Martin Widmann;

(b) Reports on projects by CLIPC members (10 minutes each)

- ESGF, Stephen Pascoe;
- EURO4M, Lars Barring;
- TopDad, Haase Goosen;
- RAMSES, Jürgen Kropp;
- ISIMIP, Luis Costa.

Coffee 16:15-16:30

Session 1.04: 16:30-17:30: Breakout: Collaborating on common issues.

These 3 breakout sessions will initiate the work of 3 working groups within the project and provide a forum for discussion with the invited speakers

(a) Making the link to the European Environment Agency;

(b) Dealing with uncertainty and data limitations (including validation methods and data structures);

(c) The impact tool-kit themes: ensuring information is transferred smoothly.

Wednesday AM

Session 2.01a: 9:00-9:30: Feedback from breakout session 1.04.

Session 2.01b: 9:30-11:00: Breakout: Parallel sessions on WP5&6, and WP7&8.

Coffee 11:00-11:30

Session 2.02: 11:30-13:00: User requirements.

Lunch 13:00-14:00

Wednesday PM

Session 2.03: 14:00-16:15: Feedback from breakout session 2.01b;
Portal design, integration of data services and toolkit.

Coffee 16:15-16:30

Session 2.04: 16:30-17:30: Dissemination

Thursday AM

Session 3.01: 9:00-10:30: Inter WP dependencies, milestones and deliverables.

Coffee 10:30-11:00

Session 3.02: 11:00-13:00: Review actions, future meetings.

2 Sessions

2.1 Session 1.01: Presenting the project

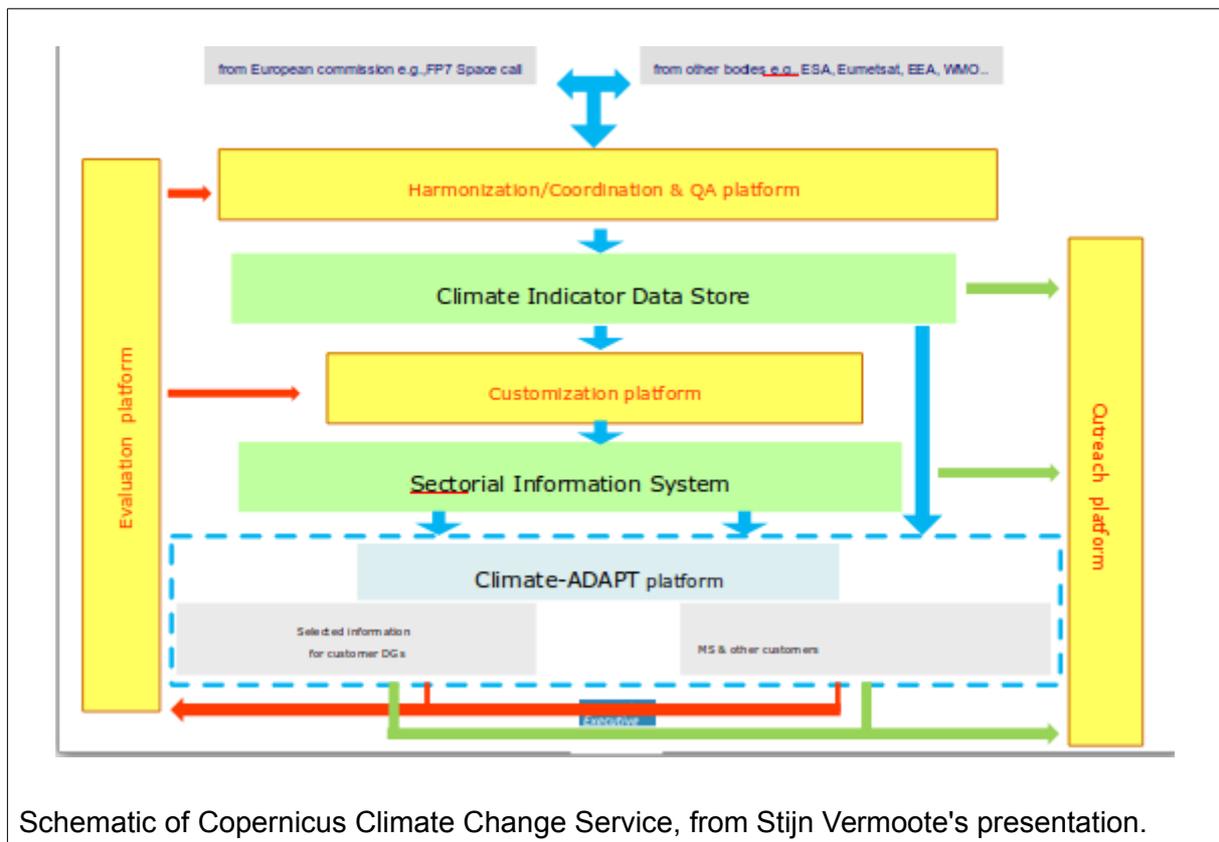
Powerpoint presentation: Introduction (Martin Jukes)

- The presentation covers:
- Venue & dinner
- Outline of meeting
- Introduction to project
- Project administrative issues
- User requirements
- Scientific lead
- Dissemination
- Links to other Copernicus Climate Service projects

2.2 Session 1.02: European programmes and UK perspective

European Commission (Research Executive Agency), Stijn Vermoote:

A review of activities preparing for the Copernicus Climate Change Service in FP7:



Schematic of Copernicus Climate Change Service, from Stijn Vermoote's presentation.

"... towards a GMES Climate change service – preparatory activities.

Topics based on the GMES stakeholder consultations and the Helsinki Climate Service conference in 2011. Actions have been prioritised which are complementary to activities funded by other sources. These are to improve Earth System reanalyses to include the hydrological cycle, a proper coupling between the ocean and the atmosphere, as well as other feedback mechanisms. Issues such as data archiving, integration and access to data through a central clearing house mechanism should be tackled, as well as implementing a gridded approach to impact indicators. The topics proposed in this area support activities leading to the development of initial Climate Change Service elements".

European Environment Agency, André Jol:

European Space Agency, Pierre-Philippe Mathieu:

Joint Research Centre, Julian Wilson:

UK Climate Change Committee, Kathryn Humphrey.

2.3 Session 1.04: Common issue breakout sessions

2.3.1 The link to the European Environment Agency

Several decisions were made during the discussion:

- Key CLIPC people (WP4) are to visit the EEA to discuss the CLIPC tool system and learn about ClimateAdapt, as well as agree practical things to collaborate on, including a joint workshop.
- Discussions will be kept ongoing with the EEA through CLIPC's lifespan.
- At the next all hands meeting/general assembly, more discussion on this topic should be held.
- The EEA's next climate assessment report, due 2016 is a good driver to focus discussions, and CLIPC will be part of the advisory group.

Other key points:

- It was noted that the EEA are only one of our users, and that we will need to consider our other users and their needs when it comes to clarifying our outputs. This will include spatial scales (e.g. EU/transnational as well as national scales). The EEA operate at EU scales but can provide links to national scales.
- CLIPC will need to be a balance of conceptual and practical work. It would also be good to start developing something useful straight away. A suggestion was a method of automating/providing and information bridge for data ingestion for the EEA.
- CLIPC will need to understand Climate Adapt and the vision for Climate Adapt's future as the expectation is that work done by CLIPC will be brought together with Climate Adapt.
- We will need to be clear about which scenarios CLIPC will use, and which specific mitigation questions won't be dealt with.
- In CLIPC whatever climate data is available will be made accessible through the portal, linked to information on how to visualise it and deal with uncertainty. We'll have to be more selective for the toolkit.
- Potential meetings identified to engage with the user community are: EIONet (yearly meeting, end June 2014), Climate Platform Workshops, and European Resilient Cities Open Day.
- Sustainability and creation of a delegated body to transfer the project outputs needs to start being addressed before the last year of the project.
- For the toolkit, an agreed set of indicators (as broad as possible) should be agreed by key stakeholders. The toolkit should also include access to impact data and/or indicators.

- Of the five linked Copernicus projects, the cross-project coordinator will be done by one dedicated coordinator, with a dedicated travel budget.

2.3.2 Dealing with uncertainty and data limitations

Minutes Working group 'data quality and limitations' 14.1.2014

Rename of working group to data quality and limitations (suggestion from last day of the meeting).

Working group participants: Annemarie, Carlo, Elke, Grigory, Kate, Martin J., Martin W., Nils, Pierre-Philippe, Renate, Sylvie

Responsibilities:

- Observations → Kate Willett (metOffice)
- Satellite data → Pierre Philippe Mathieu (ESA)
- Global, regional climate model data. → Grigori Nikulin (SMHI), Renate
- Impact Model data → Nils Hempelmann (CSC)

Establishing of internal mailing list (action for STFC).

Responsible persons should prepare a brief summary about uncertainties in their theme including collection of definitions. (e.g. stations density, kriging processes ...).

Appropriate information should be provided on the portal.

Cooperation with other groups and institutions

ESA, Pierre-Philippe Mathieu

EUPORIAS, Met. Office, Carlo Buontempo

COST action Value, M. Widmann

Definition of uncertainty – principle debate:

Discussion to get an internal valid definition and how to provide it on the portal.

Depending on user (different understanding of uncertainty);

uncertainty = inaccuracy; uncertainty = data and assessment;

distinguish between observation and model data;

target groups for the platform/toolbox? ClipC for Scientific community, EEA, and/or everybody

glossary → keywords to have some 'basis' to talk to users (knowledge base)

portal Climate-Adapt offer different explanations (useful for CLIPC?)

CLIPC Portal should provide recommendations how to deal with uncertainties of data products.

how to visualize different types of uncertainties

Combining downscaling indices including uncertainties

Limitation of data

Open discussion – collection of relevant topics

What can uncertainty be? (Climate Adapt – Portal? Need for user friendly explanations)

What kind of methods are available to handle with uncertainties?

Provenance of Data (additional information: different information for different data types)

Interdisciplinary discussion with live science, medicine, insurance, ... and appropriate communities

Monte Carlo approach to create a representative Ensemble

Distinguish between

- Model uncertainties (assumptions of models = accuracy of models)
- Emission uncertainties (assumption of scenarios)
- Climate uncertainty (internal variability of climate)
- Uncertainties in impact models

("Don't worry about uncertainty in climate models, because impact models have higher uncertainties" is one attitude).

2.3.3 Impact tool-kit themes

Minutes of break-out session on Impact toolkit themes (Session 1.04)

We discussed a wide range of issues that would need to be addressed to effectively provide the information needed for the toolbox.

Existing data covering the 4 toolkit themes of Urban, Rural, Water and biodiversity come from a diverse range of research sectors. We recognised that bringing together data from these different sectors will be challenging.

Aggregated datasets from different sectors will often use different regional averaging.

We will need to decide on common set of reference grids and regions to enable comparison of aggregates.

Compatibility of units will also be an issue.

Metadata standardisation is essential for inter-comparison.

It is unclear which T2 and T3 indicators will be pre-calculated and which calculated on demand within the CLIP-C system.

Calculation of T2 and T3 indicators is cutting edge R&D and therefore will be difficult to do in a fully automated fashion, although software technologies such as Web Processing Service (WPS) can be used to tackle this.

Pre-calculation of indicators is likely to be a more feasible approach in most cases.

Quality control is variable across different sectors and datasets.

We suggest encouraging a feedback loop between Indicator development and quality review.

Can we control minimum requirements or just expose inconsistencies?

Indicator developers have been used to the SRES scenario framework and need guidance on the use of the RPC framework.

Existing indicators contain out of date source data based on SRES scenarios.

Many impact modellers are working on RCP indicators so this problem may diminish during the project.

2.4 Session 2.01: Breakouts on access and toolkit

2.4.1 Data access

Minutes -- Breakout discussion CLIP-C WP 6, 15.01.2014

Minutes taken by Renate Wilcke

Breakout group participants: Lars Barring (SMHI), Rasmus Benestad (Met.no), Debbie Clifford (UREAD), Sylvie Joussaume (IPSL), Elke Keup-Thiel (CSC), Grigory Nikulin (SMHI), Christian Pagé (CERFACS), Renate Wilcke (SMHI)

With additions from plenary meeting and other interactions

Partners' input as interpreted by Lars Barring

Reorganisation of Milestones and deliverables

By request from REA we may need to redistribute/transform Milestones and Deliverables so that there is at least one Deliverable in the first 12 months.

SUGGESTION: Any of the following alternatives: change M24 (SMHI/month 6), change M25 (Met.no/month 12) to a Deliverable.

ACTION: *Lars to discuss with Rasmus.*

First milestone (M24) month 6: First data sets for WP7 and as reference for bias correction

Reanalysis from EURO4M, surface variables on 5.5 km grid should become available in time.

EOBS on ENSEMBLES/CORDEX grid (0.22 degree). EOBS intermediate data on 0.1 degree grid.

Lars will be involved in the WP7 storyline development work to interface data requests from WP7 with what can be delivered from WP6.

ACTION: Check availability of 0.22deg data on ESG? (*Lars to contact KNMI/WP4/WP5*)

ACTION: Availability of 0.1deg? (*Lars to draft a request to CLIP-C coordinator*)

ACTION: Clarify legal issue regarding EOBS used for bias correction and bias corrected products passed on for commercial use. (*Lars to send draft to CLIP-C coordinator*)

Do we need to cut out a domain (Europe) for GCM data?

Yes, as we are doing bias correction and depend on European reference data sets.

What bias correction methods do we intend to use?

There is an R package from Lukas Gudmundsson (qmap).

Make use of inventory set up by COST Action VALUE.

Version of quantile mapping done by Mathieu Vrac at IPSL.

DBS at SMHI.

Quantile mapping at SMHI.

Comparing methods→inter-comparison study (selected models all bias correction methods). Avoid duplication of ongoing work elsewhere (e.g. COST Action VALUE) – instead try to coordinate/collaborate.

ACTION: Create list of methods to use, including references and descriptions. (*Rasmus with input from other partners*)

SUGGESTION: Rasmus suggested a web-interface for users to choose the bias correction method they would like to have been used on the data they request.

Which RCMs to be used?

EURO-CORDEX 0.44 deg and 0.11 deg: ESGF nodes are filling up slowly, already now enough data to start working with.

Data for calculating CCII-T1 indicators (Milestones M24, M25)

Climate scenario data already available at ESG at different resolutions depending on the variables.

EOBS (cf. above) gridded observations, EURO4M reanalysis data of the recent past.

FMI/SYKE has GLOBSNOW, can this be made available in a consistent format, possibly through ESGF.

Remote sensing data available through EURO4M and other sources, interact with WP5 regarding list of available data sources.

UREAD's effort will be focused on years 2 and 3 of the project. Before that only expert advice on available datasets (mainly those available through STFC), and providing input to Deliverable D5.1 in WP5, which is relevant background information for WT6.2 of WP6.

Calculation code for CCII-T1 in development within IS-ENES2, lead by CERFACS/Christian Pagé.

Nils Hempelmann from CSC worked with impact indicators before.

ACTION: Investigate if/how GLOBSNOW can be linked to ESGF. (*WP6-WP5 interaction: FMI in collaboration with partners in WP5 and WP6*)

Uncertainty assessment

A cross-cutting working group on uncertainty (NB now renamed to something else!) is lead by Elke.

There is already on-going work at CSC (HZG) by Daniela Jacob and Susanne Pfeiffer, as well as at Wegener Center (Uni Graz) by Andreas Gobiet.

Talk to them. (*all*)

Follow uncertainty introduced due to selection of bias correction method. I.e. each bias correction method should have a 'name' that is linked to a short description and references → add to metadata → feed to knowledge base in WP3.

Interact with WP5 regarding metadata standards.

Reduced ensemble

We will start by a literature review and discussing methods.

Renate Wilcke (SMHI), Pascale Braconnot (IPSL) are the primary persons involved at this stage.

Julien Boé (CERFACS) is involved in similar work. Contacting him would be useful.

Is (will be) statistical downscaling included?

When statistical downscaled data is ready for ESGF it should be possible to feed into ESGF → initiative within CORDEX → CORDEX-SD (1st workshop Nov 2013 Trieste).

For now only RCMs.

Statistical downscaled data can be added later, a key issue is existence of metadata standards and their implementation.

2.4.2 Toolkit

[Session report missing].

2.5 Session 2.02: User requirements

Notes WP 2 discussion

Annemarie Groot

Outline

Discussion

Who are the users?

How do we interact between the WP's?

1: Workshop M11 or M14: Milestones from other WP into user requirements workshop?

- Toolbox prototype needed for workshop. Combining the milestone and the deliverable, of user requirements. Workshop after demo/prototype.
- Data accessible needs input from user requirements to get the best set of data.
- Early req. from partners (WP7&8), User workshop after first prototype to get best set of data?
- Distinction between desk definition and user prototype.
- Stick to DOW (M14 for workshop), preliminary report in M12 from desk study/telephone conferences.
- Preliminary report in M12 will be beneficial to constructing the portal;
- Background report is good for workshop;
- Other possibilities to get user interaction along the way.

2: Who are the users?

- Should we put in user profiles with more focus on the data-needs?
- Difficult to involve researchers due to valuable time, focus on other more willing groups?
- How do we target the willing groups? Insurance, Hydropower

- Existing contacts find them among the partners
- What is the added value from ClipC
- Gather from other projects: There exists lots of information: Is-enes
- Easier to get information from countries/regions with focus on adaptation with low access
- National portals as users;
- Exclude local users? City level, Farmers, ...
- ClipC is more focused on a European level, comparing cities is more ClipC than decision at city level
- Scale and expertise level as criteria, Public or private, Datasource. Eco-system of users
- Clear focus on the users in documenting of the data
- Portal for everyone will be a portal for no-one;
- Local is not at a European level;
- Matrix of user profiles and products;
- Risk-assessments at national level will drive some needs for indexes of climate impacts.
- Methodology (damage functions ++) is relevant for individual cities.
- Some local users with high skill level might need ClipC data
- Most useful distinction might be along skill and data needs?
- Highly processed data to "raw" data
- Difficult balance between pre-judging and good service
- In the mind of construction, not in the portal
- Link to Copernicus core services?
- Build for the future based on data of today...
- We want to give the best data

Three user groups:

- Boundary groups
- Disaster risk management
- Climate sceptics (Not a target group – at least not under that label: sceptical scientists and members of the public are, of course, very much a target).

Transnational organisations:

- South-east European climate centre
- C3Alps
- Baltic sea regions
- ...
- UNEP-life – broker and user

3: Interaction

Earlier gathered data for user requirements

Input to workshop in M14: Examples, Mockups...

Needs for how the indicators should appear: What is a good indicator

List of users from all partners to WP2

Where do users get their data today => WP10

Use cases of uncertainty that either use or don't use the information.

2.6 Session 2.03: The CLIPC portal

[No minutes from this session].

2.7 Session 2.04: Dissemination

During the Dissemination session, the three phases of dissemination during the project were identified:

- creation of the dissemination plan (year 1),
- raising awareness of the project (year 2),
- dissemination of project results (year 3).

The output classes that will need to be disseminated, namely the user needs, new science, new software tools and data services and products, were also discussed, along with the domains where these will need to be disseminated: the science community, society in general and policy makers.

Suggestions were then canvassed from the project team to fill in a grid identifying for each of the domains and output classes, who should be contacted, how they should be contacted, what the message was, and which partner was responsible for the message. A preliminary version of this grid is placed in the draft dissemination plan.

It was decided that the project logo should be based on the Copernicus logo (logo II.1 in the introductory presentation) with the tag line "Climate Information Portal". MARIS will work on refining the logo.

It was also decided that a common CLIPC Google calendar should be set up to collect information on meetings etc. suitable for dissemination activities [STFC].

A CLIPC standard poster and presentation format will be created in PowerPoint and OpenOffice formats [MARIS].

The CLIPC newsletter will be published every quarter, sent out as a link, with articles on the CLIPC website. The next newsletter is due March 1st 2014, and will feature an item about the kick-off meeting, and an item about Circle 2 (to be written by Rob Swart) [STFC].

A Google form will be set up to capture information about dissemination activities [STFC].

There was discussion about dissemination via social media such as Twitter, Facebook, LinkedIn, Google+ and/or a project blog. It was decided to table these possibilities for future use when the outputs for dissemination are ready.

2.8 Session 3.01: Dependencies etc

The dependencies between work packages were discussed. A list of the key work packages associated with each deliverable was drawn up.

2.9 Session 3.02: Actions, future meetings

Miscellaneous

Rename the Uncertainty WG ==> Quality WG

Future meetings

WPL telco should be held 27th to 31st Jan.

WPL in-person meeting: e.g. Schipol or Hamburg; May/June. To be discussed at WPL telco.

CCI Portal Requirements

Co-ordinator to produce a draft, by 24 Jan.

Managing Actions and document sharing

Actions will be entered in an annex to the meeting report in Author-e; add tags assigning actions to individuals. Action will be closed when individual inserts a completion note in the annex.

Documents can be shared under password protection in Author-e. Author-e will also be used to create a repository of all meeting documents.

For sharing of temporary documents or early drafts a more flexible and less structured system may be used, such as google docs, drop-box or evernote, at the authors' discretion.

Email lists

clipc@lists.enes.org
clipcpo (project office);
clipcadmin (administrative issues);
clipcportal (WP3,4)
clipcaccess (WP5,6)
clipctoolkit (WP7,8)
clipcoutreach (WP2,9,10)

For the 5 lists (clipcadmn to clipcoutreach) everyone will be on the list, with default settings such that they can send to the list and view the list archive. To receive emails log into the list interface and change settings. Details on use of email lists will be provided in Deliverable 1.1.

Create an additional list for the Data Value and Limitations WG.

Newsletter, March 1st

For distribution, inter alia, at CIRCLE 2 and EGU meetings.

Need paragraph about workshop at CIRCLE 2 meeting.

Links to other collaborative projects

For some key projects, individuals were nominated to be the main point of contact:

Project

FP7 IS-ENES2
FP7 EUPORIAS
FP7 CHARMe
COST Action Value
FP7 SPECS

3 Attendance and costs

3.1 Attendance

Adeline Cauchy
Annemarie Groot
Bryan Lawrence, STFC
Luis Costa
Charlotte Pascoe
Christian Pagé
Debbie Clifford
Dagmar Bley
Jacob, Daniela
Dick Schaap
Ghislain Dubois
Keup-Thiel, Elke
Torgny Faxen
Garin Smith
Grigory Nikulin
Hasse Goosen
Hans Olav Hygen

Jaume Fons-Esteve
Johannes Lückenkötter
Jouni Pulliainen
Kate Willett
Kristin Böttcher
Lars Barring
Mark Elkington
Martin Juckes
Michael Kolax
Mikael Hildén
Nils Hempelmann
Peter Thijsse
Maarten Plieger
Rasmus Benestad
Renate Wilcke
Rob Swart
Emilia Sanchez-Gomez

Sarah Callaghan
Wim Som de Cerff
Sébastien Villaume
Stefan Fronzek
Stefan Greiving
Sylvie JOUSSAUME
Frank Toussaint

Pierre-Philippe Mathieu, European Space Agency
Carlo Buontempo, UK Met Office
Martin Widmann, Uni. Birmingham
Kathryn Humphrey, Climate Change Committee
Julian Wilson, Joint Research Centre
Stijn Vermoote, EC Research Executive Agency
André Jol, European Environment Agency
Chris Merchant, Uni. Reading and ESA CCI SST project.
Baoudouin Raout, ECMWF.

3.2 Costs

Overview

The venue was hired from Strawberry Hill Conferencing. They provided (1) two rooms, screens, projectors, (2) a buffet lunch on the last day and (3) water, tea, coffee and biscuits during the meeting. Delegates took lunch in the college refectory at their own costs on the first two days.

Two members of the scientific advisory board attended, and there were two additional invited speakers.

Venue

Item	Cost (GBP)
Room and equipment hire	£4750.00
Lunch on last day	£202.50
Tea, coffee and snacks	£787.15
Total	£5739.65

4 Summary

The First General assembly brought together representatives from a range of key organisations, and provided a forum for initial discussions within the consortium. No major problems with the project Description of Work were identified. The discussions in some areas, particularly with regard to the toolbox design, remained fairly open – as expected. The consortium brings together partners from a wide range of organisations, and this meeting created a basis for ongoing work.

5 Post meeting actions

Co-ordinator obligations

Payment of all bills associated with the venue:

Payment of expenses for invited speakers:

Creating a meeting report:

Post presentations on www.clipc.eu

Email lists

Add all members of "clipc" list to other lists, with default settings such that they can read the archive but will not receive emails;

Send instructions on how to change settings;

Give WP Leaders an administrative role on the appropriate email lists;

Future meetings

Organise 2nd General Assembly, summer 2015.

A.ga1.2.1	Organise 2nd General Assembly	Transferred to period 1 report, initial tasks assigned to PIK and TUDO	In process
A.ga1.2.2	Organise web conference to discuss financial reporting requirements with beneficiaries	Transferred to period 1 report, assigned to STFC	In process
A.ga1.2.3	Organise an interim reporting session in Brussels, end of September to October 2014.		