

EUPORIAS



ECOMS: European Climate Observations, Modelling and Services

Chris Hewitt, UK Met Office

ECOMS Kick-Off Meeting, Barcelona, 6-9th November 2012





Coordination of European climate service activities

- What is already happening?
- What is the involvement of our community?
- What needs doing and what will happen?



What is already happening?

International coordination activities

A lot!

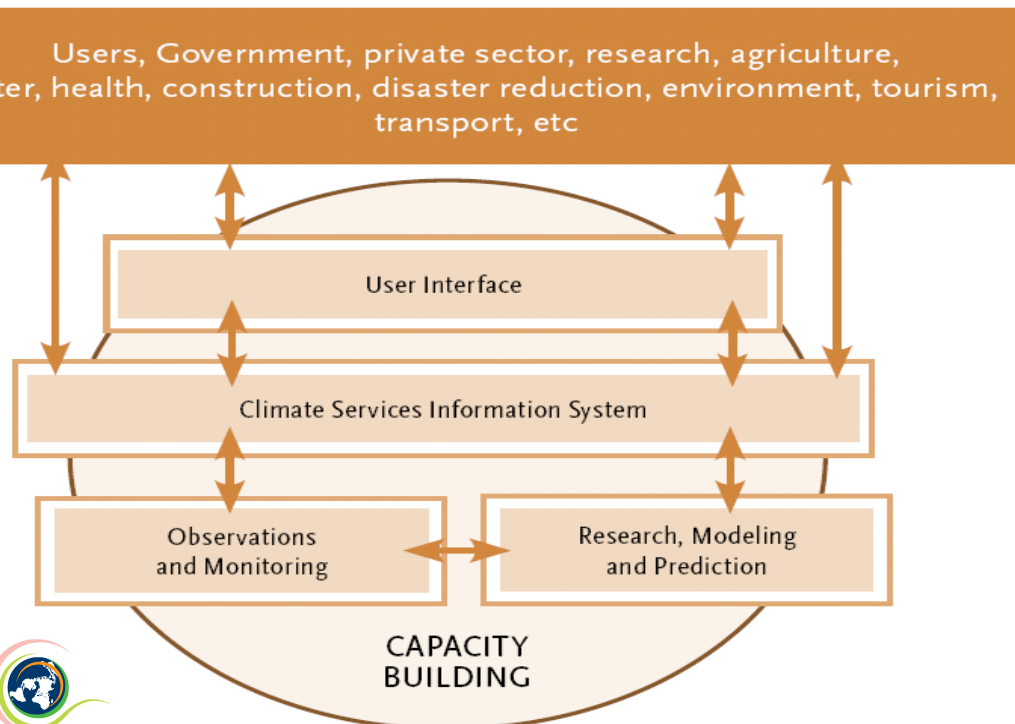
- Global Framework for Climate Services (GFCS)
- International Climate Services Partnership (CSP)
- European Climate Service Association being developed
- WCRP and WGSIP
- IPCC, UNFCCC
- EUMETNET Climate Roadmap
- Others?



My one slide summary of the Global Framework for Climate Services

Vision: Enable society to manage better the risks and opportunities arising from climate variability and change. Using science-based climate information.

The components



Priorities:

- Developing countries
- and most vulnerable
- Capacity building
- Agriculture and food security
- Water management
- Health
- Disaster risk reduction
- Strengthen not duplicate



<http://www.nature.com/gsc>

Hewitt *et al* (2012) Nature Climate Change online



What is already happening?

Activities and projects underway

- GFCS activities (3 pilot projects in Africa)
- CSP activities
- Programmes in climate research centres, climate service centres, National Met Services
- WCRP
- European projects, e.g. FP7, ENES
- Others?



What is already happening?

European projects underway

- JPI Climate
- Climate-KIC
- GMES
- COMBINE, EUCLIPSE, EMBRACE, ECLISE, CLIM-RUN (and IS-ENES2)
- NAACLIM, SPECS, EUPORIAS

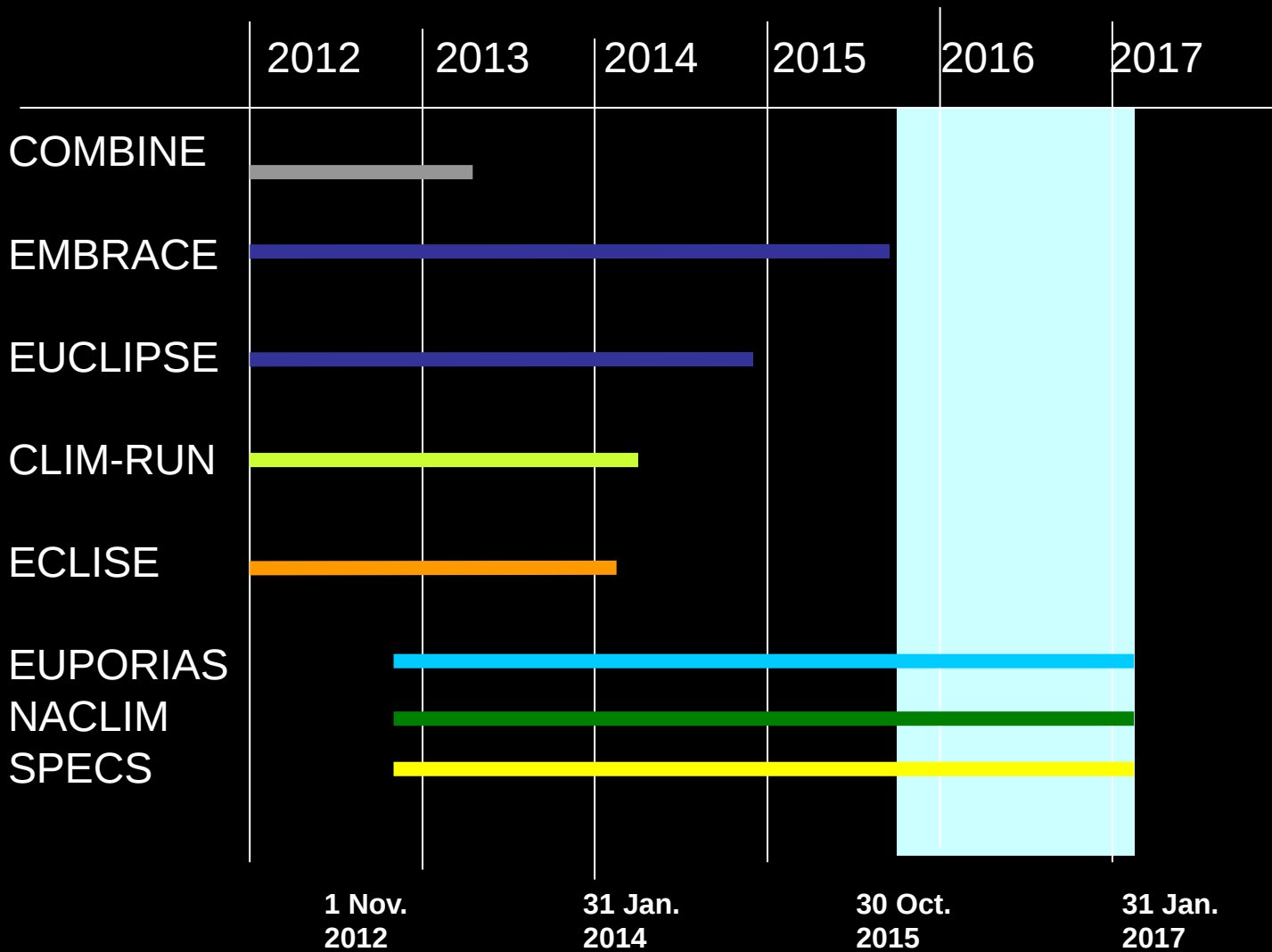


What is the involvement of our community?

- A lead writer of the GFCS implementation plan and several of us contributed and reviewed
- On the CSP core group and several of us are partners
- Members of WGSIP and EUROSIP
- IPCC AR5 Lead Authors
- EUMETNET (several NMHSs here)
- FP7 Projects (coordinators and participants here), including the 3 new ones which will contribute to the GFCS (and WGSIP etc.)



What needs doing and what will happen?





What needs doing?

- The 3 new FP7 projects will benefit from coordination:
 - to avoid duplication, maximise synergies, undertake cross-cutting activities
- Coordinate these 3 projects with other projects and activities, especially GFCS
- Identify future priorities in the area of s2d predictions towards climate services, including for Horizon 2020



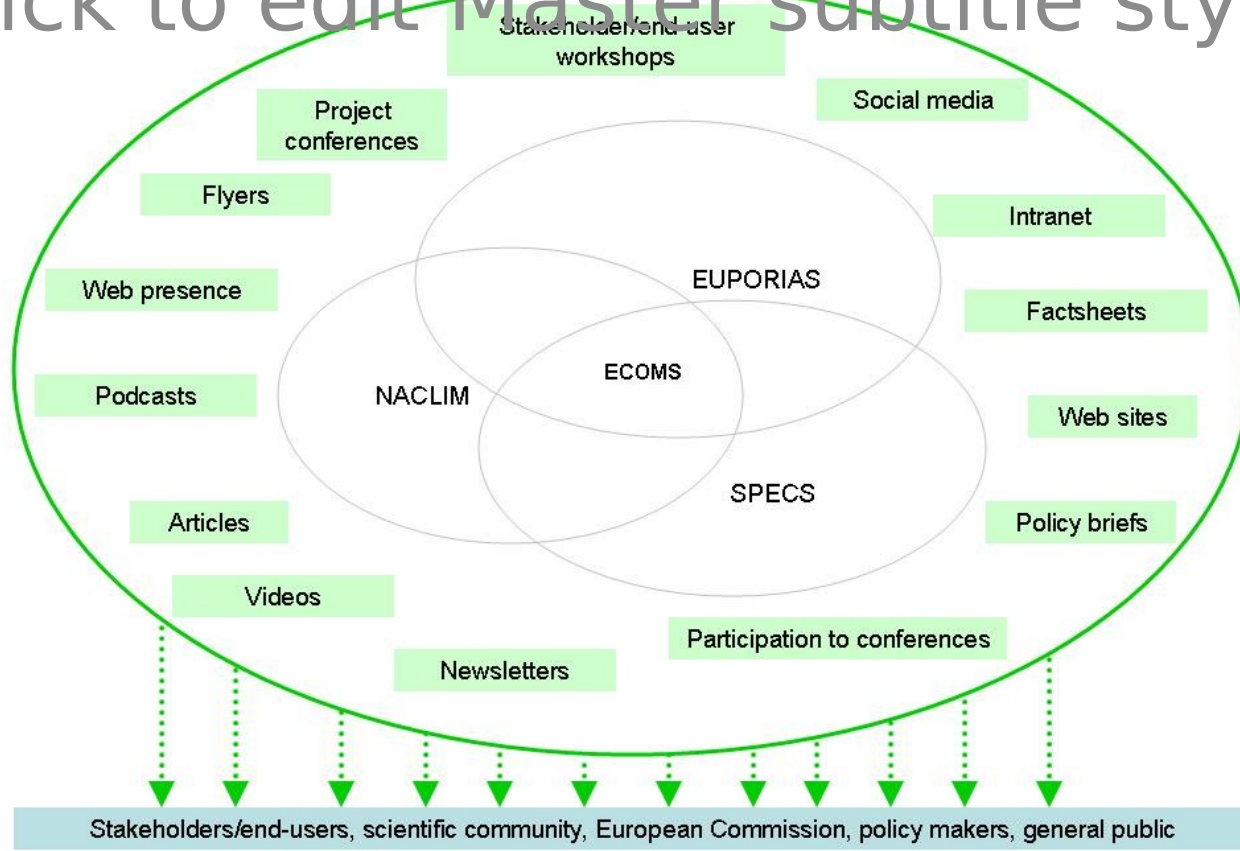
What will happen?

EUPORIAS, NACLIM and SPECS will have

- A coordination mechanism as part of their projects
- Joint kick-off meeting and joint final conference (with proceedings)
- Cross-representation on their management boards (as observers)
- Some joint dissemination and communication activities, such as joint newsletters, umbrella website
- Some joint scientific meetings on cross-cutting themes
- Interaction with GFCS
- (and be an integral part of ECOMS – see later slide)

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Dissemination





What will happen? ECOMS

- Create “European climate observations, modelling and services initiative”
- ECOMS will:
 - Identify synergies between s2d predictions towards climate services projects
 - Improve links between European activities
 - Improve links to other activities, including GFCS
 - Engage a “think tank” for recommended priorities and future research needs in the field of climate modelling and services, primarily on s2d timescales
 - Short report to EC by April 2013 to inform Horizon 2020
 - Short policy-relevant report by month 29 summarising coordination progress and plans



What will happen? ECOMS

- ECOMS will be managed by a Board
 - Coordination Team: C Hewitt (initial Chair), F Doblás-Reyes, D Quadfasel
 - Advisory Team:
 - Coordinators of FP7 climate modelling and climate service projects
 - Representatives of GFCS, CSP, and other relevant activities
 - Review Team to conduct a review after 30 months (subset of Advisory Team)
 - Representative of the EC invited to Board meetings but not part of the Board
- Meet early 2013 (for April report), early 2015 (for policy-relevant report)



What could happen?

- ECOMS could organise working groups, aligned with the GFCS 'pillars':
 - Observations and monitoring
 - Research, modelling and prediction (to include forecast quality and uncertainty)
 - User/stakeholder engagement
- Meet once a year? (not necessarily face-to-face)
- Identify where are the gaps, what are the risks, recommendations for future investment/research
- **Thursday parallel sessions will inform this proposed approach**



Summary of pre-ECOMS meeting in Brussels in June 2012

- Discussed coordination across projects and coordination structure.
- Keep it simple – don't coordinate too many things
- National activities should be linked in to our activities
- Importance of users, assessing users' needs, engaging with users
- List of success stories (usefulness of climate services)
- Co-education process between climate scientists and users
- Discussions of some potential research priorities:
 - operational high-resolution predictions for the next 30 years?
 - near-term predictions could be a strength that Europe can bring to GFCS



ECOMS at this meeting

- This afternoon's session
- Thursday parallel sessions:
 - Global observations and predictions
 - Downscaling
 - Users needs and climate services
 - Communication and uncertainty in climate services
 - Extremes
 - Observed variability of the climate system
- Thursday evening discussion on dissemination and communication activities:
 - Representatives from EC, NAACLIM, SPECS, EUPORIAS, CLIM-RUN, EMBRACE, ECLISE