

UK- Environmental Observation Framework
15th Management Group Meeting
11.00-16.30 5th March 2012
Room J, Polaris House, Swindon, SN2 1EU

DRAFT note of meeting

Meeting aims:

1. Review progress with thematic scoping studies
2. Discuss and agree how to progress Objective C of the Improving the effectiveness and efficiency of UK observation sites PID
3. Agree actions to identify the critical international programmes as a response to Sir John Beddington funding mechanisms debate
4. Confirm cofunding agreement and funding for 2012/13

Attendees:

Doug Wilson	EA (Chair 12-16.30)
Michael Schultz	NERC (Chair 11-12)
Andy Moffat	Forest Research
Andrew Watkinson	LWEC
Amanda Charles	GO Science (from 12.30)
Bruce Truscott	Met Office
Cathy Johnson	DECC
Caryn Le Roux	WG
Gwyn Rees	NERC CEH
Ian Davidson	EEA / GMES / SEIS
Keith Porter	NE
Lawrence Way	JNCC
Liz Tucker	Defra
Mary Barkham	LWEC
Peter Stephenson	ERSC
Peter Costigan	Defra
Richard Walmsley	EA (by telephone items 7-8)
Shaun Russell	WERH
Beth Greenaway	UK-EOF
Amber Vater	UK-EOF (notes)

Apologies

Andy Nesbit	NE
David Allen	CCW
Joanna Drewitt	SG
Richard Howe	FC
Ruth Boumphrey	UK Space Agency

1. Welcome

- 1.1. Michael Schultz (as temporary chair in Doug's absence) welcomed Members to the 15th MGM and a tour de table was carried out. Andrea Turner, the new UK-EOF secretariat member due to start in April 2012 was welcomed along with Andy Moffat who was attending on behalf of Richard Howe. Other apologies were given.

2. Minutes and actions

- 2.1. Actions 5, 7, 9, 16, 18 from the 14th MGM (October 2011) are ongoing (Paper A). Mary Barkham explained that the EIF business case had not been accepted due to a lack of resource to run the project and therefore Action 20 was superseded. There were implications of this decision on the UK-EOF DAG as discussed later.
- 2.2. The minutes of the 6th MGT was accepted. Action 1 - consideration of the role of UK-EOF champion should be allocated to Doug as chair when a replacement for Bob Watson as CSA of Defra had been found. Andrew Watkinson volunteered to represent the UK-EOF at the UKWRIF meetings (see Action 15). It was noted that the Water Observation theme was now on hold due to changes within the secretariat resource. Action 16 is therefore no longer relevant.

ACTION 1: Doug Wilson (and MG) to consider the role of UK-EOF champion

ACTION 2: Andrew Watkinson to act as the UK-EOF representative for UKWRIF (as required)

3. Member updates

- 3.1. A series of updates of relevant activities and issues were given by the members.
- 3.2. Lawrence Way provided an overview of the **Countryside Survey review**. The review was following several UK-EOF 'principles' in the process such as; bringing together networks to create efficient monitoring, looking at innovative ways and alternative methods for collecting observation data. The background documents are available on request. Recommendations of the review may impact the sampling methods of other projects such as the National Ecosystem Assessment follow on work. Ian Davidson suggested there was an opportunity for the redirecting the EU budget currently spent on LUCAS (Land Use / Cover Area Frame Survey). LUCAS data and other sources such as GMES will be looked at to see which could support the Countryside Survey information requirements.

ACTION 3: Ian Davidson to follow progress of LUCAS review and report back any useful outcomes to Lawrence Way (as required)

- 3.3. A **Mid Term Evaluation of LWEC** is underway, chaired by Sir Brian Bender and led by Liz Fellman (NERC). Mary Barkham described how in the next couple of months, will review the processes, structure and fitness for purpose of LWEC to ensure these were capable of delivering LWEC's aims. Although UK-EOF would not be formally reviewed, as part of LWEC the impacts and relevant recommendations would need to be taken on board.

ACTION 4: Mary Barkham to check all UK-EOF partners had been sent review questionnaires, 17th March 2012

- 3.4. **Defra** will begin a major reorganisation from 1st April to September 2012. The new structure looks towards interdisciplinary working and reduces the number of directors and deputy directors. Each evidence team will have statisticians, social scientists and natural scientists and economists. Peter Costigan announced he would be retiring in June and would work with Liz Tucker to ensure there is a suitable representation on the UK-EOF Management Group.

ACTION 5: Peter Costigan and Liz Tucker to consider senior representation of Defra on the UK-EOF management Group, beyond June 2012

3.5. Cathy Johnson is preparing a cover note to the documents produced by Andrea Sharpe for the **GCOS consultation** which will be presented to the LWEC Climate Change Steering Group on 19th March. The major gap identified in the consultation was that of UK coordination of GCOS activities. Each member of GCOS should have a focal point and the UK does not. The paper therefore contains a proposal for a small committee to be formed to support / coordinate work in this area. This could be an LWEC group but more time and technical expertise is needed than at the LWEC Partners Board meetings. It could also look at the risks of financing climate observations in the long term which will feed into the Sir John Beddington debate. The membership of this group would need to include members outside of UK-EOF sponsors, such as DFID but should be closely aligned to the UK-EOF work and that of the LWEC Climate challenge steering Group. Cathy is likely to chair this group and the UK-EOF secretariat will provide support for this group to meet twice yearly.

ACTION 6: Secretariat to provide support to a Climate sub-group to be chaired by Cathy Johnson, ongoing

3.6. The Sustaining Living Wales project is looking to align legislative requirements and the UK-EOF tools are being used to review activities. The Natural Resources Wales project is also underway to merge the public environmental organisations. The core principles of the new agency will be to provide socio-economic benefits to citizens of Wales. There will be much cross-cutting work that will need engagement with UK-EOF in the future.

3.7. The **Welsh Environment Research Hub** (WERH) recently employed a GI expert who will focus on dissemination of information and outreach work. Shaun was enthusiastic that the WERH will become more involved with the UK-EOF now there were more resources available and are looking to use the catalogue for upcoming projects.

3.8. Bruce Truscott reported forthcoming requirements from the **Met Office**, including the need to collaborate more, knowing that there is a growing need for more data but little or no monies for new infrastructure. Increasing data reuse, for example, using the Highways Agency data has provided improvements in modelling and the Met Office are keen to continue to use 3rd party data to add value to existing datasets, including voluntary data. The launch of the voluntary observing website last year has been extremely successful in that much data has been sent in. The challenge for the Met Office is now to use this data in the operational systems. Collaboration is beneficial but can also be a complicated process. Future collaborations are being considered with the EA and with NE using gridded datasets. Members were interested in finding out more about the Met Office gridded data models and raised the issue of coverage across the UK/GB and the effect that future plans of all organisations may have on Wales.

3.9. Maintaining international networks is perceived as a threat to the Met Office data needs; this was highlighted in the Sir John Beddington debate. Bruce supported Cathy's earlier proposal for a climate sub-group.

ACTION 7: Bruce Truscott to send details of 'gridding data sets' to Members, 30th March

3.10. **NERC** - Gwyn Rees informed members of how the NE mapping work is being used within CEH to look at where and what is happening at field site locations and how this can be made more efficient. The first stage was to produce an inventory of sites (using the UK-EOF catalogue as a starting point and adding in the more detailed information. This will help identify candidates for closure. It is hoped to engage with stakeholders before any final decisions are made. Michael Schultz provided positive feedback from the NERC & UK-EOF workshop (February 2012). There was a strong message that the

UK-EOF was a valued programme and the impacts needed to be better communicated internally. Michael stressed the new NERC Chief Executive's focus for NERC will be impact and innovation.

4. UK-EOF Update and progress – Paper B (Beth Greenaway)

4.1. An overview of achievements, meetings attended and contributions made by the UK-EOF secretariat were provided by Beth Greenaway. Members were informed of the recent staff changes and asked to ensure that the advert for the programme manager job was distributed around their organisation.

ACTION 8: Members to distribute UK-EOF Programme manager job advert within their organisations, ASAP 8th March 2012 [note the closing date has been extended to 30th March]

4.2. The tenders for the **citizen science** and **climate observation** work have now been advertised and received a good response. The evaluations would be undertaken by the end of March and the start-up meetings were planned for April. Peter Stephenson, Lawrence Way and Caryn Le Roux offered support from their organisations to evaluate the citizen science bids and Cathy Johnson and Bruce Truscott offered to support the climate observations evaluation process.

ACTION 9: Amber Vater to contact relevant members to organise the evaluations of the citizen science and climate observations tenders, 20th March 2012

4.3. Beth informed members of the **MBA citizen science workshop** that had been supported by UK-EOF and the **EIONET workshop** where UK-EOF was able to investigate the use of legislative activities (also see section 9.4).

4.4. The overall UK-EOF programme work plan was reviewed (Annex B1, Paper B) Members were asked to consider the long-term plans for the catalogue during the meeting.

4.5. The co-funding agreement will be sent to Members to be signed shortly after the meeting and organisations will be invoiced in April 2012. Members agreed to sign and return the agreement as soon as possible but some organisations warned this may take some time due to procurement systems.

4.6. Financial contributions and budgets forecast 2012/13 was discussed. JNCC confirmed their contribution so only CCW is still to confirm. The position was healthy with enough income to support the basic secretariat functions and the underspend from this year carried forward to provide funds for the catalogue upgrade (if agreed at the 16th MGM in June) and to support the thematic scoping studies project work as agreed in the Delivery plan.

ACTION 10: Members to return signed co-funding agreements by 30th March 2012

ACTION 11: Amber Vater to send invoices for Members contributions by end April 2012

4.7. The Chair asked Members to consider how UK-EOF will be sustained in the future and if a new home and sustainable funding model for UK-EOF will be required. It was agreed to come back to this at a future meeting soon.

ACTION 12: Members to consider the long term future of UK-EOF, 16th MGM

5. Sustainable Funding mechanisms

- 5.1. Amanda Charles (GO Science) provided feedback from the 8th February Sir John Beddington debate on sustainable financing mechanisms for long term observations. The neutral evidence provided from the UK-EOF and presented by Andrew Watkinson at the meeting received a positive response. Members were thanked for their input to the UK-EOF paper and the case studies.
- 5.2. The long standing issue of a lack of mechanisms to fund operational type monitoring was acknowledged and the present situation seen as inefficient and posing a large risk of not being able to collect the key data the UK needs for policy, social and or science in the medium to long term. Two activities will now be undertaken in time for the next follow up meeting on 19th April.

A) UK-EOF will help identify a list of critical data sets and B) Go Science will look at possible funding options

- 5.3. It was agreed that UK-EOF should help provide the information but acknowledged that to do the job properly needed more time and debate than is available. The methodology of constructing the list was discussed. There is a set of 6 case studies or there is the critical observations scoring from the 2011 UK-EOF assessment tool. Either could be used as a starting point. However the latter assessment list has approx 350 activities tagged as critical to at least one headline issue by at least one organisation. This would mean the list is too long. In addition when the scoring was done 'critical' was defined in a different way.
- 5.4. There was much discussion on the definition of critical and how this differs from the list of those that are at risk from funding issues at the present time. All observations that were not statutory for example could be regarded as not having secured funding. One definition was 'regret free'. Discussing the need to flag risk, it was agreed that actually what is needed is a list of what observations we can't do with out – not what status their funding is in now. The focus of the exercise is to establish a funding mechanism that would be robust in the longer term and not have a one off pot of money to cover a specific set of activities that are considered at risk now.
- 5.5. Members discussed how their organisations were reliant on international observations, or how their own observations were significant to other nations. International credibility and interdependence was therefore discussed and how this should be important when considering the final list to submit to the debate.
- 5.6. There was a need to regularly review these observations and have a mechanism in place to ensure the UK is constantly reviewing what it does and why. This mechanism could help programmes without a clear lead to be flagged if funding becomes an issue and could also be useful when starting new observation programmes. Members considered this ongoing coordination process could be one of the long term roles for UK-EOF and advised this should be raised at the Sir John Beddington debate in April.
- 5.7. With regard to the mechanisms, Members discussed cases that even when there is a willingness to collaborate, there is no standard collaboration mechanism for funding observations. The review of mechanisms should look widely and include example of other sectors e.g. the Public Service Mapping Agreement for the OS for example. In this case the OS maps and data are treated as critical infrastructure upon which many other UK public and private sector services rely. A route for private monies into this system could also be considered such as a trust fund.

5.8. After a long discussion, the scope of the programmes to be highlighted in the 'critical' list was defined as '**Observation programmes which would have significant consequences (that would affect the national interest) if not continued long term**'. This list will form the submission to Sir John Beddington to inform the debate on funding mechanisms. The list will be sent with caveats such that it is a starter list and would not preclude others from being added in the future or some removed. The list would highlight if the programme has national or international dependencies and whether or not there is long term funding in place. The set of principles agreed by UK-EOF around observations programmes should also be included.

ACTION 13: All Members to send a list of 'observation programmes which would have significant consequences (that would affect national interest) if not continued' including costs and other details as defined on the spreadsheet circulated by the secretariat (see email of 7th March) to Amber Vater by 30th March 2012. Note use of the UK-EOF ID for cross referencing will also be important

ACTION 14: Amber Vater to collate the list of observation programmes and send to the Members for review before sending to Amanda Charles by 10th April 2012

ACTION 15: Andrew Watkinson to also raise the issue of the long term sustainability of the UK-EOF itself at the Sir John Beddington debate, 19th April 2012

6. Citizen Science & Environmental Observations – See 4.2

7. Finding efficiencies through coincident mapping – Paper D

7.1. Amber Vater provided an update of progress made with the finding efficiencies through coincidence mapping work theme including the recommendations from the workshop held in December 2011. Members were presented with options outlining what the secretariat could deliver for objective C of the project with its reduced staff levels over the next few months. There was much support and enthusiasm for the secretariat to continue working with organisations to provide a neutral space for bilaterals and for further analysis to be undertaken by geographical location. The focus will be a case study on a catchment which can be used to show how coincidence mapping can kick-start collaborative opportunities. The catchment study plan would involve bringing together other organisations including local NGOs to see how they could work together. There was also support for publishing the maps that had been produced so far but this was not to take priority over the catchment study.

7.2. Rich Walmsley detailed progress between EA and NE. The two organisations have been looking into sharing facilities and sites and have made the first steps to look at detailed analysis of what happens where, and how joining up could be achieved. Categorising surveys better would have helped look what is really going on. Rich and Keith Porter agreed to write a short paper for the next Management Group Meeting to outline the generic lessons learnt so far. The need for GIS skills within organisations to be able to undertake further analysis was seen to be vital as was face to face meetings to be able to really understand each organisation.

7.3. Other bilaterals between NE and CEH; NE and Met Office as well as NE and JNCC are ongoing. Keith Porter explained how the UK-EOF secretariat had been useful in getting the first stages going, and how NE could now take this forward without the support of the secretariat.

ACTION 16: Amber Vater to update the coincidence mapping PID to include details of geographic case study (catchment example) that will be progressed, 13th April 2012

ACTION 17: Members to supply site information data to the secretariat on request, as required

ACTION 18: Keith Porter and Rich Walmsley to write a lesson learnt paper including opportunities and barriers for collaborative working, 16th MGM

7.4. Scottish organisations had not been involved in the current mapping theme and there was a call from Members to ensure they were informed and able to engage where possible. It was agreed that the secretariat should re-engage with the CAMERAS monitoring sub-group and find an opportunity to showcase the mapping work at a CAMERAS meeting. Lawrence offered to help the secretariat put together a presentation and the lessons learnt from EA and NE could be used as examples of successes to date. Caryn explained that Lawrence and Andy Nisbet had been involved in Wales's planning and there could be more join up with the EA (England). There is also a need to ensure other organisations who have not yet been engaged are provided the opportunity to do so e.g. BGS and FERA.

ACTION 19: Amber Vater to contact CAMERAS and find a suitable date to present the coincident mapping to the Scottish organisations, end June 2012

8. UK-EOF catalogue and the data world – (Beth Greenaway)

8.1. Due to lack of resources and the lack of support for another data initiative, the **EIF** Steering Group has decided not to go ahead with the proposal. Instead subject to resourcing, the UK-EOF Data Advisory Group will act as the focal point and maintain a watching brief on behalf of the LWEC members for data and information issues. This means a slight extension to the remit for the group. The Terms of reference for the DAG have been updated to include additional scope and the DAG Members were supportive of the change. The need to define 'information' was seen as critical as the scope could get unmanageable. Additional membership would be sought as required to cover information issues. Stefan Carlyle (EA) will chair the DAG until the UK-EOF Programme Manager has been replaced. One aim of the next DAG meeting will be to map the current landscape of the data and information world. Other key ideas and proposals scoped during the EIF meetings could be taken forward as required by individual organisations and/or existing partnerships.

8.2. Beth provided a presentation about the INSPIRE Annex III requirements. Of the 34 different data set types required under Annex III, the Environmental Monitoring Facilities theme (EMF) is closely aligned to what the UK-EOF already collect. The UK-EOF catalogue also already has a number of fields which may not be mandatory through EMF. The key message was that the EMF theme is different, it is not the results of the monitoring like the other themes but a description of what is measured where and how.

8.3. The DAG has been requested to act as the EMF implementation route by UK Location Programme (UKLP) to disseminate information and facilitate the implementation.

8.4. The DAG has been tasked to look at EMF and write a strategic business case for a non-technical audience but with clear and realistic options that are technically sound for UK plc. The UK-EOF catalogue will not necessarily be the mandatory place to submit EMF compliant data but could be useful for smaller organisations and non-public organisations to comply with the standards. In order to understand / agree the best option for the UK, a detailed review needs to be undertaken based on;

- Users – what will the end result be for those searching and using observation information (UKEOF users and EMF users)

- Suppliers - who will be directly publishing to data.gov and who would prefer to go via the UK-EOF
- What are the costs, benefits, risks and implications of each option both capital and on-going costs.
- What are the legal implications of each option – what liability would UK-EOF carry for example?
- What is the added value that having a UKEOF collation of the information over and above the data.gov search

8.5. The business case will also look at the implications and options for the UK-EOF catalogue. Many larger organisations will be investing in infrastructure to allow them to comply with INSPIRE and therefore UK-EOF will not be required to be the only publishing hub. However DAG should investigate the need of the community for the catalogue otherwise there may be wasted resource upgrading the catalogue if only a few organisations will use it to publish compliant data. This will be addressed at the next DAG meeting in June. Members were asked to remember the resource that had already been put into the catalogue and the impact it has had. The user needs are vital to understand before a decision is made about the future of the catalogue.

8.6. The need for the Management Group to make a decision in June on the way forward and the role of UK-EOF is crucial. It is estimated that at least 12 months work is needed before the first INSPIRE deadline in 2013 and the resources need to be planned.

8.7. How the UK chooses to implement and comply with the INSPIRE EMF between now and 2019 will have a significant impact on the UK-EOF because many of the organisations who supply UK-EOF information will be required to comply with INSPIRE and will not want to do this twice. Much of the information is the same except the minimum requirements for compliance would not be sufficient for UK-EOF coordination and collaboration type activities in the future – the EMF data does not include costs and even the aims and objectives of the programmes are different.

8.8. The key question is does the UK-EOF Management Group wish to see the UK-EOF catalogue continue for its own sake – i.e. does it have a value over and above INSPIRE compliance? The DAG considered this question and strongly supports the continuation of the catalogue in its own right as a tool to discover UK environmental observations in one place. The UK-EOF also captures programmes from organisations that will not have to be INSPIRE compliant (e.g. NGOs).

8.9. The catalogue undertakes a system to order the information such that each programme has a unique ID. This would be lost if, for example, there are multiple funders of a programme and all submit their discovery information separately. Although already discussed at the DAG, the added value of the catalogue (and any additional tools such as the mapping tools) needs to be articulated to the MG and other funders. Members were reminded that the UK-EOF did not have or could not have any legal or regulatory responsibility but could provide a facilitation role and, if it continues to maintain a catalogue will need to comply as a provider of EMF data.

ACTION 20: Liz Tucker to work with the DAG subgroup to develop the business case and options to the 16th Management Group Meeting

ACTION 21: Management Group to consider the strategic business case and options for implementation of INSPIRE for UK plc and its implications for the UKEOF at the next Management Group Meeting, 16th MGM

9. International aspects

- 9.1. Ian Davidson provided an update on **GMES**. Funding this flagship EU project is an issue which has not yet been resolved. Several member states are not likely to fund it (beyond 2014) off budget (including the UK). In the meantime the programme continues. User updates are currently being reviewed and testing is being carried out for environmental policy.
- 9.2. The in situ data requested from the UK for the GMES services was now clearer but there will be no additional Defra resources to match the request. UK organisations were willing to provide much of the data requested but the resource required to do this was seen to be vast (even though eventually some will be available through INSPIRE publication routes).
- 9.3. **GEO** were currently looking towards the next stage beyond 2015. A symposium will be held in April to agree the work plan for all of GEO for this 2012- 2015. The tasks groups will now focus on the real 'doing' aspects. Ian is now the EEA member of the Geo Data Sharing Working Group (DSWG) which will promote data sharing, free and open access etc. Miles Gabriel (on contract to UK-EOF) and Beth are currently the UK representatives on the DSWG but this needs to be considered again once Beth leave UK-EOF. Defra are looking at the options.
- 9.4. Funding for the **UKGEO**(coordination project) which has been hosted at BGS ends shortly and the future funding status will be known in June. A meeting to discuss the societal benefit area needs is planned. How UK could support this needs to be addressed. Liz and Peter will discuss how Defra are represented on the UK-EOF Management Group and decide if there is a need for other international initiatives representatives to be part of the group (e.g. Arywn Davies).
- 9.5. An EIONET workshop, supported by the UK-EOF was held in February 2012 to bring together the National Reference Centres (NRC) and the new National Focal Point (NFP) Christine Holleran. The workshop clarified that EIONET is the mechanism to send the data collected for EU legislative purposes to the EEA for its State of the Environment report. Therefore the majority of data submitted via EIONET already has a secondary use. This has implications for how the records are tagged and 'valued' in the UK-EOF catalogue and how they could be treated within the UK-EOF legislative project. Delegates at the workshop were asked to check and update the UK-EOF legislative records in the catalogue and the value of tagging records as EIONET was agreed.

10. Impacts, lessons and future priorities

- 10.1. Beth provided a summary of the achievements of the UK-EOF secretariat since the programme began in 2008 and thanked Members for their support and enthusiasm. A total of £1.3 million has been spent on the programme in just under 4 years and there are many tangible products and intangible outcomes. However the issues and vision outlined in the UK-EOF Framework document remain as relevant as ever. The partners now need to ensure that their own organisations engage fully with the programme to realise the benefits. Although leaving the UK-EOF, Beth would remain in contact through her new job at the UK Space Agency and look forward to joining up the UK-EOF with UKSA in the future.

11. Actions, AOB, proposed dates / locations of next meeting(s)

- 11.1. A Doodle Poll will be sent out to confirm dates for the 7th MG Teleconference (w/c 23rd April) and the 16th MG Meeting (w/c 18th June).

ACTION 22: Amber Vater to send out Doodle polls for the next MGT and MGM, 30th March 2012

Actions (A-C carried over)		Who	When
A	Secretariat to produce report summarising the conclusions that can now be drawn from the content of the catalogue	Secretariat	16 th December 2011
B	The lead to develop a PID for each theme in priority order (mapping, legislative & water PIDs outstanding).	Peter Costigan, Rich Walmsley & Andy Nesbit, Ian Davidson, + non-EOF MG Members, Dan Osborne (LWEC);	11 th November 2011
C	Defra to investigate if a climate representative wished to join the group	Peter Costigan	May 2012
1	Doug Wilson (and MG) to consider the role of UK-EOF champion	Doug Wilson	September 2012
2	Andrew Watkinson to act as the UK-EOF representative for UKWRIF	Andrew Watkinson	As required
3	Ian Davidson to follow progress of LUCAS review and report back any useful outcomes to Lawrence Way (as required)	Ian Davidson	As required
4	Mary Barkham to check all UK-EOF partners had been sent review questionnaires	Mary Barkham	17 th March 2012
5	Peter Costigan and Liz Tucker to consider senior representation of Defra on the UK-EOF management Group beyond June 2012	Peter Costigan & Liz Tucker	June 2012
6	Secretariat to provide support to a Climate sub-group to be chaired by Cathy Johnson, ongoing	Secretariat	As required
7	Bruce Truscott to send details of 'gridding data sets' to Members, 30 th March	Bruce Truscott	30 th March 2012
8	Members to distribute UK-EOF Programme manager job advert within their organisations, ASAP 8 th March 2012 [note the closing date has been extended to 30 th March]	All MG	23 rd March 2012
9	Amber Vater to contact relevant members to organise the evaluations of the citizen science and climate observations tenders	Amber Vater	20 th March 2012
10	Members to return signed cofunding agreements by 30 th March 2012	All MG	30 th March 2012
11	Amber Vater to send invoices for Members contributions by end April 2012	Amber Vater	27 th April 2012
12	Members to consider the long term future of UK-EOF, 16 th MGM	All MG	16 th MGM
13	All Members to send a list of ' <i>observation programmes which would have significant consequences (that would affect national interest) if not continued</i> ' including costs and other details as defined on the spreadsheet circulated by the secretariat (see email of 7 th March) to Amber Vater by 30 th March 2012	All MG	30 th March 2012
14	Amber Vater to collate the list of observation programmes and send to the Members for review before sending to Amanda Charles by 10 th April 2012	Amber Vater	10 th April 2012
15	Andrew Watkinson to also raise the issue of the long term sustainability of the UK-EOF itself at the Sir John Beddington debate, 19 th April 2012	Andrew Watkinson	19 th April 2012
16	Amber Vater to update the coincidence mapping PID to include details of geographic case study (catchment example) that will be progressed, 13 th April 2012	Amber Vater	13 th April 2012
17	Members to supply site information data to the secretariat on request, as required	Members as required	As required

18	Keith Porter and Rich Walmsley to write a lesson learnt paper including opportunities and barriers for collaborative working	Keith Porter, Rich Walmsley	16 th MGM
19	Amber Vater to contact CAMERAS and find a suitable date to present the coincident mapping to the Scottish organisations, end June 2012	Amber Vater	29 th June 2012
20	Liz Tucker to work with the DAG subgroup to deliver the business case and options to the 16 th Management Group Meeting	Liz Tucker	16 th MGM
21	Management Group to consider the strategic business case and options for implementation of INSPIRE for UK plc and its implications for the UK-EOF at the next Management Group Meeting, 16 th MGM	All MG	16 th MGM
22	Amber Vater to send out Doodle polls for the next MGT and MGM, 30 th March 2012	Amber Vater	30 th March 2012