Space for Smarter Government Programme

Environmental Monitoring Workshop
Friday 21st March 2014

09:30 – 16:00

### Agenda

**09:30** Registration and coffee

**Welcome and Introductions**

**10.00**Welcome Doug Wilson EA , Chair UK Environmental Observation Framework

**10.05** Aims of the day and introduction to SSGP – Beth Greenaway, UK Space Agency

**10.10**The facilities of Harwell – Nick Veck, Satellite Applications Catapult

**10.15** Environmental monitoring challenges – Helen Beadman, UK Environmental
 Observation Framework

**What is the community already doing with space? – Chair Doug Wilson**

**10.30** *A review of 20 years of remote sensing in Natural England – what next?*
 - David Askew, Natural England

Questions

* 1. *Exploring new methods for monitoring peat extent and condition in Wales - Professor Bridget Emmett, Welsh Environmental Research Hub Steering Board*

**11.00** *GIS at Kew - Katherine Willis , Kew*

**11.10***Satellite Data Activities in Scotland - Susan Stevens, SEPA*

**11.20** *Defra projects exploring the use of Space - Jonathon Hicks, Defra*

**11.30** *EO for UK Habitat Mapping - Paul Robinson, JNCC*

**11.40** *Novel techniques for processing images - Dan Morton, CEH*

**11.50** *Applications of Space in the Met Office - Ali Price, Met Office*

**12.00** *Smarter marine monitoring: assessing UK water quality from space’ - Rodney Foster,
 CEFAS*

**What’s new from Space? Chair Beth Greenaway**

**12.15***What can the space sector offer?* ***-***  *Jimmy Slaughter, SSGP*

**12.40*****The Disaster Charter*** *- Alice Bunn*

**12.45 Lunch and networking**

* 1. **Inspiring solutions from across Europe –** Colin Hicks, Eurisy

**Questions**

**14.00 Introductions to the breakouts – Are there common requirements , solutions, projects, actions?**

***A.*** *Environmental policy and monitoring requirements- opportunities from space –*

***B.*** *Mapping, visualising and integrating data sets –*

***C.*** *Monitoring with a new generation of sensors- what is the role of space –*

**Conclusions and next steps**

**15.15 *Feedback of 3 key outcomes from breakout groups***

**15.25 *Reflections of the day and next steps – SSGP, UKEOF***

**15.30 Refreshments and networking.**

**16:00**Close

**SSGP :UKEOF Workshop Breakout Details**

**Are there common requirements, solutions, projects, actions?**

**2pm -3.15pm**

**A. Environmental policy and monitoring requirements- opportunities from space**

**Room:** Jupiter

**Aim**: To start discussions on the preparation of a Road Map for Defra to use space 2015- 2020

**Output**: Material for the Road Map

**Method / Agenda**

Open forum to discuss current user needs and potential solutions.  Smaller group sizes may be required to help keep ideas free flowing. *Jimmy Slaughter, Satellite Applications, Catapult*

**Background material**: -

* UKEOF Statement of need with Traffic Light assessment of relevance to space 2011.

**Key Personnel:** User / SSGP Facilitator / UKEOF notes / Expert contributor

Chair - Ian Davidson , Farhana Amin

SSGP – Jimmy Slaughter/ Richard Turner

UKEOF - John Styles

Experts – self-selected – John Styles / Andy Shaw

**B. Mapping, visualising and integrating data sets**

**Room:** Saturn

**Aim:** To discuss common capabilities, issues and plans.

**Output**: Action Plan

**Method / Agenda**

**PART 1.** Demonstration of the visualisation wall - jelly fish , CEMS demos.  *Richard Hilton, Satellite Applications, Catapult.*

Potential for use of the tool by monitoring / reporting community

What action is needed – by whom to realise the opportunities?

**PART 2 .** Using EO for mapping

The Copernicus Land Service - *Geoff Smith, Specto Natura Ltd*

Discussion – How many mapping tools/ projects/ services do we have? Is it time to be more strategic and create common products?

What action is needed – by whom – to realise the opportunities?

**Key Personnel:** SSGP Facilitator / UKEOF notes / Expert contributor

SSGP – Beth/ Carol

UKEOF – Sophie Isaacs

**C. Monitoring with a new generation of sensors- what is the role of space?**

**Room:** Demo Centre

**Aim:** To give environmental monitoring community a chance to discuss the abilities of the new technologies.

**Output:** Shared understanding of the new technologies and their relevance to environmental monitoring in UK.

**Method / Agenda**

New technologies and tools from SatComs – *Kieran Arnold, Satellite Applications, Catapult.*

New technologies and tools for Navigation Position and Timing – *Alex Efimov, ESP* KTN

General Questions

How could the environmental monitoring programmes be transformed with the use of these tools?

What action is needed – by whom to realise the opportunities?

**Background material**

* The UKEOF Technologies Workshop

**Key Personnel:** User / SSGP Facilitator / UKEOF notes / Expert contributor

Chair: Kieran Arnold

SSGP – John Vesey

UKEOF – Helen Beadman