

# **COST**

Domain Committee "ISCH"

## **COST Action (TD0902)**

**Start Date** (4/11/2009)

**End Date** (3/11/2013)

*Submerged Prehistoric Archaeology and Landscapes of the Continental Shelf (SPLASHCOS)*

## **FINAL EVALUATION REPORT**

This Report stems from the relevant Domain Committee.  
It contains four parts:

- I. Management Report** prepared by the COST Office/Grant Holder
- II. Scientific Report** prepared by the Chair of the Management Committee of the Action.
- III. Evaluation Report** prepared by the "ad hoc" Evaluation Panel, established by the Domain Committee, and edited by the COST Office.
- IV. DC General Assessment** prepared by the Domain Committee

### **Executive summary of the Scientific Report (max. 250 words):**

- Eight major meetings, combining MC and WG meetings, including one open workshop and one open conference, engaging 120 SPLASHCOS members, together with 6 smaller ad hoc meetings for progressing coordinated pan-European databases of information and regional research agendas
- All deliverables of original MoU achieved or exceeded
- Stimulation of international collaborations and networks
- Six Training Schools and 10 STSMs involving 65 Early Stage Researchers
- Five edited volumes (completed or in progress) with major academic publishers, and 45 other publications
- Twenty-two (out of 27) successful grant applications to EU, national and bilateral funders worth €19.3 million, including €11.4 million of EU funding with major grants from ERC, FP7 and Inter-Reg IVA.
- Organisation of major sessions at International Conferences in Europe and Australia, and other networking activities within Europe and beyond (North America, China)
- Wide range of other dissemination activities through website, popular media, film, Facebook, posters, leaflets and exhibitions
- Successful establishment of links with offshore industries through a dedicated workshop and specific collaborative research projects
- Successful engagement of stakeholders in the world of government and policy making through ongoing contacts with DG MARE, Parliamentary briefing in Brussels, and establishment of Working Group of ESF Marine Board (which will continue beyond the lifetime of SPLASHCOS).
- Technical reports on methods and resources and links with industry prepared in formats suitable for web-based dissemination.

## I. Management Report prepared by the COST Office/Grant Holder



### I.A. COST Action Fact Sheet

- **COST Action** TD0902 – *Submerged Prehistoric Archaeology and Landscapes of the Continental Shelf*
- **Domain** ISCH (with trans-domain links to ESSEM)

- **Action details:**

**CSO Approval:** (26/05/2009)

**Start date:** (4/11/2009)

**End date:** (3/11/2013)

- **Objectives**

The main objective of the Action is to promote research on the archaeology, climate and environment of the drowned landscapes of the continental shelf, created during periods of lower sea level, which form a major part of the European cultural heritage. For most of human history on the European continent over the past one million years, sea levels have persisted at levels lower than present by as much as 130m, creating extensive coastal and lowland landscapes attractive to human settlement. Between 16,000 and 6000 years, most of this territory was drowned by rapid sea level rise from -130m, following the last Ice Age, transforming the geographical and environmental context of human development with consequences that persisted into the modern era. This drowned landscape preserves valuable sedimentary archives of long-term environmental and climatic changes, and an increasing number of archaeological remains have been found, documenting human response and adaptation to this rapidly changing environment. With intensification of commercial activity on the seabed and improved research technology, the quantity of evidence is increasing rapidly. So too are the threats of destruction of this cultural heritage. This Action will improve knowledge on the location, preservation conditions, investigation methods, interpretation and management of underwater archaeological, geological and palaeoenvironmental evidence of prehistoric human activity, create a structure for the development of new interdisciplinary and international research collaboration, provide guidance for archaeologists, heritage professionals, scientists, government agencies, commercial organisations, policy makers and a wider public.

- **Parties:** *list of countries and date of acceptance*

Belgium (31/07/2009)	Ireland (10/07/2009)	Poland (10/07/2009)
Bulgaria (17/02/2011)	Israel (23/11/2009)	Portugal (29/07/2009)
Croatia (15/03/2009)	Italy (26/01/2010)	Romania (10/09/2009)
Denmark (03/12/2009)	Latvia (10/07/2009)	Spain (11/07/2009)
Estonia (28/10/2009)	Lithuania (07/01/2010)	Sweden (11/01/2011)
France (08/09/2009)	Malta (04/11/2010)	Switzerland (24/07/2012)
Germany (10/07/2009)	Netherlands (25/03/2010)	United Kingdom (11/07/2009)
Greece (04/08/2009)	Norway (08/09/2009)	

- **Intentions to accept:** *None pending*

- **Other participants:** **Near Neighbour Countries:** Odessa National I.I. Mechnikov University, Odessa, Ukraine; Shirshov Institute of Oceanology Research, Kaliningrad, Russian Federation

**Chair:** Prof. Geoffrey N. Bailey, University of York, Department of Archaeology, the King's Manor, York, YO1 7EP, UK, 00441904433901, gb502@york.ac.uk

**DC Rapporteurs:**

Dr. Daniela Koleva, St. Kliment Ohridski Sofia University, 15, Tzar Osvoboditel Blv, 1504 Sofia, Bulgaria, 00359882391761, daniela@sclg.uni-sofia.bg

Dr. Ipek Erzi, TUBITAK Marmara Research Center Environment Institute, PO Box 21, 41470 Gebze, Turkey, 00902626773422, ipek.erzi@tubitak.gov.tr

**Science Officer:** Dr. Luule Mizera, luule.mizera@cost.eu

**Administrative Officer:** Leo Guilfoyle, leo.guilfoyle@cost.eu

- **Action Web site:** <http://www.splashcos.org>
- **Grant Holder Representative** (Cynthianne Debono Spiteri, [splash.cost@gmail.com](mailto:splash.cost@gmail.com))
- **Working Groups** (list of WGs and names and affiliations of participants)

**Working Group 1: Archaeological Data and Interpretations**

**Working Group 2: Environmental Data and Reconstructions**

**Working Group 3: Technology, Technical Resources and Training**

**Working Group 4: Commercial Collaboration and Outreach**

The following table lists the Action participants by Member State, Institutional Affiliation, WG membership, Other role, Early Stage Researcher status and Gender.

N	First Name	Surname	Institutional Affiliation	Member State	Primary Working Group	Management Committee	ESR	Gender
1	Philippe	Crombé	University of Ghent, Department of Archaeology	BE Belgium	WG1			M
2	Marcel	Otte	Université de Liège, Centre de recherches archéologiques	BE Belgium	WG1	Member		M
3	Tine	Missiaen	University of Ghent, Renard Centre of Marine Geology	BE Belgium	<b>WG3 Chair</b>			F
4	Jean-Pierre	Hermant	Université Libre de Bruxelles, Environmental Hydroacoustics Laboratory	BE Belgium	WG3	Member		M
5	Sorna	Kahkzad	Katolieke Universiteit Leuven	BE Belgium	WG4		ESR	F
6	Preslav	Peev	Institute of Oceanology, Varna	BG Bulgaria	WG2	Member	ESR	M
7	Hristina	Angelova	Centre for Underwater Archaeology, Sozopol	BG Bulgaria	WG1	Member		F
8	Nayden	Prahov	Centre for Underwater Archaeology,	BG Bulgaria	WG1		ESR	M

			Sozopol					
9	Julian	Beck	University of Geneva	CH Switzerland	WG1	Member		M
10	Flavio	Anselmetti	University of Bern	CH Switzerland	WG2	Member		M
11	Hauke	Joens	Lower Saxony Institute for Historical Coastal Research	DE Germany	WG1	Substitute Member		M
12	Friedrich	Lüth	Deutsches Archäologisches Institut, Berlin	DE Germany	WG1	Member		M
13	Birgit	Hünicke	Institute for Coastal Research, Helmholtz-Zentrum Geesthacht	DE Germany	WG2		ESR	F
14	Michael	Kenzler	University of Greifswald, Dept of Geography and Geology	DE Germany	WG2		ESR	M
15	Jan	Harff	Leibniz-Institute for Baltic Sea Research	DE Germany	<b>WG2 Chair</b>	Member		M
16	Frederick	Feulner	Kiel University	DE Germany	WG3		ESR	M
17	Achim	Wehrmann	Senckenberg Institute, Department of Marine Science	DE Germany	WG3	Substitute Member	ESR	M
18	Anders	Fischer	Heritage Agency of Denmark, Copenhagen	DK Denmark	<b>WG1 Chair</b>	Member		M
19	Anja	Rutter	Greifswald	DE Germany	WG4		ESR	F
20	Ole	Grøn	University of Southern Denmark, Centre for Maritime and Regional Studies	DK Denmark	WG3	Member		M
21	Peter	Astrup	University of Aarhus	DK Denmark	WG2		ESR	M
22	Christine	Husum	Rambol Group Engineering Consultancy, Denmark	DK Denmark	WG4		ESR	F
23	Thijs	Maarleveld	University of Southern Denmark, Centre for Maritime and Regional Studies	DK Denmark	WG4	Substitute Member		M
24	Tomas Albaek	Hunniche	Øhavsmuseet, Langelands Museum	DK Denmark	WG2		ESR	M
25	Jørgen	Dencker	Viking Ship Museum	DK Denmark	WG1			M
26	Morten	Johansen	The Viking Ship Museum	DK Denmark	WG1		ESR	M
27	Claus	Skriver	University of Southern Denmark	DK Denmark	WG1		ESR	M
28	Theis	Trolle Jensen	University of Copenhagen	DK Denmark	WG1		ESR	M

29	Otto	Uldum	Øhavsmuseet, Langelands Museum	DK Denmark	WG1		ESR	M
30	Aivar	Kriiska	University of Tartu, Department of Archaeology	EE Estonia	WG1	Member		M
31	Hanna	Raig	University of Tartu, Department of Geology	EE Estonia	WG2		ESR	F
32	Alar	Rosentau	University of Tartu, Department of Geology	EE Estonia	WG2	Member	ESR	M
33	Pablo	Arias	Universidad de Cantabria, Instituto Internacional de Investigaciones Prehistóricas	ES Spain	WG1	Member		M
34	Miquel	Canals	Universitat de Barcelona, CRG Geociències Marines	ES Spain	WG2	Member		M
35	Eneko	Iriarte	Institución Milà i Fontanals, Dept. Archaeology & Anthropology	ES Spain	WG2			M
36	Angelos	Mallios	Universitat de Girona, Dept of Computer Engineering	ES Spain	WG3		ESR	M
37	Laurent	Carozza	Université Toulouse le Mirail, Laboratoire de GEODE (Géographie de L'Environnement)	FR France	WG2	Member		M
38	Gilles	Lericolais	IFREMER, Centre de Brest, Géosciences marines, Laboratoire Environnements Sedimentaires	FR France	WG2	Member		M
39	Anne	Hoyau-Berry	Association pour le Développement de la Recherche en Archéologie Maritime,	FR France	WG1		ESR	F
40	Kalliope	Baika	University of the Peloponnese	GR Greece	WG1		ESR	F
41	Margarita	Iatrou	University of Patras, Department of Geology	GR Greece	WG3		ESR	F
42	Dimitris	Sakellariou	HCMR, Hellenic Centre for Marine Research	GR Greece	WG3	<b>Vice-Chair</b>		M
43	Aikaterini	Dellaporta	Greek Ministry of Culture	GR Greece	WG1	Member		F
44	Nena	Galanidou	University of Crete, Department of History and Archaeology	GR Greece	WG1			F
45	Konstantina	Vafeiadou	Department of Underwater Antiquities, Greece	GR Greece	WG1		ESR	F
46	Adonis	Zambelis	Hellenic Centre for Marine Research	GR	WG4		ESR	M

47	Irena	Radic Rossi	University of Zadar, Dept. of Archaeological Heritage	HR Croatia	WG1	Member		F
48	Slobodan	Miko	Croatian Geological Survey	HR Croatia	WG2	Member		M
49	Paul	Montgomery	Dublin	IE Ireland	WG1		ESR	M
50	Peter	Woodman	University of Cork	IE Ireland	WG1	Member		M
51	Robin	Edwards	Trinity College Dublin, School of Natural Sciences	IE Ireland	WG2	Member		M
52	Frank	McDermott	University College Dublin, School of Geological Sciences	IE Ireland	WG2	Member		M
53	Vered	Eshed	Israel Antiquities Authority	IL Israel	WG1		ESR	F
54	Ehud	Galili	Israel Antiquities Authority	IL Israel	WG1	Member	ESR	M
55	Avraham	Ronen	University of Haifa, Department of Archaeology	IL Israel	WG1	Member		M
56	Yossi	Mart	University of Haifa, Center for Marine Studies	IL Israel	WG2			M
57	Dov	Zviely	University of Haifa, Institute for Maritime Studies	IL Israel	WG4		ESR	M
58	Fabrizio	Antonolo	ENEA (National Agency for New Technologies, Energy & Sustainable Economic Development), Rome	IT Italy	WG2	Member		M
59	Francesco	Chiocci	University of Rome La Sapienza, Dept. of Earth Sciences	IT Italy	WG2	Member		M
60	Elena Flavia	Castagnino Berlinghieri	Service for the Protection of Archaeological Heritage, Syracuse, Sicily	IT Italy	WG1			F
61	Emanuela	Solinas	Civico Museo Archeologico Sa Domu Nosta, Senorbi	IT Italy	WG1			F
62	Algirdas	Girininkas	Klaipėda University, Institute of Baltic Sea Region History and Archaeology	LT Lithuania	WG1	Substitute Member		M
63	Albertas	Bitinas	Geological Survey of Lithuania	LT Lithuania	WG2			M
64	Gytis	Piliciauskas	Lithuanian Institute of History	LT Lithuania	WG1	Member		M
65	Vladas	Zulkus	Klaipėda University	LT Lithuania	WG1	Member		M
66	Laimdota	Kalnina	University of Latvia, Faculty of Geography and Earth Sciences	LV Latvia	WG2	Member		F

67	Ingus	Purgalis	University of Latvia, Faculty of Geography and Earth Sciences	LV Latvia	WG2		ESR	M
68	Valdis	Berzins	Latvian Institute of History	LV Latvia	WG1	Member		M
69	Timmy	Gambin	University of Malta, Dept. of Classics and Archaeology	MT Malta	WG1	Member		M
70	Aaron	Micallef	Universitat de Barcelona, CRG Geociències Marines	MT Malta	WG2		ESR	M
71	Hans	Peeters	University of Groningen, Institute of Archaeology	NL Netherlands	WG1	Member	ESR	M
72	Kim	Cohen	Utrecht University, Faculty of Geosciences	NL Netherlands	WG2		ESR	M
73	Henk	Weerts	Cultural Heritage Agency, Ministry of Education, Culture & Science, Netherlands	NL Netherlands	WG2	Member		M
74	Sytze	van Heteren	Geological Survey of the Netherlands	NL Netherlands	WG3			M
75	Andrea	Otte-Klomp	Cultural Heritage Agency, Ministry of Education, Culture & Science, Netherlands	NL Netherlands	WG4			F
76	Luc	Amkreutz	National Museum of Antiquities, Leiden	NL Netherlands	WG1		ESR	M
77	Astrid	Gjerde	Bergen, Norway	NO Norway	WG4		ESR	F
78	Hakon	Glorstad	University of Oslo, Museum of Cultural History	NO Norway	WG4	Member		M
79	Frode	Kvalø	Norwegian Maritime Museum, Oslo	NO Norway	WG4		ESR	M
80	Jostein	Gundersen	Directorate for Cultural Heritage, Oslo	NO Norway	WG3	Member		M
81			Norwegian University of Science & Technology, Trondheim, Norway	NO Norway	WG3		ESR	M
	Øyvind	Ødegård						
82	Birgitte	Skar	Norwegian University of Science & Technology, Trondheim, Norway	NO Norway	WG3			F
83	Karolina	Brzozowska	Szczecin University	PL Poland	WG2		ESR	F
84	Szymon	Uscinowicz	Polish Geological Institute. National Research Institute, Branch of Marine Geology, Gdansk	PL Poland	WG2	Substitute Member		M



85	Andrzej	Witkowski	University of Szczecin, Institute of Marine Sciences	PL Poland	WG2	Member		M
86	Przemyslaw	Krajewski	Department of Archaeology, Szczecin University	PL Poland	WG1		ESR	M
87	Grazyna	Miotk-Szpiganowicz	Polish Geological Institute, Gdansk	PL Poland	WG3	Member		F
88	Paulina	Kubacka	Heritage Management Office, Szczecin	PL Poland	WG4		ESR	F
89	Selma	Gabriel	CIMA - Universidade do Algarve	PT Portugal	WG3		ESR	F
90	Ursula	Paczek	Institute of Geology, Gdansk	PL Poland	WG2			F
91	Leandro	Infantini	Faculdade de Ciências Humanas e Naturais, Universidade do Algarve	PT Portugal	WG3		ESR	M
92	Joao	Marreiros	Universidade do Algarve, Fundação para a Ciência e Tecnologia	PT Portugal	WG3		ESR	M
93	Nuno	Bicho	Universidade do Algarve, Dept. of History, Archaeology and Heritage	PT Portugal	WG1	Member		M
94	Ana	Gomes	CIMA - Universidade do Algarve	PT Portugal	WG2		ESR	F
95	Delminda	Moura	Universidade do Algarve, Faculty of Marine Sciences and Environment	PT Portugal	WG2	Member		F
96	Glicherie	Caraivan	National Institute of Marine Geology and Geoecology, Constanta Branch	RO Romania	WG2	Member		M
97	Valentina	Voinea	Museum of National History & Archaeology, Constanta	RO Romania	WG1		ESR	F
98	Sorin	Anghel	National Institute of Geology and Geoecology Marine-GeoEcoMar, Bucharest	RO Romania	WG3	Substitute Member		M
99	Dragos	Ene	National Institute of R&D for Optoelectronics INOE 2000	RO Romania	WG3	Substitute Member	ESR	M
100	Dumitrel	Pandrea	National Institute for R & D for Optoelectronics	RO Romania	WG3	Member		M
101	Vadim	Sivkov	Shirshov Institute of Oceanology	RU Russia	WG2	Member		M
102	Lars	Larsson	University of Lund, Department of Archaeology and Ancient History	SE Sweden	WG1	Member		M

103	Björn	Nilsson	Södertörns University, Maritime Archaeology Research Institute	SE Sweden	WG1			M
104	Arne	Sjöström	University of Lund, Department of Archaeology and Ancient History	SE Sweden	WG1	Member	ESR	M
105	Olena	Smyntyna	Odessa I.I. Mechnikov University, Department of Archaeology and Ethnology	UA Ukraine	WG1	Member		F
106	Valentina	Yanko-Hombach	Odessa I.I. Mechnikov University, Center of Geoarchaeology, Marine and Environmental Geology	UA Ukraine	WG2	Member		F
107	Jonathan	Benjamin	University of Edinburgh, School of History, Classics, and Archaeology	UK	WG1		ESR	M
108	Fraser	Sturt	University of Southampton, Department of Archaeology	UK	WG1		ESR	M
109	Geoff	Bailey	University of York, Department of Archaeology	UK	WG1	<b>Chair</b>		M
110	Helen	Farr	University of Southampton, Department of Archaeology	UK	WG2		ESR	F
111	Kieran	Westley	Centre for Maritime Archaeology, University of Ulster	UK	WG2		ESR	M
112	Nicholas	Flemming	National Oceanography Centre, Southampton	UK	WG2	Member		M
113	Clive	Finlayson	Gibraltar Museum	UK	WG1			M
114	Simon	Fitch	University of Birmingham, Institute of Archaeology and Antiquity	UK	WG3		ESR	M
115	Ruth	Plets	University of Ulster, Centre for Maritime Archaeology	UK	WG3		ESR	F
116	Rory	Quinn	University of Ulster, Centre for Maritime Archaeology	UK	WG3	Substitute Member		M
117	Vince	Gaffney	University of Birmingham, Archaeology and Antiquity	UK	WG4			M
118	Garry	Momber	Hampshire & Wight Trust for Maritime	UK	WG4			M

			Archaeology					
<b>119</b>	Caroline	Wickham-Jones	University of Aberdeen, Department of Archaeology	UK	WG4	Substitute Member		F
<b>120</b>	Julie	Satchell	Hampshire & Wight Trust for Maritime Archaeology	UK	<b>WG4 Chair</b>	Substitute Member	ESR	F

**I.B. Management Committee member list**

<i>Name</i>	<i>Country</i>	<i>E-mail</i>
Jean-Pierre Hermand	Belgium	Jean-Pierre.Hermand@ulb.ac.be
Marcel Otte	Belgium	Marcel.otte@ulg.ac.be
Preslav Peev	Bulgaria	peev@io-bas.bg
Irena Radic Rossi	Croatia	irradic@unizd.hr
Slobodan Miko	Croatia	smiko@hgi-cgs.hr
Ole Grøn	Denmark	olegron.lmr@gmail.com
Anders Fischer	Denmark	andersfischerkalundborg@hotmail.com
Thijs Maarleveld (subs.)	Denmark	t.maarleveld@hist.sdu.dk
Alar Rosentau	Estonia	alar.rosentau@ut.ee
Aivar Kriiska	Estonia	aivar.kriiska@ut.ee
Gilles Lericolais	France	gilles.lericolais@ifremer.fr
Laurent Carozza	France	<a href="mailto:laurent.carozza@univ-tlse2.fr">laurent.carozza@univ-tlse2.fr</a>
Friedrich Lueth	Germany	lueth@rgk.dainst.de
Jan Harff	Germany	jan.harff@io-warnemuende.de
Achim Wehrmann (subs.)	Germany	achim.wehrmann@senckenberg.de
Hauke Joens (subs.)	Germany	joens@nihk.de
Aikaterini Dellaporta	Greece	katerinadellaporta@yahoo.com
Dimitris Sakellariou	Greece	sakell@ath.hcmr.gr
Frank McDermott	Ireland	frank.mcdermott@ucd.ie
Ehud Galili	Israel	udi@israntique.org.il
Avraham Ronen	Israel	arch@research.haifa.ac.il
Fabrizio Antonioli	Italy	fabrizio.antonioli@enea.it
Francesco Chiocci	Italy	francesco.chiocci@uniroma1.it
Valdis Berzins	Latvia	valdis-b@latnet.lv
Laimdota Kalnina	Latvia	Laimdota.Kalnina@lu.lv
Gytis Piliciauskas	Lithuania	gytis.piliciauskas@gmail.com
Vladas Zulkus	Lithuania	vladas.zulkus@ku.lt
Algirdas Girininkas (subs.)	Lithuania	algisg@post.skynet.lt
Timmy Gambin	Malta	tgambin@hotmail.com
Hans Peeters	Netherlands	J.H.M.Peeters@rug.nl
Henk Weerts	Netherlands	H.Weerts@cultureelerfgoed.nl
Håkon Glorstad	Norway	hakon.glorstad@khm.uio.no
Jostein Gundersen	Norway	jostein.gundersen@marmuseum.no
Grazyna Miotk-Szpiganowicz	Poland	grazyna.miotk-szpiganowicz@pgi.gov.pl
Andrzej Witkowski	Poland	witkowsk@univ.szczecin.pl
Szymon Uscinowicz (subs.)	Poland	szymon.uscinowicz@pgi.gov.pl
Delminda Moura	Portugal	dmoura@ualg.pt
Nuno Bicho	Portugal	nbicho@ualg.pt
Glicherie Caraivan	Romania	glicheriecaraivan@yahoo.com
Dumitrel Pandrea	Romania	dumitrelpandrea@yahoo.com
Dragos Ene (subs.)	Romania	dragos@inoe.inoe.ro
Sorin Anghel (subs.)	Romania	soanghel@geoecomar.ro
Miquel Canals	Spain	miquelcanals@ub.edu
Pablo Arias	Spain	pablo.arias@unican.es
Lars Larsson	Sweden	lars.larsson@ark.lu.se
Arne Sjöström	Sweden	arne.sjostrom@ark.lu.se
Julien Beck	Switzerland	julien.beck@unige.ch
Flavio Anselmetti	Switzerland	flavio.anselmetti@geo.unibe.ch
Valentina Yanko-Hombach	Ukraine	valyan@onu.edu.ua
Olena Smyntyna	Ukraine	smyntyna_olena@onu.edu.ua
Geoffrey Bailey	UK	geoff.bailey@york.ac.uk
Nicholas Flemming	UK	n.flemming@sheetsheath.co.uk
Rory Quinn (subs.)	UK	RJ.Quinn@ulster.ac.uk
Caroline Wickham-Jones (subs.)	UK	c.wickham-jones@mesolithic.co.uk
Julie Satchell (subs.)	UK	julie.satchell@hwtma.org.uk

## ***I.C. Overview activities and expenditure***

## ***II. Scientific Report prepared by the Chair of the Management Committee of the Action (same layout as in the Monitoring Progress Report)***

### **Introduction**

This report is in two parts.

1. *Results versus Objectives* (as originally specified in the Memorandum of Understanding [MoU]), in which we summarise the *core aims* [MoU 'Primary Objective'] of the Action, and map out the relationship between (a) the *specific objectives* [MoU 'Secondary Objectives'] (b) the *research tasks and working activities*, (c) the *deliverables*, and (d) the *actual outcomes*, highlighting particular success stories.
2. Summary of achievements according to the COST evaluation template under the headings of (a) *Innovative Networking – new knowledge, socio-economic impact, new research programmes*; (b) *Inter-disciplinary Networking*; and (c) *New networking – membership of Action, publications, outreach*.

More detail of meetings, agendas, reports and deliverables is on the SPLASHCOS website at [www.splashcos.org](http://www.splashcos.org) (password access required for some data) and in the Appendices to this Report.

### **Section 1**

### **Results v Objectives**

#### **Key Aims**

- Promote the investigation of the submerged landscapes of Europe (and beyond), as a new discipline spanning and integrating research in three main areas: marine geoscience – sea-level, climate, palaeoenvironment, geology; social-science – archaeology and human impact; and policy-relevant research – heritage-management, industrial exploitation and legal aspects
- Stimulate research collaboration across disciplinary and national boundaries and the creation of a critical mass of specialists
- Engage a wider constituency of commercial and governmental agencies and a wider public interested in the offshore and underwater environment

#### **Activities and Funding**

Please note that several activities will continue after COST funding.

Funds were dedicated to three main activities: *meetings* (which took up the lion's share of funding), *training*, and *publication/dissemination*. The primary network steering activities were the 6-monthly meetings of the Management Committee. These were combined with Working Group Meetings, ESR-led sessions and think tanks, and meetings of the Deukalion Planning Group (DPG), to encourage maximum synergy and efficient use of funds. The DPG is the godfather of SPLASHCOS and continues to exist as a small group within SPLASHCOS, focussed on strategic research planning.

Eight meetings (excluding the kick-off/1<sup>st</sup> Management Committee meeting in Brussels) were held in: York, Rhodes (2010), Berlin, Zadar (2011), Amersfoort, Rome (2012), Esbjerg, Szczecin (2013). Meetings were held over 2 or 3 days with an average attendance of 56 and a range of 39–73 (excluding Szczecin). Most meetings involved verbal PowerPoint presentations by SPLASHCOS members around particular themes, sometimes with external invited speakers. For example, the Rhodes Meeting initiated formation of regional groups to discuss trans-national and trans-disciplinary research within marine basins (North Sea, Baltic, Mediterranean, Black Sea); the Rome meeting focussed on sea-level change; the Esbjerg meeting was combined with an open workshop on collaboration with offshore industry; and Szczecin has been designed

as an open meeting.

Small meetings were also convened of *ad hoc* working groups to progress databases on archaeological sites (WG1), submerged landscapes data (WG2), both drawing on external links and expertise, and formulation of trans-national, regional research themes.

Six Training Schools were funded: in Estonia (Palaeo Sea-Level Modelling x 2); Israel (Underwater Excavation at Atlit Yam); Spain (Underwater Geoacoustic Modelling), Malta (Underwater Recording and Conservation); Rhodes (Remote Sensing of Submerged Landscapes), and individual Short Term Scientific Missions (STSMS), providing experience and training to 65 Early Stage Researchers

## **MoU Objectives (O), Research Tasks (RT) and Deliverables (D), versus Results (R)**

Note that Objectives and Research Tasks are numbered in the MoU and below, are closely correlated, and imply deliverables that are not explicit in the MoU, but are made explicit in the Results below. Other deliverables specified in the MoU extend well beyond Os and RTs, and their results are also listed below. Note that the wording of Objectives, Research Tasks and Deliverables is quoted directly from the MoU.

**O1/RT1.** Establish current state of knowledge on submerged prehistoric (Stone Age) archaeological finds on European Continental Shelf (Working Group 1)

**R1. SPLASHCOS viewer.** This is a simple database of known submerged sites and finds, and their age, location, condition etc. It is organised by Member State. Close to completion. Awaiting data from a small number of States. Dissemination will be web-based via the **EU Geo-Seas** network, and on the SPLASHCOS website.

**R2. WG1 Volume. Fischer, A., Peeters, H.P., Lueth, F., Bailey G.** (Eds). Forthcoming. *Submerged Landscapes of the European Continental Shelf: Vol. 2. Atlas of Prehistoric Archaeology*. Wiley-Blackwell. Contract signed. Publication anticipated in 2014. Publisher proposes web-based backup to allow updating of material with new discoveries. Short texts, supported by photographs, organised by Member State, but with editorial linking texts and synthesis providing integration by marine basin and overall synthesis.

**R3. Szczecin Conference Final Publication** (Final Action Conference proceedings, anticipated)

**O2/RT2.** Establish conditions for the survival and visibility of prehistoric archaeological materials in different types of geological and oceanographic conditions and in different geographical regions of the shelf (Working Group 2).

**R1. WG2 Volume. Flemming, N., Moura, D., Harff, J.** (Eds.). Forthcoming. *Submerged Landscapes of the European Continental Shelf: Vol. 1. Quaternary Palaeoenvironment*. Wiley-Blackwell. Companion volume to WG1 volume. Publisher Wiley-Blackwell. Publication anticipated in 2014. Chapters by members, organised by marine basin, with editorial synthesis and integration by marine basin and overall synthesis.

**R2. Szczecin Conference Final Publication** (Final Action Conference proceedings, anticipated)

**O3/RT3.** To create an infrastructure of knowledge about the types of information available or needed from the natural sciences about the environmental and topographic character of the terrestrial landscape when sea level was lower than the present.

**R1. WG2 Volume.** See above

**R2. Organisation of database with links to EU EMODNET network.** In progress

**O4/RT4.** To identify centres of expertise, laboratories, skills, equipment, technical support, and training opportunities, and to facilitate inter-institutional, interdisciplinary and international collaboration (Working Group 3.)

**R1. (a) Methods document, (b) Compilation of laboratories and resources.** Both completed and ready to be disseminated on the SPLASHCOS website

**R2.** For facilitation of collaboration, see later deliverables and project/grant list (Appendix 2)

**O5/RT5.** To encourage and develop cooperation and collaboration with commercial and industrial organisations in sharing and monitoring of data and to explore wider outreach activities (Working Group 4)

**R1. Esbjerg Open Workshop** with North Sea Offshore Industry

**R2. Booklet on industrial collaboration.** Ready for dissemination on SPLASHCOS website, and by other means (Appendix 3).

**R3. Specific projects** in progress and/or completed. See project/grant list (Appendix2)

**RT6.** To develop a communication strategy for outreach to the public sector including heritage agencies, the governmental sector and a wider public (Working Group 4).

**R1. Communications strategy on internal SPLASHCOS web.**

**R2. Wide range of disseminations by members.** (Appendix 4, Appendix 5)

**R3.** Education outreach through international collaboration in **EU Inter-Reg** funded **Two Seas** and **Arch-Manche** Projects. See project/grant list (Appendix 2, projects 1 and 12).

**O6/RT7.** To evaluate the potential significance of such data in illuminating key developments in the early history of human settlement and society in Europe before the establishment of modern sea level about 6000 years ago, with recommendations for future projects

**R1. WG1 volume.** See above

**R2. Other conference presentations and publications** (See Appendix 2, Appendix 5)

**R3. Reports of regional research groups.**

**R4. Szczecin Conference Final Publication** (anticipated, see Appendix 1)

**RT8.** To bring this longer term perspective to bear on present and future problems of sea-level change and their social impact.

**R3. Szczecin Conference Final Publication** (anticipated, including CoPaF and other initiatives)

## **OTHER DELIVERABLES**

**D1.** Establish the field as a recognised research theme in FP7.

**R1.** Through Member contacts with DG MARE, we secured a final call of the FP7 Environment Programme, *ENV.2012.6.2-6 Development of advanced technologies and tools for mapping, diagnosing, excavating, and securing underwater and coastal archaeological sites* (Appendix 6)

**R2.** Provided momentum for establishment of new Working Group (SUBLAND) of the ESF Marine Board (<http://www.marineboard.eu/about>), chaired by a SPLASHCOS Member (N Flemming), with a brief to report by end of 2014, likely to be influential in wording of Horizon 2020 calls.

**R3.** Established contacts with the cabinet of DG MARE Commissioner (M Damanaki). Discussions ongoing.

**D2.** Establish a range of fundable research projects with some prioritisation based on intellectual significance, feasibility, urgency, and availability of research partners.

**R1.** Actual proposals have been submitted, many have been funded. See grants/projects (Appendix 2)

**R2. Reports of of the regional research groups,** contain additional ideas for fundable research projects. Available on the internal SPLASHCOS website.

**D3.** Facilitate at least one major FP7 funding application.

**R1. Five applications worth ~€15 million** were submitted for the FP7 2012 call, of which one was successful, worth~€3 million (Appendix 2)

**D4.** Facilitate at least two other major funding applications to national or international funding bodies.

**R1. 22 other funding applications were submitted,** 11 to EU funds, of which 7 were successful, worth €11.4 million, and 16 applications to national or bilateral funders, of which 13 were successful worth €7.9 (Appendix 2)

**D5.** Produce guidance and a set of recommendations about the potential for occurrence, preservation and discovery of submerged prehistoric archaeology, of use to all relevant parties including specialists, National

and State regulatory authorities, and heritage professionals.

**R1. One of the planned outcomes of the SeArch Research Project** (Appendix 2, Project 6), at Belgian-Netherlands level, to be promoted as good practice elsewhere

**D6.** Produce a directory of skills, expertise, institutes, and equipment that can be used in research planning.

**R1. Web-based document**, prepared and ready to be put on the SPLASHCOS website

**D7.** Produce a directory of international expertise and academic advice that can be used by regulatory authorities concerned with commissioning, licensing and monitoring the impact of offshore commercial operations.

**R1.** See D6 above.

**D8.** Produce a guide to contacts with industry and availability of archived data produced by commercial operations.

**R1. Booklet on Industrial Collaboration** (Appendix 3)

**R2. Commercial archived data:** Because of confidentiality issues and inaccessibility, we have not pursued this objective, except indirectly through R1, and through O3/RT3 (see above)

**D9.** Produce at least four technical reports providing a strategic overview of research potential in different sectors of the European shelf and at least one report synthesising results across the whole of Europe with an assessment of current levels of knowledge and expertise, intellectual problems to be solved, and research strategies to solve them.

**R1. WG1 and WG2 edited volumes**

**R2. Reports of Regional research groups**

**D10.** Produce at least four publications in international refereed journals.

**R1. Three books and 40 publications**, majority refereed papers in journals or refereed chapters in edited books (Appendix 1)

**D11.** Produce at least one major edited book to be published by an academic publishing house.

**R1. Six edited volumes produced or in preparation:** (1) The Oxbow volume on Submerged Prehistory; (2 and 3) the Wiley-Blackwell WG1 and WG2 volumes; (4) the Geological Society special volume, based on the IGC Brisbane conference; (5) the Szczecin conference volume; (6) (provisionally), a publication from the Esbjerg conference (see Appendix 1).

**D12.** Develop at least two cooperative ventures with industrial and commercial companies.

**R1.** Collaboration of H. Weerts, A. Otte, with Port of Rotterdam (Appendix 2, project 16)

**R2.** Collaboration of H. Glorstad Norway, with Volcanic Basin Petroleum Research AS (VBPR) in North Sea project exploring the Northern rim of Doggerland.

**R3.** Collaboration of B. Nilsson with MARIS in Sweden.

**R4.** Collaboration of O. Grøn with wind farm companies in North Sea.

**D13.** Establish at least one Training School and possibly one Marie Curie Early Stage Training Centre in an appropriate institution, subject to guidance from Early Stage Researchers who are members of the Action about what they believe would be most useful, and subject to positive responses from potential host [institutions].

**R1. 6 formal Training Schools:** Estonia (2), Israel, Barcelona, Malta, Rhodes (to come),

**R2. 10 STSMs** (10 individuals)

**R3. Marie Curie Training School**, application in preparation in Denmark

**R4. University Master's Training**, in preparation, Poland.

**D14.** Change the perceptions of a wider public enshrined in the popular media either that Stone Age sites once existed on the seabed but are impossible to recover, or that they comprise lost civilizations much



older than those known about on land. Difficult to measure except by the production of new media aimed at a popular audience.

**R1. Wide range of dissemination activities**, including some aimed at a wider public including exhibitions, films, talks (see Appendices 4 and 5)

**R2. Educational outreach**, via Atlas of Two Seas and Arche-Manche Projects (Appendix 2, projects 1 and 12)

## Section 2

### Innovative Networking

- Innovative knowledge (Results v Objectives)  
See Section 1
- Significant scientific breakthroughs  
The field that we are developing is not yet mature enough that we can claim to have made significant scientific breakthroughs. We can claim to have made significant breakthroughs in terms of developing collaborative projects and approaches and creating a firm basis for new scientific breakthroughs.
- Tangible medium-term socio-economic impacts  
See Section 1
- Spin off of new EC RTD Framework Programmes  
See Section 1
- Spin off of new National Programmes  
See Section 1

### Interdisciplinary Networking

- Additional knowledge from working with other disciplines  
See Section 1
- Evaluation of whether interdisciplinarity is sufficient for scientific impacts  
Certainly sufficient. See Section 1
- Evaluation of whether interdisciplinarity is sufficient for socio-economic impact  
Certainly sufficient. See Section 1

### New Networking

- Number of participants. At least 120 participants.
- ESRs and gender. 45% ESRs, 30% women.
- Non-COST countries  
Ukraine, Russian Federation
- Publication and dissemination  
See Section 1
- Capacity to raise funds  
See Section 1

**III. Evaluation Report** prepared by the “ad hoc” Evaluation Panel established by the Domain Committee and edited by the COST Office (approximately 2 pages)

1. *Evaluation panel and evaluation procedures*

List the members of the panel: *Title, name, affiliation, Tel., Fax, E-mail.*

DC ESSEM Rapporteur:

Dr. Ipek Erzi

TUBITAK

Tel.:

[ipek.erzi@tubitak.gov.tr](mailto:ipek.erzi@tubitak.gov.tr)

DC ISCH Rapporteur:

Dr. Daniela Koleva, Assoc. Professor,  
University of Sofia

Tel.: + 359 882 391 761

[daniela@sclg.uni-sofia.bg](mailto:daniela@sclg.uni-sofia.bg)

External experts:

Winthrop Professor Peter Veth, PhD FAHA FSA MAACAI

Kimberley Foundation Ian Potter Chair in Rock Art

Centre for Rock Art Research and Management

Room 1.19 Old Economics and Commerce Building

School of Social and Cultural Studies

The University of Western Australia

Tel.: W: +61 8 6488 1807

Fax: +61 8 6488 1023

[peter.veth@uwa.edu.au](mailto:peter.veth@uwa.edu.au)

Prof. Dr. Gerold Wefer

MARUM - Universitaet Bremen

Leobener Strasse

28359 Bremen

Tel.: +49-421-218 65550

Fax.: +49-421-218 65505

[gwefer@marum.de](mailto:gwefer@marum.de)

Documentation made available to the evaluation panel:

- Guidelines for Assessment, Monitoring and Evaluation of COST Actions
- Action TD0902 Memorandum of Understanding (MoU)
- Progress report of TD0902
- Final report of TD0902
- Web page of the Action <http://splashcos.org/>
- Programmes and scientific reports of the meetings and events (on the web page)
- Publications resulting from the Action

2. *Results versus objectives*

The main objective of this Action was to promote research on the investigation, interpretation and management of the submerged landscapes of the continental shelf. Based on a review of the web-hosted resources, the progress report and the reports, and

on the notes from the Szczecin conference, the panel agreed that SPLASHCOS was exemplary in hosting eight meetings, six training schools, an ambitious publication and media campaign and myriad other networking actions and resources such as codes of conduct for heritage encountered by marine-resource users. Uptake in participation was very high with 25 Member States comprising 160 participating members and 55 members on the management committee. Specific outputs included a) 23 successful grant applications worth €20M; b) 5 edited volumes (published, in press and in prep) on submerged landscapes and 43 other substantive publications; and c) three web-based directories. An edited volume on submerged prehistory with Oxbow has been completed (Benjamin et al. 2011) while two focusing on archaeological data and interpretations and environmental data and reconstructions are with Wiley-Blackwell.

An audit and categorisation on the current state of knowledge about the existence, location, and chronological range of prehistoric (Stone Age) archaeological finds on the European Continental shelf has been completed. A database with 270 papers has been compiled and nearly 2,437 sites logged on the SPLASHCOS Viewer. An evaluation of the conditions for the survival and visibility of prehistoric archaeological materials in different types of geological and oceanographic conditions and in different geographical regions of the shelf has been completed. Major substantive outputs include a volume on submerged landscapes of the European shelf (Fisher et al.) and a volume on Quaternary palaeo-environments (Flemming et al in prep). A Methods document has been authored and an exhaustive compilation (census) of all laboratories, skills, equipment, technical support, and training opportunities completed. Offshore industry workshops have been held; with a communication strategy and set of resources developed for off-shore resource, mining, construction and fishing operators. Suites of sites spanning the Middle to Upper Palaeolithic; Mesolithic; Neolithic (and indeed later settlements drowned due to tectonic instability and so forth) have been logged. These span the period from hominin dispersal across the Red Sea from Africa to more recent maritime innovation and settlement across the British Isles and Baltic Sea rim. Over 25 extant and future projects to recover high quality palaeo-landscape and archaeological studies were profiled in the Final Report and the reports of the four Working Groups at the final conference. The significance of drowned cultural landscapes; the need to manage and mitigate these where development is mooted; and their sometimes extraordinary archaeological significance have been ably demonstrated. The targeted end users: academic and research communities, archaeologists, historians, geographers, marine geologists, geophysicists, environmental scientists and palaeoclimatologists; commercial and industrial enterprises; government agencies concerned with the management and monitoring of the underwater cultural heritage and the licensing of environmental impact assessments; policy makers interested in the nature and effects of future sea level change; have all been systematically included in the Action.

### *3. Innovative networking*

Innovative knowledge which resulted from COST networking through the Action included the identification of the high preservation, integrity and provenience of sites (sometimes stratified) from the Middle Palaeolithic, through the Mesolithic and Neolithic. These contained unique data sets (e.g. dietary, perishables, technological details, DNA and

isochrestic and symbolic information) not necessarily obtainable from terrestrial contexts. Significant scientific breakthroughs as part of the COST Action largely comprised the study of the preservation of sites and contiguous features (and perhaps landscapes) in low, to medium and high energy situations. This was not known to be such a major asset before this concerted Action. Tangible and important socio-economic impacts included a new knowledge base; and increased public policy, management and resource sector understandings of the presence, value and need to conserve the underwater palaeo-landscape resource. This represents a new community asset and economy and indeed represents a new scientific alliance network.

#### *4. Inter-disciplinary networking*

The level and scale of inter-disciplinarity as a result of the COST Action was profound – and is unmatched by other research alliances (for example) in North America, Asia or Australia. The Action brought together scientists from different disciplines: geology, geophysics, archeology, etc. Much new knowledge has been generated from working with other disciplines within the COST framework, including the production of 15 chapters on regional shelf taphonomy, a volume of the proceedings of the Geological Society of London and the IGC Cairns session, noted above. The publication record is impressive, a good mixture between new findings published in specialized journals and overview articles in books or journals with a wider audience. The Action established intensive contacts with industry. Service providers are now providing underwater geophysics to archaeologists in unprecedented volume (and see 5, below). In addition, the Action was successful in wider public outreach.

#### *5. New networking*

The Action included institutions hitherto not involved in large international projects, especially from the new member states of the European Union. SPLASHCOS resulted in over 160 members from 25 countries participating and this increased yearly. 55 MC members were involved in the 4 Working Groups of the Action. On available figures over one-third of members were Early Stage Researchers (ESR) with over 40% comprising female researchers. Multiple field schools provided invaluable training for young scientists. The completion of a Directory of Expertise, and auditing of the scientific capacity of these facilities, provides a major resource for future collaborative underwater research and management studies.

This COST Action has shifted EU attitudes to submerged heritage. Posters, leaflets, booklets, six television presentations/programs and the highly effective web site (and ancillary resources) have effectively profiled the issue globally, including in Oceania.

The Action has been highly successful in attracting new funding from national and international bodies, including the competitive ERC and FP7 Cooperation Programme. With 23 successful projects out of 32, the members of the Action have attained an impressive success rate.

#### *6. Coordination and management*

The Action Chair, Core Group and Management Committee appear to have exercised outstanding governance. They had an excellent communication strategy; and lead by example with respect to publication, grants writing, workshops, developing resources and mentoring of early career researchers (across the genders). In addition, the project management team did a great job in giving new groups the opportunity to be involved in larger coordinated programmes and gain experiences in working together in international and interdisciplinary projects.

#### *7. Strengths and weaknesses*

All deliverables at Section C of the MoU have been met and even surpassed.

Strengths:

- The Action has achieved a real scientific breakthrough in establishing a new interdisciplinary research field, developing its major concepts and methodologies, and mapping out its prospects for development and impact.
- There has been a qualitative shift in the engagement, awareness, pro-activeness and collaborative behaviours of policy makers and land-users as a result of, and during the tenure of, the COST Action. From English Channel dredgers to Rotterdam harbour works - submerged heritage now matters. The public communications strategy, inventory of expertise and published proceedings are exemplary.

Weaknesses:

- The Action would have benefitted from more explicit discussion of the potential of underwater sites to provide behavioural models of settlement-subsistence strategies. The potential to profile unique coastal adaptations which may not be replicated in terrestrial analogues was under-realised as a social science enterprise. The logistical dominance of geophysics was apparent.
- Despite repeated attempts, the Action failed to recruit participants from some coastal countries such as Finland, Slovenia and Turkey.

### ***IV. DC General Assessment prepared by the Domain Committee***

The SPLASHCOS Action has achieved a real breakthrough in establishing a new interdisciplinary research field, developing its major concepts and methodologies, and mapping out its prospects for development and impact.

Specific outputs included a) 23 successful grant applications worth €20M, including the competitive ERC and FP7 Cooperation Programme; b) 5 edited volumes on submerged landscapes and 43 other substantive publications; and c) three web-based directories. An audit and categorisation on the current state of knowledge about the existence, location, and chronological range of prehistoric archaeological finds on the European Continental shelf has been completed and 2,437 sites have been logged on the SPLASHCOS Viewer.

The Action has resulted in developing a strong network of over 160 members from 25 countries including institutions hitherto not involved in large international projects, especially from the new member states of the European Union.

The Action has achieved a breakthrough in raising the awareness of the value and need to conserve underwater palaeo-landscapes as a new community asset. It has been instrumental in fostering relevant cultural heritage policies. Posters, leaflets, booklets, six television presentations/programs and the highly effective web site (and ancillary resources) have effectively profiled the issue globally. It would not be an exaggeration to say that this COST Action has shifted attitudes to submerged heritage in the EU and has had a positive global impact.

## COST Action TD0902 SPLASHCOS. Appendix 1: List of Publications

### Scientific Publications\*

Selection only, with emphasis on publications emphasising collaborations arising from SPLASHCOS or with acknowledgement to SPLASHCOS. SPLASHCOS members' names in bold.

#### Major Publications initiated and/or funded by the SPLASHCOS Action

**Bailey et al.** Forthcoming. *Under the Sea: Archaeology and Palaeolandscapes* (provisional title). Szczecin Final Publication. Discussion in progress with Springer.

**Benjamin, J.**, Bonsall, C., Pickard, C., **Fischer, A.** (eds.). 2011. *Submerged Prehistory*. Oxford: Oxbow, xiii, 338p.

**Fischer, A. et al.** (Eds). Forthcoming. *Submerged Landscapes of the European Continental Shelf: Vol. 2. Atlas of Prehistoric Archaeology*. Wiley-Blackwell

**Flemming, N., Moura, D., Harff, J.** (Eds.). Forthcoming. *Submerged Landscapes of the European Continental Shelf: Vol. 1. Quaternary Palaeoenvironment*. Wiley-Blackwell

**Harff, J., Bailey, G. & Lueth, F.** (Eds.). Forthcoming. *Geology and Archaeology: Submerged Landscapes of the Continental Shelf*. Geological Society Special Publication.

**Maarleveld, Th.** (Ed.). Forthcoming. *Submerged Prehistoric Archaeology and Collaboration with Industry* (provisional title). Publication resulting from Esbjerg Workshop.

#### Other relevant publications by SPLASHCOS members

##### Books/Monographs

**Bicho, N.**, Haws, J., Davis, L. (eds.). 2011. *Trekking the shore: Changing Coastlines and the Antiquity of Coastal Settlement*. Springer.

**Cohen, K.**, Paco Lobo, F.J. (Eds.). Forthcoming (2013). Continental shelf drowned landscapes: submerged geomorphological and sedimentary record of the youngest cycles. Special issue of *Geomorphology*

Evans, A., Flatman, J., **Flemming, N.** (Eds). *Prehistoric Archaeology of the Continental Shelf: a Global Review*. Springer.

**Peeters, H.-P., Cohen, K.** Forthcoming (2013). *North Sea Submerged Landscapes and Prehistory: Geology, prehistoric archaeology and research potential of the southern North Sea*. Special issue of *Netherlands Journal of Geosciences*.

**Zulkus, V., Girininkas, A.** 2012. "YOLDIA". *The coasts of the Baltic Sea 10000 years ago*. Klaipeda: Klaipeda University Press. ISBN 978-9955-18-707-3.

#### Journal Articles and Chapters

##### Forthcoming, 2013

**Bailey, G.N.** 2013. Dynamic shorelines and submerged topography: the neglected variables. *Antiquity* 87 (337): 889–90.

**Bailey, G.** *New developments in submerged prehistoric archaeology: an overview*. In A. Evans, J. Flatman, N. **Flemming** (Eds). *Prehistoric Archaeology of the Continental Shelf: a Global Review*. Springer.

**Bicket, A., Firth, A., Tizzard, L., Benjamin, J.** Heritage Management and Submerged Prehistory in the United Kingdom. Forthcoming. In press. In A. Evans, J. Flatman, N. **Flemming** (Eds). *Prehistoric Archaeology of the Continental Shelf: a Global Review*. Springer.

**Joens, H., Harff, J.** Geoarchaeological research strategies in the Baltic Sea area: Environmental changes, shoreline displacement and settlement strategies. In A. Evans, J. Flatman, N. **Flemming** (Eds). *Prehistoric Archaeology of the Continental Shelf: a Global Review*. Springer.

**Krajewski, P.** 2013. Notes on the archaeology of Wolin Island in the light of changeable features of geographic environment. *Archaeologia Polona*

**Momber G.** Forthcoming. Submerged Archaeology and Cultural Responses to Climatic Amelioration. In A. Evans, J. Flatman, N. **Flemming** (Eds). *Prehistoric Archaeology of the Continental Shelf: a Global Review*. Springer.

Rodriguez-Vidal, J., **Finlayson, G.**, Finlayson, C., Negro, J.J., Caceres, L.M., Fa, D., Carrion, J.S. 2013. Undrowning a lost world – the Marine Isotope Stage 3 landscape of Gibraltar. *Geomorphology*. <http://dx.doi.org/10.1016/j.geomorph.2013.02.015>.

##### 2012

Azzopardi, E., **Gambin, T.** 2012. *Archaeology and the Sea in the Maltese Islands*. Malta, Midsea Books.

**Bailey, G.N., Sakellariou, D. & members of the SPLASHCOS network.** 2012. Submerged prehistoric archaeology & landscapes of the continental shelf. *Antiquity* 86 (334). <http://antiquity.ac.uk/projgall/sakellariou334/>

- Bailey, G.N.**, King, G.C.P., Devès, M., Hausmann, N., Inglis, R., Laurie, E., Meredith-Williams, M., Momber, G., Winder, I., Alsharekh, A., **Sakellariou, D.** 2012. DISPERSE: dynamic landscapes, coastal environments and human dispersals. *Antiquity* 86 (334). <http://antiquity.ac.uk/projgall/bailey334/>
- Bailey, G.N.**, Alsharekh, A., King, G.C.P., **Sakellariou, D.** 2012. Dynamic landscapes and human evolution: the last frontier of archaeological discovery. *Science and Technology II*: 40–41. PanEuropean Networks, 2012 (March). Subscription journal circulated to 250,000 European stakeholder in government, research and EU organisations.
- Furlani, S., **Antonioli, F.**, **Gambin, T.** et al. 2013. Late Holocene sea level changes in Malta. *Quaternary International* 288, 146–57
- Glørstad, H.**, 2013: Where are the missing boats? The pioneer settlement of Norway as long-term history. *Norwegian Archaeological Review*, 46 (1).
- Hermand, J.-P.**, **Gron, O.**, Asch, M., Ren, Q. 2012. Modelling flint acoustics for detection of submerged Stone Age sites. *Proceedings of the OCEANS'11 MTS/IEEE Kona Conference (Oceans of Opportunity: International Cooperation and Partnership across the Pacific, Institute of Electrical and Electronics Engineers, IEEE, September 2011)*.
- Maarleveld, T.** 2012. The maritime paradox: does international heritage exist? *International Journal of Heritage Studies* 18 (4): 418–431.
- Moura, D.**, **Gomes, A.**, **Gabriel, S.**, Horta, J., 2012. Mean sea level and coastline – Late Quaternary. In A. Campar Almeida, Ana M. Bettencourt, D. Moura, Sérgio Monteiro-Rodrigues, Maria Isabel Caetano Alves (Eds.). *Environmental changes and human interaction along the Western Atlantic Edge*. Coimbra: Sersilto-Empresa Gráfica, 219–26.
- Rosentau, A.**, **Harff, J.**, Oja, T., Meyer, M. 2012. Postglacial rebound and relative sea level changes in the Baltic Sea since the Litorina transgression. *Baltica* 25 (2), 113–20.
- Weerts, H.**, **A. Otte, B.** Smit, P. Vos, D. Schiltmans, W., Borst. W. 2012. Finding the needle in the haystack by using knowledge of Mesolithic human adaptation in a drowning delta. In W. Bebermeier, R. Hebenstreit, E. Kaiser & J. Krause (ed.) *Landscape archaeology. Proceedings of the International Conference held in Berlin, 6th–8th June (Journal for Ancient Studies, Special Volume 3)*:17–24. Berlin: Etopoi. Available at <http://journal.topoi.org/index.php/etopoi>.
- Zulkus, V.**, **Girinikas, A.** 2012. The 2001–2010 Investigation of the bed of the Baltic Sea. In: *Archaeological Investigations in Independent Lithuania, 1990–2010*. Vilnius, pp. 398–401. ISBN 978-9955-9913-7-3.

## 2011

- Ammerman, A., Howitt Marshall, D., **Benjamin, J.**, Turnbull, T. Underwater investigations at the early sites of Aspros and Nissi Beach on Cyprus. In J. Benjamin, C. Bonsall, C. Pickard, A. Fischer (eds). *Submerged Prehistory*. Oxford: Oxbow, pp. 263–71.
- Bailey, G.N.** Sea level change and submerged landscapes of the continental shelf. *Science and Technology I*: 98–99. PanEuropean Networks, 2011 (December). Subscription journal circulated to 250,000 European stakeholder in government, research and EU organisations.
- Bailey, G.N.**, King, G.C.P. 2011. Living with sea level change and dynamic landscapes: an archaeological perspective. In V. Badescu, R. Cathcart (eds.) *Macro-engineering Seawater in Unique Environments*. Berlin, Heidelberg: Springer, pp. 1–26.
- Bailey, G.N.** Continental shelf archaeology: where next? In J. Benjamin, C. Bonsall, C. Pickard, A. Fischer (eds). *Submerged Prehistory*. Oxford: Oxbow, pp. 311–31.
- Benjamin, J.**, et al. Investigating the submerged prehistory of the eastern Adriatic: progress and prospects. In J. Benjamin, C. Bonsall, C. Pickard, A. Fischer (eds). *Submerged Prehistory*. Oxford: Oxbow, pp. 193–206.
- Fischer, A.** 2010. SPLASHCOS, a European network on submerged prehistory. *Maritime Archaeology Newsletter* 25: 24–7.
- Fischer, A.** Stone Age on the continental shelf: an eroding resource. In J. Benjamin, C. Bonsall, C. Pickard, A. Fischer (eds). *Submerged Prehistory*. Oxford: Oxbow, pp. 298–310.
- Fischer, A.**, **Benjamin, J.**, Pickard, C., Bonsall, C. Epilogue. In J. Benjamin, C. Bonsall, C. Pickard, A. Fischer (eds). *Submerged Prehistory*. Oxford: Oxbow, pp. 332–8.
- Flemming, N.C.** Research infrastructure for systematic study of the prehistoric archaeology of the European submerged continental shelf. In J. Benjamin, C. Bonsall, C. Pickard, A. Fischer (eds). *Submerged Prehistory*. Oxford: Oxbow, pp. 287–97.
- Galili, E.**, Rosen, B. Submerged Neolithic settlements off the Carmel Coast, Israel: cultural and environmental insights. In J. Benjamin, C. Bonsall, C. Pickard, A. Fischer (eds). *Submerged Prehistory*. Oxford: Oxbow, pp. 272–86.
- Furlani, S., **Antonioli, S.**, Biolchi, S., **Gambin, T.**, Gauci, R., Lo Presti, V., Anzidei, M., Devoto, S., Palombo, M., Sulli, A. 2012. Holocene sea level change in Malta. *Quaternary International* (2012), doi:10.1016/j.quaint.2012.02.038.
- Henderson, J., Gallou, C., **Flemming, N.C.**, Spondylis, E. The Pavlopetri underwater archaeology project: investigating an ancient submerged town. In J. Benjamin, C. Bonsall, C. Pickard, A. Fischer (eds).



*Submerged Prehistory*. Oxford: Oxbow, pp. 207–18.

Le Bas, T., **Micallef, A.** and Blondel, P. (2011) Use of texture analysis techniques for digital mapping of underwater environments: The case of a submerged karstic landscape offshore Malta, European Geosciences Union Annual Meeting 2011, Vienna, Austria.

**Micallef, A.**, Foglini, F., Le Bas, T., Angeletti, L., Huvenne, V. and Taviani, M. (2011) Reconstruction of the morphology and evolution of the submerged Quaternary landscape of the Maltese Islands, HERMIONE Annual Meeting 2011, Estepona, Spain.

**Momber, G.** Submerged landscape excavations in the Solent, southern Britain: climate change and cultural development. In J. Benjamin, C. Bonsall, C. Pickard, A. Fischer (eds). *Submerged Prehistory*. Oxford: Oxbow, pp. 85–98.

**Peeters, H.** How wet can it get? – approaches to submerged prehistoric sites and landscapes on the Dutch continental shelf. In J. Benjamin, C. Bonsall, C. Pickard, A. Fischer (eds). *Submerged Prehistory*. Oxford: Oxbow, pp. 55–64.

Ren, Q-Y., **Grøn, O.**, **Hermand, J.-P.** 2011. On the in-situ detection of flint for underwater Stone Age archaeology. Submitted. Proceedings of the IEEE-OES conference Santander, 2011.

**Uldum, O.** 2011. The excavation of a Mesolithic double burial from Tybrind Vig, Denmark. In J. Benjamin, C. Bonsall, C. Pickard, A. Fischer (eds). *Submerged Prehistory*. Oxford: Oxbow, pp. 15–20.

**Westley, K.**, Bell, T., **Plets, R.**, **Quinn, R.** Investigating submerged archaeological landscapes: a research strategy illustrated with case studies from Ireland and Newfoundland, Canada. In J. Benjamin, C. Bonsall, C. Pickard, A. Fischer (eds). *Submerged Prehistory*. Oxford: Oxbow, pp. 129–44.

**Yanko-Hombach, V.** et al. Was the Black Sea catastrophically flooded during the Holocene? – geological evidence and archaeological impacts. In J. Benjamin, C. Bonsall, C. Pickard, A. Fischer (eds). *Submerged Prehistory*. Oxford: Oxbow, pp. 245–62.

## **COST Action TD0902 SPLASHCOS. Appendix 2: List of Grants**

**\* = funding application successful**

### **2012-13**

#### **EU Funding**

1. \*Garry Momber (UK, Hampshire and Wight Trust for Maritime Archaeology, HWTMA), in partnership with University of Ghent (BE), Deltares (NL) and Centre de Recherche en Archéologie, Archéosciences, Histoire (CReAAH, FR). *Arch-Manche – Archaeology, Art and Coastal Heritage: tools to support coastal management and climate change planning across the Channel Regional Sea*. Interreg IVa. 2011–2014. €1.6 million, plus matched funding.

#### **National or Bilateral**

2. \*Anders Fischer (DK). Publication of *Submerged Landscapes of the Continental Shelf : an Atlas of Prehistoric Archaeology*. Danish Cultural Heritage Agency. €80,000.
3. \*Hauke Jöns (DE). *Submerged Settlement and Cultural History of the Lower Saxon Wadden Sea*. 3-year project for interdisciplinary research. Funded by the Ministry of Science and Culture of the Federal State of Lower Saxony, Germany. €0.5 million.
4. \*Hristina Angelova (BG) & M. Özdoğan (TR). IPA Cross-Border Programme, *Cross-border Cooperation for Capacity Development in the Field of Archaeological Heritage (CrossCoopArch)*, Joint Bulgarian-Turkish initiative on the Black Sea coast. €127,310.
5. \*Vladas Zulkus (Lithuania). *Early Holocene Natural and Cultural Landscape Research at the Bottom of the Baltic Sea*. Research Council of Lithuania. €52,103
6. \*Håkon Glorstad (NO). *Coastal Communities of the Past and the Future Global Challenges – Nordic answers*. for networking and preparation for ERC Application. NOS-HS (Nordic Minister Council). €31,000 (240 000 NOK). Pending.
7. \*Tine Missiaen. *SeArch, Archaeological Heritage in the North Sea*, 2013–2016. Belgian-Netherlands initiative. Funded by Belgian Agency for Innovation by Science and Technology. €2 million
8. Tine Missiaen. TILES (Transnational and Integrated Long-term Marine Exploitation Strategies) Partners: Royal Belgian Institute of Natural Sciences (coordinator), Ghent University (T. Missiaen), TNO/Geological Survey of the Netherlands Funding Agency: Belgian Federal Science Policy Office (BELSPO). €1,043,393. Pending.

### **2011-2012**

#### **EU Funding: FP7 Environment Call 6.2-5**

9. Jonathan Benjamin (UK), Otto Uldum (DK), Ehud Galili (IL), Smiljan Gluscevic (HR), Fabrizio Antonioli (IT), Birgitte Skar (NO). SPARCS: Submerged Prehistoric Archaeological Resources on Europe's Continental Shelf (SPARCS): Technology and innovation for present and future research and management (FP7 Environment Call: ~€3 million).
10. Ole Grøn (DK), Jean-Pierre Hermand (BE), Pablo Arias (ES). AKUMAP: Acoustic System for Mapping of Submerged Stone Age Sites, in collaboration with the Autonomous University of Barcelona and the Spanish Council for Scientific Research. (FP7 Environment Call: ~€3 million).
11. Vince Gaffney (UK). ARTEMISE: Archaeo-geophysical Remotely Operate Vehicle to Explore and Map in Submerged Environments, in collaboration with scientific partners in France, Sweden, the Czech Republic and Slovenia, and industrial partners in Austria. (FP7 Environment Call: ~€3 million).
12. Proposal coordinated by Deltares Institute (NL), with input of SPLASHCOS members from BE, IL and UK. PRIMCESA: Prospection, Investigation and Management of Coastal European Submerged Archaeology. (FP7 Environment Call: ~€3 million).
13. \*Proposal coordinated by the National Museum of Denmark with input from SPLASHCOS members from DK. SASMAP: Survey Assess, Stabilise, Monitor and Preserve underwater archaeological sites. €2.23 million

#### **Other EU Funding**

14. \*Garry Momber (UK): 'Atlas of the Two Seas', a joint project between Belgian, UK and French underwater archaeologists and funded by InterReg IVa (50% matched funding from the ERDF), 2009–2012; with SPLASHCOS representation from UK and Belgium (BE). €2.8 million.
15. \*Glicherie Caraivan (RO) 'Investigation of Submarine Groundwater Discharge of the Coastal Sea', 2011–2012, as part of the ERANET programme, SPLASHCOS representation from Romania (RO) and Greece (GR), plus German and Georgian partners, €191,000.

16. \*Glicherie Caraivan (RO) 'Comparative Palaeoecology and Geoarchaeology of the Varna and Mamaia Lakes' (EGAL), 2011–2012, SPLASHCOS representation from Romania (RO) and Bulgaria (BG), €40,000.
17. \*Glicherie Caraivan (RO) HERAS, Submarine Archaeological Heritage of the Western Black Sea Shelf, 2012–, SPLASHCOS representation from Romania (RO) and Bulgaria (BG), €1.23 million

#### **National or Bilateral Funding including commercial collaboration**

16. \*Henk Weerts and Andrea Otte (NL): Port of Rotterdam for archaeological research in advance of expansion, 2007–2013, mostly to investigate a known submerged Mesolithic site at 17–21m depth and potential Palaeolithic landscapes and sites at 20–35m depth, with participation of NL SPLASHCOS members. €3 million.
17. \*Andrzej Witkowski (PL): 'Archaeological and palaeoenvironmental research on submerged landscapes in the Odra River Lagoon and the Pomeranian Bay' : for post-docs and PhDs for Polish cross-border collaboration, with a parallel application to German funding sources (Jan Harff, DE). €0.32 million
18. Dimitris Sakellariou (GR) :MARGEOARCH (Marine Geoarchaeology), application to the Greek Ministry of Education, collaboration with Greek (GR) and UK SPLASHCOS members. €0.6 million.
19. Jan Harff (DE): involved in a call within the frame of the EU BONUS (2011–2017) programme launched in December 2011 with a second call in 2012 for a 5-year project in the Baltic Area including a research theme on coasts, most probably with participation from SPLASHCOS members from several Baltic countries. Pending
20. \*Håkon Glorstad (NO): 'The Pioneer settlement of Northern Europe', funding for infrastructure and 3 PhD studentships to investigate the pioneer settlement of Norway including research on submerged landscapes, part of a larger research project aimed at the University museums in Norway and funded by the ministry of Research, 2012–2015. Includes Jostein Gundersen and Birgitte Skar from SPLASHCOS. €1.7 million.
21. Jean-Pierre Hermand (BE) and Ole Grøn (DK). 5-year project to develop geoacoustic techniques for the analysis of sediments on archaeological sites. €1.5 million. Pending

#### **2010-2011**

##### **EU Funding**

22. G. Bailey (UK): 5-year ERC Advanced Grant. €2.55 million: *DISPERSE: Dynamic Landscapes, Coastal Environments and Human Dispersals*, including major work on exploration of the submerged landscapes of the southern Red Sea in collaboration with other SPLASHCOS members, Dimitris Sakellariou, Garry Momber. . €2.55 million:

##### **National Funding**

23. \*H Glorstad and J. Gundersen (Norway): 1.4 million NOK (€0.18 million) from the Norwegian Water Resources and Energy Directorate to investigate the Norwegian continental shelf.
24. \*T. Missiaen (Belgium): funding of 4-year project on *Archaeological exploration across the land-sea boundary in the Doelpolder Noord area (Westerschelde estuary): the impact of sea-level rise on the landscape and human occupation, from prehistory to medieval times*. Funded by the Flanders Research Foundation (Fonds voor Wetenschappelijk Onderzoek - FWO). €596.000.
25. \*O. Grøn (Denmark): won sponsorship from J.D.Contractors (Denmark's largest diving firm) to develop a geological-archaeological project in the Danish North Sea Sector in collaboration with the University of Southern Denmark and the Maritime Museum of Torsminde. Other details?
26. P. Arias, M. Canals (Spain): proposal to the Spanish RTD Program on investigation of the submerged landscapes of the Cantabrian shelf. No further details
27. \*C. Wickham-Jones (UK): Leverhulme Trust, *Peopling the Landscape of Doggerland: the case study of Orkney*. No further details.

#### **Summary**

EU Funding. 11 Applications

Successful €11.4 million (7 applications)

Unsuccessful €12 million (4 applications)

National/Bilateral. 17 applications

Successful €7.99 million (minimum) 14 applications

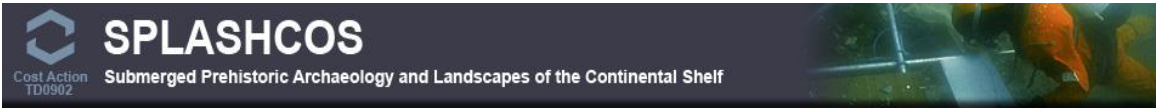
Unsuccessful or unreported (3)

## **COST Action TD0902 SPLASHCOS. Appendix 3: Guide to Industry**

Available online at:

<http://www.splashcos.org/outreach/collaboration>

[http://www.splashcos.org/sites/splashcos.org/files/downloads/SPLASHCOS\\_Marine\\_Industry\\_Guide.pdf](http://www.splashcos.org/sites/splashcos.org/files/downloads/SPLASHCOS_Marine_Industry_Guide.pdf)



**Submerged Prehistoric Archaeology and Landscapes of the  
Continental Shelf (SPLASHCOS)**

**COMMUNICATION STRATEGY IMPLEMENTATION REVIEW**

**Contents**

1. Background..... 30

2. Summary of Target Audiences..... 30

3. Results..... 31

    3.1 Publications ..... 31

    3.2 Conferences and Exhibitions..... 31

    3.3 Lectures and Meetings..... 32

    3.4 Poster and Leaflet..... 32

    3.5 Website, Social Media & TV..... 32

## 1. 1. BACKGROUND

This report is a review of the Communication Strategy for the COST Action TD902 'Submerged Prehistoric Archaeology and Landscapes of the Continental Shelf' (SPLASHCOS). It summarises the key aims of the project dissemination before reviewing the results gained.

The project Memorandum of Understanding (MoU) identified the following target groups and end users:

The results of the Action are expected to reach out to a wide range of end users: in the academic and research communities, archaeologists, historians, geographers, marine geologists, geophysicists, environmental scientists and palaeoclimatologists; commercial and industrial enterprises involved in exploitation of the submerged shelf; government agencies concerned with the management and monitoring of the underwater cultural heritage and the licensing of environmental impact assessments conducted in advance of potentially destructive commercial activity; policy makers interested in the nature and effects of future sea level change, and a wider public interested in the deeper roots of their own history and identity and fascinated by the archaeological enterprise of revealing a hidden underwater world that has been lost beneath the rising waters of major postglacial sea level rise.

## 2. 2. SUMMARY OF TARGET AUDIENCES

The audiences targeted during the project were:

**European Public** – communication aimed to develop wider public understanding of submerged prehistoric landscapes as an important aspect of European cultural heritage and the relevance of associated data for the development of the European landmass and links to modern issues of sea level and climate change.

Delivery methods were via: General Media, Website, Social media, TV and Exhibitions.

**European Policy Makers & National Government Agencies** - Key aspects of communication were aimed at establishing submerged prehistoric landscapes as a recognised field of scientific study. Additionally the development of appropriate protection and management strategies was promoted.

Delivery methods were via: Website, Brochure/ leaflet, Conferences, workshops, presentations and seminars.

**Commercial/ Industry Sector** - Industry can benefit from collaborations through better understanding the relationship between their seabed operations and risks associated with potential impacts on submerged landscapes. There are also a range of positive public relations opportunities for companies which allow their data to be utilised for research. There is also a need to make the commercial sector aware of best practice and EU legislation and to explore ways of disseminating results of research and pan European legislation/codes of practice more effectively to EU industries and decision makers.

Delivery Methods were via: Conferences, Specialist media – trade association magazines, Leaflets, Brochure/ leaflet, Website

**Archaeological and Scientific Communities** - Key aims of communication were to improve understanding between archaeologists and scientists in relation to techniques for investigation, data, interpretation and dissemination in order to develop this field of research. The interdisciplinary nature of study in this area requires 'joined-up' thinking between organisations, departments and companies that requires new links and communication.

Delivery Methods were via: Leaflet/ brochure, poster, specialist media, website, Conferences

### **3. 3. RESULTS**

The following section provides a summary of the results of the dissemination and communication achieved. One of the key methods used to collect data on communication activities has been through a survey sent to each action member. This is augmented with statistics from the project website and social media outlets.

#### **3.1. 3.1 Publications**

There have been a range of publications generated through the project, these range from specialist monograph texts, through book chapters, special editions of journals and articles to newsletters. The communications survey provided information on 38 publications, these were further broken down into:

- Publication - 16
- Book Chapter - 3
- Article – 19
- 

#### **3.2. 3.2 Conferences and Exhibitions**

Dissemination to scientific, academic and management audiences has reached a significant audience with 65 conferences and conference papers reported. Conferences took place right across Europe in addition to other countries around the globe.

Two dedicated SPLASHCOS Conferences are the Conference with Industry held in March 2013 in

Esjberg and the project final conference in September 2013 in Poland – Under the Sea: Archaeology and palaeolandscapes.

Six exhibitions promoting submerged prehistoric archaeology and SPLASHCOS have been held, these were in the UK, Norway and Israel.

### **3.3. 3.3 Lectures and Meetings**

Action member have disseminated information about SPLASHCOS via:

- 41 Lectures
- 27 Meetings

### **3.4. 3.4 Poster and Leaflet**

An Action poster has been developed and provided to all members to use via the project website. Additionally specific project posters have been generated for some individual conferences. In total there have been 18 poster displays in conjunction with major conference events.

10,000 project leaflets were printed and distributed across the Action membership.

33 leaflet distribution opportunities were recorded in addition to conferences where leaflets were also provided.

### **3.5. 3.5 Website, Social Media & TV**

The SPLASHCOS project website is [www.splashcos.org](http://www.splashcos.org). The site has had over 5,000 visits, which average out around 2 – 300 per month.

A dedicated project conference website was set up at [www.splashcos.pl](http://www.splashcos.pl) for 'Under the Sea: Archaeology and Palaeolandscapes'.

5 TV programs have been reported by SPLASHCOS members as referring to the project. One TV program 'The Mysteries of Atlit Yam' was filmed during a SPLASHCOS training school in Israel.

3 Swedish radio programs have been broadcast mentioning the project.

The Project Facebook page was set up in May 2011, it has been popular and has reached a broad audience. As of September 2013 the page had 276 'likes' and individual posts on the site were regularly reaching over 500 people.

A brief review of the information about those viewing the FB pages over one month in 2013 shows the audience:

- 55% are male, 45% are female
- Largest numbers were in the 25 – 34 age bracket, with 35 – 44 the next highest numbers.
- Numbers from different countries in ascending order were: UK, Denmark, Sweden, Norway, Germany, Greece, Poland



**Listing of conferences, lectures, exhibitions, media events with SPLASHCOS member involvement.**  
NB. This list is not complete

Communication type	Event/ organisation/ Conference/ Title	Date	Volume/ No	Person responsible/ reporter	Country
<b>Conferences</b>					
Conference	INQUA, Bern, multiple papers mentioning SPLASHCOS	21-27 July 2011		Multiple	
Conference	IKUWA4, multiple papers mentioning SPLASHCOS including in paper on A2S project, Rotterdam	29th Sept 2011		Multiple	Croatia
Conference	Noordzeeoogden Leuven (conference concerning Nisa & Dutch coast	6-7 Oct 2011		Hest Hverts	Netherlands
Conference	Environmental Change and Human interaction in the Western Atlantic façade international conference	9-10 Dec 2011		Delminda Moura	Portugal
Conference	UNESCO Scientific Colloquium - multiple papers including SPLASHCOS	13-15 Dec 2011		Multiple	Belgium
Conference	Archaeological research in the light of climatic changes – case of archaeological research on submerged landscapes. It	25 November 2011		Andrzej Witkowski	Poland
Conference	Water untamed in the past and unspecified today. Some remarks about coastal archaeology, Conference Water as the	24-25 May 2012		Andrzej Witkowski	Poland
Conference	Archaeology of Wolin Island in the light of coastal processes, 11th Wolin Medieval Meetings, Wolin,	3-4 August 2012		Andrzej Witkowski	Poland
Conference	Symposium on 'Geology and Archaeology: submerged landscapes of the continental shelf', at the 34th International Ge	5-10 August 2012		Geoff Bailey	UK
Conference	Institute of Archaeologists of Ireland (IAI) Spring Meeting – Title: 'Coastal Communities from the Mesolithic to the Mode	20-21 April 2012		Kieran Westerly	N. Ireland
Conference	Micallef, A., Foglini, F., Le Bas, T., Angeletti, L., Tavianni, M. (2012) Late Quaternary coastal landscape evolution of the I	1st July 2012		Aaron Micallef	Malta
Conference	Micallef, A., Le Bas, T., Foglini, F., Huvenne, V., Blondel, P., Anceletti, L., Hühnerbach, V., Tavianni, M. (2012) Reconstr	1st July 2012		Aaron Micallef	Malta
Conference	Le Bas, T., Micallef, A., Blondel, P., Huvenne, V. and Deldun, A. (2012) Combination of morphometric and textural tech	1st July 2012		Aaron Micallef	Malta
Conference	EuroNet, Brussels	15 November 2011		Nic Flemming	Belgium
Conference	Applied Underwater Robotics Laboratory workshop on underwater technology and operations" in Longyearbyen, Spitsb	19-21/03/2012		Oyvind Odegard	Norway
Conference	Meeting on Naval and Underwater Archaeology on Spain has been announced (Cartagena, March 14-16)	14-18 March 2013		Pablo Arias	Spain
Conference	annual meeting for the Norwegian archaeologists	01 November 2011		Hakon Glorstad	Norway
Conference	Pioneer Settlement Network, Norway	01 June 2011		Hakon Glorstad	Norway
Conference	European Association of Archaeologists	01 September 2011		Hakon Glorstad	Norway
Conference	Renewable / Wave Energy - Underwater Geomorphology	21 Oct 2010		Dimitris Sakellariou	GR
Conference	Evolution of Red Sea, Jeddah, Saudi Arabia	2-5 Feb 2013	50	Geoff Bailey	UK
Conference	Human Evolution, Past, Present & Future, London, UK	8-10 May 2013	50	Geoff Bailey	UK
Conference	All at Sea Conference, York, UK	05 July 2013	30	Geoff Bailey	UK
Conference	34th International Geological Congress, Symposium,	5-10 Aug 2012	50+	Geoff Bailey	UK
Conference	Lecture at UNESCO International Colloquium on Underwater Heritage, Brussels	01 December 2011		200 Geoff Bailey	UK
Conference	Lecture, Australian Archaeologists Annual Conference, Darwin, Australia	01 December 2009		150 Geoff Bailey	UK
Conference	CAPE, Gibraltar. Caves as archives	15-17 Sept 2013		100 Geoff Bailey	UK
Conference	UNESCO scientific colloquium on factors impacting UCH, Brussels (B)	01 December 2011		Tine Missiaen	Belgium
Conference	Offshore Industry and archaeology: A creative relationship	14-16 march 2013		This Maarleveld	Denmark
Conference	1st International Conference, Environmental Change and Human Interaction in Western Atlantic Façade	10 December 2011		Delminda Moura	Portugal
Conference	1st International Conference, Environmental Change and Human Interaction in Western Atlantic Façade	10 December 2011		Leandro Infantini	Portugal
Conference	International Quaternary	27 July 2011		Delminda Moura	Switzerland
Conference	Conference- INQUA, Session 46- Late Quaternary records of coastal evolution				
Conference	Nic Flemming, Bristol Conference	01 October 2010		Nic Flemming	UK
Conference	Unravelling the Palaeolithic Conference, Southampton	28-29 Jan 2011		Garry Momber	UK
Conference	Increasing Europe's competitiveness through cultural heritage research, an initiative of the EU-project NET-HERITAGE	24 March 2011		Nic Flemming, Dimitris Sakellariou	UK, GR
Conference	2012 IEEE/OES BALTIC INTERNATIONAL SYMPOSIUM, Klaipėda.	8-11 May 2012		Vladas Zulkus, Algidis Girininkas	Lithuania
Conference	18th annual meeting European association of Archaeologists, Helsinki	29 Aug-1 Sept 2012		Vladas Zulkus, Algidis Girininkas	Lithuania
Conference	Marine Science Meets Marine Industry, Ostend (B)	01 March 2012		Tine Missiaen / Marixx Pieters	Belgium
Conference	Wenner-Gren Symposium, Italy: Island Archaeology & Early Seafaring n E Med	18-21 Oct 2012	20	Geoff Bailey	UK
Conference	Underwater cultural heritage under pressure. UNESCO – Scientific Colloquium on Factors Impacting Underwater Cultu	13 December 2011		This Maarleveld	Denmark
Conference	The compatibility of heritage protection and fishing practice. UNESCO – Scientific Colloquium on Factors Impacting Und	13 December 2011		This Maarleveld	Denmark
Conference	Integrating maritime archaeological research into the planning process. Working Conference, Marine Spatial Planning a	11 may 2012		This Maarleveld	Denmark
Conference	Studeidag Archeometri, Ghent University (B)	01 March 2010		Tine Missiaen	Belgium
Conference	HOMER conference, Yannes (F)	01 September 2011		Tine Missiaen	Belgium
Conference	HOMER conference, Yannes (F)	01 September 2011		Anders Fischer	Belgium
Conference	Maritime aggregate extraction conference, Ostend (B)	01 September 2011		Tine Missiaen	Belgium
Conference	Ravensjode conference, Ostend (B)	01 November 2012		Tine Missiaen	Belgium
Conference	THE THIRD BALKAN SYMPOSIUM ON ARCHAEOLOGY / The Unknown Face of the Artwork	29-30 October 2012	100 participant	Dragos Ene	Romania
Conference	2012 IEEE/OES BALTIC INTERNATIONAL SYMPOSIUM, Klaipėda.	8-11 May 2012		Vladas Zulkus, Algidis Girininkas	Lithuania
Conference	18th annual meeting European association of Archaeologists, Helsinki	29 Aug-1 Sept 2012		Vladas Zulkus, Algidis Girininkas	Lithuania
Conference	Seminar for Arabian Studies 2013 (London).	27th July 2013		Matt Meredith-Williams	UK
Conference	All At Sea (York).	4-5th July 2013		Robyn Injois and Matt Meredith-Williams	UK
Conference	Socio-Environmental Dynamics over the last 12'000 years (Kiel).	15-18th April 2013		Matt Meredith-Williams	Germany
Conference	Muge 150th (Lisbon).	March 20-24th 2013		Matt Meredith-Williams	Portugal
Conference	1st International Conference, Environmental Change and Human Interaction in Western Atlantic Façade	10 December 2011		Ana Gomes	Portugal
Conference	EAA Notes on the coastal archaeology - examples from the Szczecin Lagoon and pomeranian Bay, 19th EAA Annual M	4-8 Sept 2013		Przemyslaw Krajewski, Marta Chmiel, Michal Adamczyk	Poland
Conference	MARES 2020 Marine Research Horizon 2020 - Golden Sands Resort, Bulgaria	17-20 September 2013		Preslav Peev	Bulgaria
Conference	Institute of Archaeologists of Ireland (IAI) Spring Meeting	01 April 2012		Kieran Westley	UK (Northern Ireland)
Conference	Institute of Archaeologists of Ireland (IAI) Spring Meeting	01 April 2012		Peter Woodman	Republic of Ireland
Conference	Irish Quaternary Association Autumn Symposium	01 November 2012		Ruth Piets	UK (Northern Ireland) & Rep. of Ireland
Conference	EuroMed, Cyprus	01 November 2012		Julie Satchell	UK
Conference	GeoSeas, Cork	09 September 2012			
Conference - EAA	EAA- Flooded Stone Age Session	01 September 2012		Hakon Glorstad, Jostein Gundersen, Frode K	Norway
Conference presentation	Marine Aggregates Levy Technical Conference: UK Palaeolandscapes	01 July 2011		Vince Gaffney	UK
Conference presentation	Predictive Modelling in archaeology (Ahtopol, Bulgaria) : Marine Sampling	01 July 2011		Vince Gaffney	Bulgaria
Conference presentation	Europeae Archaeologiae Consilium Conference (Relyavik): Marine Palaeolandscapes	01 July 2010		Vince Gaffney	Iceland
Conference presentation	Archaeolandscapes, Dublin: Landscape and Survey	01 July 2013		Vince Gaffney	Ireland
<b>Leaflet Distribution</b>					
Leaflets	Distribution of SPLASHCOS leaflets in northern Germany and public outreach work	Summer 2012		Frederick Feulner	Germany
Leaflets	UK SPLASHCOS meeting - Edinburgh	25th Nov 2011	50	Geoff Bailey	UK
Leaflets	Environmental Change and Human interaction in the Western Atlantic façade international conference	9-10 Dec 2011	500	Delminda Moura	Portugal
Leaflets	Marine and Environmental Research Centre (CIMA), Universidade do Algarve, Portugal	01 December 2011	500	Delminda Moura	Portugal
Leaflets	Klaipėda University	01 December 2011	100	Vladas Zulkus	Lithuania
Leaflets	Lithuanian Academy of Science (Vilnius).	01 December 2011	100	Vladas Zulkus	Lithuania
Leaflets	Lithuanian Sea Museum (Klaipėda).	01 December 2011	100	Vladas Zulkus	Lithuania
Leaflets	The History Museum of Lithuania Minor (Klaipėda).	01 December 2011	100	Vladas Zulkus	Lithuania
Leaflets	Klaipėda Municipality, The Education Department.	01 December 2011	100	Vladas Zulkus	Lithuania
Leaflets	Scubadiving Centre "Diagonis" (Vilnius, Klaipėda).	01 December 2011	100	Vladas Zulkus	Lithuania
Leaflets	Scubadiving Centre "Oktopusas", Klaipėda.	01 December 2011	100	Vladas Zulkus	Lithuania
Leaflets	Futureland Rotterdam "public" day Archaeology Maesvlakte 2	25th Feb 2012		Andrea Otte	Netherlands
Leaflets	Nederlands Aardwetenschappelijk Congres, Veldhoven	29th- 30th March 2012		Andrea Otte	Netherlands
Leaflets	Israel Antiquities Authority	Summer 2012		Udi Galili	Israel
Leaflets	Haifa University	Summer 2012		Udi Galili	Israel
Leaflets	Israel Prehistoric Society	Summer 2012		Udi Galili	Israel
Leaflets	Several departments in the University of Szczecin	1st July 2012		Andrzej Witkowski	Poland
Leaflets	Symposium on 'Geology and Archaeology: submerged landscapes of the continental shelf', at the 34th International Ge	5-10 August 2012	100	Geoff Bailey	UK
Leaflets	interdisciplinary seminars for Estonian archaeologists and earth scientists 'Interdisciplinary Possibilities to Study the Pa	9-10 Dec 2011		Alar Rosentau	Estonia
Leaflets	Estonian Science Foundation grant "Post-glacial coastline changes of the Baltic Sea and its relations with Stone Age se	1st July 2011		Alar Rosentau	Estonia
Leaflets	French Ministry of Research	1st July 2012		Gilles Lericolais	France
Leaflets	French Marine Board	1st July 2012		Gilles Lericolais	France
Leaflets	Museum of Cultural Heritage, Oslo	1st July 2012		This Trolle Jensen	Norway
Leaflets	Applied Underwater Robotics Laboratory workshop on underwater technology and operations" in Longyearbyen, Spitsb	19-21/03/2012		Oyvind Odegard	Norway
Leaflets	CAA (Computer Applications in Archaeology) conference in Southampton, UK 26. – 29. March 2012	26-29 March 2012		Oyvind Odegard	UK
Leaflets	Consejo Superior de Investigaciones Científicas, Barcelona,	01 July 2012		Pablo Arias	Spain
Leaflets	Sociedad de Ciencias Aranzadi, San Sebastián	01 July 2012		Pablo Arias	Spain
Leaflets	Museo de San Telmo, San Sebastián	01 July 2012		Pablo Arias	Spain
Leaflets	Museo de Prehistoria y Arqueología de Cantabria, Santander	01 July 2012		Pablo Arias	Spain
Leaflets	University Museums in Norway	01 July 2011		Hakon Glorstad	Norway
Leaflets	Ministry of the Environment and the Directorate of Cultural Heritage, Norway	01 July 2011		Hakon Glorstad	Norway
Leaflets	annual meeting for the Norwegian archaeologists	01 November 2011		Hakon Glorstad	Norway
Leaflets	University of Geneva – lecture by Dimitris Sakellariou on submerged landscapes	April 12, 2013		Julien Beck	Switzerland
Leaflets	THE THIRD BALKAN SYMPOSIUM ON ARCHAEOLOGY / The Unknown Face of the Artwork	29-30 October 2012	100 participant	Dragos Ene	Romania
<b>Lectures</b>					
Lecture	University of Fayetteville (Arkansas): Marine Palaeolandscapes	01 July 2012		Vince Gaffney	USA
Lecture	British Festival of Science: Marine Palaeolandscapes	01 July 2010		Vince Gaffney	UK
Lecture	Creswell Crags: Marine Palaeolandscapes	01 July 2010		Vince Gaffney	UK
Lecture	The Mysteries of Atlit Yam, University of Montreal, Canada	01 March 2013		Udi Galili	Israel
Lecture	The Mysteries of Atlit Yam, University of Quebec, Canada	01 March 2013		Udi Galili	Israel
Lecture	University of Geneva – lecture by Dimitris Sakellariou on submerged landscapes	12 April 2013	10 participants	Julien Beck	Switzerland
Lecture	British Embassy, Riyadh, Saudi Arabia	04 March 2013	40	Geoff Bailey	UK
Lecture	Cambridge Underwater Exploration Group, Cambridge, UK	09 March 2013	30	Geoff Bailey	UK
Lecture	Saudi-British Society, London, UK	17 April 2013	15	Geoff Bailey	UK
Lecture	King Abdullah University of Science & Technology, Saudi Arabia	15 June 2013	20	Geoff Bailey	UK
Lecture	Hellenic Centre for Marine Research, Athens, Greece	01 June 2011	40	Geoff Bailey	UK
Lecture	RAC Scuba diving club, submerged prehistoric observations	30 April 2013	50	Nic Flemming	UK
Lecture	Conference on human evolution, submerged prehistoric sites	8-10 May 2013	200	Nic Flemming	UK
Lecture	The destruction of underwater cultural heritage around Africa's coasts. XIIIth Conference of the Pan African Archaeo	04 November 2010		This Maarleveld	Denmark
Lecture	Variation And Landscape. International Conference Archaeology And Predictive Modelling, Ahtopol, Bulgaria.	27 may 2011		This Maarleveld	Denmark
Lecture	The UNESCO Convention on the Protection of the Underwater Cultural Heritage and its consequences. Seminar inter	07 September 2011		This Maarleveld	Denmark
Lecture	Archeologie van de Noordzee. Teruwblik en Opgraving. Waddenacademie, Leeuwarden.	6 october 2011		This Maarleveld	Denmark
Lecture	The Maritime archaeological programme at SDU and Scandinavian cooperation regarding the submerged landscape. Si	19 June 2012		This Maarleveld	Denmark
Lecture	Activities directed at the underwater cultural heritage and activities incidentally affecting it: two fields for developing best	15 march 2013		This Maarleveld	Denmark
Lecture	Fishing and Collecting, the specific attention for Pleistocene bones and prehistoric artefacts in the Dutch fishing indust	15 march 2013		This Maarleveld	Denmark
Lecture	interdisciplinary seminars for Estonian archaeologists and earth scientists 'Interdisciplinary Possibilities to Study the Pa	11-12 Dec 2009		Alar Rosentau	Estonia
Lecture	interdisciplinary seminars for Estonian archaeologists and earth scientists 'Interdisciplinary Possibilities to Study the Pa	9-10 Dec 2011		Alar Rosentau	Estonia
Lecture	interdisciplinary seminars for Estonian archaeologists and earth scientists 'Interdisciplinary Possibilities to Study the Pa	9-10 Dec 2011		Alar Rosentau	Estonia
Lecture	Marine Spatial Planning, London (UK)	01 May 2012		Tine Missiaen	Belgium
Lecture	University of Malacca: Marine Palaeolandscapes and Sundaland	01 July 2013		Vince Gaffney	Malaysia
Lecture	Maritime Archaeology, University of Arhus	13 October 2013		This Maarleveld	Denmark
Lectures	Groningen University - multiple lectures including SPLASHCOS	Autum 2011		Hans Peeters	Netherlands
Lectures	National Archaeological Museum - Underwater Archaeology & Geosciences	29 Oct 2012		Dimitris Sakellariou	GR
Lectures	Ministry of Culture - Underwater Archaeology & Geosciences	30 November 2012		Dimitris Sakellariou	GR

Lectures	University of Crete - Submerged Prehistoric Landscapes	21 November 2012	Dimitris Sakellariou	GR
Lectures	Annual meeting of the german working group for Underwaterarchaeology (AKUWA) in Hannover/Germany, lecture including SPLASHCOS	19th October 2012	Hauke Jöns	Germany
Lectures	Museum Burd Bederkesa, Germany, lecture including SPLASHCOS	14th December 2012	Hauke Jöns	Germany
Lectures	Ostfriesische Landschaft, Aurich, Germany, lecture including SPLASHCOS	14th January 2013	Hauke Jöns	Germany
Lectures	Nordwestdeutsche Universitätsgesellschaft Wilhelmshaven, Germany, lecture including SPLASHCOS	21th February 2013	Hauke Jöns	Germany
Lectures	Archaeological society of the district Rotenburg (Wümme), Zeven, Germany, lecture including SPLASHCOS	8th March 2013	Hauke Jöns	Germany
Lectures	Fu Ssiu-Nan Memorial Lectures, Taiwan, Republic of China	10-17 Dec2012	30 Geoff Bailey	UK
Lectures	University of Crete, Greece. Lectures of UG and PG students	01 May 2010	50 Geoff Bailey	UK
Lectures	4 lectures to regional groups focussing on submerged cultural landscapes	Jan 2011- Sept 2013	Garry Momber	UK
Lectures	The changing environment and the Mesolithic occupants of Bouldnor Cliff. Homer Conference	01 September 2011	Garry Momber	UK
Lectures	EU Atlas of the 2 Seas Final Conference, Rennes, France	01 June 2012	Garry Momber	UK
Lectures	Multiple lectures including SPLASHCOS in Maritime Archaeology Programme, University of Southern Denmark	umn 2010-summer 2013	This Maarleveld	Denmark
Lectures	Lunchtime Conference DG MARE Submerged prehistoric landscapes, including exhibition of finds	28 June 2010	Dimitris Sakellariou, Geoff Bailey, Nic Flemmi	UK, GR
<b>Meetings</b>				
Meeting	DG MARE Bruxelles / UNESCO Underwater Cultural Heritage and research priorities	23 September 2013	This Maarleveld	Denmark
Meeting	SPLASHCOS 1st Meeting - York	01 March 2010	Geoff Bailey	UK
Meeting	SPLASHCOS 2nd Meeting - Rhodes	01 October 2010	Dimitris Sakellariou	Greece
Meeting	UK SPLASHCOS meeting - Southampton	20th Jan 2011	Geoff Bailey	UK
Meeting	Denmark Meeting - Database & Archaeology	01 January 2011	Anders Fisher	Denmark
Meeting	SPLASHCOS 3rd Meeting - Berlin	11-12th April 2011	Geoff Bailey	Germany
Meeting	SPLASHCOS 4th Meeting - Zadar	3 - 4 Oct 2011	Geoff Bailey	Croatia
Meeting	UK SPLASHCOS meeting - Edinburgh	25th Nov 2011	Geoff Bailey	UK
Meeting	SPLASHCOS 5th Meeting - Amersfoort	01 April 2012	Henk Weerts	Netherlands
Meeting	Belgian Agency in Brussels for Cultural Heritage	1st July 2012	Nic Flemming	Belgium
Meeting	Uni. Ulster & NI Government Stormont Research Showcase	01 February 2013	Ruth Plets	UK (Northern Ireland)
Meeting	EAC working group UCH	23 November 2012	Andrea Otte	Netherlands
Meeting	Brussels European Parliament Lunchtime Briefing	23 April 2013	30 Geoff Bailey	UK
Meeting	Society of Underwater Technology, Reporting on and promoting SPLASHCOS	Jan 2011-2012	Garry Momber	UK
Meeting	Scientific Diving & Supervisory Committee	April 2011-April 2013	Garry Momber	UK
Meeting	EU ArchManche Project Steering group meeting and talks, Gent, Belgium	01 March 2013	G. Momber, J. Satchell, L. Tidbury	UK
Meeting	Final Workshop of the Project:Comparative palaeoEcology and GeoArchaeology of the Varna Lake (Bulgaria) and the Mamaia Lake (Romania) – E.G.A.L.	15 February 2013	Glicherie Caravan	Bg
Meeting	Preliminary Meeting of the Project: Submarine Archaeological Heritage of the Western Black Sea Shelf- HERAS'	29 August 2013	Glicherie Caravan	Bg
Meeting	Project: 'Tomis Submarine Archaeology'	24 July 2013	Museum of Archaeology Constanta	Ro
Meeting	Meeting with regional and national members of the antiquarian board, + museums	01 January 2013	15 persons Björn Nilsson	Sweden
Meeting	Esbjerg meeting	13 March 2013	3 persons Björn Nilsson + Johan Rönnby (MARIS), Joal Itby	Denmark
Meeting	SPLASHCOS Mediterranean Working Group Meeting, Syracuse	21-22 June 2012	M. Canals	Italy
Meeting	British Science Association Festival (2012): Rising Tide Workshop	9th September 2012	Caroline Wickham-Jones/ Richard Bates/Vin	UK
Meeting	Museum of Cultural Heritage +++	17 - 18 Jan 2013	Håkon Glerstad, Jostein Gundersen, Björn N	Norway, Sweden
Meeting	Marine Technology and Innovation, Brussels (B)	01 January 2012	Tine Missiaen	Belgium
Meeting	Several seminars with the industry with links to Splashcos	2012-2013	Tine Missiaen	Belgium
Meeting	Belgian Coast Guard consultative body, with links to Splashcos, Bruges (B)	01 December 2011	Tine Missiaen / Marrix Pieters	Belgium
Meetings	Directorate for Cultural Heritage	Multi	Jostein Gundersen	Norway
<b>Poster Display</b>				
Poster	Studiedag Archeometry, Ghent University (B)	01 March 2010	Tine Missiaen	Belgium
Poster	HOMER conference, Vannes (F)	01 September 2011	Tine Missiaen	Belgium
Poster	Maritime aggregate extraction conference, Ostend (B)	01 September 2011	Tine Missiaen	Belgium
Poster	Faculty of Geosciences and in the Faculty of Humanities- Archaeology and Palaeoceanology Units	1st July 2012	Andrzej Witkowski	Poland
Poster	Universidad de Cantabria	01 July 2012	Pablo Arias	Spain
Poster	Nic Flemming, Bristol Conference	01 October 2010	Nic Flemming	UK
Poster	Unravelling the Palaeolithic Conference, Southampton	28-29 Jan 2011	Garry Momber	UK
Poster	Increasing Europe's competitiveness through cultural heritage research, an initiative of the EU-project NET-HERITAGE	24 March 2011	Nic Flemming, Dimitris Sakellariou	UK, GR
Poster	2012 IEEE/OES BALTIC INTERNATIONAL SYMPOSIUM, Klaipėda.	8-11 May 2012	Vladas Zulkus, Algridas Girininkas	Lithuania
Poster	18th annual meeting European association of Archaeologists, Helsinki	29 Aug-1 Sept 2012	Vladas Zulkus, Algridas Girininkas	Lithuania
Poster	THE THIRD BALKAN SYMPOSIUM ON ARCHAEOLOGY / The Unknown Face of the Artwork	29-30 October 2012	100 participan Dragos Ene	Romania
Poster	2012 IEEE/OES BALTIC INTERNATIONAL SYMPOSIUM, Klaipėda.	8-11 May 2012	Vladas Zulkus, Algridas Girininkas	Lithuania
Poster	18th annual meeting European association of Archaeologists, Helsinki	29 Aug-1 Sept 2012	Vladas Zulkus, Algridas Girininkas	Lithuania
Poster	Seminar for Arabian Studies 2013 (London).	27th July 2013	Matt Meredith-Williams	UK
Poster	Ali At Sea (York)	4-5th July 2013	Robyn Inliss and Matt Meredith-Williams	UK
Poster	Socio-Environmental Dynamics over the last 12'000 years (Kiel).	15-18th April 2013	Matt Meredith-Williams	Germany
Poster	Muge 150th (Lisbon).	March 20-24th 2013	Matt Meredith-Williams	Portugal
Poster	1st International Conference, Environmental Change and Human Interaction in Western Atlantic Façade	10 December 2011	Ana Gomes	Portugal
Poster	MARES 2020 Marine Research Horizon 2020 - Golden Sands Resort, Bulgaria	17-20 September 2013	Prestlav Peev	Bulgaria
<b>Public Media</b>				
Exhibition	Prehistoric Museum of Haifa	1st July 2012	Udi Galili	Israel
Exhibition	County of Vest-Agder, Norway	01 July 2011	Hakon Glerstad	Norway
Exhibition	County of Vestfold, Norway	01 July 2011	Hakon Glerstad	Norway
Exhibition	Royal Society Summer Science Exhibition (2012): Europe's Lost World: Our Drowned Landscape	3rd to 8th July 2012	Vince Gaffney/Richard Bates/Simon Fitch/ C	UK
Exhibition	Featured on CBS News, BBC News and BBC Radio Scotland, Russia Today.			
Exhibition	OISF - Orkney Science Festival	5-11 September 2013	Caroline Wickham-Jones/ Richard Bates/Vin	UK
Exhibition	Hay Literary Festival: Doqgerland	01 July 2013	Vince Gaffney	UK
Exhibition	Workshop at Museum of Cultural Heritage, Oslo	17-18 Jan 2013	Håkon Glerstad, Jostein Gundersen (NO)	
Newsletter/newspapers	Reporting and promoting SPLASHCOS in HWTMA/MAT Fieldwork Report	Oct 2012 and Oct 2013	Björn Nilsson (SE)	UK
Newsletter/newspapers	Maritime Archaeology Newsletter from Denmark	Summer 2010	25 This Maarleveld	Denmark
Newsletter/newspapers	article in RCE corporate magazine on Maasvlakte 2 with links to Splashcos	summer 2013	Hen Weerts	Netherlands
Newsletter/newspapers	DK. Weekendavisen, 27 March 2013 (Denmark's most academically respected weekend newspaper).	27 March 2013	Anders Fischer	
Social Media	Front page and inside double page article on Doqgerland	01 July 2012	Glicherie Caravan	Ro
Social Media	2 X Local press articles on the Black Sea Archaeology with links to SPLASHCOS	Summer 2012	Astrid	Norway
Social Media	2 X Facebook articles on the Mesolithic with links to SPLASHCOS	Summer 2012	Theis Trolle Jensen	Norway
Social Media	Several articles for the SPLASHCOS page	1st July 2012	Simon Fitch/Vince Gaffney/Richard Bates/Ca	UK
Social Media	Royal Society Summer Science Exhibition (2012): Europe's Lost World Tumblr site (SPLASHCOS logo)	Summer 2012	Kieran Westley	UK (Northern Ireland) & Rep. of Ireland
Social Media	Post on Submerged Landscapes Archaeological Network blog	01 November 2012	Timmy Gambin	Malta
Social Media	Activities covered via Department's facebook page.2	01 July 2013	Marta Chmiele	
Social Media	activity on facebook - short reports from research in our project 'Archaeological and paleoenvironmental study of subme	01 July 2012		
Social Media	Facebook entries, Landscape lost, several links to SPLASHCOS	01 July 2013	plus 350 follow Björn Nilsson, Arne Sjöström	Sweden
Social Media	Maney Publishing - Web Video: Spotlight on underwater archaeology	01 August 2012	Jonathan Benjamin	Web
Social Media	Royal Society Summer Science Exhibition (2012): Europe's Lost World Facebook site (SPLASHCOS logo in sponsors	Summer 2012	Simon Fitch/Vince Gaffney/Richard Bates/Ca	UK
Film festival-Paris	Le Mystère Attili Yam, 10 000 ans sous les mers » est sélectionné au prochain Festival, International du film scientifique Partiscience EN COMPÉTITION GRAND JURY. Le Festival se déroulera du 3 au 8 octobre 2013, au Muséum National d'Histoire Naturelle de Paris.	3.9.2013-8.9.2013	Jean Bergeron and Ehud Galili	France
TV Program	"Lithuanian seashore. People and Culture". WorldExpo 2012. Yeasu. South Korea	7-10 June 2012	Vladas Zulkus, Algridas Girininkas et al.	Lithuania
TV Program	Haifa University. Scientists film night	12 September 2013	Ehud Galili	Israel
TV Program	The mysteries of Attili-Yam. Produced by Alfa Zoulo	Summer 2012	Udi Galili	Israel
TV Program	Television Chemo more (Black Sea)	25 Feb 2013	Prestlav Peev	Bulgaria
TV Program	Wolin - the town of submerged gods. Produced by Dzdzislaw Cozac	01 July 2013	Marian Rebkowski et al.	
Webpage	Black Sea coastal Hazardous phenomena, Local TV	08 June 2013	Glicherie Caravan	Ro
Webpage	<a href="http://www.iaj.ie/joomla/index.php/news-a-events/iaj-news/51.html">http://www.iaj.ie/joomla/index.php/news-a-events/iaj-news/51.html</a>	01 July 2012	Kieran Westley	N. Ireland
Website	<a href="http://www.marine.museum.no/no/arkaeologi/forskingsprosjekter/">http://www.marine.museum.no/no/arkaeologi/forskingsprosjekter/</a>	01 July 2011	Hakon Glerstad	Norway
Website	with clear links to Splashcos	June 2013	Hakon Glerstad	Norway
Media	Radio documentary, national radio (SR P1, Science), discussion of SPLASHCOS impact in SE	01 June 2012	Tine Missiaen	Belgium
Media	Radio interview (windpower policy and subm. lands.)	01 March 2013	2 persons Björn Nilsson, Arne Sjöström	Sweden
Media	Radio and TV-interview, National television (SR, SVT)	01 March 2013	2 persons Björn Nilsson, Arne Sjöström	Sweden
<b>Other Information</b>				
Training school	Palaeo-coastlines of the Baltic Sea and Stone Age coastal settlements	10-15 Sept 2012	17 participants: Alar Rosentau	Estonia, Latvia, Lithuania
Training School	Gave lectures at SPLASHCOS TS in Parnu, Estonia	19-15 Sept 2012	15 Geoff Bailey	UK
Project	Research of the submerged natural and cultural Landscapes of Early Holocen in Baltic Sea („Yoldia")	2011-2012	Vladas Zulkus	Lithuania
Project	Early Holocene Baltic Sea coasts and their settlement (BJAHFA)	2013-2015	Vladas Zulkus	Lithuania
Project	2011 – 2012 the research project "Early Holocene natural and cultural landscapes research at the bottom of the Baltic S	2011-2012	Vladas Zulkus	Lithuania
Project	Early Holocene Baltic Sea Coasts and their Settlement (BJAHFA). Duration – 26 months. Grant – ~ 225,000 €. No fun	2011-2012	Vladas Zulkus	Lithuania
Field school	Documentation techniques	01 November 2012	12 Timmy Gambin	Malta
Field school	Attili Yam, Israel	18-26 Aug 2011	10 participants: Udi Galili	Israel
Field school	Annual Geocomar field school in Danube Delta : Black Sea level changes and prehistoric human migration.		40	
Field school	SPLASHCOS expertise	2-5 August 2013	participants Glicherie Caravan	Ro

**Call title: ENVIRONMENT 2012: ONE-STAGE**

- **Call identifier:** FP7-ENV-2012-one-stage
- **Date of publication:** 20 July 2011
- **Deadline:** 20 October 2011<sup>1</sup> at 17.00.00, Brussels local time
- **Indicative budget**<sup>2</sup>: EUR 38 million<sup>3</sup>

Challenge/activity	Indicative budget (EUR million)
6.1 Coping with climate change	7
6.2 Sustainable use and management of land and seas	7
6.3 Improving resource efficiency	12
6.4 Protecting citizens from environmental hazards	-
6.5 Mobilising environmental knowledge for policy, industry and society	2
6.6 Horizontal and cross-thematic activities	10

The budget for this call is indicative. The final budget awarded to actions implemented through calls for proposals may vary:

- The final budget of the call may vary by up to 10% of the total value of the indicated budget for each call; and
- Any repartition of the call budget may also vary by up to 10% of the total value of the indicated budget for the call.

---

<sup>1</sup> The Director-General responsible may delay this deadline by up to two months.

<sup>2</sup> A reserve list per each indicative budget will be constituted if there is a sufficient number of good quality proposals. It will be used if extra budget become available.

<sup>3</sup> Under the condition that the draft budget for 2012 is adopted without modification by the budgetary authority.

- **Topics called for the FP7-ENV-2012-one-stage call:**

<b>Challenge/Topics called</b>	<b>Funding Schemes and eligibility criteria</b>
<b>Challenge 6.1 Coping with climate change</b>	
ENV.2012.6.1-4 <i>Exploiting the full potential of economic instruments to contribute to achieving the EU's greenhouse gas emissions reduction objectives for 2050 One or more proposals can be selected.</i>	Collaborative Project The requested European Union contribution per project shall not exceed EUR 3 000 000
ENV.2012.6.1-5 <i>Explore opportunities, risks, feasibility and policy implications associated with key geo-engineering options Up to one proposal can be selected.</i>	Coordination and Support Action (supporting action) The requested European Union contribution per project shall not exceed EUR 1 000 000
<b>Challenge 6.2 Sustainable use and management of land and seas</b>	
ENV.2012.6.2-5 <i>Improve scientific knowledge base to support the implementation of the Marine Strategy Framework Directive ('The Ocean for Tomorrow') Up to one proposal can be selected.</i>	Coordination and Support Action (supporting action) The requested European Union contribution per project shall not exceed EUR 1 000 000
ENV.2012.6.2-6 <i>Development of advanced technologies and tools for mapping, diagnosing, excavating, and securing underwater and coastal archaeological sites One or more proposals can be selected.</i>	SME-targeted Collaborative Project The requested European Union contribution per project shall not exceed EUR 3 000 000 Projects will only be selected for funding on the condition that the estimate EU contribution going to SMEs is 30% or more of the total estimated EU contribution for the project as a whole. This will be assessed at the end of the negotiation, before signature of the grant agreement. Proposals not fulfilling this criterion will not be funded.
<b>6.3 Improving resource efficiency</b>	
ENV.2012.6.3-2 <i>Policy options for a resource efficient economy One or more proposals can be selected.</i>	Collaborative Project The requested European Union contribution per project shall not exceed EUR 3 000 000
ENV.2012.6.3-3 <i>Development of resource efficiency indicators One or more proposals can be selected.</i>	Collaborative Project The requested European Union contribution per project shall not exceed EUR 3 000 000
ENV.2012.6.3-4 <i>Support for standardisation needs in the field of environment Up to one proposal can be selected.</i>	Coordination and Support Action (supporting action) The requested European Union contribution per project shall not exceed EUR 1 000 000

<b>6.5 Mobilising environmental knowledge for policy, industry and society</b>	
ENV.2012.6.5-3 <i>Exploring opportunities for open access to primary environmental data</i> <i>Up to one proposal can be selected.</i>	Coordination and Support Action (supporting action) <i>The requested European Union contribution per project shall not exceed EUR 1 000 000</i>
ENV2012.6.5-4 <i>Integrated assessment of air pollution supporting the revision of EU air quality legislation</i> <i>Up to one proposal can be selected.</i>	Coordination and Support Action (coordinating action) <i>The requested European Union contribution per project shall not exceed EUR 1 000 000</i>

<b>6.6 Horizontal and cross-thematic activities</b>	
ENV.2012.6.6-1 <i>EU-India cooperation in water technology and management: research and innovation</i> <i>One or more proposals can be selected.</i>	SME-targeted Collaborative Project <i>The requested European Union contribution per project shall not exceed EUR 3 000 000</i> <i>Projects will only be selected for funding on the condition that the estimate EU contribution going to SMEs is 30% or more of the total estimated EU contribution for the project as a whole. This will be assessed at the end of the negotiation, before signature of the grant agreement. Proposals not fulfilling this criterion will not be funded.</i>

• **Eligibility conditions:**

- The general eligibility criteria are set out in Annex 2 of this work programme, and in the Guide for Applicants. Please note that the completeness criterion also includes that part B of the proposal shall be readable, accessible and printable.
- The minimum number of participating legal entities for all funding schemes used in the call is set out in the table below and in the Rules for Participation.

<b>Funding scheme</b>	<b>Minimum conditions</b>
Collaborative Project/ SME-targeted Collaborative Project	At least 3 independent legal entities, each of which is established in a MS or AC, and no 2 of which are established in the same MS or AC
Coordination and Support Actions (coordinating action)	At least 3 independent legal entities, each of which is established in a MS or AC, and no 2 of which are established in the same MS or AC
Coordination and Support Actions (supporting action)	At least 1 independent legal entity.

- Only information provided in part A of the proposal will be used to determine whether the proposal is eligible with respect to budget thresholds and/or minimum number of eligible participants.