

Administrative Support:

Democratic Services
Havant Borough Council
Public Service Plaza
HAVANT
Hants
PO9 2AX

Contact: Jack Caine, Democratic Services Assistant
Tel: 02392 446 230
Email: jack.caine@havant.gov.uk

STANDING CONFERENCE ON PROBLEMS ASSOCIATED WITH THE COASTLINE (SCOPAC) AGENDA

Date: 17 January 2014
Time: 10.15 am
Venue: Hurstwood Room - Public Service Plaza

The business to be transacted is set out below:

	Page
1 Minutes	1 - 6
To confirm the minutes of the last meeting held on 27 September 2013.	
2 Apologies	
3 Research Programme - report from Sam Cope	7 - 10
4 Members Presentation Cllr Hugh Mason "Portsmouth - a eustatic accident"	

Full Members

Bournemouth Borough Council
Chichester District Council
Christchurch Borough Council
Environment Agency
Fareham Borough Council
Gosport Borough Council
Hampshire County Council

Havant Borough Council
Isle of Wight Council
New Forest District Council
Poole Borough Council
Portsmouth City Council
West Dorset District Council
Worthing Borough Council

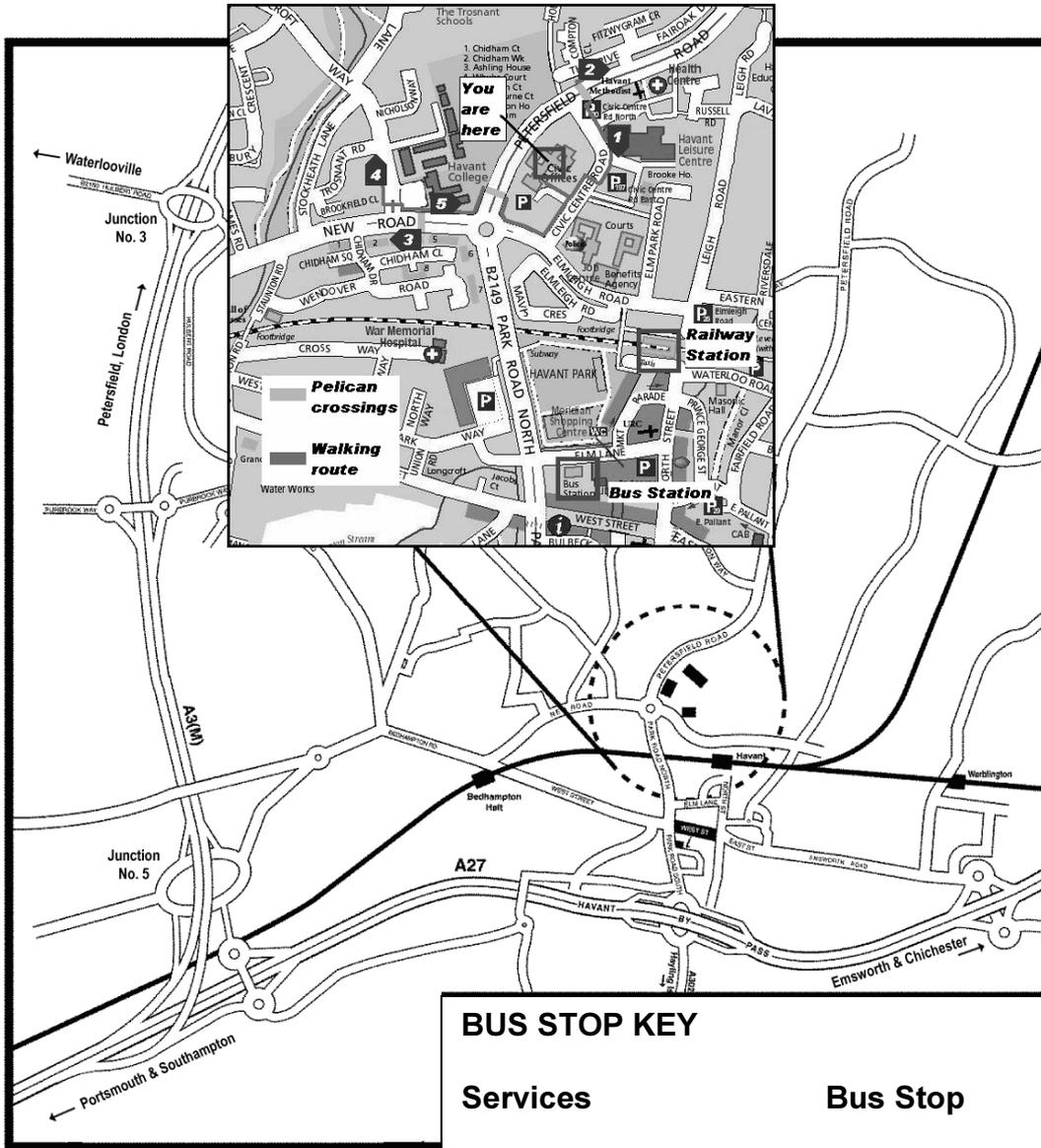
Associate Members

Beaulieu Manor Estate
Chichester Harbour Conservancy
The Crown Estate
Dorset County Council
Eastleigh Borough Council
English Heritage
Isle of Wight AONB Partnership

Natural England
Purbeck District Council
Southampton City Council
Weymouth and Portland Borough
Yarmouth Harbour Commissioners

- 5 Overview of recent coastal flooding events - actions, lessons learned and implications (general discussion led by Andy Bradbury, Neil Watson)
- 6 Report of the Chairman of the southern coastal group **11 - 14**
- a. Nearshore replenishment trials – development of trials and research programme.
 - b. Model studies to examine beach response to combined swell and wind waves
 - c. National Network of Regional Coastal Monitoring Programmes
 - d. EA strategic overview - funding of strategic activities for coastal chairs
- 7 EA funding update - (Neil Watson)
- 8 Presentation by Garry Momber "The Arch Manche project: Archaeology and art as indicators of coastal change."
- 9 AOB and dates of next meetings

SCOPAC 11 April 2014



BUS STOP KEY

Services	Bus Stop
20, 21, 39, 63	1
20, 21, 36**, 39	2
23, 36**	3
23, 27**, 37	4
23, 27**, 36**, 37	5

** - also stops "hail and ride" opposite Stop 1 in Civic Centre Road



Havant
BOROUGH COUNCIL

Public Service Plaza
Civic Centre Road
Havant
Hampshire PO9 2AX

This page is intentionally left blank

Agenda Item 1

Minutes of the Standing Conference on Problems Associated with the Coastline held at the Public Service Plaza, Havant on Friday 27 September 2013, commencing at 10.15am

Present: A list of those present is appended to these minutes.

1. Apologies for Absence

Apologies for absence were received from:

Cllr J Connor	-	Chichester District Council
Prof. M Cowling	-	The Crown Estate
Dr K Buchan	-	Dorset County Council
Mr L Cairns	-	East Solent Coastal Partnership
Ms W Brooks	-	Environment Agency
Mr N Hardiman	-	Environment Agency
Ms L Hughes	-	Environment Agency
Mr I Miller	-	Environment Agency
Mr J O'Flynn	-	Environment Agency
Cllr T Knight	-	Fareham Borough Council
Cllr X Dion	-	Borough of Poole Council
Mr G Mason	-	Portsmouth City Council
Ms S Foulds	-	Southampton City Council
Ms B Maguire	-	Southampton City Council
Cllr W Payne	-	Southampton City Council
Ms L Brown	-	Southern RFCC Chair
Cllr I Roebuck	-	Weymouth and Portland Borough Council
Mr C Lisher	-	Yarmouth Harbour Commissioners

2. Minutes

RESOLVED That the minutes of the meeting held on Friday 26 April 2013 be approved.

3. Research Programme

The Group received a report from the Chairperson of the Research Sub-Group setting out progress made on the following current and proposed SCOPAC projects:

3.1) Evolution of Coastal Sediment Stores and Sinks Study

The mapping of difference plots for offshore shoals, which indicated accretion and erosion along the beaches of the SCOPAC coastline, had now been completed. The final beach store maps had been produced which indicated sediment accretion on the beaches and Admiralty tide charts had now been digitised to try and identify potential locations of offshore shoals. Once all the maps had been finalised the reports would then be produced.

3.2) SCOPAC Minor Projects Fund (2011/2012 and 2012/2013)

The follow up surveys for the sediment tracer study had now been completed and it was suggested that a Ph.D student from Sussex University may use the equipment to conduct further studies.

3.3) SCOPAC Minor Projects Fund (2013/14 and 2014/2015)

Details were provided of the following two projects recently awarded contributions from the Minor Projects Fund:

University of Southampton – Coastal Sediment Budget Project

The project had been awarded £4000 to investigate the sediment pathways around Poole and Christchurch Bays. Onshore and offshore sediment samples would be collected for analysis to identify direction and sources of sediment with the contribution being used to fund five man days on a boat to collect samples.

Channel Coastal Observatory – Seabed Mapping Project

The Channel Coastal Observatory had been awarded £3000 in funding as a contribution towards seabed mapping of swath bathymetry data of the East Solent. The project was reliant on seeking other sources of funding but the Southern Coastal Group had agreed to increase the funding to £4000 if further contributions could not be secured.

3.4) SCOPAC Field Trip

Positive feedback had been received from the fifty delegates who attended the field trip to Lyme Regis. The event had been very informative and thanks were expressed to the speakers and West Dorset District Council for helping make it a successful event.

3.5) Southern Coastal Group Workshop

The next workshop had been tentatively scheduled for 10 January 2014 and it was proposed to focus it on landsliding. It was felt that it would be a good opportunity to look at the issues surrounding such events particularly as there had been numerous recent landsliding occurrences.

RESOLVED That the report be noted.

4. Borough of Poole Council Proposals for Nearshore Replenishment Trials

Stuart Terry of the Borough of Poole Council provided a presentation on “Proposals for Nearshore Replenishment Trials”. Members were interested to note the innovative approach to beach replenishment and the potential to reduce financial costs and lessen the impact on the local environment.

RESOLVED that Stuart Terry be thanked for providing an interesting and informative presentation.

5. Report of the Chairman of the Southern Coastal Group

The Group received a report from the Chairman of the Southern Coastal Group setting out recent developments and progress made on the following subjects:

5.1) Research Proposals for Performance of Nearshore Replenishment Trials

The Chairman of the Southern Coastal Group explained the importance of SCOPAC support for the proposed techniques of nearshore replenishment suggested by Borough of Poole Council. It was felt that the techniques could be utilised at various sites across the SCOPAC coastline which would produce benefits for members.

A research programme needed developing to support the research proposal and constructive discussions with the Environment Agency regarding possible funding from the current financial years budget had taken place. A proposal would be submitted to the Environment Agency shortly suggesting that the total cost of the project would be approximately £75,000. £15,000 of this could be made available through SCOPAC funding and it was suggested £60,000 be sought from the Environment Agency research programme. The Environment Agency was supportive of the project because of its pioneering nature although any funding would be reliant on being able to show the effectiveness of the trials. The Chairman of the Southern Coastal Group proposed that various methods to measure the effectiveness of the scheme could be utilised, including the use of fluorescent or magnetic pebbles.

RESOLVED That

- 1) the Chairman of the Southern Coastal Group prepare a detailed brief and research funding bid to the Environment Agency, in conjunction with the Borough of Poole Council; and
- 2) SCOPAC funding of £15,000 be made available to support the research project, subject to receiving funding support from the Environment Agency

5.2) National Network of Regional Coastal Monitoring Programmes

A progress update was provided which included the establishment of a project board to form the governance of the national network of regional coastal monitoring programmes. SCOPAC would be represented by two officers, Andy Bradbury and Bryan Curtis.

5.3) South Coast Risk Review

5.4) Managed Realignment

The importance of the Medmerry managed realignment scheme for SCOPAC was highlighted and a progress update on the current situation was provided. Uncertainty still existed in relation to the documentation of managed realignments and it was felt a better coordinated approach to the dissemination of the regional habitat creation scheme programme is required.

5.5) Funding of Coastal Schemes

5.6) Training Event (Managing Coastal Landslides)

RESOLVED That the report be noted.

6. National Coastal Overview Update

Members were requested to forward any questions on the update to the Chairman of the Southern Coastal Group, of particular interest was the South Marine Plan Update which the MMO would be running a series of workshops on in October 2013.

7. Presentations and Discussion on Grant Aid Funding for Coastal Schemes

7.1) Coast Protection MTP Calculator

Neil Watson of the Environment Agency provided a presentation on the "Appraisal of Coastal Schemes" which included details on the following:

- Risk to life needed to feature as an outcome;
- National data sets are flawed in representing risks;
- Complex historic harbours and breakwaters needed funding;
- Erosion damages are inadequate to develop projects at MTP level; and
- Landfill at risk from erosion should contribute to scheme justification.

Neil Watson answered questions on the presentation and was thanked for providing an informative overview of the various issues.

7.2) Coastal Funding in the Eastern Solent

James Addicott of the Eastern Solent Coastal Partnership provided a presentation on "Coastal Funding in the Eastern Solent". It described the local approach to the funding process, ways in which benefits could be maximised and the resources required to build a business case with an element of certainty.

RESOLVED That Neil Watson and James Addicott be thanked for providing an interesting and informative presentation.

8. Any Other Business

Neil Watson of the Environment Agency updated members on the Poole and Wareham Flood and Coastal Risk Management Strategy. Public consultation had finished on 1 April 2013 and it was expected to be signed off for approval by New Year 2014.

9. Date of Next Meeting

RESOLVED that the following schedule of SCOPAC meetings be approved:

- (i) Friday 17 January 2014

(ii) Friday 11 April 2014

The meeting commenced at 10.15am and concluded at 12.03pm.

STANDING CONERENCE ON PROBLEMS ASSOCIATED WITH THE COASTLINE

27 SEPTEMBER 2013 – LIST OF REPRESENTATIVES ATTENDING

Cllr Mary Penfold – Chairman of SCOPAC

Professor Andy Bradbury – Chairman of Southern Coastal Group

Bournemouth Borough Council
Cllr D Smith
Dr D Harlow

Chichester District Council
Cllr M Bell

Chichester Harbour Conservancy
Cllr J Branson

Christchurch Borough Council
Cllr J Lofts
Mr S Woolard

Dorset County Council
Cllr L Dedman

Eastleigh Borough Council
Mr G Wilkinson

Eastern Solent Coastal Partnership
Mr J Addicott

Environment Agency
Dr U Dornbusch
Mr N Watson

Fareham Borough Council
Ms L Jewell

Hampshire County Council
Cllr A Rice T.D.
Ms L Sheffield

Gosport Borough Council
Cllr D Kimber
Mr S Ricketts

Havant Borough Council
Cllr J Smith
Cllr K Smith

Isle of Wight Council
Cllr P Jordan
Mr P Marsden

New Forest District Council
Cllr T Swain
Dr Sam Cope

Borough of Poole Council
Mr D Robson
Mr S Terry

Portsmouth City Council
Cllr H Mason

Purbeck District Council
Cllr N Cake
Mr M Goater

Raymond Brown Construction
Mr J Laker

West Dorset District Council
Mr B Murray

Worthing Borough Council
Cllr B Turner

PAPER B

Purpose : For Discussion

Committee: **SCOPAC**

Date: **JANUARY 2014**

Title : **RESEARCH PROGRAMME**

REPORT OF THE CHAIRPERSON OF THE SCOPAC RESEARCH SUB-GROUP

1 CURRENT RESEARCH PROGRAMMES

1.1 EVOLUTION OF COASTAL SEDIMENT STORES AND SINKS STUDY

Channel Coastal Observatory £25,000 (2011-2013)

The primary aim of the project is to identify sediment stores and sinks across the SCOPAC region for future recycling operations. There are large cost savings to be had by using locally sourced material for beach replenishment and recycling schemes.

The project has been sub-divided into the following categories to reflect the different data analysed; beaches, ebb deltas, landward accumulations and offshore shoals.

- Beaches

Difference plots of digital terrain models were mapped, to indicate accretion and erosion along the beaches of the SCOPAC coastline for each Management Unit. The digital terrain models are based on real time kinematic Global Positioning System baseline surveys and laser scan surveys where possible, otherwise Lidar was used. Three epochs in total were analysed;

- Earliest (2002/2003) to mid (2007/2008) surveys
- Mid (2007/2008) to most recent (2012/2013) surveys
- Earliest (2002/2003) to most recent (2012/2013) surveys

Recycling and renourishment logs were mapped to highlight areas of accretion or erosion on the beaches attributed to beach management works. These were checked by the Local Authorities and the Environment Agency.

The final maps for the beaches show the difference plot results with the management activities removed to highlight true areas of sediment accretion (beach stores).

- Ebb deltas

Difference plots of digital terrain models were mapped, to indicate accretion and erosion of the ebb deltas. The digital terrain models are based on bathymetry or Lidar data.

- Landward accumulations

Historical aerial photography was used to map areas of accretion and erosion for Browndown, Sinah Warren and Studland.

- Offshore shoals

Admiralty tide charts from the 1950's/60's and the 2000's were digitised to identify potential locations of offshore shoals. These were categorised into mobile sediment or rock using best available seabed mapping data.

The report is currently being written.

Recommendation: For information

1.2 SCOPAC MINOR PROJECTS FUND (2011/2012 AND 2012/2013)

Havant, Portsmouth and Gosport Partnership undertaking Phase II Sediment Tracer Studies. Minor contribution of £4,000 (2012/2013)

The SCOPAC funding (£4,000) contributed towards the 6 month tracer study element (£16,000) of the River Hamble to Portchester Castle Coastal Strategy which undertook the following:

- Sediment tagging and detection for Solent Breezes to establish the location of the drift divide (up to 1000 tracers)
- Sediment tagging and detection at Lee-on-the-Solent to track beach nourishment material (500 tracers)
- Sediment tagging and detection at Stokes Bay to establish the contemporary sediment pathways (500 tracers)

The tracers were deployed in March 2013 at the locations listed above. The follow up surveys were carried out, the results analysed and written up in the following report <http://www.escp.org.uk/tracers/fareham-gosport>.

The burial depth study can also be downloaded from the SCOPAC and SCG websites

http://www.southerncoastalgroup.org.uk/FINAL_Tracer%20burial%20depth%20experiment%20LeeOnSolent.pdf.

Recommendation: For information

1.3 SCOPAC MINOR PROJECTS FUND (2013/2014 AND 2014/2015)

Following the last Southern Coastal Group meeting, it was agreed the following two Minor Projects would be funded for this financial year and next.

University of Southampton - Coastal sediment budget project

Minor contribution of £4,000

The University of Southampton was awarded £4,000 as a contribution towards a project which will quantify and analyse the relative contributions and movement of sediment within Poole and Christchurch Bays.

The proposal is for sediment samples to be collected and grain size trend analysis and mineralogy analysis to be undertaken. The investigations will focus on the Dolphin Bank and Dolphin Sand as to whether there is feedback from the offshore shoals onto the beaches at Poole Bay.

This, along with analysis of Regional Coastal Monitoring data will identify sediment transport directions and sources around Poole and Christchurch Bays which will inform the update of the Sediment Transport Study.

Dr Gallop has been scoping existing data and planning the fieldwork for next year.

Recommendation: For information

Channel Coastal Observatory – Seabed mapping project

Minor contribution of £3,000

The Channel Coastal Observatory was awarded £3,000 as a contribution towards seabed mapping of swath bathymetry data. The 2013 East Solent swath bathymetry has now been collected. The dataset is currently being processed, after which it will undergo quality control procedures.

Options to secure additional resources to seabed map the remainder of the dataset are being explored. In the event that additional resources cannot be secured, it was approved at the Southern Coastal Group meeting in September that £4,000 be awarded to enable a larger area to be mapped. The preferred block to be mapped is the area around Bracklesham Bay.

The outputs will feed directly into the update of the Sediment Transport Study.

Recommendation: For information

1.4 SOUTHERN COASTAL GROUP WORKSHOP

Feedback from the *Cliff Instability* workshop will be given at the meeting.

Recommendation: For information

1.5 UPDATE OF THE SCOPAC SEDIMENT TRANSPORT STUDY

Channel Coastal Observatory £150,000 (2012-2015) – funded by the Environment Agency with contributions from SCOPAC

The SCOPAC Sediment Transport Study (http://www.scopac.org.uk/scopac_sedimentdb/index.htm) is being updated by the Channel Coastal Observatory. The last update was undertaken in 2004 by the original authors, Dr Malcolm Bray, Dave Carter and Prof Janet Hooke.

Since 2004 there has been a wealth of data collected by the South-east and South-west Regional Coastal Monitoring Programmes. This data, along with new literature will be incorporated into the update.

Progress to date:

- Literature review undertaken for Christchurch Bay and the West Solent
- Contract set up with Dave Carter to work on literature review
- Reproduction of maps
- Waves roses
- Christchurch Bay pilot

Recommendation: For information

2. SUMMARY OF CURRENT AND NEW RESEARCH

The following programme of work was extracted from the Southern Coastal Group Business Plan (2009) as a reminder of the priorities for research approved by SCOPAC at its meeting on 15th February 2008, Item 28 (ii). The list of prioritised work was formalised following a 'Research Review'.

Completion of the following projects will be dependent on future funding availability.

2.2 NEW RESEARCH

- Saltmarsh evolution study: CCO - £15,000 (**Year 1**), £10,000 (**Year 2**).
- Validation of new Met office wave data: CCO/Southampton University £15,000 (**Year 1**), £10,000 (**Year 2**).
- Climate change local scenarios study: External consultants £35,000 (**Year 1**), £35,000 (**Year 2**).
- Design guidance for mixed beaches - £30,000 (**Year 1**), £30,000 (**Year 2**).

Contact : Dr Samantha Cope (Chairperson of the Research Sub-Group), Channel Coastal Observatory, Samantha.cope@noc.soton.ac.uk, tel 02380 598469

Agenda Item 6

Paper C - Report of Chairman of Southern Coastal Group

a Research proposal for performance of nearshore replenishment trials

At the last meeting of SCOPAC members agreed to research funding of £15,000 to support a study proposed by Poole Borough Council, to examine alternative methods of delivery of beach recharge materials. The approval was subject to additional supporting Environment Agency research funding.

A series of very encouraging discussions have taken place with the EA evidence team. As suggested previously, funding of £60,000 has been sought from the EA research programme, with the supporting contributions of £15,000 by SCOPAC. Further in kind contributions have been provided by Poole Borough Council, in connection with project development and through the Channel Coastal Observatory in connection with the regional coastal monitoring programme.

The administrative procedure to develop an EA funded research programme is quite complex and a series of exchanges have been made in conjunction with contractual detail and responsibilities. This is another new experience for SCOPAC since previous projects have not been conducted as part of the EA research programme; this new partnership demonstrates the confidence that other organisations have in SCOPAC and emphasizes the value of the SCOPAC research programme in attracting external funding. Similarly, this is a new, but welcome, experience for the EA who are encouraging the partnership approach to all aspects of their business.

Draft technical briefs have been prepared jointly with the EA and these are currently being discussed in detail. Contractual arrangements will be made between the EA and New Forest District Council, who will manage the research programme on behalf of SCOPAC and provide technical input through the Channel Coastal Observatory. All aspects of the engineering works will be managed by Poole Borough Council.

An important part of the process leading to commencement of the project is the marine licencing, which is being dealt with by Poole Borough Council. There are currently a number of issues that must be resolved prior to award of the licence, and the programme is ultimately dependent upon these issues being resolved.

The project is planned to commence in March of this year, with preliminary survey work commencing prior to that.

Recommendation: for information

B Model studies to examine beach response to combined swell and wind waves

Grant aid funding has been attracted from the EA in support of a regionwide programme to examine the impacts of combined swell and storm (bimodal) waves and the shingle beaches

of the SCOPAC region. This funding follows the SCOPAC supported investigations into extreme wave conditions and which has acted as the catalyst for this funding (£).

It was originally planned to carry out physical model tests during this year. Unfortunately the start of the programme has been delayed, since the only suitable UK based facility has been occupied by other studies. The facility has recently become available and we should be in a position to proceed with investigations within the next couple of months.

The availability of the facility is quite timely as it coincides with the recent field data that has been gathered in connection with the recent storms. The most recent of the storm events (6th January) was characterised by precisely those conditions that we have been concerned about. Sites at Chesil Beach, Hurst Spit and Hayling Island have all been affected by these storms and we intend to try to replicate some of the conditions within the models to aid the management of such sites in the future.

Although the test facility has only just become available other field based work has been carried out during the past year, which will feed into the design of the model.

A visit to the test facilities will be arranged once the model has been established.

Recommendation: for information

C National Network of Regional Coastal Monitoring Programmes

The recent storm events have provided the opportunity to demonstrate the value to all operating authority partners of the regional coastal monitoring programme.

Data from the programme has been used to support the Environment Agency flood forecasting team's decision making process and the network of wave buoys has been extensively used over this period. In particular the buoys in the west and the Chesil beach wave buoy has improved the ability to forecast the arrival of damaging swell waves under life and property threatening conditions.

The Channel Coastal Observatory survey team has a brief to provide support to the SCOPAC partner authorities following storm events and has been extremely busy providing rapid support to many partners. To date, post storm surveys have been conducted at Chesil beach, Preston beach, Hurst Spit, Medmerry, Sandbanks and Bournemouth. Further surveys are planned at Christchurch, Poole, Beaulieu and by the east solent team on Hayling Island.

Officers have been reviewing the current programme content and are examining the implications of reducing the content and costs of the next phase of the monitoring programmes, which will commence in 2017. The southeast will be well equipped with data extending over a period of 15 years by 2017. The programme maturity may offer some opportunities for a reduction in activities, without major impact on the ability to make sound decisions. The recent storm events have however indicated that it would be extremely unwise to lose the ability to mobilise survey teams at short notice to deal with emergency situations, and this will figure in the development of the programme.

Although the current programme is funded for the southeast until 2017, the target programme for submission of the application is January 2015.

Recommendation: for information

E Funding of Coastal Chairmen

Funding of Coastal Chairmen's (officers) costs for participation in national and regional strategic flood and coastal erosion risk management has been provided by the Environment Agency since it took over the strategic coastal overview role several years ago. Until last year costs were reimbursed to the coastal groups, but for the last year the contract to provide this service has been directly with the Southern Coastal Group Chairman. Members may recall that the EA contract conditions were considered by SCOPAC officers to place the potential host organisations at risk and it was considered more sensible to avoid these risks by making these alternative contractual arrangements.

A moratorium on strategic expenditure has been in place within the EA now since October 2013, which means that there is no funding available for the support of these activities; this includes attendance at RFCCs. Consequently the coastal chairmen have been unable to participate in these activities.

The moratorium is driven by the combination of a reasonably large national total claim for April-October and an unexpected call on budget to cover support provided to the River Restoration Centre, which means that the budget is spent for this year. That unfortunately means that the moratorium on strategic expenditure in October will need to extend until the end of this financial year.

Recommendation: for information

This page is intentionally left blank