

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
<b>Additional entries or adjustments to the 2015 Work Programme that was approved by EIHC5 are shown in RED</b>							
<b>PROGRAMME 1 - CORPORATE AFFAIRS</b>							
1 & 3	1.1	Co-operation with International Organizations and participation in relevant meetings			Objective / Deliverable: To maintain relationships with relevant international organizations in order to further the interests of the IHO by enlisting their support and cooperation and to participate in projects of common interest		
	1.1.1	Antarctic Treaty Consultative Meeting (ATCM)	Pres	ADCS	ensure HCA activities are recognised by ATCM, coordination and liaison		
	1.1.2	Comité International Radio Maritime (CIRM)	DTech	ADSO	present relevant IHO programmes, coordinate activities with OEMs, outreach, coordination and liaison		
	1.1.3	Council of Managers of National Antarctic Programs (COMNAP)	Pres	ADCS	present relevant IHO programmes, coordinate data acquisition activities with COMNAP, outreach, liaison		No meetings anticipated, low level correspondence only
	1.1.4	European Union Initiatives, including:	Pres	ADCS	ensure IHO activities are recognised and supported as appropriate by the EU, coordination and liaison		could be up to 4 meetings - only 2 are funded
	1.1.4.1	INSPIRE	DTech	ADDT	ensure that the maritime dimension of spatial data infrastructures is recognized in the Inspire framework		
	1.1.4.2	IHO-EU Network WG	DTech	ADCS			

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	1.1.5	International Federation of Surveyors (FIG)	DCoord	ADCC	present relevant IHO programmes, coordinate activities with FIG, outreach and liaison		representation not considered essential for FIG working week 2015
	1.1.6	International Federation of Hydrographic Societies (IFHS)	Pres	ADSO	present relevant IHO programmes, outreach via annual HYDRO meetings		
	1.1.6.1	HYDRO15			present relevant IHO programmes, outreach		SA to be requested to represent IHO IHB participation if back-to-back with SAIHC-12
	1.1.7	International Association of Antarctic Tour Operators (IAATO)	Pres	ADCS			No meetings anticipated
	1.1.8	IALA, such as:	DTech	ADSO			
	1.1.8.1	e-NAV Committee	DTech	ADSO	present relevant IHO programmes, provide S-100 liaison activities		
	1.1.8.2	Annual secretariat liaison meeting	Pres	ADSO	coordinate programmes, particularly CB		Possibly meeting back-to-back with another meeting
	1.1.9	International Association of Ports and Harbours (IAPH)	Pres	ADDT			No meetings anticipated
	1.1.10	International Cartographic Association (ICA) (such as ICA Commission on Geoinformation Infrastructures and Standards)	DTech	ADCC	coordinate programmes, particularly in relation with GI and training standards		BR has agreed to represent IHO
	1.1.11	International Electrotechnical Commission (IEC) (such as IEC Technical Committee 80)	DTech	ADDT	present relevant IHO programmes, coordinate S-100 and other IHO standards developments, liaison		no participation unless review of IEC 61174 requires IHO participation

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	1.1.12	International Maritime Organization (IMO), including:					
	1.1.12.1	Assembly	Pres	ADSO	present relevant IHO programmes and activities, outreach and liaison		
	1.1.12.2	Council	Pres	ADSO	present relevant IHO programmes and activities, outreach and liaison		
	1.1.12.3	MSC	Pres	ADSO	present relevant IHO programmes and activities, outreach and liaison		
	1.1.12.4.1	NCSR	DTech	ADSO	present relevant IHO programmes and activities, outreach and liaison		(text deleted)
	1.1.12.4.2	NCSR intersessional meeting on e-Nav	Dtech	ADSO	present relevant IHO programmes and activities, outreach and liaison		
	1.1.12.5	TCC	DCoord	ADCC	present relevant IHO programmes and activities, coordination with IMO TC, outreach and liaison		
	1.1.13	International Maritime Pilots' Association (IMPA)	Pres	ADSO			No meetings anticipated, low level correspondence only
	1.1.14	Intergovernmental Oceanographic Commission (IOC) of UNESCO, including:	DCoord	ADSO			
	1.1.14.1	Assembly 28	DCoord	ADSO	present relevant IHO programmes and activities, outreach and liaison		
	1.1.14.2	Council	DCoord	ADSO			No participation anticipated

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	1.1.14.3	IODE Committee	DTech	ADDT	Promote the use of S-100 by the IOC, outreach and liaison		BE or other nearby MS to be requested to represent IHO
	1.1.14.4	Specialized WGs -(such as GLOSS)	DTech	ADSO	ensure appropriate levels of coordination with IHO work items related to tides and surface currents	MS may not have resources or technical background to participate	MS to be requested to represent IHO if IHO technical support required
	1.1.15	International Organization for Standardization (ISO), including:	DTech	ADDT			
	1.1.15.1	ISO Technical Committee 211	DTech	ADDT	present relevant IHO programmes and activities, coordinate IHO standards development with ISO programmes, outreach and liaison		
	1.1.16	Joint Board of GIS (JB-GIS)	Pres	ADCS	present relevant IHO programmes and activities, outreach, coordination and liaison with other geospatial organisations		normally undertaken as a short side trip from another meeting = limited extra cost
	1.1.17	NATO geospatial bodies, such as:	DTech	ADDT			
	1.1.17.1	DGIWG	DTech	ADDT	coordination and liaison with other geospatial organisations		suitable volunteer MS to represent IHO
	1.1.18	UN, including:	Pres	ADCS			
	1.1.18.1	UNICPOLOS	Pres	ADSO	present new edition of TALOS manual to the relevant UN body and assist Monaco Ambassador to UN in recruiting new MS to IHO		

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	1.1.18.2.1	UN-GGIM	Pres	ADCS	present relevant IHO programmes and activities in relation to UN-GGIM programme to ensure that hydrography is appropriately represented in doctrine being developed by UN-GGIM and adopted by UN		
	1.1.18.2.2	UN-GGIM High Level Forum					
	1.1.18.3	UNISDR	Pres	ADSO	ensure that hydrography is appropriately accounted for in the post-2015 DRR framework to be adopted in 2015		JP will represent the IHO at 3rd World Conference on Disaster Risk Reduction
	1.1.19	World Meteorological Organization (WMO)	Pres	ADSO	ensure appropriate levels of coordination with IHO work items related to WWNWS and MSI delivery		No meetings anticipated, low level correspondence only,
	1.1.19.1	Participation at ETMSS, ETSI and other JCOMM meetings	DTech	ADSO	ensure appropriate levels of coordination with IHO work items related to WWNWS and MSI delivery		see 2.1.4

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	1.1.20	Other organizations when their agendas have relevance to the programme of the IHO, such as : Group on Earth Observation (GEO); Pan-American Institute of Geography and History (PAIGH); Port Management Association West and Central Africa (PMAWCA) & Maritime Organizations of West and Central Africa (MOCWA); the Scientific Committee on Antarctic Research (SCAR); Global Partnership for Oceans (GPO)	Pres or Director and AD responsible for the relevant RHC when appropriate		ensure IHO programmes and outcomes are recognised and coordinated with other organizations as appropriate		Funding only available to attend up to 2 meetings. Local MS will be requested to represent IHO at other meetings as required
	1.1.20.1	Asia Pacific Heads of Maritime Safety Agencies (APHoMSA)	Pres	ADSO	ensure IHO regional programmes are recognised and coordinated with APHoSMA regional programmes as appropriate		Local MS will be requested to represent IHO at other meetings as required
	1.1.20.2	International Steering Committee for Global Mapping (ISCGM)	Pres	ADCS	ensure IHO programmes and outcomes are recognised and coordinated with ISCGM as appropriate	MS may not have resources or technical background to participate	Local MS will be requested to represent IHO at other meetings unless meeting held back-to-back with other event attended by IHB
	1.1.21	Shallow Survey 2015	Pres	ADSO	present relevant IHO programmes, outreach		
1 & 4	1.2	Information Management			Objective / Deliverable: To provide MS and IHO stakeholders with accurate and relevant information in a timely and accessible manner		
	1.2.1	Compile and publish the following documents that are not allocated to a specific IHO body, including:					
	1.2.1.1	P-5 – IHO Yearbook	Dtech	ADDT			

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	1.2.1.2	P-7 – IHO Annual Report	DCoord	ADCC			
	1.2.1.3	S-11 Part B - Catalogue of INT Charts	Pres	ADCS	S-11 database and auto-publisher		see 2.3.2.6
	1.2.1.4	M-3 – IHO Resolutions	Pres	ADSO	Appropriateness and currency of Resolutions related to current WP items		
	1.2.2	Maintain and extend IHB Admin IT infrastructure, including:	Pres	ADDT			
	1.2.2.1	high volume printers and photocopiers					
	1.2.2.2	IT maintenance and development					
	1.2.2.3	IT equipment purchases					
	1.2.3	Communication between the IHB and Member States through Circular Letters	Pres	ADSO			
	1.2.4	IHB Technical Library – incorporate new material	Pres	ADSO			
3	1.3	Public Relations			Objective / Deliverable: To raise awareness of the role of the IHO and its Member States and the importance of hydrography, particularly by government and in the user community		
	1.3.1	Maintain relationships with the Government of Monaco and the diplomatic corps accredited in Monaco	Pres	MFA			
	1.3.2	Compile and publish P-1 – International Hydrographic Review in collaboration with IHR editor	DCoord	ADCC		Contribution of suitable papers from MS and others	
	1.3.3	World Hydrography Day, including:	DCoord	ADCC			
	1.3.3.1	Preparation of support materiel	DCoord	ADCC			
	1.3.3.2	Celebratory events in Monaco	DCoord	ADCC			
	1.3.3.3	Celebratory events in Member States	DCoord	ADCC			
	1.3.4	General Public Relation support. Representation expenses	Pres	ADCC	Raising levels of awareness of IHO and hydrography		
	1.3.4.1	Compile and publish International Hydrographic Bulletin	Pres	ADSO			

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1	1.4	Work Programme & Budget, Strategic Plan and Performance Monitoring			Objective / Deliverable: To ensure that the formulation and the execution of the IHO Work Programme and Budget is managed, monitored and executed efficiently to best meet the requirements of Member States and the interests of stakeholders. This Element focuses on the implementation of the IHO's Strategic Plan particularly with regard to risk assessment and performance indicators		
	1.4.1	Implement and administer processes for programme management, performance monitoring and risk assessment, including the acquisition and operation of suitable business software tools	Pres	ADCC	Continuing development of processes to better monitor progress, execution and achievement of the IHO WP		included in the overall IT support budget
	1.4.2	Execute the IHO Work Programme and Budget approved by the XVIIIth IHC, monitoring its progress and adopting the necessary adjustment according to the circumstances	Pres	MFA			
	1.4.3	Conduct biennial IHO stakeholders' forums	DTech	as required according to topics	Collect feedback from stakeholders on critical issues	Input from and participation of the relevant IHO Working Groups	
1	1.5	IHB Management			Objective / Deliverable: To ensure that the IHB meets the requirements set by the Member States, by providing the best service (quality, opportunity, reasonable cost) within the resources available		
	1.5.1	Maintain, update and develop necessary procedures to facilitate and improve effectiveness of the general and permanent Finance and Administrative work.	Pres	MFA			
	1.5.1.1	Staff training	Pres	MFA	Enhancement of staff skills to meet changing job requirements		



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	1.5.2	Provide in-house translation service English/French and French/English in support of the IHO WP. Include Spanish translations as much as possible in accordance with relevant IHO Resolutions	Pres	ADSO		IHB staff capacity	
	1.5.3	Engage contract support to provide on-off development or maintenance support beyond the resources or competence of the IHB, including:	Pres	MFA	Advancement of one-off IHB tasks beyond the capability or resources of IHB		
	1.5.3.1	Translation	Pres	ADSO			
	1.5.3.2	Technical editing	DTech	As required according to topic			
	1.5.3.3	Cataloguing the IHO working document archive	Pres	ADSO			
	1.5.4	Monitor and maintain the Staff Regulations and the Job Descriptions of the IHB Staff in step with the evolution of the IHO work programme and IHO requirements.	Pres	MFA			
	1.5.5	Maintain the IHB premises as required as the occupant. Maintain furniture, carry out renovations or modifications as requirements arise	Pres	MFA			
1 & 4	1.6	International Hydrographic Conference			Objective / Deliverable: To ensure the successful functioning of Conferences or Assemblies so that they fulfil their top-level governance and decision-making functions in accordance with Convention and the other Instruments of the Organization		
	1.6.1	Organize IHC-19 / Assembly-1 in 2017	DCoord	ADCC			
	1.6.1.1	P-6 - Compile and publish Report on EIHC-5	DCoord	ADCC			

## PROGRAMME 2 - SERVICES AND STANDARDS

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
2	2.1	Technical Programme Coordination			Objective / Deliverable: To monitor technical developments, oversee the development of IHO technical standards, specifications and publications through the coordination and interaction of relevant IHO Working Groups, and to make recommendations to Member States		
	2.1.1	Conduct annual meeting of HSSC	DTech	ADCS	Implementation of HSSC WP HSSC forward WP Performance statistics		no host identified therefore Monaco assumed as venue - venue other than Monaco will incur additional costs to IHO budget - meeting to include stakeholders forum tbc
	2.1.1.1	Chair briefing	DTech	ADCS	Efficient running of HSSC-7		
	2.1.2	Support the IHB to implement the planning mechanism annually and at the end of each 5-year (3-year) cycle by:	DTech				
	2.1.2.1	Contributing to the IHO Annual Report.	DTech	ADCS			
	2.1.2.2	Updating and implementing the HSSC Work Programme	DTech	ADCS			
	2.1.2.3	Implementing the restructuring of HSSC Working Groups	DTech	ADCS	Feedback at HSSC-7		
	2.1.3	Provide technical advice and guidance on IHO technical standards, specification and publications	DTech	ADDT	Promote uptake of S-100 and S-100 based product specifications		Includes participation in e-Navigation underway conference. In support of 2.2.5

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3 & 4	2.2	Hydrographic Data Transfer Standards			Objective / Deliverable: To monitor developments related to transfer standards for digital hydrographic data, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate		
	2.2.1	Conduct meetings of relevant HSSC S-100 and ENC Standards Maintenance WGs dealing with hydrographic data transfer standards	DTech	ADDT	Implementation of HSSC Work Plan		Implementation of the new HSSC structure : S-100 WG & ENCMWG
	2.2.2	Maintain and extend the relevant IHO standards, specifications and publications, using contract support assistance as appropriate, including:	DTech	ADDT	Implementation of HSSC Work Plan		funded from Special Projects Fund according to funding availability and on a priority basis set by HSSC
	2.2.2.1	S-57 IHO Transfer Standard for Digital Hydrographic Data	DTech	ADDT	Encoding Bulletins as required to keep S-57 fit for purpose		
	2.2.2.2	S-100 IHO Universal Hydrographic Data Model	DTech	ADDT	Edition 2.0.0 approved by MS		
	2.2.2.2.1	S-100 /S-101 Testbed	DTech	ADDT	Support the end-to-end testing of S-101 and other S-10x specifications in compliance with TR 2/2007		
	2.2.2.3	S-101 ENC Product Specification	DTech	ADDT	Edition 0.0.0 (draft) approved by Member States for test-bed purposes		
	2.2.2.4	S-102 Bathymetric Surface Product Specification	DTech	ADDT			Revision may be required from task 2.7.5

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	2.2.2.5	S-58 Recommended ENC Validation Checks	DTech	ADDT	Implementation of Edition 5.0.0 in conjunction with new edition of IEC 61174		
	2.2.2.6	S-65 ENC Production Guidance	DTech	ADDT			
	2.2.2.7	S-64 IHO Test Data Sets for ECDIS	DTech	ADDT	Implementation of Edition 3.0.0 in conjunction with new edition of IEC 61174		
	2.2.2.8	S-61 Product Specification for Raster Navigational Charts	DTech	ADDT			No action required
	2.2.2.9	S-99 Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry	DTech	ADDT	Keep S-99 fit for purpose		
	2.2.2.10	S-66 Facts about Electronic Charts and Carriage Requirements	DTech	ADCS	Draft Edition 2.0.0 submitted to HSSC		task conducted by correspondence
	2.2.2.11	Participate in RENC Joint Technical Experts WG (JTEWG)	DTech	ADDT			
	2.2.2.12	Appendix 1 to S-52 - Guidance on Updating the Electronic Navigational Chart	DTech	ADCS	Keep S-52 Appendix 1 fit for purpose		was previously numbered 2.3.2.8.1
	2.2.2.13	S-52 and its accompanying Presentation Library - Specifications for Chart Content and Display Aspects of ECDIS	DTech	ADCS	PL as required to keep S-52 fit for purpose		was previously numbered 2.3.2.8.2
	2.2.3	Develop and maintain as-yet undefined S-100-based Product Specifications	DTech	ADDT	Template Product Specification for Marine Information Overlays (MIO)		funded from Special Projects Fund according to funding availability and on a priority basis set by HSSC
	2.2.4	Maintain and extend S-100 registry	DTech	ADDT	Keep the Registry fit for purpose	Dependent of continuing UKHO support and limited IHB resources	

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	2.2.5	Provide outreach and technical assistance regarding transfer standards	DTech	ADDT			see 2.1.3
2	2.3	Nautical Cartography			Objective / Deliverable: To monitor developments related to nautical cartography for paper nautical charts and the colours, symbols and display rules used to show SENC information on ECDIS, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate		
	<del>2.3.1</del>	<del>Conduct meetings of relevant HSSC WGs dealing with nautical cartography</del>	<del>DTech</del>	<del>-ADCS</del>	<del>Implementation of HSSC Work Plan</del>		
	2.3.1.1	Conduct meetings of Chart Standardization and Paper Chart Working Group Nautical Cartography Working Group	DTech	ADCS	Implementation of HSSC Work Plan		CSPCWG renamed NCWG
	2.3.1.2	Digital Information Portrayal Working Group	-DTech	ADCS			DIPWG likely to be disbanded 1 Jan 2015
	2.3.2	Maintain and extend the relevant IHO standards, specifications and publications, using contract support assistance as appropriate, including:	DTech				
	2.3.2.1	S-4 Chart Specifications of the IHO and Regulations for International (INT) Charts	DTech	ADCS	Keep S-4 fit for purpose		Routine maintenance
	2.3.2.2	INT 1 - Symbols, Abbreviations and Terms used on Charts	DTech	ADCS	New edition(s) in 2015-2016		
	2.3.2.3	INT 2 - Borders, Graduations, Grids and Linear Scales	DTech	ADCS			
	2.3.2.4	INT 3 - Use of Symbols and Abbreviations	DTech	ADCS			
	2.3.2.5	S-11 Part A - Guidance for the Preparation and Maintenance of INT Chart schemes	DTech	ADCS	Keep S-11 fit for purpose		
	2.3.2.6	S-11 Part B - Catalogue of INT Charts	DTech	ADCS	Keep S-11 Part B current		See also 1.2.4.4
	2.3.2.7	S-49 Standardization of Mariners' Routeing Guides	DTech	ADCS	Keep S-49 fit for purpose		
	<del>2.3.2.8</del>	<del>Digital data updating related elements of</del>					
	2.3.2.8.1	Appendix 1 to S-52 – Guidance on Updating the Electronic Navigational Chart	-DTech	ADCS	Keep S-52 Appendix 1 fit for purpose		now included as 2.2.2.12

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	2.3.2.8.2	S-52 and its accompanying Presentation Library-- Specifications for Chart Content and Display Aspects of ECDIS	-DTech	ADCS	PB as required to keep S-52 fit for purpose		now included as 2.2.2.13
	2.3.2.8.3	Portrayal related elements of S-101 – ENC Product Specification and other S-100-based Product Specifications	-DTech	ADCS			now included in items 2.2.2.3 and 2.2.3
2	2.4	Digital Data Protection and Authentication			Objective / Deliverable: To monitor developments related to data protection and data authentication, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate		
	2.4.1	Conduct meetings of relevant HSSC Data Protection WGs dealing with Data Protection and Authentication	DTech	ADDT			
	2.4.2	Maintain and extend the relevant IHO standards, specifications and publications, including:	DTech				
	2.4.2.1	S-63 IHO Data Protection Scheme		ADDT	Keep S-63 fit for purpose	Lack of appropriate expertise	
	2.4.2.2	Data protection and authentication related elements of:		ADDT			
	2.4.2.2.1	S-100 - IHO Universal Hydrographic Data Model		ADDT	see 2.2.2.2		
	2.4.2.2.2	Data protection and authentication related elements of S-101 - ENC Product Specification		ADDT	see 2.2.2.3		
2	2.5	Data Quality			Objective / Deliverable: To monitor developments related to methods of classifying and depicting the quality of hydrographic information, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate		
	2.5.1	Conduct meetings of relevant HSSC Data Quality WG dealing with data quality	DTech	ADCS	Implementation of HSSC Work Plan		
	2.5.2	Maintain and extend the relevant IHO standards, specifications and publications, including:	DTech				
	2.5.2.1	Data quality related elements of S-57 - IHO Transfer Standard for Digital Hydrographic Data	DTech	ADCS	see 2.2.2.1		
	2.5.2.2	Data quality related elements of S-100 - IHO Universal Hydrographic Data Model	DTech	ADCS	see 2.2.2.2		

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	2.5.2.3	Data quality related elements of:	DTech				
	2.5.2.3.1	S-52 - Specifications for Chart Content and Display Aspects of ECDIS	DTech	ADCS	see 2.3.2.8.1		
	2.5.2.3.2	S-101 - ENC Product Specification and other S-100-based Product Specifications	DTech	ADCS	see 2.2.2.3		
2	2.6	Nautical Publications			Objective / Deliverable: To monitor developments related to the preparation of nautical publications, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate		
	2.6.1	<del>Conduct meetings of relevant HSSC Nautical Information Provision WG (NIPWG) dealing with nautical publications</del>	DTech	ADDT ADCS	Implementation of HSSC Work Plan		<del>intended to be merged into NIPWG</del>
	2.6.2	Develop, maintain and extend S-10n - Nautical Information Product Specification	DTech	ADDT	Draft Product Specification for Marine Protected Areas (S-122)		
	2.6.3	Maintain and extend the relevant IHO standards, specifications and publications, including:	DTech	ADSO			
	2.6.3.1	IHO Resolutions in M-3 relating to Nautical Publications	DTech	ADSO	Keep the Resolutions fit for purpose		
	2.6.3.2	S-12 Standardization of List of Lights and Fog Signals	DTech	ADSO	Keep S-12 fit for purpose		
2	2.7	Tides and Water Levels			Objective / Deliverable: To monitor developments related to tidal and water level observation, analysis and prediction and other related information including vertical and horizontal datums, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate		
	2.7.1	<del>Conduct meetings of relevant HSSC the Tides, currents and water Levels WG (TWCWG)s dealing with tides and water levels</del>	DTech	ADSO	Implementation of HSSC Work Plan		TWLWG and SCWG combined as TWCWG effective 1 Jan 2015 <a href="#">see also 2.13</a>

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	2.7.2	Maintain and extend the relevant IHO standards, specifications and publications, including:	DTech				
	2.7.2.1	Relevant IHO Resolutions in M-3	DTech	ADSO	Keep the Resolutions fit for purpose		
	2.7.2.2	S-60 User's Handbook on Datum Transformations involving WGS 84	DTech	ADSO			Publication frozen
	2.7.2.3	Standard Tidal Constituent List	DTech	ADSO	Keep the List fit for purpose		
	2.7.2.4	Inventory of Tide Gauges used by Member States	DTech	ADSO	Keep the inventory current		
	2.7.3	Develop, maintain and extend a Product Specification for digital tide tables	DTech	ADSO	Prepare draft Standard	Lack of WG expertise and OEM participation	
	2.7.4	Develop, maintain and extend a Product Specification for the transmission of real-time tidal data	DTech	ADSO	Compare XML datasets to create common format aligned to INSPIRE and other developed formats in use	Lack of WG expertise and OEM participation	
	2.7.5	Develop, maintain and extend a Product Specification for dynamic tides in ECDIS	DTech	ADSO	Meet the requirements of the E-Navigation Strategy Implementation Plan	Lack of WG expertise and OEM participation	
2	2.8	Digital Data Updating			Objective / Deliverable: To monitor developments in standardized processes for the updating of digital hydrographic data products, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate		
	2.8.1	Maintain and extend the relevant IHO standards, specifications and publications, including:	DTech				
	2.8.1.1	Digital data updating related elements of S-65 - ENC Production Guidance	DTech	ADCS	see 2.2.2.6		
	2.8.1.2	S-52 Appendix 1 - Guidance on Updating the Electronic Navigational Chart	DTech	ADCS	see 2.3.3.8.1		
2 & 4	2.9	Marine Spatial Data Infrastructures (Transferred to Programme 3 on 1 Jan 2015 and renumbered as element 3.9)			Objective / Deliverable: To monitor developments related to the hydrographic component of Spatial-Data-Infrastructures, to develop and maintain the relevant IHO publications, and to provide technical advice as appropriate		



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2	2.10	Hydrographic Data Acquisition and Processing			Objective / Deliverable: To monitor developments related to hydrographic data acquisition and processing, to develop and maintain the relevant IHO publications, and to provide technical advice as appropriate		
	2.10.1	Conduct annual meetings of relevant HSSC S-44WG dealing with hydrographic data acquisition and processing- (if WG activated)	DTech	ADSO			
	2.10.2	Maintain and extend, when required, the relevant IHO standards, specifications and publications, including:	DTech				
	2.10.2.1	S-44 - IHO Standards for Hydrographic Surveys	DTech	ADSO	WG dormant		
4	2.11	Hydrographic Dictionary			Objective / Deliverable: To develop, maintain and extend S-32 - Hydrographic Dictionary in English, French and Spanish and to provide technical advice as appropriate		
	2.11.1	Maintain and extend the IHO Hydrographic Dictionary in English, French and Spanish.	DTech	ADSO	Implementation of HSSC Work Plan	more active participation of MS during definition development stage - especially Spanish speaking MS	For WP to progress, a face-to-face meeting is required, but has not been planned due to lack of active participants in WG
	2.11.2	Develop the Spanish language Wiki version of S-32 with commercial contract support	DTech	ADSO		Lack of IHB resources	Officer from Peru may take on task, if seconded and suitable.
2 & 4	2.12	ABLOS			Objective / Deliverable: To monitor developments related to the hydrographic aspects of the UN Convention on the Law of the Sea, to develop and maintain the relevant IHO publications, and to provide technical advice as appropriate		

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	2.12.1	Organize and prepare ABLOS annual business meeting	DTech	ADSO	Implementation of HSSC Work Plan		Meeting in Monaco in conjunction with ABLOS Conference
	2.12.2	Organize and prepare the biennial ABLOS Conference	DTech	ADSO			Next ABLOS Conference in 2015
	2.12.3	Contribute to the revision of IHO publication C-51-TALOS Manual	DTech	ADSO			
2	2.13	Surface Currents			Objective / Deliverable: To monitor developments related to surface current observation, analysis and prediction and other related information including vertical and horizontal datums, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate		
	2.13.1	Conduct meetings of relevant HSSC WGs dealing with surface currents	DTech	ADSO	Implementation of HSSC Work Plan		See TWCWG + project team TWLWG and SCWG combined as TWCWG effective 1 Jan 2015 see 2.7.1
	2.13.2	Maintain and extend the relevant IHO standards, specifications and publications, including:	DTech				
	2.13.2.1	Relevant IHO Resolutions in M-3	DTech	ADSO	Keep the Resolutions fit for purpose		
	2.13.2.2	S-60 User's Handbook on Datum Transformations involving WGS 84	DTech	ADSO			this is addressed at 2.7.2.2

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	2.13.2.3	Standard Tidal Constituent List Inventory of Tide Gauges used by MS	DTech	ADSO			this is addressed at 2.7.2.3 and 2.7.2.4
	2.13.3	Develop, maintain and extend a Product Specification for the transmission of real-time surface current data	DTech	ADSO	Create mature draft S-111 PS, including draft list of attributes and encoding	Limited WG expertise and OEM participation	
	2.13.4	Develop, maintain and extend a Product Specification for dynamic surface currents in ECDIS	DTech	ADSO	Demonstrate test portrayal S-111 PS	Limited WG expertise and OEM participation	held in conjunction with 2.13.1 Former SCWG to operate as a project team reporting to TWCWG
<b>PROGRAMME 3 - INTER REGIONAL COORDINATION AND SUPPORT</b>							
1 & 2	3	Inter-Regional Coordination Committee (IRCC)				Objective / Deliverable: To promote and coordinate those activities that might benefit from a regional approach: - establish, coordinate and enhance cooperation in hydrographic activities amongst States on a regional basis, and between regions; - establish co-operation to enhance the delivery of capacity building programs; - monitor the work of specified IHO Inter-Organizational Bodies engaged in activities that require inter-regional cooperation and coordination.	
	3.0.1	Conduct annual meeting of IRCC	DCoord	ADCC	Implementation of IRCC WP IRCC forward WP Performance statistics		
	3.0.1.1	Chair briefing	DCoord	ADCC	Efficient running of IRCC-7		

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	3.0.2	Support the IHB to implement the planning mechanism annually and at the end of each 5-year (3-year) cycle by:	DCoord				
	3.0.2.1	Contributing to the IHO Annual Report.	DCoord	ADCC			
	3.0.2.2	Updating and implementing the IRCC Work Programme	DCoord	ADCC			
1 & 2	3.1	Cooperation with Member States and attendance at relevant meetings		Objective / Deliverable: To facilitate IHO MS coordination, cooperation and collaboration to improve hydrographic services and the provision of hydro-cartographic products through the structure of the RHCs			
	3.1.1	ARHC – Arctic Region Hydrographic Commission	Pres	ADCS			
	3.1.2	BSHC - Baltic Sea Hydrographic Commission	DCoord	ADSO			
	3.1.3	EAHC - East Asia Hydrographic Commission	Pres	ADDT			Steering Committee Meeting
	3.1.4	EATHC - Eastern Atlantic Hydrographic Commission	DTech	ADCS			No meeting planned in 2015
	3.1.5	MACHC - Meso American and Caribbean Sea Hydrographic Commission	Pres	ADCC			
	3.1.6	MBSHC - Mediterranean and Black Seas Hydrographic Commission	DCoord	ADCS			including BASWG
	3.1.7	NHC - Nordic Hydrographic Commission	DTech	ADDT			
	3.1.8	NIOHC - North Indian Ocean Hydrographic Commission.	DCoord	ADSO			
	3.1.9	NSHC - North Sea Hydrographic Commission	DTech	ADSO			No meeting planned in 2015
	3.1.10	RSAHC - ROPME Sea Area Hydrographic Commission	DCoord	ADSO			
	3.1.11	SAIHC - Southern Africa and Islands Hydrographic Commission	Pres	ADDT			
	3.1.12	SEPRHC - South East Pacific Regional Hydrographic Commission	DTech	ADCC			

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	3.1.13	SWAtHC - South West Atlantic Hydrographic Commission	DTech	ADCC			
	3.1.14	SWPHC - South West Pacific Hydrographic Commission	Pres	ADCC			
	3.1.15	USCHC - USA and Canada Hydrographic Commission.	DCoord	ADDT			
	3.1.16	HCA - Hydrographic Commission on Antarctica.	Pres	ADCS			
	3.1.16.1	HCA to conduct a risk assessment for the Antarctic region and develop a Work Program to improve Antarctic charting	Pres	ADCS			
	3.1.17	WEND Working Group	DCoord	ADCS			See also 3.6.2
	3.1.18	Industry participation in RHC meetings	Director & AD responsible for relevant RHC				
	3.1.19	Contribute to improving the framework of IHO response to marine disasters	DCoord	ADSO			
1 & 3	3.2	Increase participation by non-Member States			Objective / Deliverable: To raise awareness in non-Member States of the importance of hydrography and nautical charting services and their related products. Give advice to Coastal States on how to comply with international regulations such as SOLAS Chapter V and highlight the importance of coordinated efforts in providing for safety of navigation and protection of the marine environment. Stress the importance of becoming an IHO Member State and of integration in the work of the RHCs		
	3.2.1	EAHC - Execute strategy to increase participation of non-Member States in IHO activities and advise them on how to comply with international regulations such as SOLAS V.	Pres	ADDT			
	3.2.2	EAtHC - Execute strategy to increase participation of non-Member States in IHO activities and advise them on how to comply with international regulations such as SOLAS V	DTech	ADCS			

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	3.2.2.1	Maintain contact with pending applicants in the region to encourage the ratification of the IHO Convention	DTech	ADCS	Ratification of the IHO Convention by Mauritania and Sierra Leone		
	3.2.2.2	Maintain contact with suspended Member State in the region to encourage its re-insertion in IHO	DTech	ADCS	Re-integration of the Democratic Republic of Congo		
	3.2.3	MACHC - Execute strategy to increase participation of non-Member States in IHO activities and advise them on how to comply with international regulations such as SOLAS V.	Pres	ADCC			
	3.2.3.1	Maintain contact with pending applicant in the region to encourage the ratification of the IHO Convention	Pres	ADCC			
	3.2.3.2	Maintain contact with suspended Member State in the region to encourage its re-insertion in IHO	Pres	ADCC			
	3.2.4	MBSHC - Execute strategy to increase participation of non-Member States in IHO activities and advise them on how to comply with international regulations such as SOLAS V	DCoord	ADCS			Target non-Member States: Albania, Bulgaria, Israel, Lebanon, Libya, Malta
	3.2.4.1	Maintain contact with pending applicants in the region to encourage the ratification of the IHO Convention	DCoord	ADCS	Ratification of the IHO Convention by Bulgaria		
	3.2.4.2	Maintain contact with suspended Member State in the region to encourage its re-insertion in IHO	DCoord	ADCS			

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	3.2.5	NIOHC - Execute strategy to increase participation of non-Member States in IHO activities and advise them on how to comply with international regulations such as SOLAS V	DCoord	ADSO			Target non-Member States: Jordan, Sudan, Maldives, Seychelles , Yemen, Eritrea, Djibouti, Somalia
	3.2.6	RSAHC - Execute strategy to increase participation of non-Member States in IHO activities and advise them on how to comply with international regulations such as SOLAS V	DCoord	ADSO			Target non-Member State: Iraq
	3.2.7	SAIHC - Execute strategy to increase participation of non-Member States in IHO activities and advise them on how to comply with international regulations such as SOLAS V.	Pres	ADDT			<b>Target non-Member States:</b> Angola, Comores, Kenya, Madagascar, Malawi, Namibia, Seychelles & Tanzania
	3.2.8	SEPRHC - Execute strategy to increase participation of non-Member States in IHO activities and advise them on how to comply with international regulations such as SOLAS V.	DTech	ADCC			
	3.2.8.1	Continue the efforts to include Panama as Observer Country to the Commission.	DTech	ADCC	Participation of Panama in SEPRHC-12		
	3.2.9	SWAtHC - Execute strategy to increase participation of non-Member States in IHO activities and advise them on how to comply with international regulations such as SOLAS V	DTech	ADCC			Target non-Member States: Bolivia and Paraguay

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	3.2.10	SWPHC - Execute strategy to increase participation of non-Member States in IHO activities and advise them on how to comply with international regulations such as SOLAS V	Pres	ADCC			
	3.2.11	RHCs to encourage the approval of pending applications for IHO membership	Director & AD responsible for relevant RHC				
	3.2.12	IHO Convention:	Director & AD responsible for relevant RHC				
	3.2.12.1	RHCs to encourage the ratification of the IHO Convention by approved applicants.					
	3.2.12.2	Secure the ratification of the Protocol of Amendments to the IHO Convention.					
1 & 4	3.3	Capacity Building Management			Objective / Deliverable: To maintain an IHO Strategy on Capacity Building (CB), and the establishment of coordination, operational and control procedures directed to achieve effective and efficient interaction between all parties involved in the IHO CB effort		
	3.3.1	CBSC - Capacity Building Sub-Committee, including:	DCoord	ADCC			
	3.3.1.1	Organize, prepare, conduct and report annual CBSC meetings	DCoord	ADCC	Efficient running of CBSC13		held back-to-back with IRCC7, so per diem only - see 3.0.1
	3.3.1.2	Chair briefing	DCoord	ADCC	Efficient running of CBSC13		
	3.3.1.3	Follow-up the coordination required to execute the action lists agreed	DCoord	ADCC			
	3.3.1.4	Maintain IHO publication M-2 - The Need for National Hydrographic Services	DCoord	ADCC			
	3.3.1.5	Contribute to the development of MSDI	DCoord	ADCC			



Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	3.3.2	Manage Capacity Building Fund	DCoord	ADCC, MFA			
	3.3.2.1	Develop and maintain a CB Management system	DCoord	ADCC			
	3.3.3	Meetings with other organizations, funding agencies, private sector and academia	DCoord	ADCC	Increase the CB Fund		
	3.3.3.1	Joint IHO/IMO/WMO/IOC/IAEA/IALA/FIG Capacity Building Meeting	DCoord	ADCC			
	3.3.3.2	Capacity Building Stakeholders Forum	DCoord	ADCC			No meeting planned in 2015
	3.3.4	IHO Capacity Building Strategy. CBSC to keep the IHO Capacity Building Strategy updated. At each CBSC meeting, the Sub-Committee is to review the Strategy in the light of new elements, update it accordingly and display it in the IHO website.	DCoord	ADCC			
	3.3.5	Capacity Building Work Programme	DCoord	ADCC			
	3.3.5.1	CBSC to study the CB needs presented to the CBSC by the RHCs, to foster the sharing of lessons learned and to help RHCs to develop best practices	DCoord	ADCC			
	3.3.5.2	CBSC to develop and propose an annual IHO Capacity Building Work Program (CBWP) to be included in the general IHO WP	DCoord	ADCC			
	3.3.5.3	CBSC to maintain and control the execution of the approved CBWP	DCoord	ADCC			See Annex
	3.3.6	Follow-up of CB activities and initiatives, including:	DCoord				
	3.3.6.1	CBSC to follow-up the CB activities and initiatives, especially those for which the CB Fund and MSs have contributed	DCoord	ADCC			
	3.3.6.2	To study and install measures to improve the technical work with the Management Plan, i.e. developing a database, aiming at reducing the administrative work	DCoord	ADCC			

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	3.3.7	IBSC - International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers	DCoord	ADCC			
	3.3.7.1	Conduct and report annual IBSC meetings	DCoord	ADCC			
	3.3.7.2	Implement the IBSC Work Programme including	DCoord	ADCC			
	3.3.7.2.1	IBSC Stakeholders' Seminar	DCoord	ADCC			In conjunction with 3.3.7.1
	3.3.7.3	Manage the IBSC Fund and report to IHO	DCoord	ADCC			
	3.3.8	Provide guidance to training institutions	DCoord	ADCC			
	3.3.9	Maintain IBSC Publications (C-6, C-47, S-5, S-8)	DCoord	ADCC		lack of availability of IBSC members	
	3.3.9.1	IBSC to develop a new Standards framework to separate competency requirements for Cat A and Cat B	DCoord	ADCC			5 IBSC meetings, TBD
3 & 4	3.4	Capacity Building Assessment			Objective / Deliverable: To assess the hydrographic surveying, nautical charting and nautical information status of nations and regions where hydrography is developing. Provide guidelines for the development of local hydrographic capabilities taking into account the regional context and possibilities of support for shared capabilities. Identify regional requirements and study the possibilities for capacity building assistance and training from the CB Fund and other sources		
	3.4.1	Technical and advisory visits. RHCs, with the support of the CBSC Chair and IHB, to establish appropriate teams of experts and to schedule and undertake Technical and Advisory Visits to assess the status of hydrography, cartography and aids to navigation in accordance with the IHO CBWP	Director & AD responsible for relevant RHC				See CB WP Annex
	3.4.2	Enhance publication C-55. IHB with the support of the RHCs, CBSC and GGC to develop a new framework for C-55	DCoord	ADCC			

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	3.5				Objective / Deliverable: To undertake initiatives for the provision of general support, training and education to address identified CB shortcomings; identify aid agencies and other sources of funds; liaise with MS, other organizations and funding agencies for such provision and establish and participate in joint development projects		
	3.5.1	Raise Awareness on the Importance of Hydrography	DCoord	ADCC			
	3.5.1.1	Revise M-2 - The Need for National Hydrographic Services	Pres	ADCC			
	3.5.2	Technical Workshops, Seminars, Short Courses	DCoord	ADCC			See CB WP Annex
	3.5.3	IHB, in conjunction with IBSC and CBSC, to encourage the development and delivery of new Hydrographic and Nautical Cartography Programs, including the establishment of new Hydrographic Schools where that regional capacity does not exist. Report to the IHO on the results	DCoord	ADCC			
	3.5.4	On the Job Training (ashore / on board). CBSC, with IHB support, to investigate "on-the-job training opportunities" ashore and on board (ships of opportunity)	DCoord	ADCC			
	3.5.5	IHB, with the support of CBSC and RHCs, to ensure awareness of multilateral or bilateral projects with hydrographic and/or cartographic components, and to provide advice to governments, project managers and funding agencies on the importance of including a hydrographic Capacity Building Component. Report to IHO annually on the results obtained	DCoord	ADCC			
	3.5.6	CBSC to foster bilateral agreements in order to help satisfy SOLAS V/9	DCoord	ADCC			

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
2	3.6	Coordination of Global Surveying and Charting			Objective / Deliverable: To facilitate the achievement of a world-wide quality nautical charting coverage to suit the needs of the mariner in support of safe and efficient navigation through the development of specifications and standards for the production, distribution and updating of cartographic products and supporting publications		
	3.6.1	C-55 Status of Hydrographic Surveying and Nautical Charting World-wide	DCoord	ADCC			
	3.6.1.1	MS to provide annual updates to C-55	DCoord	ADCC			
	3.6.1.2	IHB to implement new framework for publication C-55	DCoord	ADCC	C-55 GIS solution implemented	lack of funds for ongoing support and maintenance of GIS software solution	
	3.6.1.3	IHB to report periodically to IMO on limitations and requirements for improvements in global charting and associated services	DCoord	ADCS			
	3.6.2	WEND WG to foster the implementation of the WEND principles, monitor progress and report to IRCC	DCoord	ADCS			See also 3.1.17
	3.6.2.1	WG to facilitate the production, distribution and updating of ENC cartographic products ensuring uniform ENC quality and consistency	DCoord	ADCS			
	3.6.2.2	WG to facilitate the resolution of gaps and overlaps in ENC coverage	DCoord	ADCS			
	3.6.2.3	WG to facilitate the promotion of RENC co-operation for the benefit of ENC end-users	DCoord	ADCS			
	3.6.3	Maintain and coordinate ENC schemes, consistency and quality	DCoord	ADCS			
	3.6.3.1	RHCs to develop ENC schemes in their regions and coordinate the production and maintenance of ENC	DCoord	ADCS			
	3.6.4	Maintain and coordinate INT Chart Schemes and improve the availability of the INT Chart Series	DTech	ADCS			

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	3.6.4.1	RHCs to coordinate INT Chart Schemes and coordinate the production of INT Chart in their region	DTech	ADCS			
	3.6.5	Contribute to monitoring and improving the global status of hydrographic surveying	DCoord	ADCC			
1 & 2	3.7	Maritime Safety Information			Objective / Deliverable: To facilitate the efficient provision of MSI to mariners through coordination and the establishment of relevant standards between agencies		
	3.7.1	WWNWS-SC - World-Wide Navigational Warning Service Sub-Committee. Organize, prepare, attend and report annual WWNWS-SC meetings	DCoord	ADSO	Review customer survey results and development action plan to initiate identified service delivery improvements		
	3.7.2	WWNWS Document Review Working Group. Conduct annual meetings of the WWNWS Document Review WG	DCoord	ADSO	Keep documentation fit for purpose		held back-to-back with NCSR2, so per diem only
	3.7.3	Maintain and extend the following IHO standards, specifications and publications:	DCoord	ADSO			
	3.7.3.1	relevant IHO Resolutions in M-3	DCoord	ADSO	M3 kept up to date		
	3.7.3.2	S-53 - Joint IMO/IHO/WMO Manual on Maritime Safety Information	DCoord	ADSO	S-53 kept up to date by incorporating IMO decisions as required		
	3.7.4	Liaise with IMO and WMO on the delivery of MSI within the GMDSS	DCoord	ADSO	Monitor GMDSS modernization programme to ensure maintenance of service delivery		
	3.7.5	Participate and contribute to the IMO work items on the modernization of the GMDSS and the development of the e-navigation implementation plan	DCoord	ADSO	Monitor projects to ensure maintenance of service delivery at least at current levels, investigation areas for improvement		

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	3.7.6	Improve the delivery and exploitation of MSI to global shipping by taking full advantage of technological developments	DCoord	ADSO	Progress development of S-100 NW PS to align with development of e-navigation and GMDSS modernization		
1 & 2 & 3	3.8	Ocean Mapping Programme			Objective / Deliverable: To contribute to global ocean mapping programmes through the IHO/IOC General Bathymetric Chart of the Oceans (GEBCO) Project, the International Bathymetric Chart (IBC) Projects and other related international initiatives		
	3.8.1	Conduct meetings of relevant GEBCO bodies:	DCoord				
	3.8.1.1	Guiding Committee	DCoord	ADSO			meetings to be held consecutively
	3.8.1.2	TSCOM	DCoord	ADDT			
	3.8.1.3	SCRUM	DCoord	ADDT			
	3.8.1.4	SCUFN	DCoord	ADCS			IHB activity, No Action required by GEBCO
	3.8.2	Ensure effective operation of IHO Data Center for Digital Bathymetry (DCDB)	DCoord	ADDT	Enhance DCDB interface for upload, ingest, discovery and download of bathymetric data  Coordinate with IHO on Crowd Sourced Bathymetry project	Funds and resources	
	3.8.3	Encourage the contribution of bathymetric data to the IHO DCDB	DCoord	ADDT	GEBCO representatives participate in RHC meetings	Lack of MS willingness to provide data. No NF funds for NF Scholar alumni to travel to RHC meetings	Task 3.8.3 @ 5K€ /year to pay for GEBCO travel. Also, NF Scholars have GEBCO funds to participate
	3.8.3.1	Identify priority areas for regional mapping.	DCoord	ADSO	Definition of priority areas		
	3.8.3.2	Promote data contribution through GEBCO participation in RHCs meetings	DCoord	Relevant AD	Prioritize RHC meetings to attend		See 3.8.3

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	3.8.4	Maintain IHO bathymetric publications, including:	DCoord				
	3.8.4.1	B-4 - Information concerning recent bathymetric data	DCoord	ADDT			Primarily an IHB activity
	3.8.4.2	B-6 - Standardisation of undersea feature names	DCoord	ADCS			Primarily an IHB activity
	3.8.4.3	B-7 - GEBCO guidelines	DCoord	ADSO			Primarily an IHB activity
	3.8.4.4	B-8 - Gazetteer	DCoord	ADCS			Primarily an IHB activity
	3.8.4.5	B-9 - GEBCO digital atlas	DCoord	ADDT			Primarily an IHB activity
	3.8.4.6	B-10 - The history of GEBCO	DCoord	ADSO			Primarily an IHB activity
	3.8.4.7	B-11 - GEBCO Cookbook	DCoord	ADDT			Primarily an IHB activity
	3.8.4.8	Develop the on-line function of B-4	DCoord	ADDT			Primarily an IHB activity
	3.8.5	Contribute to outreach and education about ocean mapping. Increase understanding of the importance of hydrography and interest in following ocean mapping as a career through activities such as:	DCoord	ADSO	Development of Roadmap for outreach and education Working Group Development of Education Materials		
	3.8.5.1	Development of outreach materials (paper maps, brochures, web-based presentations) and educational materials;	DCoord	ADSO	Development of Roadmap for outreach and education Working Group		Funding under task 3.8.5
	3.8.5.2	Printing of GEBCO World Map at various locations in MS	DCoord	ADSO	Printing of GEBCO World Map in MS		Funding under task 3.8.5
	3.8.6	GEBCO Web site kept current and updated regularly	DCoord	ADDT	Content of GEBCO web site continually updated with news items; information about meetings and events and information about and links to new products		

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Key deliverables in 2015	Significant risk to delivery	Any other remarks
	3.8.7	Develop short course and course material on compiling digital bathymetric models (DBMs) to be included in GEBCO from a heterogeneous bathymetric source database. Associated deliverables: -a course curriculum	DCoord	ADSO	Course curriculum and schedule for first course occasion		
	3.8.8	Update and enhance the GEBCO Gazetteer (B-8) for internet access	DCoord	ADCS	Continuing enhancement and maintenance to incorporate new names from each SCUFN meeting		
2 & 4	<del>2.9</del> 3.9	Marine Spatial Data Infrastructures			Objective / Deliverable: To monitor developments related to the hydrographic component of Spatial Data Infrastructures, to develop and maintain the relevant IHO publications, and to provide technical advice as appropriate		
	<del>2.9.1</del> 3.9.1	Conduct meetings of relevant HSSC-MSDIWG dealing with MSDI	DTeeh DCoord	ADCC	Implementation of HSSC-MSDI Work Plan		Former element 2.9 transferred to programme 3 as agreed by IRCC-6 and HSSC-6
	<del>2.9.2</del> 3.9.2	Maintain the relevant IHO standards, specifications and publications, including:	DTeeh DCoord	ADCC			
	<del>2.9.2.1</del> <del>3.9.2.1</del>	C-17 Spatial Data Infrastructures: "The Marine Dimension" - Guidance for Hydrographic Offices	DTeeh DCoord	ADCC	Keep C-17 fit for purpose		
	<del>2.9.3</del> 3.9.3	Develop training syllabi for MSDI and associated learning subjects, including:	DTeeh DCoord	ADCC			
	<del>2.9.3.1</del> <del>3.9.3.1</del>	Content for an "introduction to MSDI" training course	DTeeh DCoord	ADCC	Draft submitted to HSSC IRCC		