IHO Work Programme for 2016 - as approved by MS Reference: IHO CL 87/2015 dated 15 December 2015

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Alternate Manager	Key deliverables in 2016	Significant risk to delivery	Remarks / Dates / Venue
		PROGRAMME 1	I - CORPO	RATE AFF	AIRS			
1 & 3	1.1	Co-operation with International Organizations and participation in relevant meetings				ons in order to further the interests	of the IHO by enlisting their s	upport and cooperation and
	1.1.1	Antarctic Treaty Consultative Meeting (ATCM)	Pres	ADCS	ADCC	ensure HCA activities are recognised by ATCM, coordination and liaison		Santiago, Chile, 6-15 June. Consider representation by Chile or Monaco
	1.1.2	Comité International Radio Maritime (CIRM)	DTech	ADSO	ADDT	present relevant IHO programmes, coordinate activities with OEMs, outreach, coordination and liaison		Annual meeting Genoa, Italy, 11-13 April
	1.1.3	Council of Managers of National Antarctic Programs (COMNAP)	Pres	ADCS	ADCC	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	ADSO	ensure IHO activities are recognised and supported as appropriate by the EU, coordination and liaison		
	1.1.4.1	INSPIRE	DTech	ADDT	ADCS	ensure that the maritime dimension of spatial data infrastructures is recognized in the Inspire framework		Up to 4 meetings in Europe
	1.1.4.2	IHO-EU Network WG	DTech	ADCS	ADSO			
	1.1.5	International Federation of Surveyors (FIG)	DCoord	ADCC	ADSO	present relevant IHO programmes, coordinate activities with FIG, outreach and liaison		FIG working week 2016, Christchurch, New Zealand, 2-6 May. Consider representation by NZ
	1.1.6	International Federation of Hydrographic Societies (IFHS)	Pres	ADSO	ADSO	present relevant IHO programmes, outreach via annual HYDRO meetings		
	1.1.6.1	HYDRO16	Pres	ADSO	ADCC	present relevant IHO programmes, outreach		Rostock, Germany, 8-10 Nov. Consider representation by Germany

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	1.1.7	International Association of Antarctic Tour Operators (IAATO)	Pres	ADCS	ADCC			No meetings anticipated
	1.1.8	IALA, such as:	DTech	ADSO	ADCC			
	1.1.8.1	e-NAV Committee	DTech	ADSO	ADDT	present relevant IHO programmes, provide S-100 liaison activities		Coordinate IHO representation with UKHO representative (IHO rapporteur)
	1.1.8.2	Annual secretariat liaison meeting	Pres	ADSO	ADCC	coordinate programmes, particularly CB		Possibly meeting back-to- back with another meeting
	1.1.8.3	World VTS Guide Advisory board meeting	DTech	ADSO	ADDT			London, 3 Mar, IHO normally represented by UKHO
	1.1.9	International Association of Ports and Harbours (IAPH)	Pres	ADDT	ADCC			No meetings anticipated
	1.1.10	International Cartographic Association (ICA) such as:	DTech	ADCC	ADCS	coordinate programmes, particularly in relation with GI and training standards		2016 Calendar of meetings
	1.1.10.1	ICA Commission on Geoinformation Infrastructures and Standards)	DTech	ADCC	ADDT			not yet available
	1.1.10.2	ICA Working Group on Marine Cartography	DTech	ADCS	ADCC			7
	1.1.11	International Electrotechnical Commission (IEC) (such as IEC Technical Committee 80)	DTech	ADDT	ADCS	present relevant IHO programmes, coordinate S- 100 and other IHO standards developments, liaison		No meeting in 2016
	1.1.12	International Maritime Organization (IMO), including:						
	1.1.12.1	Assembly	Pres	ADSO	ADCC	present relevant IHO programmes and activities, outreach and liaison		No meeting in 2016
	1.1.12.2	Council	Pres	ADSO	ADCC	present relevant IHO programmes and activities, outreach and liaison		C116, London, UK, 4-8 July C117, London, UK 5-9 Dec No participation anticipated
	1.1.12.3	MSC	DTech	ADSO	ADCC	present relevant IHO programmes and activities, outreach and liaison		MSC96, London, 11-20 May
					ADCC			MSC97, London, 21-25 Nov
	1.1.12.4.1	NCSR	DTech	ADSO	ADDT	present relevant IHO programmes and activities, outreach and liaison		NCSR3, London, 29 Feb-4 March
	1.1.12.4.2	Intersessional meetings on e-Nav or other issues	DTech	ADSO	ADDT	present relevant IHO programmes and activities, outreach and liaison		

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	1.1.12.5	TCC	DCoord	ADCC	ADSO	present relevant IHO programmes and activities, coordination with IMO TC, outreach and liaison		TCC66, London, 3-5 Oct
	1.1.13	International Maritime Pilots' Association (IMPA)	Pres	ADSO	ADCC			Not anticipating IHO attendance at IMPA Congress 2016
	1.1.14	Intergovernmental Oceanographic Commission (IOC) of UNESCO, including:	DCoord	ADSO	ADCC			
	1.1.14.1	Assembly	DCoord	ADSO	ADCC	present relevant IHO programmes and activities, outreach and liaison		No meeting in 2016
	1.1.14.2	Executive Council	DCoord	ADSO	ADCC			EC49, Paris, France, 6-10 June
	1.1.14.3	IODE Committee	DTech	ADDT	ADCC	Promote the use of S-100 by the IOC, outreach and liaison		No participation anticipated in 2016
	1.1.14.4	Specialized WGs -(such as GLOSS)	DTech	ADSO	ADCC	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	ADCS			
	1.1.15.1	ISO Technical Committee 211	DTech	ADDT	ADCS	present relevant IHO programmes and activities, coordinate IHO standards development with ISO programmes, outreach and liaison		2 meetings - one in Europe: Tromsø, Norway, 13-17 Jun, one in USA, December
	1.1.16	Joint Board of GIS (JB-GIS)	Pres	ADCS	ADDT	present relevant IHO programmes and activities, outreach, coordination and liaison with other geospatial organisations		Normally undertaken as a short side trip from another meeting = very limited extra cost
	1.1.17	NATO geospatial bodies, such as:	DTech	ADDT	ADSO			
	1.1.17.1	DGIWG	DTech	ADDT	ADSO	coordination and liaison with other geospatial organisations		UKHO will provide IHO representative
	1.1.18	UN, including:	Pres	ADSO	ADCS			
	1.1.18.1	UN General Assembly	Pres	ADSO	ADCS	present relevant IHO programmes and activities, outreach, recruitment of new IHO Member States		No participation anticipated in 2016
	1.1.18.2	UNICPOLOS & SPLOS	Pres	ADSO	ADCS	present relevant IHO programmes and activities, outreach, recruitment of new IHO Member States		New York, USA, April or June

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	1.1.18.4.1	UN-GGIM	Pres	ADCC	ADCS	present relevant IHO programmes and activities in		UNGGIM-6, New York, USA, August
	1.1.18.4.2	UN-GGIM High Level Forum	Pres	ADCC	ADCS	relation to UN-GGIM programme to ensure that hydrography is appropriately represented in doctrine being developed by UN-GGIM and adopted by UN		4 th Forum, Addis Ababa Ethiopia, 20- 22 April
	1.1.18.5	UNISDR	Pres	ADCC	ADCS	ensure that hydrography is appropriately accounted for in the implementation of the Sendai Framework for Disaster Risk Reduction 2015- 2030		No participation anticipated in 2016
	1.1.18.6	UN Environment Assembly	Pres	ADCC	ADSO	present relevant IHO programmes and activities in relation to UNEP programme to ensure that hydrography is appropriately represented in doctrine being developed by UNEA		2 nd UNEA, 23-27 May
	1.1.19	World Meteorological Organization (WMO)	Pres	ADSO	ADCC	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	ADCC	ensure appropriate levels of coordination with IHO work items related toS-100 and to WWNWS and MSI delivery		
	1.1.20	Other organizations when their agendas have relevance to the programme of the IHO, such as: The Group on Earth Observation (GEO); the Scientific Committee on Antarctic Research (SCAR); Global Partnership for Oceans (GPO); The International Cable Protection Committee (ICPC), The International Seabed Authority (ISA); The Maritime Organizations of West and Central Africa (MOWCA; The Pan-American Institute of Geography and History (PAIGH); The Port Management Association West and Central Africa (PMAWCA)		ctor and AD responsit RHC when appropriat		ensure IHO programmes and outcomes are recognised and coordinated with other organizations as appropriate		
	1.1.20.1	Asia Pacific Heads of Maritime Safety Agencies (APHoMSA)	Pres	ADSO	ADCC	ensure IHO regional programmes are recognised and coordinated with APHoSMA regional programmes as appropriate		17th meeting, Queenstown, New Zealand 14-18 Mar. Chair SWPHC or LINZ will be asked to represent IHO
	1.1.20.2	International Steering Committee for Global Mapping (ISCGM)	Pres	ADCS	ADCC	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 unless meeting held back-to-back with other event attended by IHB

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	1.1.20.3	Group on Earth Observation (GEO)	DTech	ADCS	ADSO	ensure IHO programmes and outcomes are recognised and coordinated with GEO as appropriate		GEO-XIII Plenary, Saint- Petersburg, Russia, 9-10 Nov
	1.1.20.4	African Union Extraordinary Summit on Maritime Security and Safety and Development in Africa	DTech	ADCS	ADSO			Lomé, Togo, March (tbc)
	1.1.20.5	International Seabed Authority	Pres	ADSO	ADCS			22 nd Session, Kingston, Jamaica, 11-22July
	1.1.20.6	International Harbour Masters Association (IHMA)	Pres	ADSO	ADCS	present relevant IHO programmes and activities, outreach and liaison		Correspondence only
1 & 4	1.2	Information Management	Objective / Deliveral		n accurate and releva	ant information in a timely and acce	essible 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	MFA	ADSO			
	1.2.1.2	P-7 – IHO Annual Report	DCoord	ADSO	MFA			
	1.2.1.3	S-11 Part B - Catalogue of INT Charts	Pres	ADCS	ADDT	S-11 database and auto- publisher		see 2.3.2.6
	1.2.1.4	M-3 – IHO Resolutions	Pres	ADSO	MFA	Appropriateness and currency of Resolutions related to current WP items		
	1.2.2	Maintain and extend IHB Admin IT infrastructure, including:	DTech	ADDT	ADCC			
	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	MFA	ADSO			
	1.2.4	IHB Technical Library – incorporate new material	Pres	ADSO	ADCC			
3	1.3	Public Relations	Objective / Deliveral To raise awareness		and its Member Sta	tes and the importance of hydrogra	aphy, particularly by governme	nt and in the user community
	1.3.1	Maintain relationships with the Government of Monaco and the diplomatic corps accredited in Monaco	Pres	MFA	ADSO			
	1.3.2	Compile and publish P-1 – International Hydrographic Review in collaboration with IHR editor	DCoord	ADCC	ADSO		Contribution of suitable papers from MS and others	
	1.3.3	World Hydrography Day, including:	DCoord	ADCC	ADSO			
	1.3.3.1	Preparation of support materiel	DCoord	ADCC	ADSO			
	1.3.3.2	Celebratory events in Monaco	DCoord	ADCC	ADSO			
	1.3.3.3	Celebratory events in Member States	DCoord	ADCC	ADSO			
	1.3.4	General Public Relation support. Representation expenses	Pres	ADCC	ADSO	Raising levels of awareness of IHO and hydrography		

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	1.3.4.1	Compile and publish International Hydrographic Bulletin	Pres	MFA	ADSO			
1	1.4	Work Programme & Budget, Strategic Plan and Performance Monitoring		anaged, monitored and execute implementation of the IHO's Str				
	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	ADSO	MFA	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	ADSO			
	1.4.3	Conduct biennial IHO stakeholders' forums	DTech	as required according to topics	as required according to topics	Collect feedback from stakeholders on critical issues	Input from and participation of the relevant IHO Working Groups	ECDIS Forum during CIRM Annual Meeting, Genoa, Italy, 11-13 April (see 1.1.2)
	1.4.4	Initiate review of IHO Strategic Plan	Pres	ADSO	ADCS			
1	1.5	IHB Management	Objective / Delivera To ensure that the I resources available		nber States, by providing the best	service (quality, opportunity, re	easonable cost) within the	
	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	AAA			
	1.5.1.1	Staff training	Pres	MFA	ADSO	Enhancement of staff skills to meet changing job requirements		
	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	MFA	ADCS		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	AAA	Advancement of one-off IHB tasks beyond the capability or resources of IHB		
	1.5.3.1	Translation	Pres	MFA	ADCS			
	1.5.3.2	Technical editing	DTech	As required according to topic	As required according to topic			
	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	PA			
	1.5.5	Maintain the IHB premises as required as the occupant. Maintain furniture, carry out renovations or modifications as requirements arise	Pres	MFA	AAA/BSA			
1 & 4	1.6	International Hydrographic Conference				blies so that they fulfil their top-le Organization	vel governance and decision-m	naking functions in

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	1.6.1	Organize IHC-19 / Assembly-1 in 2017	DCoord	ADCC	ADSO			
		PROGRAMME 2 - S	ERVICES	AND STAI	NDARDS			
2	2.1	Technical Programme Coordination	Objective / Deliveral To monitor technical interaction of releva	I developments, overs	see the development	t of IHO technical standards, specific	cations and publications thro	ugh the coordination and
	2.1.1	Conduct annual meeting of HSSC	DTech	ADCS	ADDT	Implementation of HSSC Work Plan HSSC forward WP Performance statistics		HSSC-8, Monaco, 14-18 Nov
	2.1.1.1	Chair briefing	DTech	ADCS	ADDT	Efficient running of HSSC-8		
	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	ADCS	ADDT			Chair Group Workshop, Saint-Mandé, France, 1-2 Jun
	2.1.2.1	Contributing to the IHO Annual Report.	DTech	ADCS	ADDT			
	2.1.2.2	Updating and implementing the HSSC Work Programme	DTech	ADCS	ADDT			
	2.1.2.3	Implementing the restructuring of HSSC Working Groups	DTech	ADCS	ADDT	Feedback at HSSC-8		
	2.1.3	Provide technical advice and guidance on IHO technical standards, specification and publications	DTech	ADDT	ADCS	Promote uptake of S-100 and S-100 based product specifications		Includes participation in e- Navigation underway conference. In support of 2.2.5
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, specific publications, and to provide technical advice as appropriate					
	2.2.1	Conduct meetings of S-100 and ENC Standards Maintenance WGs	DTech	ADDT	ADCS	Implementation of HSSC Work Plan		Implementation of the new HSSC structure : S-100 WG-1 & ENCWG-1, Tokyo, Japan, 14-18 Mar
	2.2.2	Maintain and extend the relevant IHO standards, specifications and publications, using contract support assistance as appropriate, including:	DTech	ADDT	ADCS	Implementation of HSSC Work Plan		Funded from Special Projects and/or PL Fund according to funding availability and on a priority basis set by the HSSC Chair
	2.2.2.1	S-57 IHO Transfer Standard for Digital Hydrographic Data	DTech	ADDT	ADCS	Encoding Bulletins as required to keep S-57 fit for purpose		
	2.2.2.2	S-100 IHO Universal Hydrographic Data Model	DTech	ADDT	ADCS	Draft Edition 3.0.0 endorsed by HSSC	-	
	2.2.2.2.1	S-100 /S-101 Test bed	DTech	ADDT	ADCS	Support the end-to-end testing of S-101 and other S-10x specifications in compliance with IHO Resolution 2/2007		S-100WG-1, Tokyo, Japan, 14-18 Mar

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	2.2.2.3	S-101 ENC Product Specification	DTech	ADDT	ADCS	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	ADCS			Revision may be required from task 2.7.5
	2.2.2.5	S-58 ENC Validation Checks	DTech	ADDT	ADCS	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	ADCS			
	2.2.2.7	S-64 IHO Test Data Sets for ECDIS	DTech	ADDT	ADCS	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	ADCS			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	ADCS	Keep S-99 fit for purpose		
	2.2.2.10	S-66 Facts about Electronic Charts and Carriage Requirements	DTech	ADCS	ADSO	NE of S-66 released in 2016		
	2.2.2.11	Participate in RENC Joint Technical Experts WG (JTEWG)	DTech	ADDT	ADCS			possibility of meeting in 2016 in Europe
	2.2.2.12	Appendix 1 to S-52 - Guidance on Updating the Electronic Navigational Chart	DTech	ADDT	ADCS	Keep S-52 Appendix 1 fit for purpose		·
	2.2.2.13	S-52 and its accompanying Presentation Library - Specifications for Chart Content and Display Aspects of ECDIS	DTech	ADDT	ADCS	PB as required to keep S-52 fit for purpose		
	2.2.3	Develop and maintain as-yet undefined S-100-based Product Specifications	DTech	ADDT	ADCS	Template Product Specification for Marine Information Overlays (MIO)		funded from Special Projects and/or PL Fund according to funding availability and on a priority basis set by the HSSC Chair
	2.2.4	Maintain and extend S-100 Registry	DTech	ADDT	ADCS	Keep the Registry fit for purpose including recruitment of Technical standards support Officer at IHB	Dependent of continuing support from ROK, UK and USA and limited IHB resources	
	2.2.5	Provide outreach and technical assistance regarding transfer standards	DTech	ADDT	ADCS			see 2.1.3
2	2.3	Nautical Cartography	Objective / Deliveral To monitor development on ECD	ments related to nauti	cal cartography for paintain the relevant II	paper nautical charts and the colour HO standards, specifications and p	rs, symbols and display rules u ublications, and to provide tech	sed to show SENC
	2.3.1	Conduct meetings of Nautical Cartography Working Group	DTech	ADCS	ADDT	Implementation of HSSC Work Plan		NCWG2, Monaco, 26-29 April
	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	ADDT	Keep S-4 fit for purpose		Routine maintenance
	2.3.2.2	INT 1 - Symbols, Abbreviations and Terms used on Charts	DTech	ADCS	ADDT	New edition(s) in 2015-2016		

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	2.3.2.3	INT 2 - Borders, Graduations, Grids and Linear Scales	DTech	ADCS	ADDT				
	2.3.2.4	INT 3 - Use of Symbols and Abbreviations	DTech	ADCS	ADDT				
	2.3.2.5	S-11 Part A - Guidance for the Preparation and Maintenance of INT Chart schemes	DTech	ADCS	ADDT	New edition of S-11 Part A released in 2016			
	2.3.2.6	S-11 Part B - Catalogue of INT Charts	DTech	ADCS	ADDT	New edition of S-11 Part B database released in 2016		See also 1.2.1.3	
2	2.4	Digital Data Protection and Authentication	Objective / Delivera To monitor develope publications, and to		protection and data vice as appropriate	authentication, to develop and ma	intain the relevant IHO standa	rds, specifications and	
	2.4.1	Conduct meetings of Data Protection Scheme WG	DTech	ADDT	ADCS	Implementation of HSSC Work Plan		DPSWG11 co-located with S-100WG1, Tokyo, Japan, March (tbc)	
	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	ADCS	Keep S-63 fit for purpose			
	2.4.2.2	Data protection and authentication related elements of:		ADDT	ADCS		Lack of appropriate		
	2.4.2.2.1	S-100 - IHO Universal Hydrographic Data Model		ADDT	ADCS	see 2.2.2.2	expertise		
	2.4.2.2.2	Data protection and authentication related elements of S-101 - ENC Product Specification		ADDT	ADCS	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 Data Quality WG	DTech	ADCS	ADDT	Implementation of HSSC Work Plan		DQWG11, Silver Spring, Md, USA, 10-12 May	
	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	ADDT	see 2.2.2.1			
	2.5.2.2	Data quality related elements of S-100 - IHO Universal Hydrographic Data Model	DTech	ADCS	ADDT	see 2.2.2.2			
	2.5.2.3	Data quality related elements of:	DTech		ADDT				
	2.5.2.3.1	S-52 - Specifications for Chart Content and Display Aspects of ECDIS	DTech	ADCS	ADDT	see 2.2.2.13			
	2.5.2.3.2	S-101 - ENC Product Specification and other S-100-based Product Specifications	DTech	ADCS	ADDT	see 2.2.2.3 & 2.2.3			
2	2.6	Nautical Publications				al publications, to develop and mai	ntain the relevant IHO standa	rds, specifications and	
	2.6.1	Conduct meetings of Nautical Information Provision WG (NIPWG)	DTech	ADCS	ADDT	Implementation of HSSC Work Plan		NIPWG2, Monaco, 21-24 March NIPWG3, Busan, ROK, 5- 9 Dec	

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	2.6.2	Develop, maintain and extend S-10n - Nautical Information Product Specification	DTech	ADCS	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					
	2.6.3.1	IHO Resolutions in M-3 relating to Nautical Publications	DTech	ADCS	ADDT	Keep the Resolutions fit for purpose		
	2.6.3.2	S-12 Standardization of List of Lights and Fog Signals	DTech	ADCS	ADDT	Keep S-12 fit for purpose		
	2.6.3.3	S-49 Standardization of Mariners' Routeing Guides	DTech	ADCS	ADDT	Keep S-49 fit for purpose		
2	2.7	Tides and Water Levels		ments related to tidal		ervation, analysis and prediction and specifications and publications, and		
	2.7.1	Conduct meetings of the Tides, Water Level and Currents WG (TWCWG)	DTech	ADSO	ADCC	Implementation of HSSC Work Plan		TWCWG1, Niteroi, Brazil, 25-29 Apr
	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	ADCC	Keep the Resolutions fit for purpose		
	2.7.2.2	S-60 User's Handbook on Datum Transformations involving WGS 84	DTech	ADSO	ADCC			Publication frozen
	2.7.2.3	Standard Tidal Constituent List	DTech	ADSO	ADCC	Keep the List fit for purpose		
	2.7.2.4	Inventory of Tide Gauges and Current Meters used by Member States	DTech	ADSO	ADCC	Keep the inventory current		
	2.7.3	Develop, maintain and extend a Product Specification for digital tide tables	DTech	ADSO	ADDT	Prepare draft Standard		
	2.7.4	Develop, maintain and extend a Product Specification for the transmission of real-time tidal data (S-112)	DTech	ADSO	ADDT	Compare XML datasets to create common format aligned to INSPIRE and other developed formats in use		
	2.7.5	Develop, maintain and extend a Product Specification for dynamic tides in ECDIS	DTech	ADSO	ADDT	Meet the requirements of the E-Navigation Strategy Implementation Plan		
2	2.8	Digital Data Updating		ments in standardized		pdating of digital hydrographic data hnical advice as appropriate	products, to develop and ma	intain the relevant IHO
	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	ADDT	see 2.2.2.6		
	2.8.1.2	S-52 Appendix 1 - Guidance on Updating the Electronic Navigational Chart	DTech	ADCS	ADDT	see 2.2.2.12		
2	2.10	Hydrographic Data Acquisition and Processing	Objective / Delivera To monitor develops technical advice as	ments related to hydro	ographic data acquis	ition and processing, to develop and	d maintain the relevant IHO p	ublications, and to provide

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Alternate Manager	Key deliverables in 2016	Significant risk to delivery	Remarks / Dates / Venue
	2.10.1	Conduct meetings of Hydrographic Survey WG (if WG activated)	DTech	ADSO	ADCC			H2SPT Work by correspondence
	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	ADCC			
4	2.11	Hydrographic Dictionary	Objective / Delivera To develop, maintai		Hydrographic Dictiona	ary in English, French and Spanish	and to provide technical advic	e as appropriate
	2.11.1	Maintain and extend the IHO Hydrographic Dictionary in English, French and Spanish.	DTech	ADSO	ADCS	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
	2.11.2	Develop the Spanish language Wiki version of S-32	DTech	ADSO	ADCS			Task being addressed by seconded Officer from Peru
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					
	2.12.1	Organize and prepare ABLOS annual business meeting	DTech	ADSO	ADCC	Implementation of HSSC Work Plan		BM23, Seoul, ROK, 26-28 Oct
	2.12.2	Organize and prepare the biennial ABLOS Conference	DTech	ADSO	ADCC			Next ABLOS Conference is in 2017
	2.12.3	Contribute to the revision of IHO publication C-51- TALOS Manual	DTech	ADSO	ADCC			
2	2.13	Surface Currents	Objective / Deliveral To monitor develope datums, to develope	ments related to surfa	ce current observation	on, analysis and prediction and oth specifications and publications, an	er related information including	y vertical and horizontal
	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	ADCC	Keep the Resolutions fit for purpose		
	2.13.3	Develop, maintain and extend a Product Specification for the transmission of real-time surface current data	DTech	ADSO	ADDT	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	ADDT	Demonstrate test portrayal S- 111 PS	Limited WG expertise and OEM participation	
		PROGRAMME 3 - INTER REG	IONAL CO	ORDINATI	ON AND S	SUPPORT		
1 & 2	3.0	Inter-Regional Coordination Committee (IRCC)	Objective / Deliveral To promote and coc - establish, coordina - establish co-opera	ble: ordinate those activitie ate and enhance coop tion to enhance the de	es that might benefit for eration in hydrograph elivery of capacity bu	rom a regional approach: nic activities amongst States on a		

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Alternate Manager	Key deliverables in 2016	Significant risk to delivery	Remarks / Dates / Venue
	3.0.1	Conduct annual meeting of IRCC	DCoord	ADCC	ADSO	Implementation of IRCC WP IRCC forward WP Performance statistics		IRCC8, 29-31 May, Abu Dhabi held back-to-back with CBSC14, - see 3.3.1.1
	3.0.1.1	Chair briefing	DCoord	ADCC	ADSO	Efficient running of IRCC-8		
	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	ADSO			
	3.0.2.2	Updating and implementing the IRCC Work Programme	DCoord	ADCC	ADSO			
1 & 2	3.1	Cooperation with Member States and attendance at relevant meetings	Objective / Deliveral To facilitate IHO MS the structure of the I	coordination, cooper	ation and collaborati	on to improve hydrographic service	s and the provision of hydro-	cartographic products through
	3.1.1	ARHC – Arctic Region Hydrographic Commission	Pres	ADCS	ADCC			ARHC6,Canada, October
	3.1.2	BSHC - Baltic Sea Hydrographic Commission	DCoord	ADSO	ADCS			BSHC21, Klaipeda, Lithuania, Sept.
	3.1.3	EAHC - East Asia Hydrographic Commission	Pres	ADDT	ADSO			Steering Committee Meeting 3,Indonesia, 23- 26 Feb
	3.1.4	EAtHC - Eastern Atlantic Hydrographic Commission	DTech	ADCS	ADDT			EAtHC14, Cadiz, Spain, 18-20 October
	3.1.5	MACHC - Meso American and Caribbean Sea Hydrographic Commission	Pres	ADCC	ADCS			MACHC17, Belem, Brazil, 14-17 Dec
	3.1.6	MBSHC - Mediterranean and Black Seas Hydrographic Commission	DCoord	ADCS	ADCC			No plenary meeting anticipated in 2016. BASWG will meet in Istanbul, April
	3.1.7	NHC - Nordic Hydrographic Commission	DTech	ADDT	ADSO			NHC60, 11-13 April, Stavanger, Norway
	3.1.8	NIOHC - North Indian Ocean Hydrographic Commission	DCoord	ADSO	ADDT			NIOHC16, 14-16 March, Chittagong, Bangladesh,
	3.1.9	NSHC - North Sea Hydrographic Commission	DTech	ADSO	ADDT			NSHC32, 21-23 June, Dublin, Ireland
	3.1.10	RSAHC - ROPME Sea Area Hydrographic Commission	DCoord	ADSO	ADCC			No RHC meeting anticipated in 2016. ICCWG meeting in Tehran, Sep/Oct?
	3.1.11	SAIHC - Southern Africa and Islands Hydrographic Commission	Pres	ADDT	ADCC			SAIHC13, September, Cape Town
	3.1.12	SEPRHC - South East Pacific Regional Hydrographic Commission	DTech	ADCC	ADCS			No meeting anticipated in 2016
	3.1.13	SWAtHC - South West Atlantic Hydrographic Commission	DTech	ADCC	ADCS			CHAtSO10, 7-8 April, Buenos Aires, Argentina
	3.1.14	SWPHC - South West Pacific Hydrographic Commission	Pres	ADCC	ADSO			SWPHC14, 30 Nov-2 Dec, Nouméa, New Caledonia

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Alternate Manager	Key deliverables in 2016	Significant risk to delivery	Remarks / Dates / Venue		
	3.1.15	USCHC - USA and Canada Hydrographic Commission	DCoord	ADDT	ADCC			USCHC39, 16 May & Canadian Hydrographic Conference 2016 16-19 May, Halifax, Canada		
	3.1.16	HCA - Hydrographic Commission on Antarctica	Pres	ADCS	ADCC			HCA14,28-30 June, Guayaquil, Ecuador		
	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	ADCC					
	3.1.17	WEND Working Group	DCoord	ADCS	ADCC			WENDWG6, 8-10 March, Stavanger, Norway, See also 3.6.2		
	3.1.18	Industry participation in RHC meetings	President or Direct	ctor and AD responsil	ble for the relevant					
	3.1.19	Contribute to improving the framework of IHO response to marine disasters	DCoord	ADSO	ADCC					
1 & 3	3.2	Increase participation by non-Member States	To raise awareness Coastal States on h	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 DHCs.						
	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	ADSO					
	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	ADDT					
	3.2.2.1	Maintain contact with pending applicants in the region to encourage the ratification of the IHO Convention	DTech	ADCS	ADDT	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	ADDT	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	ADCS	MACHC OECS Project - to develop hydrographic services in the Eastern Caribbean: complete scoping study and seek donors				
	3.2.3.1	Maintain contact with pending applicant in the region to encourage the ratification of the IHO Convention	Pres	ADCC	ADCS	Ratification of the IHO Convention by Haiti				
	3.2.3.2	Maintain contact with suspended Member State in the region to encourage its re-insertion in IHO	Pres	ADCC	ADCS	Re-integration of the Dominican Republic				
	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	ADCC			Target non-Member States: Albania, Bulgaria, Israel, Lebanon, Libya		

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Alternate Manager	Key deliverables in 2016	Significant risk to delivery	Remarks / Dates / Venue
	3.2.4.1	Maintain contact with pending applicants in the region to encourage the ratification of the IHO Convention	DCoord	ADCS	ADCC	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	ADCC			
	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	ADDT			Target non-Member States: Jordan, Sudan, Maldives, Seychelles, Yemen, Eritrea, Djibouti, Somalia (side-visits as part of other programmes)
	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	ADCC			Target non-Member State:
	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	ADCC			Target non-Member States: Angola, Comoros, 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	ADCS			
	3.2.8.1	Continue the efforts to include Panama as Observer Country to the Commission.	DTech	ADCC	ADCS	Participation of Panama in SEPRHC		
	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	ADCS			Target non-Member States: Bolivia and Paraguay
	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	ADSO			
	3.2.11	RHCs to encourage the approval of pending applications for IHO membership	President or Dire	ctor and AD responsil RHC	ole for the relevant			
	3.2.12	IHO Convention:	President or Dire	ctor and AD responsil RHC	ole for the relevant			
	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.				Secure ratification before end of 2016		
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 effective and efficient interaction between all parties involved in the IHO CB effort					
	3.3.1	CBSC - Capacity Building Sub-Committee, including:	DCoord	ADCC	ADSO			

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Alternate Manager	Key deliverables in 2016	Significant risk to delivery	Remarks / Dates / Venue
	3.3.1.1	Organize, prepare, conduct and report annual CBSC meetings	DCoord	ADCC	ADSO	Efficient running of CBSC14		CBSC14, 24-26 May, Abu Dhabi, held back-to-back with IRCC8, see 3.0.1
	3.3.1.2	Chair briefing	DCoord	ADCC	ADSO	Efficient running of CBSC14		
	3.3.1.3	Follow-up the coordination required to execute the action lists agreed	DCoord	ADCC	ADSO			
	3.3.1.4	Maintain IHO publication M-2 - The Need for National Hydrographic Services	DCoord	ADCC	ADSO			
	3.3.1.5	Contribute to the development of MSDI	DCoord	ADCC	ADSO			
	3.3.2	Manage Capacity Building Fund	DCoord	ADCC, MFA	MFA			
	3.3.2.1	Develop and maintain a CB Management system	DCoord	ADCC	MFA			
	3.3.3	Meetings with other organizations, funding agencies, private sector and academia	DCoord	ADCC	ADSO	Increase the CB Fund		
	3.3.3.1	Joint IHO/IMO/WMO/IOC/IAEA/IALA/FIG Capacity Building Meeting	DCoord	ADCC	ADSO			London, UK, October (tbc)
	3.3.3.2	Capacity Building Stakeholders Forum	DCoord	ADCC	ADSO			No meeting planned in 2016
	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	ADSO			
	3.3.5	Capacity Building Work Programme	DCoord	ADCC	MFA			
	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	MFA			
	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	MFA			
	3.3.5.3	CBSC to maintain and control the execution of the approved CBWP	DCoord	ADCC	MFA			See CBWP 2016
	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	MFA			
	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	MFA			
	3.3.7	IBSC - International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers	DCoord	ADCC	ADSO			
	3.3.7.1	Conduct and report annual IBSC meetings	DCoord	ADCC	ADSO			IBSC39, Brest, France, 4- 15 April
	3.3.7.2	Implement the IBSC Work Programme including	DCoord	ADCC	ADSO			
	3.3.7.2.1	IBSC Stakeholders' Seminar	DCoord	ADCC	ADSO			To be decided
	3.3.7.3	Manage the IBSC Fund and report to IHO	DCoord	ADCC	ADSO			

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Alternate Manager	Key deliverables in 2016	Significant risk to delivery	Remarks / Dates / Venue
	3.3.8	Provide guidance to training institutions	DCoord	ADCC	ADSO			
	3.3.9	Maintain IBSC Publications (C-6, C-47, S-5, S-8)	DCoord	ADCC	ADSO		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	ADSO			x IBSC meetings, to be decided
3 & 4	3.4	Capacity Building Assessment	guidelines for the de	graphic surveying, navelopment of local hy	drographic capabilitie	autical information status of nation es taking into account the regiona pacity building assistance and tra	I context and possibilities of su	pport for shared capabilities.
	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	President or Direct	ctor and AD responsit RHC	ole for the relevant			In accordance with the Agreed 2016 CB Work Programme (CBWP)
	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	ADDT			
3 & 4	3.5	Capacity Building Provision	Objective / Deliveral To undertake initiati sources of funds; lia	ves for the provision of	of general support, tra	ining and education to address id	entified CB shortcomings; ider d establish and participate in j	ntify aid agencies and other point development projects
	3.5.1	Raise Awareness on the Importance of Hydrography	DCoord	ADCC	ADSO			
	3.5.2	Technical Workshops, Seminars, Short Courses	President or Direct	ctor and AD responsib	ole for the relevant			In accordance with the Agreed 2016 CB Work Programme (CBWP)
	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	ADSO			
	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)	President or Direct	ctor and AD responsit RHC	ole for the relevant			
	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	President or Director and AD responsible for the relevant RHC					
	3.5.6	CBSC to foster bilateral agreements in order to help satisfy SOLAS V/9	DCoord	ADCC	ADSO			
2	3.6	Coordination of Global Surveying and Charting		evement of a world-w		narting coverage to suit the needs e production, distribution and upd		
	3.6.1	C-55 Status of Hydrographic Surveying and Nautical Charting Worldwide	DCoord	ADCC	ADSO		J 5. 25. 25. 35. 35. 35. 35. 35. 35. 35. 35. 35. 3	passassing passassing
	3.6.1.1	MS to provide annual updates to C-55	DCoord	ADCC	ADSO			

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Alternate Manager	Key deliverables in 2016	Significant risk to delivery	Remarks / Dates / Venue
	3.6.1.2	IHB to implement new framework for publication C-55	DCoord	ADCC	ADSO	C-55 GIS solution implemented	lack of funds for on-going 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	ADSO			
	3.6.2	WEND WG to foster the implementation of the WEND principles, monitor progress and report to IRCC	DCoord	ADCS	ADCC			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	ADCC			
	3.6.2.2	WG to facilitate the resolution of gaps and overlaps in ENC coverage	DCoord	ADCS	ADCC			
	3.6.2.3	WG to facilitate the promotion of RENC co-operation for the benefit of ENC end-users	DCoord	ADCS	ADCC			Joint RENC-IHB meeting, Monaco, 25 Jan IC-ENC SC17, Antalya, Turkey, 20-21 Sep PAC23, Latvia, Nov
	3.6.3	Maintain and coordinate ENC schemes, consistency and quality	DCoord	ADCS	ADCC			
	3.6.3.1	RHCs to develop ENC schemes in their regions and coordinate the production and maintenance of ENC	President or Direct	ctor and AD responsib RHC	ole for the relevant			
	3.6.4	Maintain and coordinate INT Chart Schemes and improve the availability of the INT Chart Series	DTech	ADCS	ADCC			
	3.6.4.1	RHCs to coordinate INT Chart Schemes and coordinate the production of INT Chart in their region	President or Direct	ctor and AD responsib RHC	ole for the relevant			ICCWG workshop in conjunction with NCWG2
	3.6.5	Contribute to monitoring and improving the global status of hydrographic surveying	DCoord	ADCC	ADSO			
1 & 2	3.7	Maritime Safety Information	Objective / Deliveral To facilitate the effic		to mariners through c	oordination and the establishmen	t of relevant standards betweer	n agencies
	3.7.1	WWNWS-SC - World-Wide Navigational Warning Service Sub- Committee. Organize, prepare, attend and report annual WWNWS-SC meetings	DCoord	ADSO	ADCC	Review customer survey results and development action plan to initiate identified service delivery improvements		WWNWS8, 12-16 Sept, Alesund, Norway
	3.7.2	WWNWS Document Review Working Group. Conduct annual meetings of the WWNWS Document Review WG	DCoord	ADSO	ADCC	Keep documentation fit for purpose		DRWG14, 8-10 March, London, held back-to-back with NCSR3
	3.7.3	Maintain and extend the following IHO standards, specifications and publications:	DCoord	ADSO	ADCC			
	3.7.3.1	relevant IHO Resolutions in M-3	DCoord	ADSO	ADCC	M-3 kept up to date		
	3.7.3.2	S-53 - Joint IMO/IHO/WMO Manual on Maritime Safety Information	DCoord	ADSO	ADCC	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	ADCC	Monitor GMDSS modernization programme to ensure maintenance of service delivery		

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Alternate Manager	Key deliverables in 2016	Significant risk to delivery	Remarks / Dates / Venue		
	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	ADCC	Monitor projects to ensure maintenance of service delivery at least at current levels, investigation areas for improvement				
	3.7.6	Improve the delivery and exploitation of MSI to global shipping by taking full advantage of technological developments	DCoord	ADSO	ADCC	Progress development of S- 124 PS to align with the 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	ADCS	Strategic goals for the next decade		GGC33, Viña del Mar, Chile, 10-14 Oct		
	3.8.1.2	TSCOM	DCoord	ADDT	ADSO			Joint meeting co-located		
	3.8.1.3	SCRUM	DCoord	ADDT	ADSO			with GGC33		
	3.8.1.4	SCUFN	DCoord	ADCS	ADSO			SCUFN29, Boulder, CO, USA, 19-23 Sept		
	3.8.2	Ensure effective operation of IHO Data Centre for Digital Bathymetry (DCDB)	DCoord	ADDT	ADSO	Enhance DCDB interface for upload, ingest, discovery and download of bathymetric data Coordinate with IHO on Crowd Sourced Bathymetry project	Funds and resources			
	3.8.2.1	Encourage the contribution of bathymetric data to the IHO DCDB through GEBCO participation in RHC meetings	DCoord	ADDT	ADSO	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	Participation in RHC meetings according to GEBCO priority of regional mapping needs		
	3.8.3	Prepare a new IHO publication on policy for trusted crowd-sourced bathymetry	Pres	ADSO	ADDT	Progress report to IRCC8				
	3.8.3.1	Conduct meetings of CSBWG	DCoord	ADSO	ADDT	Implementation of CSB Work Plan	Efficient running of CSBWG2	CSBWG2, Boulder, CO, USA, 10-11 Feb See also 3.8.2		
	3.8.3.2	Participate in N. Atlantic seabed mapping programme meetings (Galway Statement)	DTech	ADSO	ADDT			Funded by EU		
_	3.8.4	Maintain IHO bathymetric publications, including:	DCoord							
	3.8.4.1	B-4 - Information concerning recent bathymetric data	DCoord	ADDT	ADCS			Primarily an IHB activity		
	3.8.4.2	B-6 - Standardisation of undersea feature names	DCoord	ADCS	ADSO			Primarily an IHB activity		
	3.8.4.3	B-7 - GEBCO guidelines	DCoord	ADSO	ADCS			Primarily an IHB activity		
	3.8.4.4	B-8 - Gazetteer	DCoord	ADCS	ADSO			Primarily an IHB activity		

Strategic Direction	Element / Task	Title	Principal Director	Principal Manager	Alternate Manager	Key deliverables in 2016	Significant risk to delivery	Remarks / Dates / Venue
	3.8.4.5	B-9 - GEBCO digital atlas	DCoord	ADDT	ADSO			Primarily an IHB activity
	3.8.4.6	B-10 - The history of GEBCO	DCoord	ADSO	ADCC			Primarily an IHB activity
	3.8.4.7	B-11 - GEBCO Cookbook	DCoord	ADDT	ADSO			Primarily an IHB activity
	3.8.4.8	Develop the on-line function of B-4	DCoord	ADDT	ADCS			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	ADCC	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	ADCC	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	ADCC	Printing of GEBCO World Map in MS		Funding under task 3.8.5
	3.8.5.3	Facilitate the "Future of the Ocean" GEBCO celebration event	DCoord	ADSO	ADDT			Monaco, 14-17 June
	3.8.6	GEBCO Web site kept current and updated regularly	DCoord	ADDT	ADCC	Content of GEBCO web site continually updated with news items; information about meetings and events and information about and links to new products		
	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	ADCC	Course curriculum and schedule for first course occasion		
	3.8.8	Update and enhance the GEBCO Gazetteer (B-8) for internet access	DCoord	ADCS	ADDT	Continuing enhancement and maintenance to incorporate new names from each SCUFN meeting		
2 & 4	3.9	Marine Spatial Data Infrastructures				nent of Spatial Data Infrastructures, to	o develop and maintain the	relevant IHO publications, and
	3.9.1	Conduct meetings of MSDIWG	DCoord	ADCC	ADCS	Implementation of MSDI Work Plan		MSDIWG7 and Open Forum, 25-29 January, Tokyo
	3.9.2	Maintain the relevant IHO standards, specifications and publications, including:	DCoord	ADCC	ADCS			
	3.9.2.1	C-17 Spatial Data Infrastructures: "The Marine Dimension" - Guidance for Hydrographic Offices	DCoord	ADCC	ADCS	Keep C-17 fit for purpose		
	3.9.3	Develop training syllabi for MSDI and associated learning subjects, including:	DCoord	ADCC	ADCS			
	3.9.3.1	Content for an "Introduction to MSDI" training course	DCoord	ADCC	ADCS	Content tested in experimental course(s)		