

## **DRAFT INDICATIVE SCHEDULE FOR THE INDIAN OCEAN SHARK YEAR PROGRAM**

### **(IO-ShYP01) WORKSHOP**

Last updated: 5 May 2014

**Date:** 14–16 May 2014

**Location:** IPMA Building, Olhão Portugal

**Time:** 09:00 – 17:00 daily

**Coordinators:** Dr. Miguel Neves dos Santos; Dr. Rui Coelho; Dr David Wilson

In 2014 the IOTC Scientific Committee recommended that a detailed multiyear shark research program be prepared by a small group of shark experts and the IOTC Secretariat, to further advance, detail and propose an Indian Ocean Shark multi-Year Program (IO-ShYP) for finalisation at the next WPEB meeting (see SC recommendation SC16.33). The main objective of the IO-ShYP will be to “*promote cooperation and coordination among IOTC researchers, to improve the quality of the scientific advice on sharks provided to the Commission, namely by conducting quantitative stock assessments for selected species by 2016, and to better assess the impact on shark stocks of the current IOTC Conservation and Management Measures.*”

Participants to the meeting will compile the current information available, identify major gaps in knowledge, and establish priorities for future research and cooperation among IOTC scientists and other groups.

<b>Date</b>	<b>Time</b>	<b>Agenda Item</b>	<b>Description</b>
<b>Day 1: 14 May 2014</b>	0900–0910	1. OPENING OF THE SESSION	Coordinators
	0910–1030	3. REVIEW OF THE CURRENT AVAILABLE INFORMATION IN TERMS OF BIOLOGICAL AND ECOLOGICAL KNOWLEDGE OF THE SEVEN MAJOR SHARK SPECIES (BSH, SMA, OCS, FAL, SPL, PTH AND BTH)  3.1 Life history traits (age and growth; reproduction; mortality) 3.2 Stock structure, range and distribution (tagging and genetics) 3.3 Habitat use and migrations 3.4 Morphometrics and conversion factors for shark products	Task leader: <u>Rui Coelho</u> (IPMA); Support: Evgeny Romanov (CAP RUN - ARDA)
	1030–1100	<b>BREAK</b>	<b>BREAK</b>
	1100–1200	3. REVIEW OF THE CURRENT AVAILABLE INFORMATION IN TERMS OF BIOLOGICAL AND ECOLOGICAL KNOWLEDGE OF THE SEVEN MAJOR SHARK SPECIES (BSH, SMA, OCS, FAL, SPL, PTH AND BTH)	General discussion
	1200–1400	<b>LUNCH</b>	<b>LUNCH</b>
	1400–1530	4. REVIEW OF THE CURRENT AVAILABLE AND IMPLEMENTED MITIGATION MEASURES, INCLUDING BEST PRACTICE CODES/PROCEDURES, IN TERMS OF REDUCING SHARK BYCATCH AND INCIDENTAL MORTALITY 4.1 Operational and technological aspects (Gillnet;	Task leader: <u>Evgeny Romanov</u> (CAP RUN - ARDA); Support: Miguel N Santos (IPMA); David Wilson

		Longline; Purse seine) 4.2 Best practices	
	1530–1600	<b>BREAK</b>	<b>BREAK</b>
	1600–1650	4. REVIEW OF THE CURRENT AVAILABLE AND IMPLEMENTED MITIGATION MEASURES, INCLUDING BEST PRACTICE CODES/PROCEDURES, IN TERMS OF REDUCING SHARK BYCATCH AND INCIDENTAL MORTALITY	General discussion
	1650–1700	Recap of Day 1 and plan for day 2.	<i>highlight any schedule changes</i>
<b>Day 2: 15 May 2014</b>	0900–1030	2. REVIEW OF THE CURRENT INFORMATION AVAILABLE (FISHERIES, DATA COLLECTION) AND IDENTIFY MAJOR GAPS 2.1 Fleet and gear characterisation 2.2 Fleet dynamics 2.3 Data needs [Catch (landings and discards), effort, CPUEs series; gear selectivity; catch-at-size/age; Data mining/recover of historical data sets for sharks] 2.4 Trade data 2.5 Observer programs (design and implementation)	Task leader: <u>Hilario Murua</u> (AZTI); Support: Kotaro Yokawa (NRIFSF), IOTC Secretariat and all regional participants
	1030–1100	<b>BREAK</b>	<b>BREAK</b>
	1100–1200	2. REVIEW OF THE CURRENT INFORMATION AVAILABLE (FISHERIES, DATA COLLECTION) AND IDENTIFY MAJOR GAPS	General discussion
	1200–1400	<b>LUNCH</b>	<b>LUNCH</b>
	1400–1530	5. REVIEW OF THE MOST APPROPRIATE ASSESSMENT METHODS THAT COULD BE USED ON THE MAIN SHARK SPECIES, AS WELL AS THE POTENTIAL USE OF OTHER INDICATORS AS ALTERNATIVES TO TRADITIONAL STOCK ASSESSMENT APPROACHES 5.1 Stock status indicators 5.1.1 CPUE standardisation 5.1.2 Demographic analysis 5.2 Stock assessment approaches 5.2.1 Data-poor assessment approaches <ul style="list-style-type: none"> <li>• Ecological Risk Assessment – Productivity Susceptibility Analysis</li> <li>• Stock Reduction Analysis</li> <li>• Catch free models</li> </ul> 5.2.2 Weight-of-Evidence approach to stock status determination 5.2.3 Fully-quantitative approaches	Task leader: <u>Tom Nishida</u> (SC Chair); Support: IOTC Secretariat; Rui Coelho (IPMA); other experts via correspondence
	1530–1600	<b>BREAK</b>	<b>BREAK</b>
	1600–1650	5. REVIEW OF THE MOST APPROPRIATE ASSESSMENT METHODS THAT COULD BE USED ON THE MAIN SHARK SPECIES, AS WELL AS THE POTENTIAL USE OF OTHER INDICATORS AS ALTERNATIVES TO TRADITIONAL STOCK ASSESSMENT APPROACHES	General discussion

	1650–1700	Recap of Day 1 and plan for day 2.	<i>highlight any schedule changes</i>
<b>Day 2: 16 May 2014</b>	0900–1030	6. IDENTIFY MAJOR NEEDS IN TERMS OF CAPACITY BUILDING, AIMING TO BRING THE QUALITY AND QUANTITY OF DATA UP TO MINIMUM IOTC STANDARDS 6.1 Data collection 6.2 Verification / Regional Observer Scheme 6.3 Reporting	Task leader: <u>David Wilson</u> ; Support: Reza Shahifar (I.R. Iran); Juma Almamry & Ismail AlFarsi (Oman); Mr Mohammad Noor (Pakistan); Wetjens Dimmlich (WWF)]
	1030–1100	<b>BREAK</b>	<b>BREAK</b>
	1100–1200	6. IDENTIFY MAJOR NEEDS IN TERMS OF CAPACITY BUILDING, AIMING TO BRING THE QUALITY AND QUANTITY OF DATA UP TO MINIMUM IOTC STANDARDS	General discussion
	1200–1400	<b>LUNCH</b>	<b>LUNCH</b>
	1400–1530	7. PRIORITISE DATA COLLECTION AND RESEARCH ON SHARK SPECIES, BEARING IN MIND THE SC SCHEDULE OF ASSESSMENT (BSH – INDICATORS IN 2014, FULL ASSESSMENT IN 2015; OCS - INDICATORS IN 2014, FULL ASSESSMENT IN 2016; SPL: - INDICATORS IN 2015; FAL - INDICATORS IN 2015; SMA – INDICATORS IN 2016; PTH – INDICATORS IN 2016; BTH – INDICATORS IN 2017)  7.1 Fisheries and data collection 7.2 Shark biology and ecology 7.3 Indicators and assessment methods 7.4 Mitigation measures 7.5 Capacity building	Task leader: <u>Miguel N Santos</u> (IPMA); Support: Tom Nishida (SC Chair); Rui Coelho (Chair WPEB); David Wilson (IOTC Secretariat)
	1530–1600	<b>BREAK</b>	<b>BREAK</b>
	1600–1630	8. IDENTIFICATION OF POTENTIAL FUNDING SOURCES AND APPLICATION PROCEDURES	Task leader: <u>David Wilson</u> ; Support: WWF)
	1630–1650	9. REVIEW OF THE DRAFT INDIAN OCEAN SHARK YEAR PROGRAM (IO-ShYP) FOR SUBMISSION TO THE WPEB IN 2014	All
	1650–1700	Closing of the workshop	Coordinators