IBTSWG - International Bottom Trawl Survey Working Group

2015/MA2/SSGIEOM02

Address DATRAS-

data quality checks and

related topics in

the progress in re-

The **International Bottom Trawl Survey Working Group** (IBTSWG), co-chaired by Kai Wieland, Denmark, and Corina Chaves, Portugal, will meet to work on ToRs and generate deliverables as listed in the Table below:

	М	eeting dates	Venue	Reporting detai	ils	Co	omments (change in Chair, e
Yea	nr 2016	4–8 April	Sète, France	Interim report b SSGIEOM	y 5 June 201	16 to	
Yea	nr 2017	27-31 March	ICES HQ	Interim report b SSGIEOM	y 8 May 201	17 to	
Yea	nr 2018	19–23 March	Oranmore, Ireland	Final report by SSGIEOM	18 April 201	8 to	
ToR	descriptors						
ToR	Description		Background		Science plan topics addressed	Duration	Expected deliverables
a	Coordination reporting of N and Northeas Atlantic surve including app field sampling accordance to Data Collection Framework	North Sea tern eys, propriate g in the EU	Intersessional pla and Q3- surveys; of coordinator wi combing the resu nations into an or summary.	communication ith cruise leaders; ilts of individual	30	Recurrent ann update	1) Survey summary including collected data and description of alterations to the plan, to relevant assessment-WGs (WGHMM, WGCSE, WGNEW, WGNSSK, HAWG, WGDEEP, WGEF, WGEF, WGCEPH, WGCEPH, WGHANSA) and SCICOM.
							2) Indices for the relevant species to assessment WGs (see above)
							3) Planning of the upcoming surveys for the survey coordinators and cruise leaders.
b	Review IBTS manuals and additional up improvement design and standardization	consider dates and s in survey	Intersessional act order to improve	tivity, ongoing in survey quality	31	Permanently ongoing	Updated version of survey manual, whenever substantial changes are made (intersessionally)

Issues with data handling, data

requests or challenges with re-

corrected data to DATRAS have

cooperation with DUAP: uploading of historical or

30

Multi-annual

by WKDATR

workshop in

Prioritized list of

quality checking

for solutions and for

activity, supported issues and suggestion

January of 2013 to routines, as well as

	uploading corrected datasets, quality checks of indices calculated, and prioritizing further developments in DATRAS.	been identified and solutions are being developed	solve issues with highest priorities;	definition of possible new DATRAS products, submitted to DATRAS group at ICES (Compare Action List in 2013 report). Once data quality control routines are estabished, annual check of recent survey data.
d	Produce a swept-area- based index (instead of haul time-based index) to be explored in collaboration with the WGISDAA	Swept-area is suggested as an alternative to haul time, because it would remove possible bias resulting from different riggings or gear specifications. In order to evaluate the effect changing to new indices, IBTSWG intends to liase with relevant stock coordinators or assessment groups at ICES.	1 year	Manuscript for paper or CRR, analysing the potential advantages of moving to sweptarea-based standardization. To be presented to assessment groups for evaluation by 2016. The swept-area based cpue product for the NS-IBTS has been delayed due to missing interpolations routines for some countries and surveys and some outstanding revisions of input data on net geometry. The product is now expected to be delivered in year 2.
e	Analyse and report on the effect of variable sweep length, groundgears and GOV riggings between the participating countries	Some aspects of the gear applied in the surveys are not required to be standardized. The effect of these variations are to be evaluated. Partly, different standards for sweep lengths have been applied in Q1 vs. Q3 surveys, and different groundgears and riggings are applied. (For this ToR, the IBTS WG seeks support from gear technology experts and welcomes their contribution, in particular for advice on a potential change of the survey gear.)	2 years	Working document(s) by 2016, Manuscript or CRR by 2017
f	Evaluate the present scheme of collection of age and other biological data	Analysis of spatial distribution of sampling of age and other biological data, options to increase	2 years	Working document(s) by 2016, Manuscript by 2017

		efficiency and minimum required sample sizes			
g	Evaluate the current survey design and explore modifications or alternative survey designs, identifying any potential benefits and drawbacks with respect to spatial distribution and frequency of sampling.	Specific issues to be addressed include: Effect of tow duration; Suitability of species-specific index areas; Stratification and optimal spatial distribution of effort.		3 years	Paper on tow duration experiment in NS- IBTS 3Q 2015 by 2016, Manuscript for paper or CRR by 2018.
h	Data overviews	ICES is building an overview of the different data products and how the information flows from survey to advice, and input is needed from the survey groups in this process.	25, 27	Sept 2016	Quality assure the data product overviews
i	Give input to WKSUREP on data reporting guidelines.	The information flow between data users and the data providers needs to be strengthened	31	Sept 2016	Comment on WKSUREP draft data reporting guidelines.

Summary of the Work plan

Year 1 (2016)	Evaluate the effect of changing to swept-area-based indices for additional examples/ stocks, particularly linked to WGISDAA and benchmark process (ToR d). Evaluate the results of the tow duration experiment from the NS-IBTS 3Q 2015 survey.
Year 2	Continue analyses of different GOV configurations (ToR e).
Year 3	Complete the evaluation of the current survey design and explore modifications or alternative survey designs (ToR g), Update survey manuals if necessary (ToRs e, f and g)
Recurrent annual activity	Updates for ToRs a, b and c.

Supporting information

Priority	Essential, The general need for monitoring fish abundance using surveys is evident in relation to fish stock assessments, and it has increasing importance in relation to MSFD GES descriptors biodiversity, foodwebs, and bottom integrity. Besides the relation of fish abundance with descriptor 3 Exploited stocks.
Scientific justification	ToR a) This is a core function of the IBTSWG, an important forum for coordination and evaluation of standardized bottom trawl surveys in the Eastern Atlantic Area, to ensure good survey coverage in relation to stocks and areas. inter-calibration work. and high quality of data. The group also provides a brief overview the result of the individual surveys undertaken during the previous year and in the firts quarter of the ongoing year. IBTSWG will continue to review feedback and implement modifications, including coordination and implementing new requirements of the EU DCF.
	ToR b) To ensure quality and traceability of sampling protocols, changes in the design and procedures used in the surveys coordinated by the IBTSWG have tobe implemented and documented in detail in the IBTS manuals, which have to be made available via the ICES webpage.
	ToR c) DATRAS has become the core database containing the data obtained in the national IBTSurveys, the The development of DATRAS needs to be evaluated annually, and the group is also the forum to discuss with ICES Data Centre and agree on the priority of desired further developments.
	ToR d) The change from an index based on haul duration as effort unit to a swept-area-based index will be explored to improve robustness of the indices (considered as adequate for multiannual ToR)

	ToR e) Further efforts to standardize gears due to the concerns on availability of materials used, and "technological creep" (considered also multianual).
	ToR f) Actually, a large number of age samples are taken. Many of the samples originate in clusters and do therefore not provide the most appropriate information. An alteration of the current sampling scheme could improve the quality of the resulting ALK's being more efficient in respect of utilizing available resources.
	ToR g) The number of days at sea are limited and in several cases in particular poor weather
	conditions have caused an unbalanced sampling of the survey area. National interests to
	extend sampling may result in conflicts with the available time for fishing in the core areas. If
	survey design issues such as tow duration can be changed without affecting the quality of
	the data provided for stock assessments new task could be included in the survey, the survey
	could better follow changes in the distribution of target species and a general higher degree
	of flexibility and efficiency e.g. for ensuring an appropriate area coverage despite of poor
	weather or technical problems can be achieved.
Resource requirements	A five day IBTS meeting. Prepared documents from members following ToR Leaders identified above. Eight days Chair's time to edit. It is estimated that each ToR will require at least 8 hours preparation.
Participants	The Group is normally attended by some 20–25 members and guests. All members will participate on the discussion of all ToRs, but ToRs leaders have been identified and appointed to intersessionally prepare the work and lead it in the meeting.
Secretariat facilities	Sharepoint plus normal secretariat support.
Financial	No financial implications.
Linkages to advisory committees	ACOM. IBTS indices are used in the assessment of multiple stocks.
Linkages to other committees or	There are relations with other botttom trawl surveys (WGBEAM, WGBIFS) that also use DATRAS as the international repository for its data (WGDIM, DUAP).
groups	There are also a linkages with Assessment WGs using IBTS indices. Also relevant to the Working Group on Ecosystem Effects of Fishing Activities (WGECO) and the Working Group on Improving use of Survey Data for Assessment and Advice (WGISDAA).
Linkages to other organizations	IOC, GOOS.