

Marine Stewardship Council Surveillance Announcement

Name of Fishery	Scottish Fisheries Sustainable Accreditation Group (SFSAG) North Sea Cod	
Surveillance level and type	<p>Expedited audit of Principle 1.</p> <p>Following the publication of ICES advice for North Sea Cod published by ICES 29th June 2019 (http://ices.dk/sites/pub/Publication%20Reports/Advice/2018/2018/cod.27.47d20.pdf)</p> <p>CU Pesca reviewed the information presented and as per as per FCR 7.23.22.1 concluded that an “expedited audit” is required for this fishery as the new information may cause a major change in the status of Principle 1. This audit will examine whether or not there is any change in the perceived status of the stock with respect to the scoring of Principle 1 of this fishery.</p>	
Surveillance number	1st Surveillance	
	2nd Surveillance	
	3rd Surveillance	
	4th Surveillance	
	Other (expedited etc.)	Expedited Audit Principle 1
Proposed Team Leader		
	Name	Dr Hugh Jones
	Areas of responsibility	Team Leader
	Competency criteria (Annex PC)	Dr Hugh Jones has a PhD in Ecotoxicology and strong background in marine research including publications and reports on ecotoxicology, environmental risk assessments and fisheries research. Prior to joining CU Pesca he was employed as a fisheries scientist in the development of an empirical harvest strategy for commercial abalone fisheries and fisheries assessments of estuarine bivalves. This included work on population metrics (recruitment, growth), harvest dynamics (catch rates, market selectivity), and the use of fine scale geospatial techniques as

		<p>performance measures to assess stock sustainability.</p> <p>Dr Jones has completed the required Fishery Team Leader MSC training modules for the new V2.0 Fisheries Certification Requirements.</p> <p>It is proposed that Dr Hugh Jones will act as team leader for this audit and will be responsible for bringing together the work.</p>
	Conflict of interest in relation to this fishery	CU Pesca have reviewed Hugh's information and found no conflict of interest.
	On-site or off-site	Off-site
	CV	See Appendix 1
Proposed team members		
	Name	Dr Robin Cook
	Areas of responsibility	Principle 1
	Competency criteria (Annex PC)	<p>Dr Cook also meets the following requirements in Table PC3: 1. Fish stock assessment and Table PC3 2. Fish stock biology / ecology. In a career spanning over 40 years, Robin has gained experience with the following stock assessment techniques: Bayesian age structured assessment models, Bayesian state-space models applied to demersal stocks that include marine mammal predation interactions, Surplus production modelling of mixed species, Extended Survivors Analysis (XSA), Time Series Analysis (TSA), Stock Synthesis, BAM, ADAPT, SAM and related methods. 30 plus years experience working with the biology and population dynamics of the target or species with similar biology: Robin is</p>

		<p>an expert in demersal fisheries population dynamics. His expertise has focused on North Atlantic systems, in particular the North Sea gadoid populations.</p> <p>Based on the information above and Robin's CV CU Pesca are confident Robin meets the requirements of Table PC3 for 1. Fish stock assessment and 2. Fish stock biology / ecology.</p> <p>It is proposed that Robin will act as Principle 1 expert for this audit.</p> <p>Dr Cook has completed the required Fishery Team member MSC training modules for the new V2.0 Fisheries Certification Requirements.</p>
	Conflict of interest in relation to this fishery	CU Pesca have reviewed Robin's information and found no conflict of interest.
	On-site or off-site	Off-site
	CV	See Appendix 1
Audit/review time and location	<p>The expedited audit will consist of an off-site audit on the 28th September 2018, based on publicly available stock assessment and management materials, in line with FCR v2.0 7.23.22.2. Email contact will be available for both assessors and the client and video conference facilities will be utilised as required.</p>	
Assessment/ review activities	<p>During the audit, CU Pesca will communicate with the client and any relevant stakeholders and use any available up to date information to assess and review;</p> <ul style="list-style-type: none"> Any changes to the scientific base of information such as stock assessments and its impact on Principle 1 scoring. Any other significant changes in the fishery 	

CU Pesca would like to welcome anyone who would like to participate in the site visit. All interested stakeholders are encouraged to contact Hugh Jones hjones@controlunion.com at CU Pesca by email, telephone or post at the below number and address:

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Comments must be made using the [Template for Stakeholder Input into MSC-Assessments](#). Should any stakeholder wish to meet the team in person, this can be arranged. Remote meetings can also be arranged via telephone conferencing or Skype, or written submissions made to the above-mentioned email addresses.

Please note that comments should be factual and should be supported by data or other evidence. Comments may remain unattributed. Furthermore, information that cannot be shared with any other stakeholder will not be referenced in the surveillance report and cannot be used in determining conformity of the fishery with the MSC Standard. Information can be kept confidential if it is restricted to financial transactions about certification, the financial affairs of individual companies or information that may lead to this information being known, or information that is the subject of relevant national privacy or data protection legislation in the assessed fishery's country.

Submitted by: Hugh Jones

Date: 27th August 2018

Deadline for stakeholder comment: 26th September 2018 at 17:00 GMT

Appendix 1: CVs of team leader and team

Dr HUGH JONES B.Sc. PhD Curriculum Vitae

Qualifications:

2010-2013 PhD. 'Accumulation of mercury in estuarine food webs: biogeochemical and ecological considerations'. University of Tasmania, Australia.

2006-2007 Graduate Certificate of Education. University of Plymouth, U.K.

1999-2002 B Sc. (Hons) Marine Biology and Coastal Ecology, (1st class). 'The influence of nest characteristics and vano abundance on viability of eggs of the leatherback sea turtle (*Dermochelys coriacea*)'. University of Plymouth, U.K.

Employment History:

Current ME Certification, UK – Fisheries Assessment Manager

<http://www.me-cert.com/about-mec/mec-team-profiles/>

2013 - 2017 University of Tasmania – Junior Research Fellow – Invertebrate Fisheries

<http://www.utas.edu.au/profiles/staff/imas/hugh-jones>

2010-2013 University of Tasmania – PhD candidate

2009-2010 University of Tasmania – Research Assistant (fisheries and aquaculture)

2008-2009 Matahari Perhentian Island, Malaysia – Marine Conservation/Dive Manager

2004-2008 Field Studies Council, UK - Senior Tutor of Ecology

2003-2004 Marine Biological Association of the UK – Research Assistant

2003 Four Seasons Explorer, Maldives – Marine Biologist Consultant/Dive Officer

2002 Marine Biological Association of the UK – Scientific Officer

Professional and Academic Bodies:

Fisheries Society of the British Isles, Marine Biological Association of UK, Field Studies Council, British Ecological Society.

Journal Published Papers (most recent first):

Wallis, J.R., Swadling, K.M., Everett, J.D., Suthers, I.M., **Jones, H.J.**, Buchanan, P.J., Crawford, C.M., James, L.C., Johnson, R., Meiners, K.M., Virtue, P., Westwood, K., Kawaguchi, S. (2015). Zooplankton abundance and biomass size spectra in the East Antarctic sea-ice zone during the winter-spring transition, Deep-Sea Research. Part 2 pp. 1-12 **I.F. 2.8**

Jones, H. J., Swadling, K. M., Butler, E. C. V., Barry, L. A. & Macleod, C. K. (2014). Application of stable isotope mixing models for defining trophic biomagnification pathways of mercury and selenium. Limnology and Oceanography – 59 (4), 1181-92 **I.F. 3.4**

Jones, H. J., Butler, E. C. V., Swadling, K. M., & Macleod, C. K. (2013). Complex patterns in fish – sediment mercury concentrations in a contaminated estuary: the influence of selenium co-contamination? *Estuarine and Coastal Shelf Science*. 137, 14-22. **I.F. 2.80**

Jones, H. J., Butler, E. C. V. & Macleod, C. K. (2013). Spatial variability in selenium and mercury interactions in a key recreational fish species: implications for human health and environmental monitoring. *Marine Pollution Bulletin*. **I.F. 3.15**

Jones, H. J., Swadling, K. M., Tracey, S. R. & Macleod, C. K. (2013). Long term trends of Hg uptake in resident fish from a polluted estuary. *Marine Pollution Bulletin* 73, 263-272. **I.F. 3.15**

Stock Assessments (most recent first):

Jones, H. and Emery, T. (2016) Stock Status of Venus Clam. The Status of Australian Fish Stocks Report. FRDC 2016. www.fish.gov.au

Dent, J, Hart, A. **Jones, H.** and Mayfield, S. (2016) Stock Status of Vongoles *Katelysia* spp. The Status of Australian Fish Stocks Report. FRDC 2016. www.fish.gov.au

Mundy, C.N. and **Jones, H.J.** (2017), Tasmanian abalone fishery assessment 2016, tech report, Institute for Marine and Antarctic Studies Report. University of Tasmania, Hobart.

Mundy, C.N. and **Jones, H.J.** (2016), Tasmanian abalone fishery assessment 2015, tech report, Institute for Marine and Antarctic Studies Report. University of Tasmania, Hobart. https://secure.utas.edu.au/data/assets/pdf_file/0008/951038/TasAbaloneAssessmentFY2015.pdf

Jones H.J. & Gardner, C. (2016) Tasmanian small bivalve fishery assessment - *Ostrea angasi*, *Venerupis largillierti*, *Katelysia scalarina*. *IMAS Technical Report*, UTAS, Hobart, Australia.

Published Reports (most recent first):

Jones H.J., Tarbath, D. & Gardner, C. (2015) Could harvest from abalone stocks be increased through better management of the size limit/quota interaction? Technical Report, DOI: 10.13140/RG.2.1.4039.6960, Australian Seafood CRC Project No. 2009/746

Jones H.J., Macleod C., Swadling K. (2010) Establishing mercury bioaccumulation pathways to top predators within a contaminated Australian estuary - providing essential information for faunal conservation and ecosystem remediation. *IMAS Technical Report*, UTAS, Hobart, Australia.

Hiscock K., **Jones H.J.** (2003) Testing criteria for assessing 'national importance' of marine species, biotopes (habitats) and landscapes. *Report to Joint Nature Conservation Committee from the Marine Life Information Network (MarLIN)*. Plymouth: Marine Biological Association of the UK. [Contract no. F90-01-681].

Hiscock K., Tyler-Walters H. & **Jones H.J.**, (2002). High Level Environmental Screening Study for Offshore Wind Farm Developments - Marine Habitats and Species Project. *Report*

to The Department of Trade and Industry New and Renewable Energy Programme. (AEA Technology, Environment Contract: W/35/00632/00/00.)

Jones H.J., (2002) *Pennatula phosphorea*, The Phosphorescent Sea Pen. *Marine Life Information Network: Biology and Sensitivity Key Information Sub-programme*. Plymouth: Marine Biological Association of the United Kingdom. For website: <<http://www.marlin.ac.uk>>

Jones H.J., (2002) *Epizoanthus couchii*. A sea anemone. *Marine Life Information Network: Biology and Sensitivity Key Information Sub-programme*, Plymouth: Marine Biological Association of the United Kingdom. For website: <<http://www.marlin.ac.uk>>

Marine Stewardship Council Reports (most recent first)

Jones, H. M. Cieri and S. des Clers (2018) Cornwall Sardine Expedited audit and Year 1 Surveillance Report for the Marine Stewardship Council.
<https://fisheries.msc.org/en/fisheries/cornwall-sardine-uk/@@view>

Jones, H. J. Gascoigne. D. Japp and M. Bell (2018) Tristan da Cunha Year 1 Surveillance Report for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/tristan-da-cunha-rock-lobster/@@view>

Jones, H. R. Cook, J. Gascoigne and G. Honneland (2018) SFSAG Northern Demersal Stocks. Fishery Public Certification Report for the Marine Stewardship Council.
<https://fisheries.msc.org/en/fisheries/sfsag-northern-demersal-stocks/@@view>

Jones, H. R. Cook, J. Gascoigne and G. Honneland (2018) SFSAG Rockall Haddock Fishery Public Certification Report for the Marine Stewardship Council.
<https://fisheries.msc.org/en/fisheries/scottish-fisheries-sustainable-accreditation-group-sfsag-rockall-haddock/@@view>

Jones, H. Blyth-Skyrme, R. and Addison, J. (2018) Poole Harbour Clam and Cockle Fishery Public Certification Report for the Marine Stewardship Council.
<https://fisheries.msc.org/en/fisheries/the-poole-harbour-clam-cockle-fishery/@@view>

Gascoigne J. **Jones H.** and Doggett M. (2017) Dee Estuary Cockle Fishery Re-Assessment. ME Certification (CAB) for the Marine Stewardship Council.
<https://fisheries.msc.org/en/fisheries/dee-estuary-cockle/@@assessments>

Jones H. and Gascoigne J. (2017) SFSAG Saithe fishery. Year 3 Surveillance Audit. ME Certification (CAB) for the Marine Stewardship Council.
<https://fisheries.msc.org/en/fisheries/scottish-fisheries-sustainable-accreditation-group-sfsag-saithe/@@assessments>

Jones H. and Gascoigne J. (2017) SFSAG North Sea haddock fishery. Year 3 Surveillance Audit. ME Certification (CAB) for the Marine Stewardship Council.
<https://fisheries.msc.org/en/fisheries/scottish-fisheries-sustainable-accreditation-group-sfsag-north-sea-haddock/@@view>

Gascoigne J. **Jones H.** and Doggett M. (2017) Dee Estuary Cockle Fishery Year 4 Surveillance Audit. ME Certification (CAB) for the Marine Stewardship Council.
<https://fisheries.msc.org/en/fisheries/dee-estuary-cockle/@@assessments>

Gascoigne J. **Jones H.** and Des Clers S. (2017) The SPSG, DPPO, PFA, SPFPO & KFO Atlanto-Scandian purse seine and pelagic trawl herring fishery. Year 1 Surveillance Audit. ME Certification (CAB) for the Marine Stewardship Council.
<https://fisheries.msc.org/en/fisheries/spsg-dppo-pfa-spfpo-kfo-atlanto-scandian-purse-seine-and-pelagic-trawl-herring/@@assessments>

Jones H. Gascoigne J. Pawson, M. and Des Clers S. (2017) The SPSG, DPPO, PFA, KFO & Compagnie des Pêches St Malo Northeast Atlantic Blue Whiting pelagic trawl fishery. Year 1 Surveillance Audit. ME Certification (CAB) for the Marine Stewardship Council.
<https://fisheries.msc.org/en/fisheries/pfa-dppo-kfo-spsg-compagnie-des-peches-st-malo-northeast-atlantic-blue-whiting-pelagic-trawl/@@view>

Marine Stewardship Council Pre-assessment Reports (unpublished)

Jones, H. J. Gascoigne, Y. Tamura and S. des Clers (2018) Marine Stewardship Council (MSC) Preassessment Final Report Usufuku Honten Co. Ltd North Eastern Atlantic Bluefin tuna fishery.

Jones, H. Gardner, C. Groeneveld, J. Cieri, M. Irvine S. and Tamura, Y. (2017) Marine Stewardship Council (MSC) Preassessment Final Report Shijiki fishery co-operative (Japanese flounder, Red Seabream, Slipper lobster, spear squid) On behalf of MSC Japan.

Jones, H. Gardner, C. Groeneveld, J. Cieri, M. Irvine S. and Tamura, Y. (2017) Marine Stewardship Council (MSC) Preassessment Final Report Fukuoka Prefecture (Japanese flounder, Red Seabream, Spanish mackerel, Horse mackerel and Japanese Amberjack) On behalf of MSC Japan.

Gascoigne J. Drugan J. Tamura Y. and **Jones H.** (2017) Japanese albacore and skipjack pole and line fishery. MSC Pre-assessment. ME Certification (CAB) for the Marine Stewardship Council Japan.

Gascoigne J. Tamura Y. Cieri M. and **Jones H.** (2017) Spiny lobster (gillnet), Turban shell (gillnet, ama diving and mizuki fishing), Sardine, anchovy, chub mackerel, blue or southern mackerel and herring (purse seine) fisheries in Mie Prefecture. MSC Pre-assessment. ME Certification (CAB) for the Marine Stewardship Council Japan.

Research funding

2016 Department of Primary Industries, Parks, Water and Environment - *Estimating biomass, total catch allocations and sustainability of the Tasmanian small bivalve fisheries.* \$16,000

2014-2017 Fisheries Research and Development Corporation, Australia - *Understanding East Coast recruitment collapse – Development of pre-recruitment monitoring, simulation of recruitment variation and predicting the impact of climate variation in the Tasmanian Blacklip Abalone (Haliotis rubra) Fishery.* \$120,000p.a.

2010-2013 Nyrstar PhD scholarship \$22,000p.a.

2010-2013 University of Tasmania Elite Student Scholarship \$5000p.a.

2010 -2013 Seafood CRC analytical grant (2011/703) - *Tracking methyl mercury contamination pathways in key commercially and recreationally fished species*. CK Macleod (PI) H Jones (CI) \$30000p.a.

2011 SeaWorld (SWR/12/2011) - *Tracking of Elasmobranch prey species as evidence of key trophic accumulation pathways of Hg* – CK Macleod (PI) H Jones (CI) \$20000

2010-2011 Australian National Nuclear Research and Development Organisation Grant - *Multiple lines of evidence to identify mercury bioaccumulation pathways in a key recreationally caught fish species*. – K Swadling (PI), H Jones (CI) \$5000p.a. (in kind)

2009 Australian Geographic Seed Grant - *Using Multiple Lines of Evidence as Identification of Key Trophic Accumulation Pathways of Mercury (Hg) in Estuarine Food Webs* CK Macleod (PI) H Jones (CI) \$2500

ROBIN COOK: CURRICULUM VITAE

QUALIFICATIONS

- 1973 BSc(hons) Zoology, Durham University
- 1977 D.Phil, Oxford University. Population modelling

EMPLOYMENT

- 1979-1987 Stock assessment scientist, Department of Agriculture and Fisheries for Scotland, Marine Laboratory, Demersal fish section.
- 1987-1989 Section Leader, Population Studies section, DAFS Marine Lab.
- 1989-1998 Head of Fish Resources Team, SOAEFD Marine Laboratory.
- 1998-2001 Programme Manager, Fisheries Management, FRS Marine Laboratory
- 2001-2002 Marine Fisheries Advisor, FRS Marine Laboratory
- April 2002- 2009: Chief Executive and Director, Fisheries Research Services
- April 2009 – 2011 Head of Science Marine Scotland
- 2011 – 2015, Executive Secretary of the European Fisheries and Aquaculture Organisation (EFARO).
- September 2011- Senior Research Fellow, MASTS Population Modelling Group, University of Strathclyde, Glasgow

HONORARY POSITIONS

Professor in the School of Biological Sciences, University of Aberdeen

External scientific advisor, EU- MareFrame project

SELECTED GOVERNMENT POSITIONS

- Chair of the UK Co-ordinator of Fisheries R&D working group on fish stock recruitment modelling,
- Chair of the Sustainability working group of the Ministerial Sea Fisheries Strategy Advisory Group
- Scottish Government member of the UK Marine Science Coordination Committee
- Member of Marine Fisheries Science Advisory Group for the UK Department of the Environment and Rural Affairs (Defra)

ADVISORY WORK ON FISHERIES

- UK Member of the Advisory Committee on Fishery Management (ACFM) 1995-1997.
- Chair of the Working group on the assessment of demersal stocks in the North Sea and Skagerrak, 1992-1994.
- Chair of the study group on the use of selectivity measurements in stock assessment.
- Member of the Scientific, Economic and Technical Committee on Fisheries (STECF), 1992-1995, the independent group of experts which advises the Commission on fisheries management
- Chair of the STECF working group on the improvement of exploitation pattern of North Sea Fisheries, 1993.
- A member of the Center for Independent Experts, University of Miami, Florida, conducting annual external reviews of United States fish stock assessments.

INTERNATIONAL CONFERENCES

- Speaker at World Fisheries Conference, Edinburgh, 2012
- Keynote Speaker, OCEANS 2007 conference Aberdeen, 2007
- Host and organiser of the ICES Annual Science Conference, Aberdeen 2005
- Co-convener, ICES symposium on the Influence of Climate Change on North Atlantic Fish Stocks, Bergen, 2004.
- Invited speaker, FAO Symposium on Responsible Fisheries in the Marine Ecosystem, Reykjavik, 2001
- Invited speaker, Integrating Ecosystem considerations into Fisheries Management, Scotland week, Brussels, 2001

MODELLING SOFTWARE EXPERIENCE

FORTRAN and NAG numerical libraries

AD Model builder

WinBUGS/OpenBUGS

R

SPSS

STOCK ASSESSMENT MODELLING EXPERIENCE

Bayesian age structured assessment models using survey data only (reference 6 below)

Bayesian state-space models applied to demersal stocks that include seal predation interactions. (reference 2 below)

Surplus production modelling of mixed species (reference 7 below)

Extended Survivors Analysis (XSA) as used by ICES

Time Series Analysis (TSA) - State-space modelling using time series methods on UK demersal stocks

Working knowledge of Stock Synthesis, BAM, ADAPT, SAM and related methods

SELECTED PUBLICATIONS

1. **Cook, R.M.** and Trijoulet, V (in review) .The effects of grey seal predation and commercial fishing on the recovery of a depleted cod stock. Canadian Journal of fisheries and aquatic science.
2. **Cook, R.M.**, Holmes, S. and Fryer, R. J. (2015). Grey seal predation impairs recovery of an over-exploited fish stock. Journal of Applied Ecology, DOI: 10.1111/1365-2664.12439
3. Heath, M. R. and **Cook, R. M.** (2015) Hind-casting the quantity and composition of discards by mixed demersal fisheries in the North Sea. PLOS ONE, DOI: 10.1371/journal.pone.0117078.
4. Heath, Michael, **Robin Cook**, Angus Cameron, David Morris, and Douglas Speirs (2014). Cascading ecological effects of eliminating fishery discards. Nature Communications 5, Article number: 3893 doi:10.1038/ncomms4893.
5. Fernandes, P.G. and **Cook, R.M.** (2013). Reversal of fish stock decline in the North East Atlantic. Current Biology, 23:1-6.
6. **Cook, R.M.** (2013). A fish stock assessment model using survey data when estimates of catch are unreliable. Fisheries Research 143:1– 11

7. Henrik Sparholt and **Robin M. Cook** (2009). Sustainable exploitation of temperate fish stocks. *Biology Letters* 23:124-7

8. **Cook, R.M.** and M.R. Heath. (2005). The implications of warming climate for the management of North Sea demersal fisheries. *ICES Marine Science* 62:1322-1326.

9. **Cook, R.M.** (2003). The magnitude and impact of by-catch mortality by fishing gear. In Sinclair M and G. Valdimarsson (eds), *Responsible Fisheries in the Marine Ecosystem*, FAO and CABI publishing, Rome and Oxford.

10. Stratoudakis, Y, R.J. Fryer, **R.M. Cook**, G.J. Pierce and K.A. Coull (2001). Fish bycatch and discarding in Nephrops trawlers in the Firth of Clyde (west of Scotland). *Aquatic Living Resources*, 14: 283-291.

11. Patterson, Kenneth, **Robin Cook**, Chris Darby, Stratis Gavaris, Laurence Kell, Peter Lewy, Benoît Mesnil, André Punt, Victor Restrepo, Dankert W. Skagen & Gunnar Stefánsson, (2001) Estimating uncertainty in fish stock assessment and forecasting. *Fish and Fisheries*, 2:125–157.

12. **Cook, R. M.** 2000. A rough guide to population change in exploited fish stocks. *Ecology Letters*, 3:394-398.

13. **Cook, R.M.** 1998. A sustainability criterion for the exploitation of North Sea cod. *ICES Journal of Marine Science*, 55: 1061-1070.

14. **Cook, R.M.** 1997. Stock trends in six North Sea stocks as revealed by an analysis of research vessel surveys. *ICES Journal of Marine Science*, 54:924-933.

15. **Cook, R.M.**, A. Sinclair, G. Stefansson, 1997. Potential collapse of North Sea cod stocks. *Nature*, 385:521-522.

