

False Killer Whale Take Reduction Team (FKWTRT)
Meeting #1, February 17-19, 2010
Honolulu, Hawaii

Meeting Materials

1) General Meeting Information

- a. Provisional Meeting Agenda
- b. Team Member and Alternate List
- c. Proposed Ground Rules
- d. CONCUR Introduction
- e. CONCUR Stakeholder Assessment Report (Interviews Summary) (*to be provided at meeting*)

2) Process Overview

- a. Federal Register notice establishing the FKWTRT (75 FR 2853, January 19, 2010)
- b. Frequently Asked Questions about the False Killer Whale Take Reduction Process (*to be provided at meeting*)

3) Background Information

- a. Draft 2009 Stock Assessment Report (SAR) (*or Final 2009 SAR to be provided at meeting if available*)
- b. Forney, K.A. 2009 Serious injury determinations for cetaceans caught in Hawaii longline fisheries during 1994-2008. Draft document PSRG-2009-09 presented to the Pacific Scientific Review Group, November 3-5, 2009, Del Mar, CA.
- c. Table of Pacific Islands Region Cetacean Mortalities and Serious Injuries and Potential Biological Removal Levels (PBR)
- d. Revisions to Guidelines for Assessing Marine Mammal Stocks (GAMMS II)
- e. Differentiating Serious and Non-Serious Injury of Marine Mammals: Report of the Serious Injury Technical Workshop, 10-13 September 2007, Seattle, Washington.
- f. 90-Day Finding on a Petition to List the Insular Population of Hawaiian False Killer Whales as an Endangered Species (75 FR 316, January 5, 2010)

4) Selected Scientific Literature on False Killer Whales

- a. Baird, R.W. 2009. A review of false killer whales in Hawaiian waters: biology, status, and risk factors. Report prepared for the U.S. Marine Mammal Commission under Order Number E40475499, December 23, 2009, 41 pp.
- b. Baird, R.W., A.M. Gorgone, D.J. McSweeney, D.L. Webster, D.R. Salden, M.H. Deakos, A.D. Ligon, G.S. Schorr, J. Barlow, and S.D. Mahaffy. 2008. False killer whale (*Pseudorca crassidens*) around the main Hawaiian Islands: Long-term site fidelity, inter-island movements, and association patterns. *Marine Mammal Science* 24(3): 591-612.
- c. Madsen, P.T., I. Kerr, and R. Payne. 2004. Echolocation clicks of two free-ranging, oceanic delphinids with different food preferences: false killer whales (*Pseudorca crassidens*) and Risso's dolphins (*Grampus griseus*). *Journal of the Acoustical Society of America* 207: 1811-1823.

- d. Yuen, M.M.L., P.E. Nachtigall, M. Breese, and A.Ya. Supin. 2005. Behavioral and auditory evoked potential audiograms of a false killer whale (*Pseudorca crassidens*). *Journal of the Acoustical Society of America* 118(4): 2688-2695.
- e. Reference list of additional false killer whale bioacoustics papers

5) Longline Fishery Information

- a. Overview/Description
 - i. Swenarton, T. and S. Beverly. 2004. Documentation and classification of fishing gear and technology on board pelagic longline vessels: Hawaii module. Working Paper for the 17th Meeting of the Standing Committee on Tuna and Billfish, Majuro, Marshall Islands, 9-18 August 2004, INF-FTWG-2, 17 pp.
 - ii. Pooley, S. 1993. Hawaii's Marine Fisheries: Some History, Long-term Trends, and Recent Developments. *Marine Fisheries Review* 55(2): 7-19.
 - iii. Boggs, C.H. and R.Y. Ito. 1993. Hawaii's Pelagic Fisheries. *Marine Fisheries Review* 55(2): 69-82.
 - iv. Pacific Pelagic Fisheries Overview – Western Pacific Regional Fisheries Management Council, <http://wpcouncil.org/pelagic-fisheriestoday.html>
- b. Regulations
 - i. Summary of Hawaii Longline Fishing Regulations – January 28, 2010
 - ii. Seabird Compliance Guide – October 2009
 - iii. Sea Turtle Compliance Guide – October 2009
 - iv. Protected species placards for longline fishing vessels in the Pacific Islands Region
- c. Landings
 - i. Pacific Islands Fisheries Science Center. 2009. The Hawaii-based Longline Logbook Summary Report: January–December 2008. PIFSC Data Report DR-09-004, 15 pp.
- d. Sociocultural Assessments
 - i. Allen, S. and A. Gough. 2007. Hawaii Longline Fishermen's Experiences with the Observer Program. NOAA Tech. Memo. NMFS-PIFSC-8, 47 pp.
 - ii. Reference list of additional sociocultural assessments

6) Observer Reports

- a. 1994-2001 Annual Reports - HI Longline
- b. 2002-2009 Annual Reports - HI Longline Deep-set
- c. 2004-2009 Annual Reports - HI Longline Shallow-set
- d. Representative Marine Mammal Biological Data Forms

7) Search for Solutions: Lessons Learned

- a. Atlantic Pelagic Longline Take Reduction Plan
 - i. Atlantic Pelagic Longline Take Reduction Team's recommended Draft Take Reduction Plan
 - ii. Final Rule implementing the Take Reduction Plan
- b. Summary of existing measures from other Take Reduction Plans (*to be provided at meeting*)
- c. The Western Pacific Regional Fishery Management Council's Marine Mammal Advisory Committee (MMAC)

- i. Recommendations from the MMAC
 - ii. Table of possible mitigation measures developed by PIRO for the MMAC in 2007
- d. Reports from Workshops Addressing the Depredation Issue
 - i. Report of the Workshop on Interactions between cetaceans and longline fisheries, 11-15 November 2002, Apia, Samoa
 - ii. Relevant abstracts and workshop summaries from the Vancouver Aquarium's Symposium on Fisheries Depredation by Killer and Sperm Whales (Behavioural Insights, Behavioural Solutions), October 2-5, 2006, British Columbia, Canada
 - iii. Report of the Workshop on the Depredation in the Tuna Longline Fisheries in the Indian Ocean, 9-10 July 2007, Victoria, Seychelles
- e. Acoustic Research on Depredation
 - i. Mooney, T.A., A.F. Pacini, and P.E. Nachtigall. 2009. False killer whale (*Pseudorca crassidens*) echolocation and acoustic disruption: implications for longline bycatch and depredation. *Canadian Journal of Zoology* 87: 726-733.
 - ii. Thode, A., J. Straley, C.O. Tiemann, K. Folkert, and V. O'Connell. 2007. Observations of potential acoustic cues that attract sperm whales to longline fishing in the Gulf of Alaska. *Journal of the Acoustical Society of America* 122(2): 1265-1277.
 - iii. McPherson, G., P. Turner, C. McPherson, and D. Cato. 2003. Testing of acoustic tracking system for toothed whales around longline and gillnet fishing gear, and preliminary trials of depredation mitigation devices for longline fisheries. Project Report (R02/0923). Report to Eastern Tuna Management Advisory Committee, Southern and Western Tuna and Billfish Management Advisory Committee and Australian Fisheries Management Authority, 37 pp.
- f. Moreno, C.A., R. Castro, L.J. Mújica, and P. Reyes. 2008. Significant conservation benefits obtained from the use of a new fishing gear in the Chilean Patagonian toothfish fishery. *CCAMLR Science* 15: 79-91.
- g. Other Relevant Information
 - i. TEC, Inc. 2009. Cetacean depredation in the Hawaii longline fishery: Interviews of longline vessel owners and captains. Report for NOAA NMFS Pacific Islands Regional Office, 34 pp.
 - ii. Reference list of additional relevant papers on bycatch and depredation