

**LOG OF PERMITS TO ACCESS THE STATE OF HAWAI'I NWHI MARINE REFUGE
PERMITS SUBMITTED AS OF MAY 10, 2006**

	Permit App Date	Made Public Date	Public Hearing Date	Permit Requester	Permit Description	Affected locations/ length of visit	Prior Visits?	Necessary for management/ resource protection?	Possible outside of NWHI?	Concerns/Comments on proposed activities	Concerns/Comments on Permit Evaluation Process	Approved?
1	3/13/06	3/22/06	3/24/06	George "Bud" Antonelis (NOAA)	Monk Seal Recovery Program ~ cull predatory Galapagos sharks, ~ take 460 biopsies of whales and dolphins by crossbow, ~ extensive small boat operations,	Nihoa, Mokumanamana, Laysan, Maro, Lisianski, Neva, Pearl & Hermes, Kure, Gardner Pinnacles, French Frigate, Kure. Extensive small boat travel in & around French Frigate, Pearl & Hermes, Kure. 6 months total	Yes.	monk seal recovery efforts needed, but some proposed methods do not seem justified.	No.	No mention of starvation, emaciation, lack of prey in analysis of monk seal recovery plan. No analysis of impact on species from research methods - use of crossbows to take biopsies, daily small boat visits to sensitive areas, changed behavior of sharks due to culling attempts. Insufficient alien species prevention protocols (vessel traveling from Samoa, no hull inspection planned before leaving HNL, 135,000 gallons of ballast water not inspected, tender vessels & gear not inspected) Inadequate wastewater disposal protocols (6,000 gallons of grey & black water, no plan for location of disposal)	Environmental Assessment on shark culling referred to in application was not provided. Only one Hawaiian consulted, strongly objected to killing of apex predators; plus, limited time for public input, no independent ecosystem science review panel.	partially approved (NWHI06R001)
2	3/13/06	3/22/06	3/24/06	Michael Devany (NOAA)	Vessel: Oscar Elton Sette to be used in support of various research activities.	Nihoa, Mokumanamana, Laysan, Maro, Lisianski, Neva, Pearl & Hermes, Kure, Gardner Pinnacles, French Frigate, Kure. Extensive small boat travel in & around French Frigate, Pearl & Hermes, Kure. 6 months total		see Antonelis permit	No.	see Antonelis permit.	Only one Hawaiian consulted, limited time for public input, no independent ecosystem science review panel.	yes (NWHI06S001)
6	3/6/06	4/25/06	4/28/06	Carl Meyer (HIMB)	Tagging of ecologically important and commercially valuable top predators in NWHI. Propose tagging three shark species and grey snapper (<i>Aprion Virescens</i> - a commercially valuable bottomfish).	Nihoa, Gardner Pinnacles, French Frigate. 25 days.	Yes.	No.	Yes.	Violation of the Refuge's "no commercial use" standard: Tagging of commercially valuable bottomfish may increase exploitation and violation of Refuge/Reserve rules by commercial operators. Recommend eliminating grey snapper from tag study. No study of impact from research methods: 107 animals already tagged by acoustic transmitters, yet no study cited of impact acoustic transmitters have on species behavior.	Only one Hawaiian consulted, limited time for public input, no independent ecosystem science review panel.	NWHI06R003
8	3/9/06	4/24/06	4/28/06	Robert Toonen (HIMB)	Genetic sampling of coral to assess connectivity between NWHI and MHI. Will take 3,300 samples of invertebrates, including 180 spiny and slipper lobster, 1,100 coral samples, 500 sea urchins.	Nihoa, Gardner Pinnacles, French Frigate. 25 days.	Yes.	understanding connectivity is important to NWHI management, but methods do not seem justified.	No.	Invasive research methods unjustified: lack of peer-reviewed science to support researcher's claim of "100% survivability" from the taking rice-grain sized biopsies of hermit crabs, corals, and other invertebrates. No scientific evidence on what is the standing populations of the 29 species to be taken or on the recovery rates of the species affected. 700 coral samples were collected from NWHI last years with no follow up research on recovery of those coral beds or report on information discovered.	Researcher currently has \$100,000 in funding from the Western Pacific Regional Fishery Council (WESPAC); WESPAC is under federal investigation & advocates for opening Nihoa and Gardner Pinnacles to commercial extraction. Only one Hawaiian consulted, limited time for public input, no independent ecosystem science review panel.	NWHI06R005

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9	3/8/06	4/24/06	4/28/06	Ruth Gates (HIMB)	Take 1,500 coral samples to assess disease indicators in coral reefs to identify robust biological indicators of coral disease and bleaching	Nihoa, Gardner Pinnacles, French Frigate. 25 days.		No.	YES.	Hypothesis can be tested elsewhere: research is testing a general theory widely applicable to coral populations. Initial testing of the theory should be conducted in less sensitive areas than the NWHI, especially given the risk of transmitting disease between test sites. Transmission of coral disease from site to site: no indication that proposal to soak gear in 10% bleach solution will be sufficient to kill diseases being studied. 741 areas of coral already sampled, research needed to assess any harm to these corals before further research is done.	Only one Hawaiian consulted, limited time for public input, no independent ecosystem science review panel.	NWHI06R006
10	3/6/06	4/24/06	4/28/06	Michael Rappe (HIMB)	Take 1,500 coral samples to assess disease indicators in coral reefs to assess whether microbial community structure can be used as bioindicators of coral health.	Nihoa, Gardner Pinnacles, French Frigate. 25 days.		No.	YES.	Hypothesis can be tested elsewhere: research is testing a general theory widely applicable to coral populations. Initial testing of the theory should be conducted in less sensitive areas than the NWHI, especially given the risk of transmitting disease between test sites. Transmission of coral disease from site to site: no indication that proposal to soak gear in 10% bleach solution will be sufficient to kill diseases being studied. 741 areas of coral already sampled, research needed to assess any harm to these corals before further research is done. FFS is a crucial monk seal pupping and foraging habitat - researcher presence there may interfere with the natural character of the area.	Special Activity permit requested by research - unclear why. Only one Hawaiian consulted, limited time for public input, no independent ecosystem science review panel.	NWHI06R007
11	3/10/06	4/24/06	4/28/06	Greta Aeby (HIMB)	1,000 samples of coral taken from every colony on single reef to investigate coral disease and bleaching.	French Frigate. 25 days.		No.	Yes.	Hypothesis can be tested elsewhere: research is testing a general theory widely applicable to coral populations. Initial testing of the theory should be conducted in less sensitive areas than the NWHI, especially given the risk of transmitting disease between test sites. Transmission of coral disease from site to site: no indication that proposal to soak gear in 10% bleach solution will be sufficient to kill diseases being studied. FFS is a crucial monk seal pupping and foraging habitat - researcher presence there may interfere with the natural character of the area.	Only one Hawaiian consulted, limited time for public input, no independent ecosystem science review panel.	NWHI06R008
12	3/7/06	4/24/06	4/28/06	Stephen Karl (HIMB)	1,000 samples of coral taken from every colony on single reef to investigate coral disease and bleaching.	French Frigate. 25 days.		No.	Yes.	Hypothesis can be tested elsewhere: research is testing a general theory widely applicable to coral populations. Initial testing of the theory should be conducted in less sensitive areas than the NWHI, especially given the risk of transmitting disease between test sites. Transmission of coral disease from site to site: no indication that proposal to soak gear in 10% bleach solution will be sufficient to kill diseases being studied. FFS is a crucial monk seal pupping and foraging habitat - researcher presence there may interfere with the natural character of the area.	Only one Hawaiian consulted, limited time for public input, no independent ecosystem science review panel.	NWHI06R009
7	3/9/06	4/24/06	4/28/06	Brian Bowen (HIMB)	Genetic sampling of 22 coral species to assess connectivity between NWHI and MHI. Will take 300 individuals in 4 butterfly fish species, in addition to others, including fish valuable to the aquarium fish trade.	Nihoa, Gardner Pinnacles, French Frigate. 25 days.		understanding connectivity is important to NWHI management, but methods do not seem justified.	No.	Invasive research methods unjustified: research will take large number of fish who are known to have strong territorial relationship with living corals without basic information about the fish and coral populations. Less-invasive methods, such as basic population assessments, should be conducted before individuals are taken from the ecosystem.	Only one Hawaiian consulted, limited time for public input, no independent ecosystem science review panel.	NWHI06R004

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4	4/2/06	4/24/06	4/28/06	Scott Kuester (NOAA)	Vessel: Hi'ialakai to be used in support of various research activities.	Nihoa, Mokumanamana, Laysan, Maro, Lisianski, Neva, Pearl & Hermes, Kure, Gardner Pinnacles, French Frigate. 87 days.	Yes.	Yes.	No.	Inadequate waste storage, treatment, and disposal practices: concerned about the discharge of raw sewage and chemicals from NOAA ships into Reserve and State waters. Need maps of current waste dumping sites; should impose minimum waste management standards on all ships to prevent improper discharge of harmful waste.	Only one Hawaiian consulted, limited time for public input, no independent ecosystem science review panel.	yes, NWHI06S003
5	4/10/06	4/24/07	4/28/06	Randall Kosaki (NOAA)	NOAA staff to act in support of various research activities.	Nihoa, Gardner Pinnacles, French Frigate. 25 days.	Yes.	Yes.	No.	Inadequate waste storage, treatment, and disposal practices: concerned about the discharge of raw sewage and chemicals from NOAA ships into Reserve and State waters. Need maps of current waste dumping sites; should impose minimum waste management standards on all ships to prevent improper discharge of harmful waste.	Only one Hawaiian consulted, limited time for public input, no independent ecosystem science review panel.	NWHI06R002
13	4/7/06	4/24/06	4/28/06	Cynthia Vanderlip (DLNR/DOFAW)	Marine Debris Removal	Kure Atoll. 5 months.	Yes.	Yes.	No.	Researcher's protocol for invasive species prevention should be required of all research permittees as it appears to be the best practice: "Before departure, both vessels are washed, fumigated, and inspected for alien terrestrial and aquatic species. All gear is soaked in 100% fresh water for 24 hours. Care is taken to open all pockets and zippered compartments before soaking in fresh water. Life vests, cushions, and lines are washed and frozen for 48 hours." Separate permit application to photograph spinner dolphins was referenced in this application, but no such application was released to the public.	Only one Hawaiian consulted, limited time for public input, no independent ecosystem science review panel.	NWHI06R010
3	4/7/06	4/24/06	4/28/06	Ty Rinoski (USCG)	Marine Debris Removal	Maro Reef 17 days.	Yes.	Yes.	No.	No protocol for management of wastewater (sewage 1,770 gal., grey water 2,800 gal.); no ballast water inspection (96,233 gal.) No protocol for prevention of invasive species from tender vessels and equipment.	Only one Hawaiian consulted, limited time for public input, no independent ecosystem science review panel.	yes (NWHI06S002)
1			6/9/06	John Rooney (NOAA)	Multibeam mapping	Pearl & Hermes, Kure						pending
2			6/9/06	Leszek Karczmarski (Texas A&M)	Population ecology of spinner dolphins in Far-Western Hawai'i	Kure						pending
3			6/9/06	Russell Brainard	Marine Debris Removal							pending
4			6/9/06	Hans Van Tilburg	Survey of shipwrecks							pending
5			6/9/06	Cynthia Johnson	Expanding awareness about NWHI							pending