

Scientists' Statement on the Protection of the Northwestern Hawaiian Islands

During the Tenth Annual International Coral Reef Symposium held from June 28 to July 2, 2004 by the International Society for Reef Studies (ISRS) in Okinawa, Japan, 442 scientists from 68 countries signed a statement calling for immediate and stringent protection measures for the Northwestern Hawaiian Islands.

Citing the uniqueness of the NWHI as one of the planet's last remaining large-scale relatively intact coral reef ecosystems, scientists called for international, federal, and state agencies to take all actions necessary to protect the ecological integrity and natural character of the NWHI -- including the enforcement and strengthening of existing conservation measures, a precautionary approach to decision-making, and the proactive prevention of extractive activities such as the harvest of deep sea corals, reef fish, and lobster that could result in human-induced change.

Compiled by Stephanie Fried, Ph.D., Environmental Defense
P.O. Box 520, Waimanalo, Hawai'i 96795
Stephanie_fried@environmentaldefense.org

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Overview: Scientists' Statement on the Protection of the Northwestern Hawaiian Islands

July, 2004

During the Tenth Annual International Coral Reef Symposium (June 28 – July 2, 2004) held in Okinawa, Japan by the International Society for Reef Studies (ISRS), 442 scientists from 68 countries signed a statement calling for immediate and stringent protection measures for the Northwestern Hawaiian Islands. Citing the uniqueness of the NWHI as one of the planet's last remaining large-scale relatively intact coral reef ecosystems, scientists called for international, federal, and state agencies to take all actions necessary to protect the ecological integrity and natural character of the NWHI -- including the enforcement and strengthening of existing conservation measures, a precautionary approach to decision-making, and the proactive prevention of extractive activities such as the harvest of deep sea corals, reef fish, and lobster that could result in human-induced change.

Among supporters of strong NWHI protections are some of the worlds' most prominent coral reef scientists, fisheries experts, marine biologists and resource managers, including:

- Four Darwin Medal award winners including the 2004 awardee, Charlie Veron (Australian Institute of Marine Science), and earlier awardees Ian MacIntyre (Smithsonian Institution), Yossi Loya (Tel-Aviv University), and Peter Glynn (University of Miami). The Darwin Medal is the most prestigious award given by the International Society for Reef Studies (ISRS) and is presented every four years at the International Coral Reef Symposium to scientists who are recognized worldwide for their major contributions.
- Current President of the International Society for Reef Studies, Nicholas Polunin, and past Presidents of ISRS.
- Coordinator of the Global Coral Reef Monitoring Network, Editor of the Status of Coral Reefs of the World reports, Clive Wilkinson (AIMS).
- Scientists from over 250 institutions¹:
 - **Museums:** American Museum of Natural History, Australian Museum, Bishop Museum, National Museum of Natural History (France), Museu Nacional (Brazil), Naturalis (Netherlands);

¹ Please note that institutional affiliations are for identification purposes only and do not imply endorsement by the signer's institution.

- **Research institutes and universities:** among others, Scripps Institute of Oceanography, Harvard University, Academia Sinica, AIMS, ANU, Bar Illan University, Ben-Gurion University, Bermuda Biological Station, Brown University, Chinese University of Hong Kong, Duke University, Perpignan University, Columbia University, Hai Phong Institute of Oceanography, Harvey Mudd College, Hawaii Institute of Marine Biology, Hebrew University, Hong Kong University, Russian Institute of Marine Biology, Cuba Institute of Oceanology, Colombian Institute of Marine and Coastal Research, DOE Joint Genome Institute, IRD, Israel National Institute of Oceanography, James Cook University, Japan Marine Science and Technology Center, Japan National Institute of Environmental Studies, Kings College, Korean Ocean Research and Development Institute, Kyoto University, National Taiwan University, National University of Singapore, Netherlands Institute for Sea Research, Nova Southeastern University, Oceanic Institute, Oxford University, Prince of Songkla University, Ramkhanhaeng University, Stanford University, Tel-Aviv University, Tokyo Institute of Technology, U.C. Berkeley, Santa Barbara, Davis, Santa Cruz, Universities of Amsterdam, Asmara, Canterbury, Chicago, Connecticut, Costa Rica, Essen, Exeter, Florida, Georgia, Guam, Hawaii, Houston, Liepzig, Miami, Milano, New Caledonia, New South Wales, Nymegen, Padua, Papua New Guinea, Pennsylvania, Philippines, Puerto Rico, Queensland, Reunion, Ruhuna, Ryukyus, South Florida, South Pacific, Virgin Islands, Washington, Western Australia, Wollongong, Simon Bolivar, etc.;
- **Government agencies:** city, state/province, and national fisheries departments/ministries, wildlife departments, environmental departments/ministries, national marine parks -- American Samoa, Australia, Cambodia, CNMI, Guam, Indonesia, Japan, Myanmar, Palau, Samoa, Senegal, USA, etc.
- **International, multilateral, bilateral organizations:** UNEP, ASEAN Center for Biodiversity, USAID, Germany's DED, ICRAN, ICRI, UNESCO, SPREP, ICLARM/World Fish Center, the World Bank, IUCN;
- **Non-governmental organizations:** Conservation International, Reef Check, The Nature Conservancy, Wildlife Conservation Society, WWF (U.S.A, Singapore, Philippines, Belize, Solomon Islands, Indonesia), Environmental Defense, Center for Biological Diversity, Corail Vivant (New Caledonia), Coral Vivo (Brazil), Point Zero (New Caledonia), Ocean Futures (France, USA), Earth Restoration Trust (Philippines), Reefcare International (Australia), Teng Hoi Conservation Organization (Hong Kong), Terangi (Indonesia), Wetlands International (Fiji), etc.)

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July, 2004**

The Northwestern Hawaiian Islands (NWHI) are a global legacy that require immediate and stringent protection. Recognized worldwide as a biodiversity hotspot, the vast, remote, and vulnerable NWHI archipelago and surrounding

marine waters span 84 million acres (340,000 km²). One of the planet's last remaining large-scale relatively intact coral reef ecosystems, of great cultural significance to Native Hawaiians, and remarkable for fish communities dominated by large predators, the NWHI include the world's northernmost atolls and host some of the healthiest and most extensive coral reefs on earth.

We, the undersigned scientists, call on all appropriate international, federal, and state agencies to take all actions necessary (including the enforcement of existing conservation measures) to protect the ecological integrity and natural character of the NWHI and prevent human-induced change there.

We strongly concur on the importance of the preservation of the NWHI archipelago as a unique natural legacy for future generations that can serve as an invaluable ecological baseline against which to measure the state of coral reefs and atolls around the world. Such baselines provide essential points of reference for how relatively undisturbed ecosystems are structured and how they function, which help scientists and managers evaluate change and set appropriate goals for conservation and management. Reef ecosystems around the world continue to be degraded by overfishing, coastal development, coral bleaching, pollution, nutrient loading and eutrophication, physical habitat destruction, disease outbreaks, invasive species, and climate change. Because the NWHI are one of the world's last representatives of a large, isolated, and relatively intact coral reef archipelago, it is vitally important that they be protected from human impacts to the greatest extent possible.

In 2000, the first of several modern interagency scientific expeditions involving 50 scientists and over 1,000 dives found that the NWHI were "much more pristine and diverse than anticipated."³ Approximately one quarter of the estimated 7,000 marine species found in the NWHI are unique to the Hawaiian Island chain. Over 50% of the fish observed in the NWHI (numerical abundance) are found nowhere else on earth. History shows us how fragile this ecosystem is in the legacy of species that have been inadvertently decimated by human activities. Scientists found NWHI fish biomass to be nearly three times greater than that of the heavily populated and heavily fished Main Hawaiian Islands. In the NWHI, researchers found a unique large-scale ecosystem dominated by sharks and other large predators (over 50% of fish biomass.) In contrast, in the Main Hawaiian Islands (MHI), apex predators represent 3% of the biomass, reflecting their near-elimination.

The NWHI, however, have not been entirely protected by their isolation. Spiny lobsters and the Hawaiian monk seal in particular, have suffered severe reductions in populations, and a decline in the mean weight of the 'ula'ula koa'e (onaga or red snapper) has been recorded. Nonetheless, much of the NWHI exhibit attributes of a relatively healthy coral reef ecosystem.

The NWHI are the primary breeding and foraging grounds for the critically endangered Hawaiian monk seal, Hawaiian populations of the threatened green sea turtle, almost the entire world populations of Laysan albatross, the black-footed albatross, the Laysan duck, and numerous other threatened and endangered species. These islands and atolls form the largest tropical seabird rookery under U.S. jurisdiction.

We urge responsible agencies with jurisdictions or interests in the Northwestern Hawaiian Islands to implement all necessary actions to ensure that existing conservation measures further strengthened and fully enforced, rather than weakened. Decision-making must be based on a precautionary approach with resource protection favored when there is a lack of information. Effective conservation measures for the NWHI include creating and adequately managing a fully protected marine reserve system, addressing marine debris problems, restricting tourism, and proactively preventing extractive and other activities – including the harvest of deep sea corals, reef fish, or lobster -- that could result in anthropogenic change.

We, the undersigned, endorse the

Scientists' Statement on the Protection of the Northwestern Hawaiian Islands.

*Please note: Affiliations are for identification purposes only
and do not imply endorsement by the signer's institution.*

1 Rolf P.M.	Bak	Netherlands Institute for Sea Research - NIOZ	Netherlands
2 Barbara	Best	New Mexico State University	USA
3 Charles	Birkeland	University of Hawaii	USA
4 John	Chappell	Australian National University	Australia
5 Jorge	Cortes	University of Costa Rica	Costa Rica
6 Jean Michel	Cousteau	Ocean Futures	
7 Arthur	Dahl	United Nations Environment Programme	Switzerland

² Existing conservation measures include the Hawaiian Islands National Wildlife Refuge protections established by Theodore Roosevelt (Executive Order) in 1909 and the NWHI Coral Reef Ecosystem Reserve, established by Executive Order in 2000, providing significant conservation measures and clear recognition of Native Hawaiian cultural and subsistence rights.

³ See J. Maragos and D. Gulko (Eds), Coral Reef Ecosystems of the Northwestern Hawaiian Islands: Interim Results Emphasizing the 2000 Surveys. U.S. Fish and Wildlife Service and the Hawai'i Department of Land and Natural Resources, Honolulu, 2002, p.4.

8 Terry	Done	Australian Institute of Marine Science	Australia
9 Leanne	Fernandes	Great Barrier Reef Marine Park Authority	Australia
10 Alan	Friedlander	Oceanic Institute	USA
11 Mike	Gawel	Guam EPA	Guam
12 Peter	Glynn	University of Miami	USA
13 E.D.	Gomez	University of Philippines, Marine Science Institute	Philippines
14 Marea	Hatzios	World Bank	USA
15 Gregor	Hodgson	ReefCheck	USA
16 Harold	Hudson	NOAA: Fla. Keys Natl. Marine Sanctuary	USA
17 Cynthia	Hunter	University of Hawaii	USA
18 Jeremy	Jackson	University of California, San Diego	USA
19 Paul	Jokiel	University of Hawaii	USA
20 Ruth	Kelty	NOAA	USA
21 Jean	Kenyon	University of Hawaii	USA
22 Nancy	Knowlton	Scripps Institute of Oceanography	USA
23 Alan	Kohn	University of Washington	USA
24 Jeffrey	Leis	Australian Museum	Australia
25 Jo-Ann	Leong	Hawaii Institute of Marine Biology	USA
26 Harilaos	Lessios	Smithsonian Institution	Panama
27 Kem	Lowry	University of Hawaii	USA
28 Yossi	Loya	Tel-Aviv University	Israel
29 Ian	Macintyre	Smithsonian Institution	USA
30 James	Maragos	U.S. Fish and Wildlife Service	USA
31 Tim	McClanahan	Wildlife Conservation Society	Kenya
32 John	McManus	NCORE/U. Miami	USA
33 John	Naughton	NOAA Fisheries	USA
34 John	Ogden	University of South Florida	USA
35 Jamie	Oliver	World Fish Center	Malaysia
36 Steve	Palumbi	Stanford University	USA
37 Michel	Pichon	EPHE, University of Perpignan	France
38 Nicholas	Polunin	Newcastle University	UK
39 James W.	Porter	University of Georgia	USA
40 Robert	Richmond	University of Hawaii	USA
41 Peter	Sale	University of Windsor	Canada
42 Bernard	Salvat	EPHE, University of Perpignan	France
43 Helmut	Schuhmacher	University of Essen	Germany
44 Kathleen Sullivan	Sealey	University of Miami	USA
45 Randy	Thaman	University of the South Pacific	Fiji
46 Charlie	Veron	Australian Institute of Marine Science	Australia
47 Steve	Vollmer	Harvard University	USA
48 Alan	White	CRMP/USAID	Philippines
49 Clive	Wilkinson	Australian Institute of Marine Science	Australia
50 Leon	Zann	University of the South Pacific	Fiji
51 Al Sofyani	Abdul		Saudi Arabia
52 Avigdor	Abelson	Tel Aviv University	Israel
53 Ma Carmen	Ablan	World Fish Center	Malaysia
54 Minako	Akumoto		Japan
55 Issam	AlBoosi	Environment	Oman
56 Pedro	Alcolado	Institute of Oceanology	Cuba
57 Porfirio	Alino	University of the Philippines, Marine Science Institute	Philippines
58 Nasse	Alshaiba	ERWDA	UAE

59 Lioudmila	Ametistova	Sydney University	Australia
60 Mark	Andrews	Kings College	UK
61 Rick	Anex	Point Zero	New Caledonia
62 Simon	Ann?	OSU	USA
63 Ken	Anthony?	James Cook University	Australia
64 Jonathan	Anticamara	UBC	Philippines
65 Amy	Aprill	University of Hawaii	USA
66 Jonathaniel	Apurado	University of the Ryukyus	Philippines
67 Chihiro	Arasaki	University of the Ryukyus	Japan
68 Hazel	Arceo	University of the Philippines, Marine Science Institute	Philippines
69 M.	Ateweberhan	University of Asmara	Eritrea
70 Scott	Atkinson	CCN	USA
71 Peter	Auster	University of Connecticut	USA
72 Amy	Baco-Taylor	WHOI	USA
73 Andrew	Baker	Wildlife Conservation Society	USA
74 Paul	Barber	Boston University	USA
75 Dan	Barshis	University of Hawaii	USA
76 Carolina	Bastidas	University Simon Bolivar	Venezuela
77 Andrew	Bauman	UN	Palau
78 Maria	Beger	University of Queensland	Australia
79 David	Bellwood	James Cook University	Australia
80 Jonathan	Belmaker	Ben-Gurion University	Israel
81 Francesca	Benzoni	University of Milano-Bicocca	Italy
82 G.	Beretta	UTS	Australia
83 Samatha	Birch	OEDSI	Portugal
84 Megan	Black	San Diego State University	USA
85 David	Blakeway	Department of Fisheries	Australia
86 Paul	Blanchon	UNAM	Mexico
87 Robert	Bolland	University of Maryland	USA
88 Victor	Bonito	Blue Ventures	Madagascar
89 David	Booth	UTS	Australia
90 Chloe	Bourmaud	University of Reunion	France
91 Brian	Bowen	Hawaii Institute of Marine Biology	USA
92 Jon	Brodie	James Cook University	Australia
93 Eric	Brown	Hawaii Institute of Marine Biology	USA
94 Andy	Bruckner	NOAA	USA
95 Daniel	Brumbaugh	American Museum of Natural History	USA
96 Phongtheera	Buapet	Chulalongkorn University	Thailand
97 Karin	Buchler	James Cook University	Australia
98 Asap	Bukurrou	PCS	Palau
99 David	Burdick	University of Guam	Guam
100 Sam	Burgess	Australian National University	Australia
101 Scott	Burgess		Australia
102 Karla	Caceres	AFE-COHDEFOR	Honduras
103 Luis	Calderon	CICESE	Mexico
104 Neal	Cantin	Australian Institute of Marine Science	Australia
105 Dave	Carlson	University of Hawaii	USA
106 Clovis	Castro	Museu Nacional	Brazil
107 Francesca	Castro	CNMI DEQ	CNMI
108 Herman	Cesar	CEEC	Netherlands
109 Richard	Chang	Florida International University	USA

110	Loic	Charpy	IRD	France
111	L.M	Chou	National University of Singapore	Singapore
112	Rodolfo	Claro	Institute of Oceanology	Cuba
113	Daniel	Cleary	University of Amsterdam	Netherlands
114	Choya	Cloi	The Chinese University of Hong Kong	Hong Kong
115	S.L.	Cole	Bishop Museum	USA
116	Paul	Copper	Laurentian University	Canada
117	Emily	Corcoran	ICRI Sec/UNEP-WCMC	UK
118	A.	Cornish	The University of Hong Kong	Hong Kong
119	Jesse	Cruz	Guam EPA	Guam
120	Allen	Curran	Smith College	USA
121	Nicolle	Cushion	Nova Southeastern University	USA
122	Simon	Davy	VUW	New Zealand
123	Mike	Dawson	University of New South Wales	Australia
124	Rodrigo	De Moura	Conservational International	Brazil
125	Nicole	de Voogd	Naturalis	Netherlands
126	Kelly	Deitz	Cornell University	USA
127	Margo	Deiye	NFMRA	Nauru
128	Rommi	Dizon	University of Philippines	Philippines
129	Peter	Doherty	Australian Institute of Marine Science	Australia
130	Simon	Donner		Canada
131	Maria	Dornelas	James Cook University	Australia
132	Nigel	Downing	Aldabia Marine Programme	UK
133	Jeremy	Downs		Australia
134	Sak	Dullah	Ministry of Environment	Indonesia
135	Guilherme	Dutra	Conservational International	Brazil
136	June	Eaken	Alumni, Fla. Atlantic University	USA
137	Peter	Edwards	UWI	Jamaica
138	Alastaire	Edwards	University of Newcastle	UK
139	Ada	Elodni	KSG	Palau
140	Udo	Engelhardt	Reefcare International	Australia
141	Mark	Erdman	University of California, Berkeley The Chinese University of Hong Kong, Marine Sci. Lab.	USA Hong Kong
142	Sokayi	Erica		Hong Kong
143	Mohamed	Fairoz	University of Ruhuna	Sri Lanka
144	Joshua	Feingold	Nova Southeastern University	USA
145	Douglas	Fenna	Dept. Marine & Wildlife	American Samoa
146	Mike	Field	USGS	USA
147	Maoz	Fine	University of Queensland	Australia
148	Rachel	Finley	University of Rhode Island	USA
149	June	Firing	University of Hawaii	USA
150	Rebecca	Fisher	NMFS	USA
151	Daisy	Florews	Earth Restoration Trust	Philippines
152	Jean-Francois	Flot	National Museum of Natural History	France
153	Adrian	Flynn	Enesar Consulting	Australia
154	Nicola	Foster	University of Exeter	UK
155	Helen	Fox	Hawaii Institute of Marine Biology	USA
156	Patrick	Frouin	University of Reunion	France
157	Yoshimi	Fujioka	Kasetsart University	Thailand
158	Suichi	Fujiwara	Metocean Environment	Japan
159	Peter	Galvin		USA
160	Jaime	Garzon	INVMAR Institute of Marine and Coastal Research	Colombia

161 Jonathan	Geller	Moss Landing Marine Labs	USA
162 Rieko	Genka	Yamagata University	Japan
163 Mike	Gilbeaux	University of Hawaii	USA
164 James	Gilmar	UNA	Australia
165 Alison	Glass	ICRAN	UK
166 Beverly	Goh	National University of Singapore	Singapore
167 James	Goodman	University of California,. Davis	USA
168 Jamison	Gove	University of Hawaii	USA
169 Nicole	Gravier-Bonnet	University of Reunion	France
170 Alison	Green	The Nature Conservancy	Australia
171 Sean	Griffin	University of Puerto Rico	Puerto Rico
172 Rikki	Grober-Dunsmore	USGS	USA
173 Andrea	Grotoli	University of Pennsylvania	USA
174 Tim	Grubba	CALM	Australia
175 A	Grutter	University of Queensland	Australia
176 James	Guest	National University of Singapore	Singapore
177 Simon	Harding	WCS Marine	Madagascar
178 Hiroki	Hata	Kyoto University	Japan
179 Pascal	Hebert	Corail Vivant	New Caledonia
180 Mark	Heckman	Waikiki Aquarium	USA
181 Georg	Heiss	Reef Check Europe	Egypt
182 Monty	Hempel	University of Redlands	USA
183 Mamiko	Hirose	University of the Ryukyus	Japan
184 Yoshiyuki	Hisatsune	Tohaku University	Japan
185 Bert	Hoeksema	Naturalis	Netherlands
186 Lea	Hollingsworth	Hawaii Institute of Marine Biology	USA
187 Katherine	Holmes	American Museum of Natural History	USA
188 Sharon	Hong	Ins. Of Oceanography	Taiwan
189 Chuki	Hongo		Japan
190 Peter	Houk	CNMI DEQ	CNMI
191 Christine	Huffard	University of California, Berkeley	USA
192 Terry	Hughes	James Cook University	Australia
193 Alec	Hughes	WWF SI	Solomon Islands
194 Rosene	Iglesius	UNAM	Mexico
195 Carlos	illegible, check	IEAPM	Brazil
196 Keiji	Ito	Okinawa Environmental Analysis Center	Japan
197 Lisa	Iwahara	University of Houston	USA
198 Severine	Jacquet	IRD	New Caledonia
199 Aaron	Jenkins	Wetlands International	Fiji
200 R.	Jeyabaskaran	NID	India
201 Juan	Jiminez	University of Houston	USA
202 Ayame	Jonahara	University of the Ryukyus	Japan
203 Matthieu	Juncker	University of New Caledonia	France
204 Kenji	Kajiwara	City Office of Hirara	Japan
205 H.W.	Kalumbo	Tanga Programme	Tanzania
206 Akahiro	Kamamitsu		Japan
207 Carrie	Kappel	Stanford University	USA
208 Pothin	Karine	ECONAR	France
209 Ailsa	Kerswell	James Cook University	Australia
210 Shashank	Keshavmuothy	Kochi University	Japan
211 Midori	Kimura	University of the Ryukyus	Japan

212 Sean	Kinane	University of South Florida	USA
213 Selma	Klanten	James Cook University	Australia
215 David	Kline	Scripps Institute of Oceanography	USA
216 K.	Konishi	Kanazawa University	Japan
217 Nicolai	Konow	James Cook University	Australia
218 J.	Kool	University of Miami	USA
219 Matthew	Kosnik	University of Chicago	USA
220 Kris	Kotter		Germany
221 David	Krupp	Hawaii Institute of Marine Biology, Windward Community College	USA
222 Jason	Kuartei	Palau International Coral Reef Ctr	Palau
223 Ilsa	Kuffner	USGS	USA
224 Kai	Kuhlmann	DED (German Development Service), PPDD	Philippines
225 Tiit	Kutser	MSI	Estonia
226 Todd	Lajeunesse		USA
227 Judith	Lang		USA
228 Chris	Langdon	Columbia University	USA
229 Howard	Lasker	University Buffalo	USA
230 Angela	Lawton	University of Queensland	Australia
231 Micaela	Ledesma	WWF	Philippines
232 Larry	Liddle	Long Island University	USA
233 Sven	Lin	The Chinese University of Hong Kong	Hong Kong
234 Ho-E	Lin	Academia Sinica	Taiwan
235 Ken	Lindeman	Environmental Defense	USA
236 Dulcie	Linton	Center for Marine Sciences, UWI	Jamaica
237 Ghislaine	Llewellyn	WWF	Singapore
238 TL	Loh	National Institute of Education, Nanyang University University of Miami, Rosenstiel Sch. of Marine & Atmosph. Sci	Singapore USA
239 Michelle	Lupei		USA
240 Lewis?	Mae?	College of Marshall Islands	Marshall Islands
241 Cornelia	Maier	Netherlands Institute for Sea Research - NIOZ	Netherlands
242 Yoshikatu	Makashi		Japan
243 Machel	Malay	University of Florida	USA/Philippines
244 Samuel	Mamauag	University of Philippines	Philippines
245 Stanley	Maniwaueie	University of PNG	PNG
246 Carolyn	Margolin	University of Miami, Rosenstiel Sch. of Marine & Atmosph. Sci	USA
247 Kristen	Marhaver	Scripps Institute of Oceanography	USA
248 Chris	Marquis	University of New South Wales	Australia
249 Laura	Martin	Coral Reef Research Foundation	USA
250 Ben	Mason	UNCW	USA
251 Jaruan	Mayakun	PSU	Thailand
252 Charles	Mazel	Physical Sciences Inc.	USA
253 John	McCarroll	US EPA	USA
254 Catherine	McFadden	Harvey Mudd College	USA
255 Melanie	Mcfield	WWF	Belize
256 Duncan	McIntosh	American Samoa CRI	American Samoa
257 Sheila	McKenna	Conservational International	USA
258 Roger	McLean	University of New South Wales	Australia
259 Chad	McNutt	University of Houston	USA
260 Sarah	McTee	University of Hawaii	USA
261 Anna	Meneses	COE Foundation	Philippines

262 Fiorenza	Micheli	Stanford University	USA
263 Jos	Mieog	RUG/AIMS	Netherlands
264 Karen	Miller	University of Tasmania	Australia
265 Pamela	Miller	University of South Florida	USA
266 Rebecca	Mitchell	Newcastle University	UK
266 Takehiro	Mitsugachi	Natl. Inst. Environ. Studies	Japan
267 Ryoko	Miyagi	RIS	Japan
267 Paolo	Montana	University of Padua	Italy
268 Abigail	Moore	YACL	Indonesia
269 Camilo	Mora	University of Windsor	Canada
270 Mike	Morgan	Berry College	USA
271 Helen	Morse	University of California, Santa Barbara	USA
271 Kenichi	Moyama		Japan
272 Annette	Muhlig-Hofmann	USP	Fiji
272 Win	Naing	Forest Department	Myanmar
273 Yumiko	Nakamura		Japan
273 Samliok	Ndobe	Tadulako University	Indonesia
274 Donna	Nemeth	UVI	USA
275 Candae	Newman	Univerisity of Waterloo	Canada
276 Moritaka	Nishimira	Meio University	Japan
277 Osami	Nomura, Dr. Eng		Japan
278 Masanori	Nonaka	Okinawa Chumumi Aquarium	Japan
279 Marco	Noordeloos	World Fish Center	Malaysia
280 Paulwatt	Nuclear	Rajamangala Institute	Thailand
281 Maggy	Nugues	Netherlands Institute for Sea Research - NIOZ	Netherlands
282 Domingo	Ochavillo	Reef Check	USA/Philippines
283 lees	Odawara	Tohaku University	Japan
284 Michiko	Oiimi?	University of the Ryukyus	Japan
285 Ken	Okaji	Coral Quest, Inc.	Japan
286 Risa	Oram	ASCrag/ASDMWR	American Samoa
287 Kate	Osborne	Australian Institute of Marine Science	Australia
288 M.	Paddack	U Miami	USA
289 Seong Hwan	Pae	Korean Ocean R & D Institute	Korea
290 Cathie	Page	James Cook University	Australia
291 Mavivic	Pajaro	Fisheries Center	Canada
292 James	Palardy	Brown University	USA
293 Imelda	Pangga	ASEAN Center for Biodiversity	Philippines
294 Olga	Pantos	San Diego State University	USA
295 Christy	Pattengilt Semmmens	REEF	USA
296 Gustav	Paulay	University of Florida	USA
297 Rolph	Payet	CMRT	Seychelles
298 Shimrit	Perkol-Finkel	Tel-Aviv University	Israel
299	Persada.A.S	NP Kep 1000	Indonesia
300 Erick	Peterson	University of Queensland	Australia
301 Nasana	Phantewge	Ramkhanhaeng University, Dept. of Biology	Thailand
302 Miriam	Philip	SPREP	Samoa
303 Anurak	Pisapak	Ramkhanhaeng University, Dept. of Biology	Thailand
304 Joanna	Pitt	Eda. Biol. Station	Bermuda
305 Serge	Planes	CNRS/University of Perpignan	France
306 Brent	Plater	Center for Biological Diversity	USA
307 Sakanan	Plathong	Prince of Songkla University, Dept of Biology	Thailand

308 Emily	Platzer		USA
309 Terney	Pradeep	University of Ruhuna	Sri Lanka
310 Enrico	Praringit	Tokyo Institute of Technology	Japan
311 Anchana	Prathe	PSU	Thailand
312 William	Precht	PBS&J	USA
313 Linda	Preskitt	University of Hawaii	USA
314 John	Pringle	University of North Carolina	USA
315 Marji	Puotinen	University of Wollongong	Australia
316 Sam	Purkis	NCRI	USA/Netherlands
317 Ang	Put Jr.	Chinese University of Hong Kong	Hong Kong
318 Sapta	Putra	Ministry of Marine Affairs	Indonesia
319 Nguyen Van	Quam	Hai Phong Institute of Oceanography	Vietnam
320 Miledel	Quibilan	University of the Philippines, Marine Science Institute	Philippines
321 Ben	Radford	University of Western Australia	Australia
322 Arjan	Rajasurya	NARA	Sri Lanka
323 Laurie	Raymundo	University of Guam Marine Lab	Guam
324 Tries	Razak	Terangi	Indonesia
325 Bernard	Reigl	NCRI	USA
326 James Davis	Reiner	Japan Marine Science and Technology Center	Japan
327 Hamid	Rezaei	Saferge Consulting Engineers	Kuwait
328 Alma	Ridep-Morris	Bureau of Marine Resources	Palau
329 C.	Ringor	Kanazawa University	Japan
330 Buki	Rinkevich	National Institute of Oceanography	Israel
331 Raphael	Ritson-Williams	Smithsonian Marine Station	USA
332 Maria	Rodrigues	ICU	Mozambique
333 Lisa	Rodrigues	University of Pennsylvania	USA
334 Chris	Roelfsema	Centre for Marine Studies	Australia
335 Forest	Rohwer	San Diego State University	USA
336 Sandra	Romano	University of Virgin Islands	USVI
337 Michael	Rosenfeld	Tel Aviv University	Israel
338 Hank	Rosenthal	Bermuda Biological Station	Bermuda
339 Andrew	Rothwell		USA
340 Toby	Roxburgh	Jacobs	UK
341 Maricel	Rubia	Tokyo Institute of Technology	Japan
342 Ben	Ruttenberg	University of California, Santa Barbara	USA
343 Marlowe	Sabater	WWF	Philippines
344 Yvonne	Sadovy	Hong Kong University	Hong Kong
345 Kennichi	Sagae	Tohaku University	Japan
346 Paul	Sammarco	LUMCON	USA
347 Melita	Samoilys	IUCN	Kenya
348 Joyce	Samuelu	Fisheries	Samoa
349 N.	Santodomingo	INVEMAR Institute of Marine and Coastal Research	Colombia
350 Scott	Santos	Auburn University	USA
351 Michael	Schleyer	ORI	South Africa
352 Kenny	Schneider	Hebrew University	Israel
353 Christine	Schonberg	University of Queensland, Centre for Marine Studies	Australia
354 Qamar	Schuyler	CNMI Coastal Resource Management Office	USA
355 Jodi	Schwarz	DOE Joint Genome Institute	USA
356 Renee	Seaman		USA
357 Ken	Sebens	University of Mass.	USA
358 Barbara	Segal	Coral Vivo	Brazil

359K	Semon	U Miami	USA
360 Noa	Shenkar	Tel-Aviv University	Israel
361 Kristin	Sherwood	IUCN	USA
362 Jeff	Shini	Victoria University	New Zealand
363 Aya	Shinohara	Nova Southeastern University	USA
364 Daria	Siciliano	USSC	USA
365 Marc	Slattery	University of Mississippi	USA
366 Jai	Sleeman	CDU	Australia
367 Lance	Smith	University of Hawaii	USA
368 Jack	Sobel	The Ocean Conservancy	USA
369 Nipat	Somkleeb	Ramkhanhaeng University, Dept. of Biology	Thailand
370 Yi	Soon-Kil	Korean Ocean R & D Institute	Korea
371 Kim	Sour	DoF	Cambodia
372 Robin	South		Australia
373 Jill	St. John	Department of Fisheries	Australia
374 Noga	Stambler	Bar Illan University	Israel
375 Craig	Starger	Columbia University	USA
376 Michael	Stat	Sy+D8+D94dney University	Australia
377 Craig	Steinberg	Australian Institute of Marine Science	Australia
378 Curt	Storlazzi	University of California, Santa Cruz	USA
379 Kaoru	Sugihara	Fukuoka University	Japan
380 Kathryn	Sutherland	University of Georgia	USA
381 Hugh	Sweatman	Australian Institute of Marine Science	Australia
382 Dorothee	Taddei	University of Reunion	France
383 Yoshihiro	Takahashi		Japan
384 Satoh	Takanori	Tokyo Metropolitan University	Japan
385 Reiko	Tamai	University of the Ryukyus	Japan
386 Jerker	Tamelander	IUCN	Finland
387 Hitoshi	Tamura	Tokyo Institute of Technology	Japan
388 J.B.	Tanangonan	Kinki University	Japan
389 Zakaria	Tayib	Marine Park of Malaysia	Malaysia
390 M.	Taylor	Reefdoctor.org	UK
391 Melaku	Tesfaye		Ethiopia
392 Keiichiro	Teshima	Fluxus Company	Japan
393 Andrew	Thompson	Natural History Museum of L.A. County	USA
394 Jani	Thuaibam	National University of Singapore	Singapore
395 Stacey	Tighe	Coastal Zone Management Project	Indonesia
396 Edward	Titlyanov	Institute of Marine Biology	Russia
397 Tamara	Titlyanov	Institute of Marine Biology	Russia
398 Peter	Todd	Napier University	UK
399 Junko	Toyoshima	Okinawa Chumumi Aquarium	Japan
400 Eric	Treml	Duke University	USA
401 Aline	Tribollet	Columbia University	USA
402 Makuto	Tsuchiya	University of the Ryukyus	Japan
403 Takenobu	Tsushida		Japan
404 Karenne	Tun	World Fish Center	Malaysia
405 Mark	Tupper	University of Guam Marine Lab	Guam
406 Jane	Turnbull	University of Canterbury	New Zealand
407 Elizabeth	Tyler	Oxford University	UK
408 Kanako	Uchino	University of Hawaii	Japan
409 Clair	Ulag	CDU	Australia

410	Andre Jon	Uychiaoco	University of the Philippines, Marine Science Institute	Philippines
411	Selaina	Vaitautolu	ASDMWR	American Samoa
412	Gerard	van der Velde	University of Nymegen	Netherlands
413	Adam	Vecsei	University of Leipzig	Germany
414	D. K.	Venkataram	ZSI	India
415	Mark	Vermeis	NOAA/VM	USA
416	Ole	Vestergaard	IOC/UNESCO	France
417	Benjamin	Victo	U.S. Foundation	USA
418	Marjo	Vierros	SCBD	Canada
419	Nu-Wei	Vivian Wei	National Taiwan University, Institute of Oceanography	Taiwan
420	Collete	Wabnitz	SAUP/UBC	Canada
421	Stefan	Walker	James Cook University	Australia
422	Sheila	Walsh	Scripps Institute of Oceanography	USA
423	Selina	Ward	University of Queensland	Australia
424	Stephanie	Wear	TNC	USVI
425	J. Wilson	White	University of California, Santa Barbara	USA
426	Gary	Williams	Cal. Acad. Sc.	USA
427	Jackie	Wolstenholm	James Cook University	Australia
428	Joy	Wong Kinzie		USA
429	Elizabeth	Wood	MCS	UK
430	Cheryl	Woodley	NOAA	USA
431	George	Woodman	Teng Hoi Conservation Org.	Hong Kong
432	Yoko	Yamaguchi		Japan
433	Nari	Yamamoto	RIS	Japan
434	Ai	Yamamoto		Japan
435	Hideyuki	Yamashiro	Meio University	Japan
436	Naoko	Yasuda	University of the Ryukyus	Japan
437	Brooks	Yeager	WWF	USA
438	Thamasak	Yeemin	Ramkhanhaeng University	Thailand
439	Sonko	Youba	Direction de Parcs Nationaux	Senegal
440	Z.A.	Zekeria	University of Asmara	Eritrea
441	Sandy	Zicus	University of Queensland	Australia
442	Vassil	Zlatarski	Independent Consultant	Bulgaria

Appendix A: Reference list of 442 signers sorted by country/territory: Please note that institutional affiliations are for identification purposes only and do not imply endorsement by the signer's institution.

1	Duncan	McIntosh	American Samoa CRI	American Samoa
2	Risa	Oram	ASCrag/ASDMWR	American Samoa
3	Selaina	Vaitautolu	ASDMWR	American Samoa
4	Douglas	Fenna	Dept. Marine & Wildlife	American Samoa
5	Neal	Cantin	Australian Institute of Marine Science	Australia
6	Peter	Doherty	Australian Institute of Marine Science	Australia
7	Terry	Done	Australian Institute of Marine Science	Australia
8	Kate	Osborne	Australian Institute of Marine Science	Australia
9	Craig	Steinberg	Australian Institute of Marine Science	Australia
10	Hugh	Sweatman	Australian Institute of Marine Science	Australia
11	Charlie	Veron	Australian Institute of Marine Science	Australia
12	Clive	Wilkinson	Australian Institute of Marine Science	Australia
13	Jeffrey	Leis	Australian Museum	Australia
14	Sam	Burgess	Australian National University	Australia
15	John	Chappell	Australian National University	Australia
16	Tim	Grubba	CALM	Australia

17	Jai	Sleeman	CDU	Australia
18	Clair	Ulag	CDU	Australia
19	Chris	Roelfsema	Centre for Marine Studies	Australia
20	David	Blakeway	Department of Fisheries	Australia
21	Jill	St. John	Department of Fisheries	Australia
22	Adrian	Flynn	Enesar Consulting	Australia
23	Leanne	Fernandes	GBRMPA	Australia
24	Ken	Anthony?	James Cook University	Australia
25	David	Bellwood	James Cook University	Australia
26	Jon	Brodie	James Cook University	Australia
27	Karin	Buchler	James Cook University	Australia
28	Maria	Dornelas	James Cook University	Australia
29	Terry	Hughes	James Cook University	Australia
30	Ailsa	Kerswell	James Cook University	Australia
31	Selma	Klanten	James Cook University	Australia
32	Nicolai	Konow	James Cook University	Australia
33	Cathie	Page	James Cook University	Australia
34	Stefan	Walker	James Cook University	Australia
35	Jackie	Wolstenholm	James Cook University	Australia
36	Udo	Engelhardt	Reefcare International	Australia
37	Michael	Stat	Sydney University	Australia
38	Lioudmila	Ametistova	Sydney University	Australia
39	Alison	Green	The Nature Conservancy	Australia
40	James	Gilmar	UNA	Australia
41	Mike	Dawson	University of New South Wales	Australia
42	Chris	Marquis	University of New South Wales	Australia
43	Roger	McLean	University of New South Wales	Australia
44	Maria	Beger	University of Queensland	Australia
45	Maoz	Fine	University of Queensland	Australia
46	A	Grutter	University of Queensland	Australia
47	Angela	Lawton	University of Queensland	Australia
48	Erick	Peterson	University of Queensland	Australia
49	Selina	Ward	University of Queensland	Australia
50	Sandy	Zicus	University of Queensland	Australia
51	Christine	Schonberg	University of Queensland, Centre for Marine Studies	Australia
52	Karen	Miller	University of Tasmania	Australia
53	Ben	Radford	University of Western Australia	Australia
54	Marji	Puotinen	University of Wollongong	Australia
55	G.	Beretta	UTS	Australia
56	David	Booth	UTS	Australia
57	Scott	Burgess		Australia
58	Jeremy	Downs		Australia
59	Robin	South		Australia
60	Melanie	Mcfield	WWF	Belize
61	Hank	Rosenthal	Bermuda Biological Station	Bermuda
62	Joanna	Pitt	Eda. Biol. Station	Bermuda
63	Rodrigo	De Moura	Conservational International	Brazil
64	Guilherme	Dutra	Conservational International	Brazil
65	Barbara	Segal	Coral Vivo	Brazil
66	Carlos	illegible, check	IEAPM	Brazil
67	Clovis	Castro	Museu Nacional	Brazil

68	Vassil	Zlatarski	Independent Consultant	Bulgaria
69	Kim	Sour	DoF	Cambodia
70	Mavivic	Pajaro	Fisheries Center	Canada
71	Paul	Copper	Laurentian University	Canada
72	Collete	Wabnitz	SAUP/UBC	Canada
73	Marjo	Vierros	SCBD	Canada
74	Candae	Newman	University of Waterloo	Canada
75	Camilo	Mora	University of Windsor	Canada
76	Peter	Sale	University of Windsor	Canada
77	Simon	Donner		Canada
78	Francesca	Castro	CNMI DEQ	CNMI
79	Peter	Houk	CNMI DEQ	CNMI
80	Jaime	Garzon	INVEMAR Institute of Marine and Coastal Research	Colombia
81	N.	Santodomingo	INVEMAR Institute of Marine and Coastal Research	Colombia
82	Jorge	Cortes	University of Costa Rica	Costa Rica
83	Pedro	Alcolado	Institute of Oceanology	Cuba
84	Rodolfo	Claro	Institute of Oceanology	Cuba
85	Georg	Heiss	Reef Check Europe	Egypt
86	M.	Ateweberhan	University of Asmara	Eritrea
87	Z.A.	Zekeria	University of Asmara	Eritrea
88	Tiit	Kutser	MSI	Estonia
89	Melaku	Tesfaye		Ethiopia
90	Randy	Thaman	University of the South Pacific	Fiji
91	Leon	Zann	University of the South Pacific	Fiji
92	Annette	Muhlig-Hofmann	USP	Fiji
93	Aaron	Jenkins	Wetlands International	Fiji
94	Jerker	Tamelander	IUCN	Finland
95	Serge	Planes	CNRS/University of Perpignan	France
96	Pothin	Karine	ECONAR	France
97	Michel	Pichon	EPHE	France
98	Bernard	Salvat	EPHE	France
99	Ole	Vestergaard	IOC/UNESCO	France
100	Loic	Charpy	IRD	France
101	Jean-Francois	Flot	National Museum of Natural History	France
102	Matthieu	Juncker	University of New Caledonia	France
103	Chloe	Bourmaud	University of Reunion	France
104	Patrick	Frouin	University of Reunion	France
105	Nicole	Gravier-Bonnet	University of Reunion	France
106	Dorothee	Taddei	University of Reunion	France
107	Jean Michel	Cousteau	Ocean Futures	France/USA
108	Helmut	Schuhmacher	University of Essen	Germany
109	Adam	Vecsei	University of Leipzig	Germany
110	Kris	Kotter		Germany
111	Jesse	Cruz	Guam EPA	Guam
112	Mike	Gawel	Guam EPA	Guam
113	David	Burdick	University of Guam	Guam
114	Laurie	Raymundo	University of Guam Marine Lab	Guam
115	Mark	Tupper	University of Guam Marine Lab	Guam
116	Karla	Caceres	AFE-COHDEFOR	Honduras
117	Ang	Put Jr.	Chinese University of Hong Kong	Hong Kong
118	Yvonne	Sadovy	Hong Kong University	Hong Kong

119	George	Woodman	Teng Hoi Conservation Org.	Hong Kong
120	Choya	Cloi	The Chinese University of Hong Kong	Hong Kong
121	Sven	Lin	The Chinese University of Hong Kong	Hong Kong
122	Sokayi	Erica	The Chinese University of Hong Kong, Marine Sci. Lab.	Hong Kong
123	A.	Cornish	The University of Hong Kong	Hong Kong
124	R.	Jeyabaskaran	NID	India
125	D. K.	Venkataram	ZSI	India
126	Stacey	Tighe	Coastal Zone Management Project	Indonesia
127	Sak	Dullah	Ministry of Environment	Indonesia
128	Sapta	Putra	Ministry of Marine Affairs	Indonesia
129		Persada.A.S	NP Kep 1000	Indonesia
130	Samliok	Ndobe	Tadulako University	Indonesia
131	Tries	Razak	Terangi	Indonesia
132	Abigail	Moore	YACL	Indonesia
133	Noga	Stambler	Bar Illan Uiniversity	Israel
134	Jonathan	Belmaker	Ben-Gurion University	Israel
135	Kenny	Schneider	Hebrew University	Israel
136	Buki	Rinkevich	National Institute of Oceanography	Israel
137	Avigdor	Abelson	Tel Aviv University	Israel
138	Michael	Rosenfeld	Tel Aviv University	Israel
139	Yossi	Loya	Tel-Aviv University	Israel
140	Shimrit	Perkol-Finkel	Tel-Aviv University	Israel
141	Noa	Shenkar	Tel-Aviv University	Israel
142	Francesca	Benzoni	University of Milano-Bicocca	Italy
143	Paolo	Montana	University of Padua	Italy
144	Dulcie	Linton	Center for Marine Sciences, UWI	Jamaica
145	Peter	Edwards	UWI	Jamaica
146	Kenji	Kajiwara	City Office of Hirara	Japan
147	Ken	Okaji	Coral Quest, Inc.	Japan
148	Keiichiro	Teshima	Fluxus Company	Japan
149	Kaoru	Sugihara	Fukuoka University	Japan
150	James Davis	Reiner	Japan Marine Science and Technology Center	Japan
151	K.	Konishi	Kanazawa University	Japan
152	C.	Ringor	Kanazawa University	Japan
153	J.B.	Tanangonan	Kinki University	Japan
154	Shashank	Keshavmuothy	Kochi University	Japan
155	Hiroki	Hata	Kyoto University	Japan
156	Hideyuki	Yamashiro	Meio University	Japan
157	Moritaka	Nishimira	Meio University	Japan
158	Suichi	Fujiwara	Metocean Environment	Japan
159	Takehiro	Mitsugachi	Natl. Inst. Environ. Studies	Japan
160	Masanori	Nonaka	Okinawa Chumumi Aquarium	Japan
161	Junko	Toyoshima	Okinawa Chumumi Aquarium	Japan
162	Keiji	Ito	Okinawa Environmental Analysis Center	Japan
163	Ryoko	Miyagi	RIS	Japan
164	Nari	Yamamoto	RIS	Japan
165	Yoshiyuki	Hisatsune	Tohaku University	Japan
166	lees	Odawara	Tohaku University	Japan
167	Kennichi	Sagae	Tohaku University	Japan
168	Enrico	Praringit	Tokyo Institute of Technology	Japan
169	Maricel	Rubia	Tokyo Institute of Technology	Japan

170	Hitoshi	Tamura	Tokyo Institute of Technology	Japan
171	Satoh	Takanori	Tokyo Metropolitan University	Japan
172	Kanako	Uchino	University of Hawaii	Japan
173	Chihiro	Arasaki	University of the Ryukyus	Japan
174	Mamiko	Hirose	University of the Ryukyus	Japan
175	Ayame	Jonahara	University of the Ryukyus	Japan
176	Midori	Kimura	University of the Ryukyus	Japan
177	Michiko	Oiimi?	University of the Ryukyus	Japan
178	Reiko	Tamai	University of the Ryukyus	Japan
179	Makuto	Tsuchiya	University of the Ryukyus	Japan
180	Naoko	Yasuda	University of the Ryukyus	Japan
181	Rieko	Genka	Yamagata University	Japan
182	Minako	Akumoto		Japan
183	Chuki	Hongo		Japan
184	Akahiro	Kamamitsu		Japan
185	Yoshikatu	Makashi		Japan
186	Kenichi	Moyama		Japan
187	Yumiko	Nakamura		Japan
188	Osami	Nomura, Dr. Eng		Japan
189	Yoshihiro	Takahashi		Japan
190	Takenobu	Tsushida		Japan
191	Yoko	Yamaguchi		Japan
192	Ai	Yamamoto		Japan
193	Melita	Samoilys	IUCN	Kenya
194	Tim	McClanahan	Wildlife Conservation Society	Kenya
195	Seong Hwan	Pae	Korean Ocean R & D Institute	Korea
196	Yi	Soon-Kil	Korean Ocean R & D Institute	Korea
197	Hamid	Rezaei	Saferge Consulting Engineers	Kuwait
198	Victor	Bonito	Blue Ventures	Madagascar
199	Simon	Harding	WCS Marine	Madagascar
200	Zakaria	Tayib	Marine Park of Malaysia	Malaysia
201	Ma Carmen	Ablan	World Fish Center	Malaysia
202	Marco	Noordeloos	World Fish Center	Malaysia
203	Jamie	Oliver	World Fish Center	Malaysia
204	Karenne	Tun	World Fish Center	Malaysia
205	Lewis?	Mae?	College of Marshall Islands	Marshall Islands
206	Luis	Calderon	CICESE	Mexico
207	Paul	Blanchon	UNAM	Mexico
208	Rosene	Iglesius	UNAM	Mexico
209	Maria	Rodrigues	ICU	Mozambique
210	Win	Naing	Forest Department	Myanmar
211	Margo	Deiye	NFMRA	Nauru
212	Herman	Cesar	CEEC	Netherlands
213	Nicole	de Voogd	Naturalis	Netherlands
215	Bert	Hoeksema	Naturalis	Netherlands
216	Cornelia	Maier	Netherlands Institute for Sea Research - NIOZ	Netherlands
217	Rolf P.M.	Bak	Netherlands Institute for Sea Research - NIOZ	Netherlands
218	Maggy	Nugues	Netherlands Institute for Sea Research - NIOZ	Netherlands
219	Jos	Mieog	RUG/AIMS	Netherlands
220	Daniel	Cleary	University of Amsterdam	Netherlands
221	Gerard	van der Velde	University of Nymegen	Netherlands
222	Pascal	Hebert	Corail Vivant	New Caledonia

223	Severine	Jacquet	IRD	New Caledonia
224	Rick	Anex	Point Zero	New Caledonia
225	Jane	Turnbull	University of Canterbury	New Zealand
226	Jeff	Shini	Victoria University	New Zealand
227	Simon	Davy	VUW	New Zealand
228	Issam	AlBoosi	Environment	Oman
229	Alma	Ridep-Morris	Bureau of Marine Resources	Palau
230	Ada	Elodni	KSG	Palau
231	Jason	Kuartei	Palau International Coral Reef Ctr	Palau
232	Asap	Bukurrou	PCS	Palau
233	Andrew	Bauman	UN	Palau
234	Harilaos	Lessios	Smithsonian Institution	Panama
235	Imelda	Pangga	ASEAN Center for Biodiversity	Philippines
236	Anna	Meneses	COE Foundation	Philippines
237	Kai	Kuhlmann	DED (German Development Service), PPDD	Philippines
238	Daisy	Florews	Earth Restoration Trust	Philippines
239	Jonathan	Anticamara	UBC	Philippines
240	Rommi	Dizon	University of Philippines	Philippines
241	Samuel	Mamauag	University of Philippines	Philippines
242	Hazel	Arceo	University of the Philippines, Marine Science Institute	Philippines
243	E.D.	Gomez	University of the Philippines, Marine Science Institute	Philippines
244	Andre Jon	Uychiaoco	University of the Philippines, Marine Science Institute	Philippines
245	Porfirio	Alino	University of the Philippines, Marine Science Institute	Philippines
246	Miledel	Quibilan	University of the Philippines, Marine Science Institute	Philippines
247	Jonathaniel	Apurado	University of the Ryukyus	Philippines
248	Micaela	Ledesma	WWF	Philippines
249	Marlowe	Sabater	WWF	Philippines
250	Alan	White	CRMP/USAID	Philippines
251	Stanley	Maniwaui	University of PNG	PNG
252	Samatha	Birch	OEDSI	Portugal
253	Sean	Griffin	University of Puerto Rico	Puerto Rico
254	Edward	Titlyanov	Institute of Marine Biology	Russia
255	Tamara	Titlyanov	Institute of Marine Biology	Russia
256	Joyce	Samuelu	Fisheries	Samoa
257	Miriam	Philip	SPREP	Samoa
258	Al Sofyani	Abdul		Saudi Arabia
259	Sonko	Youba	Direction de Parcs Nationaux	Senegal
260	Rolph	Payet	CMRT	Seychelles
261	TL	Loh	National Institute of Education, Nanyang University	Singapore
262	L.M	Chou	National University of Singapore	Singapore
263	Beverly	Goh	National University of Singapore	Singapore
264	James	Guest	National University of Singapore	Singapore
265	Jani	Thuaibam	National University of Singapore	Singapore
266	Ghislaine	Llewellyn	WWF	Singapore
266	Alec	Hughes	WWF SI	Solomon Islands
267	Michael	Schleyer	ORI	South Africa
267	Arjan	Rajasurya	NARA	Sri Lanka

268	Mohamed	Fairoz	University of Ruhuna	Sri Lanka
269	Terney	Pradeep	University of Ruhuna	Sri Lanka
270	Arthur	Dahl	United Nations Environment Programme	Switzerland
271	Ho-E	Lin	Academia Sinica	Taiwan
271	Sharon	Hong	Ins. Of Oceanography National Taiwan University, Institute of Oceanography	Taiwan
272	Nu-Wei	Vivian Wei	Tanga Programme	Tanzania
272	H.W.	Kalumbo	Chulalongkorn University	Thailand
273	Phongtheera	Buapet	Kasetsart University	Thailand
273	Yoshimi	Fujioka	Prince of Songkla University, Dept of Biology	Thailand
274	Sakanan	Plathong	PSU	Thailand
275	Jaruwan	Mayakun	PSU	Thailand
276	Anchana	Prathe	Rajamangala Institute	Thailand
277	Paulwatt	Nuclear	Ramkhanhaeng University	Thailand
278	Thamasak	Yeemin	Ramkhanhaeng University, Dept. of Biology	Thailand
279	Nasana	Phantewge	Ramkhanhaeng University, Dept. of Biology	Thailand
280	Anurak	Pisapak	Ramkhanhaeng University, Dept. of Biology	Thailand
281	Nipat	Somkleeb	Ramkhanhaeng University, Dept. of Biology	Thailand
282	Nasse	Alshaiba	ERWDA	UAE
283	Nigel	Downing	Aldabia Marine Programme	UK
284	Alison	Glass	ICRAN	UK
285	Emily	Corcoran	ICRI Sec/UNEP-WCMC	UK
286	Toby	Roxburgh	Jacobs	UK
287	Mark	Andrews	Kings College	UK
288	Elizabeth	Wood	MCS	UK
289	Peter	Todd	Napier University	UK
290	Rebecca	Mitchell	Newcastle University	UK
291	Nicholas	Polunin	Newcastle University	UK
292	Elizabeth	Tyler	Oxford University	UK
293	M.	Taylor	Reefdoctor.org	UK
294	Nicola	Foster	University of Exeter	UK
295	Alastaire	Edwards	University of Newcastle	UK
296	June	Eaken	Alumni, Fla. Atlantic University	USA
297	Daniel	Brumbaugh	American Museum of Natural History	USA
298	Katherine	Holmes	American Museum of Natural History	USA
299	Scott	Santos	Auburn University	USA
300	Mike	Morgan	Berry College	USA
301	S.L.	Cole	Bishop Museum	USA
302	Paul	Barber	Boston University	USA
303	James	Palardy	Brown University	USA
304	Gary	Williams	Cal. Acad. Sc.	USA
305	Scott	Atkinson	CCN	USA
306	Brent	Plater	Center for Biological Diversity	USA
307	Qamar	Schuyler	CNMI Coastal Resource Management Office	USA
308	Chris	Langdon	Columbia University	USA
309	Craig	Starger	Columbia University	USA
310	Aline	Tribollet	Columbia University	USA
311	Sheila	McKenna	Conservational International	USA
312	Laura	Martin	Coral Reef Research Foundation	USA
313	Kelly	Deitz	Cornell University	USA
314	Jodi	Schwarz	DOE Joint Genome Institute	USA
315	Eric	Trembl	Duke University	USA

316 Ken	Lindeman	Environmental Defense	USA
317 Richard	Chang	Florida International University	USA
318 Steve	Vollmer	Harvard University	USA
319 Catherine	McFadden	Harvey Mudd College	USA
320 Brian	Bowen	Hawaii Institute of Marine Biology	USA
321 Eric	Brown	Hawaii Institute of Marine Biology	USA
322 Helen	Fox	Hawaii Institute of Marine Biology	USA
323 Lea	Hollingsworth	Hawaii Institute of Marine Biology	USA
324 Jo-Ann	Leong	Hawaii Institute of Marine Biology	USA
		Hawaii Institute of Marine Biology, Windward	
325 David	Krupp	Community College	USA
326 Kristin	Sherwood	IUCN	USA
327 Larry	Liddle	Long Island University	USA
328 Paul	Sammarco	LUMCON	USA
329 Jonathan	Geller	Moss Landing Marine Labs	USA
330 Andrew	Thompson	Natural History Museum of L.A. County	USA
331 John	McManus	NCORE/U. Miami	USA
332 Bernard	Reigl	NCRI	USA
333 Barbara	Best	New Mexico State University	USA
334 Rebecca	Fisher	NMFS	USA
335 Andy	Bruckner	NOAA	USA
336 Ruth	Kelty	NOAA	USA
337 Cheryl	Woodley	NOAA	USA
		NOAA - Florida Keys National Marine	
338 Harold	Hudson	Sanctuary	USA
339 John	Naughton	NOAA Fisheries	USA
340 Mark	Vermeis	NOAA/VM	USA
341 Nicolle	Cushion	Nova Southeastern University	USA
342 Joshua	Feingold	Nova Southeastern University	USA
343 Aya	Shinohara	Nova Southeastern University	USA
344 Alan	Friedlander	Oceanic Institute	USA
345 Simon	Ann?	OSU	USA
346 William	Precht	PBS&J	USA
347 Charles	Mazel	Physical Sciences Inc.	USA
348 Christy	Pattengilt Semmmens	REEF	USA
349 Megan	Black	San Diego State University	USA
350 Olga	Pantos	San Diego State University	USA
351 Forest	Rohwer	San Diego State University	USA
352 David	Kline	Scripps Institute of Oceanography	USA
353 Nancy	Knowlton	Scripps Institute of Oceanography	USA
354 Kristen	Marhaver	Scripps Institute of Oceanography	USA
355 Sheila	Walsh	Scripps Institute of Oceanography	USA
356 Allen	Curran	Smith College	USA
357 Ian	Macintyre	Smithsonian Institution	USA
358 Raphael	Ritson-Williams	Smithsonian Marine Station	USA
359 Carrie	Kappel	Stanford University	USA
360 Fiorenza	Micheli	Stanford University	USA
361 Steve	Palumbi	Stanford University	USA
362 Jack	Sobel	The Ocean Conservancy	USA
363 M.	Paddack	U Miami	USA
364 K	Semon	U Miami	USA
365 James	Maragos	U.S. Fish and Wildlife Service	USA
366 Benjamin	Victo	U.S. Foundation	USA

367 Ben	Mason	UNCW	USA
368 Howard	Lasker	University Buffalo	USA
369 Mark	Erdman	University of California, Berkeley	USA
370 Christine	Huffard	University of California, Berkeley	USA
371 Jeremy	Jackson	University of California, San Diego	USA
372 Helen	Morse	University of California, Santa Barbara	USA
373 Ben	Ruttenberg	University of California, Santa Barbara	USA
374 J. Wilson	White	University of California, Santa Barbara	USA
375 Curt	Storlazzi	University of California, Santa Cruz	USA
376 James	Goodman	University of California, . Davis	USA
377 Matthew	Kosnik	University of Chicago	USA
378 Peter	Auster	University of Connecticut	USA
379 Gustav	Paulay	University of Florida	USA
380 James W.	Porter	University of Georgia	USA
381 Kathryn	Sutherland	University of Georgia	USA
382 Amy	Apprill	University of Hawaii	USA
383 Dan	Barshis	University of Hawaii	USA
384 Charles	Birkeland	University of Hawaii	USA
385 Dave	Carlton	University of Hawaii	USA
386 June	Firing	University of Hawaii	USA
387 Mike	Gilbeaux	University of Hawaii	USA
388 Jamison	Gove	University of Hawaii	USA
389 Cynthia	Hunter	University of Hawaii	USA
390 Paul	Jokiel	University of Hawaii	USA
391 Jean	Kenyon	University of Hawaii	USA
392 Kem	Lowry	University of Hawaii	USA
393 Sarah	McTee	University of Hawaii	USA
394 Linda	Preskitt	University of Hawaii	USA
395 Robert	Richmond	University of Hawaii	USA
396 Lance	Smith	University of Hawaii	USA
397 Lisa	Iwahara	University of Houston	USA
398 Juan	Jiminez	University of Houston	USA
399 Chad	McNutt	University of Houston	USA
400 Robert	Bolland	University of Maryland	USA
401 Ken	Sebens	University of Mass.	USA
402 Peter	Glynn	University of Miami	USA
403 J.	Kool	University of Miami	USA
404 Kathleen Sullivan	Sealey	University of Miami	USA
405 Michelle	Lupei	University of Miami, Rosenstiel Sch. of Marine & Atmosph. Sci	USA
406 Carolyn	Margolin	University of Miami, Rosenstiel Sch. of Marine & Atmosph. Sci	USA
407 Marc	Slattery	University of Mississippi	USA
408 John	Pringle	University of North Carolina	USA
409 Andrea	Grottoli	University of Pennsylvania	USA
410 Lisa	Rodrigues	University of Pennsylvania	USA
411 Monty	Hempel	University of Redlands	USA
412 Rachel	Finley	University of Rhode Island	USA
413 Sean	Kinane	University of South Florida	USA
414 Pamela	Miller	University of South Florida	USA
415 John	Ogden	University of South Florida	USA
416 Alan	Kohn	University of Washington	USA
417 John	McCarroll	US EPA	USA

418 Mike	Field	USGS	USA
419 Rikki	Grober-Dunsmore	USGS	USA
420 Ilsa	Kuffner	USGS	USA
421 Daria	Siciliano	USSC	USA
422 Donna	Nemeth	UVI	USA
423 Mark	Heckman	Waikiki Aquarium	USA
424 Amy	Baco-Taylor	WHOI	USA
425 Andrew	Baker	Wildlife Conservation Society	USA
426 Marea	Hatzios	World Bank	USA
427 Brooks	Yeager	WWF	USA
428 Peter	Galvin		USA
429 Gregor	Hodgson		USA
430 Todd	Lajeunesse		USA
431 Judith	Lang		USA
432 Emily	Platzer		USA
433 Andrew	Rothwell		USA
434 Renee	Seaman		USA
435 Joy	Wong Kinzie		USA
436 Sam	Purkis	NCRI	USA/Netherlands
437 Domingo	Ochavillo	Reef Check	USA/Philippines
438 Machel	Malay	University of Florida	USA/Philippines
439 Stephanie	Wear	TNC	USVI
440 Sandra	Romano	University of Virgin Islands	USVI
441 Carolina	Bastidas	University Simon Bolivar	Venezuela
442 Nguyen Van	Quam	Hai Phong Institute of Oceanography	Vietnam