Abigail Kingsley Alling



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Occupation:

1991 - PRESENT Founder and President, **Biosphere Foundation** and its project the **Planetary Coral Reef Foundation** (PCRF).

Biosphere Foundation is a US 501 (c) 3 organization (Federal ID # 86-0686472) with a primary goal to inspire intelligent stewardship of our earth's biosphere. Its projects aim to contribute to the existing knowledge about the biosphere and to inspire individuals to join conservation programs through hands-on field work or educational programs

2011 - Present: Director **Biosphere Association**, a registered UK Charity #1145458 representing the work of Biopshere Foundation in Europe

1985 - 1994: The Biosphere 2 Project

Ms. Alling was one of the eight "biospherians" to live for two years inside Biosphere 2, a 3.15-acre Laboratory for Global Ecology. At Biosphere 2, she created and operated the largest artificial ecological marine system, a 1,000,000-gallon mangrove, marsh, and ocean coral reef. She also served as the Director of Research for over sixty research projects carried out inside the structure

1993 – 1994: Assistant Vice-President of Biospheric Research & Development, Space Biospheres Ventures (SBV) and Overall Head of Transition to the next experiment

1991 – 1993: Director of Research and Marine Ecological Systems while living inside Biosphere 2

1991 - 1993: Associate Director of Research and Development and Marine Systems Ecological Systems for Biosphere 2. Resided inside Biosphere 2 for two years during its first mission. Responsible for the research and development program for the overall Biosphere 2 experiment as well as the day-to-day operational management of the ocean and marsh biomes, streams and horticulture

1985 – 1994: Director of Marine Ecological Systems (SBV). Responsible for the design, development, operation and research of two biomes: the 1,000,000 gallon ocean and marsh systems in Biosphere 2

1986 – 1991: President, Ocean Expeditions Inc. (OEI)

"Expedition to Circumnavigate South America," including a six week voyage to the Antarctic Peninsula. Ms Alling was the Expedition Chief

Release of two dolphins from captivity with Oceanic Research and Communication Alliance

1985 - 1986: Project Coordinator, Cetacean Seas Research. Design and construction in Sri Lanka of a 44 foot sloop for marine mammal studies and films

1985 – **1986:** UNEP Scientific Consultant at NARA (National Aquatic Resource Agency) for its Sri Lankan Small Cetacean Entrapment Project and Indian Ocean Marine Mammal Sanctuary Program

1981 – 1984: Scientist onboard vessel Tulip for a World Wildlife Fund Indian Ocean Marine Mammal Sanctuary Research Program

1981: Field Research Assistant Humpback Whale Population Study, Greenland for the Marine Mammal Commission

Education:

1983-1985: M.S., Honors. The School of Forestry and Environmental Studies, Yale University, CT

1977-1982: B.A., Biology, Honors. Middlebury College, Middlebury, VT

1981: Zoology Lab, Honors. Cambridge University, Cambridge, England

1979: Organic Chemistry, Honors. Harvard University, Cambridge, MA

1979: Semester in Nepal, Honors. Experiment in International Living

1977: Sea Semester, Honors, Boston University, Boston, MA

Fellowships/Memberships:

Fellow, Institute of Marine Enginneering, Science and Technology
Fellow, World Academy of Art and Science
Fellow, Linnean Society, UK
Fellow, New York Explorers Club
Member, The New York Academy of Sciences
Committee Member, Espace Mer, France
Associate Member, Institute for Advanced Studies in Life Support
Board of Directors, Journal of Life Support and Biosphere Science, USA

Awards:

1993 Woman of the Year, Elle Magazine Thomas J. Watson Fellowship, USA International Cetacean Society Award, USA

"Studio of the Sea" films: Studio of the Sea is a project of the Biosphere Foundation that has made over 40 mini-films about life at sea, ocean challenges and island cultures. Its archive consists of 3 terrabytes of HD and DV footage. The films are online at *www.studioofthesea.org.*

The most well known include:

A Selection of Studio of the Sea Films. 2010. Xinya Television, China
Reuse or Refuse. 2009. Youtube at Biosphere Foundation
Water Music & Mbambanga Dance. 2008. World Water Expo Zaragoza Spain.
Whaling Wall. 2008. Youtube at Biosphere Foundation
Canary is Dead. 2008. Link TV
Deep Trouble. 2007. Youtube at Biosphere Foundation
Going, Gone. 2007. Youtube at Biosphere Foundation
Canary is Dead. 2007. Current TV
Our World – A visual journey into Biosphere 2. 2006. Youtube at Biosphere Foundation
About Studio of the Sea. 2005. Link TV

Documentaries:

Odyssey in two Biospheres. 2015. A film by French Director Michelle Decoust about three Directors & Officers of Biosphere Foundation who lived inside the Biosphere 2 project and who apply critical discoveries made to conservation & education project in NW Bali.

Acid Test: The Global Challenge of Ocean Acidification.2009. A film by the National Resources Defense Council that used footage from BF's *Studio of the Sea*.

An Inconvenient Truth. 2006. Academy award winning film by Paramount Classics and Participant Productions that featured the work of PCRF and the fact that coral reefs are an early warning sign for global warming.

Dragon of the Seas. 2004. 52 minute documentary film about the PCRF Coral Reef Research program by ADR Productions, France.

Indonesia Beyond the Reefs. 1999. 90 minute National Geographic Television program about Raffles Marina Marine Parks of Indonesia expedition with PCRF's ship and crew.

The Coral Dance. 1998. 30 minute documentary film on the PCRF Coral Reef Research and Wastewater Gardens® by Japan Asahi TV, French Canal + TV, and British 3BM Production.

Buddha and the Biosphere - Vis a Vis. 30 minute documentary about life inside the two year Biosphere 2 project by Point du Jour - France 3 - Borromeé Productions.

Numerous International films about the Biosphere 2 project. 1986-1994

Back to the Sea. 1987. National Geographic film about the release of two bottlenose dolphins, *Joe and Rosie*

Research and Expeditions:

- 2012- Present- Sri Lanka Marine Mammal Conservation with special emphasis on ship-strikes affecting the status of the pygmy blue whale and sperm whale populations. *www.biospherefoundation.org*
- 2011- Present: "Friends of Menjangan" **Biosphere Stewardship Conservation &** Education Programs, Bali Barat National Park, Bali, Indonesa www.biospherefoundation.org
- 2009- Present: **Rebuild & Operation of sailing ship** *Mir*, a 1910 classic Bermuda ketch for Biopshere Foundation's offshore conservation projects and operation of the ship as First Mate. Voyages include sailing the Mediterranean, Red Sea, Indian Ocean, Bay of Bengal, South China Sea and Java Sea
- 2009- Present: Menjangan Island Coral Reef Conservation Program, Bali Barat National Park, Indonesia - *www.biospherefoundation.org*
- 2009- Present: Sea Turtle & Coral Reef Conservation Program, Durai Island, Anambas Islands, Indonesia - *www.biospherefoundation.org*
- 1995- 2006: Closed system research and development for Mars On Earth®, a manned life support system for Mars *www.biospherefoundation.org*
- 2006: Laboratory Biosphere third generation **Russian Mir wheat** propagation experiment *www.biospherefoundation.org*
- 1995- 2005: Laboratory Biosphere (a 12' closed system chamber) research and development with atmosphere & water recycling with soils and crops *www.biospherefoundation.org*
- 1995- 2008: Planetary Coral Reef Expedition to 49 locations worldwide- www.pcrf.org
- 1993- Present: Wastewater Gardens[®] ecological wastewater recycling R & D in Mexico, Bali, New Mexico (USA) *www.biospherefoundation.org*
- 1995- 2003: Pioneered the **Coral Reef Satellite Mission** concept: a project to put a satellite in space to map and monitor reefs and to create an urgently needed first comprehensive baseline map of living coral reefs. Partners in this effort included the Massachusetts Institute of Technology (MIT) and the Scripps Institution of

Oceanography - www.biospherefoundation.org

- 1991- 1994: Mapping coral reef health and vitality at Turneffe Atoll, Belize
- 1985-1994: Closed ecological systems research and development, Biosphere 2
- 1985-1994: Ocean and marsh biome research and development, Biosphere 2
- 1989: Research on humpback whale genetics in Antacrica with the National Cancer Research Institute
- 1988- 1989: Marine mammal sightings, Circumnavigation of South America Voyage
- 1987: Readaptation and release of two captive bottlenose dolphins, Golden Isles, Savannah, Georgia
- 1986: British Columbia, Canada killer whale communication study
- 1983- 1984: Research on the **behavior**, ecology and vocalizations of pygmy blue whales off the east coast of Sri Lanka
- 1983: Research on the exploitation and by-catch of small cetaceans in Sri Lanka
- 1982- 1984: Participant in a WWF **Indian Ocean Marine Mammal Sanctuary** research project to study sperm and blue whales and the distribution of marine mammals off the coast of Sri Lanka
- 1982: Research on the exploitation, distribution and population of the white beaked dolphin off Labrador, Canada
- 1981: Research on the Yangtze River dolphin, China
- 1981: Participant in a research project studying the distribution of **humpback whales off Greenland**
- 1979: General Survey of Nutrition in Nepal, Dhopakel and Taplejung

Books:

A. Alling. 2015. Forward in: Coral Reefs – A Handbook For Their Future. IMarEST, UK.

A. Alling. 2010. *Reefs in Crisis*. Chapter included in OCEANS. Companion Book to the DisneyNature Film Oceans, edited by Jon Bowermaster

A. Alling, M. Nelson, S. Silverstone. 1993. *Life Under Glass: The Inside Story of Biosphere 2,* The Biosphere Press, Oracle, AZ

Scientific Publications & Posters:

Ilangakoon, A. and A Alling. 2016. Cetacean sightings, mixed-species assemblages and the easternmost record of *Indopacetus pacificus* from the northern Indian ocean. Marine Biodiversity Records. 9:8. 4 pp.

Priyadarshana, T., Randage, S.M., Alling, A., Calderan, S., Gordon, J. Leaper, R. Porter. L.2015. Distribution pattersn of blue whale (Balaenoptera musculus) and shipping off Southern Sri Lanka. 2015. Regional Studies in Marine Science. Elsevier online at <u>Http://dx.doi.org/10.1016/j.rsma.2015.08.002/</u>.

Also online at: <u>http://www.sciencedirect.com/science/article/pii/S2352485515000341</u>

Priyadarshana, T., Randage, S.M., Alling, A., Calderan, S., Gordon, J. Leaper, R. Porter. L.2015. An update on work related to ship strike risk to blue whales off southern Sri Lanka.Paper SC66aHIM presented to the IWC Annual Meeting June, 2015. 13pp.

Tilak Priyadarshana, C. Milner, M. Van Thillo, E. Heywood¹, A. Forrest, L. Sato, and A. Alling¹ 2015. A note on acoustic and visual observations of sperm whales off southeast Sri Lanka, April Accepted in University of Ruhuna Journal, Sri Lanka. 7pp.

Randage, S.M., A. Alling, K. Currier, E. Heywood. 2014. *Review of the Sri Lanka Blue Whale, Balaenioptera musculus ssp., with observations on it's distribution in the shipping lane.* J. Cetacean Res. Manage.14:43-49. 7pp.

Priyadarshana, T., Randage, S.M., Alling, A., Calderan, S., Gordon, J. Leaper, R. Porter. L.2014. Preliminary Results of Surveys to Investigate Overlap Between Shipping and Blue Whale Distribution off Sri Lanka. Paper SC65bHIM presented to the IWC Annual Meeting June, 2014. 11pp.

Dustan, P., Orla Doherty, Carol Milner, Amber Lehman and Abigail Alling. 2014. *Ecological Tipping Point of Coral Reefs in NW Bali, Indonesia.* Poster presented at Ocean Sciences Meeting, Honolulu, Hawaii February 23-28, 2014.

Orla Doherty, Carol Milner, Phillip Dustan, Stuart Campbell, Shinta Pardede, Tasrif Kartawijaya and Abigail Alling. 2013. *Report on Menjangan Island's Coral Reef: A Bali Barat National Park Marine Protected Area*. Atoll Research Bulletin 599, 17pp.

Carol Milner, Katharine Currier, Blake Kopcho, Abigail Alling. 2013. A *Status Report on the Coral Reefs at Pulau Durai, Anambas Islands Indonesia*. Atoll Research Bulletin 591, 17pp.

M. Nelson, N.S. Pechurkin, J.P. Allen, Abigail K. Alling, L.A. Somova and J.I. Gitelson, 2010. Bioengineering of Closed Ecological Systems for Ecological Research, Space Life Support and the Science of Biospherics, Chapter 11 in Volume 10, 2010, DOI: 10.1007/978-1-60327-140-0 ENVIRONMENTAL BIOTECHNOLOGY in the Handbook of Environmental Engineering series, Editors: Lawrence K. Wang, Volodymyr Ivanov

and Joo-Hwa Tay, The Humana Press, Inc., Totowa, NJ

Visscher, A., A-L. Paul, M. Kirst, A. K. Alling, S. Silverstone, G. Nechitailo, M. Nelson, W.F. Dempster, M. Van Thillo, J. P. Allen, R. J. Ferl. 2009. *Effects of a Spaceflight Environment on Heritable Changes in Wheat Gene*. Astrobiology May 9 (4): 359-67.

Tanya Ribakoff, Orla Doherty, Paul McCurdy, Katharine Currier, Abigail Alling. 2008. *Declining Coral Health and Fish Diversity at Sagharughombe Reef, Solomon Islands Before and After the 2007 Tsunami and Earthquake*. Poster presented at the International Coral Reef Symposium, July 2008.

Katie Olds, Phil Dustan, Abigail Alling. 2008. *Eight Years of Coral Reef Data from Melanesia and Southeast Asia: Vitality, Percent Coverage, Reef Area and the Affects of an Earthquake.* Poster presented at the International Coral Reef Symposium, July, 2008.

Lindsey Feldman, Abigail Alling, Kitty Currier, Orla Doherty, Phil Dustan, Heather Logan, Carol Milner. 2008. *The Planetary Coral Reef Foundation*. Poster presented at the International Coral Reef Symposium, July, 2008.

Alling.A., Doherty, O., Logan, H., Feldman, L., Dustan, P. 2007. *Catastrophic Coral Mortality in the Remote Central Pacific Ocean: Kirabati Phoenix Islands*. Atoll Research Bullentin, 551.National Museum of Natural History Smithsonian Institution, Washington DC.

Nelson, M, Dempster, W.F., Alling, A, Allen, J., Rasmussen, R, Silverstone, S., and Van Thillo, M. 2006. Cowpeas and pinto beans: yields and light efficiency of candidate space crops in the Laboratory Biosphere closed ecological system. *COSPAR 2006 in Beijing, in press Adv. Space Research*

Alling, A. 2006. Silent Death. Ocean Magazine. April, 2006

Alling, A., Van Thillo, M., Dempster, W., Nelson, M., Silverstone, S., Allen, J. 2005. *The Mars On Earth® Project: Lessons Learned from Biosphere 2 and Laboratory Biosphere Closed Systems Experiments*. Jpn. So. Biol. Sci. Space, Vol. 19, No. 4: 250-260.

H. Morowitz., J.P. Allen, M. Nelson and A. Alling. 2005. *Closure as a Scientific Concept and its Application to Ecosystem Ecology and the Science of the Biosphere*. Advances in Space Research. 2005;35(9):1552-6.

William F.Dempster, J.P. Allen, A. Alling, M. Nelson, S. Silverstone, M. Van Thillo. 2005. *Atmospheric dynamics in the Laboratory Biosphere with wheat and sweet potato crops*. Advances in Space Research. 2005;35(9):1552-6.

M. Nelson, W.F. Dempster, S. Silverstone, A. Alling, J.P. Allen and M. Van Thillo. 2005. Crop Yield and Light/Energy Efficiency in a Closed Ecological System: Two

Laboratory Biosphere Experiments. Advances in Space Research 35 (2005) 1539-1543.

Silverstone, S., M. Nelson, A. Alling and J.P. Allen. 2005. Soil and Crop Management: Lessons from the Laboratory Biosphere 2002-2004. Advances in Space Research Adv 35(9):1544-51.

Silverstone, S., M. Nelson, A. Alling, J. Allen. 2003. Development and research program for a soil – based bioregenerative agriculture system to feed a four person crew at a Mars base. Adv. Space Res. 31(1): 69-75.

Nelson, M., W. Dempster, A. Alling, J.P. Allen, R. Rasmussen, S.Silverstone and M. Van Thillo. 2003. *Initial experimental results from the Laboratory Biosphere closed ecological system facility*, Adv. Space Res. 31(7):1721-1730, 2003.

Dempster, W.F., Van Thillo, M., Alling, A., Allen, J.P., Silverstone, S., Nelson, M. 2004. *Technical review of the Laboratory Biosphere closed ecological system facility*. Adv. Space Res., 34, 1477-1482.

Allen, J.P., M. Nelson, A.K. Alling. 2003. The *legacy of Biosphere 2 for the study of biospherics and closed ecological systems,* paper presented at the World Space Congress, COSPAR general assembly, Houston, TX, October 2002, Advances in Space Research, 2003, Vol. 31, issue 7, 1629-1640.

M. Nelson, J. Allen, A. Alling, W.F.Dempster, S. Silverstone. 2003. *Earth applications of closed ecological systems: relevance to the development of sustainability in our global biosphere,* paper presented at the World Space Congress, COSPAR general assembly, Houston, TX, October 2002, Advances in Space Research, 2003, 31 (7), 1649-1656.

Alling, A, Nelson, M., Silverstone, S and M. Van Thillo. 2002. *Human Factor Observations of the Biosphere 2, 1991-1993, Closed Life Support Human Experiment and Its Application to a Long-Term Manned Mission to Mars.* Life Support and Biosphere Science 8:71-82.

Nelson, M., Alling, A, Dempster, W.F., Van Thillo, M. and J. Allen.2002. *Integration of wetland wastewater treatment with space life support systems*. Life Support and Biosphere Science 8 (3/4):149-154.

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Allen, J. and A. Alling. 2002. *The design approach for Mars On Earth®, a biospheric closed system testing facility for long-term space habitation*. American Institute of Aeronautics and Astronautics Inc.IAC-02-IAA.8.2.02.

Nelson, M., Odum, H.T., Brown, M.T., and A. Alling. 2001. "Living off the land": resource efficiency of wetland wastewater treatment. Adv. Space Res. 27 (9) 1547-1556.

Nelson, M., Alling, A, Dempster, W.F., Van Thillo, M. and J. Allen. 2003. Advantages of using subsurface flow constructed wetlands for wastewater treatment in space applications: ground-based Mars Base prototype. Advances in Space Research 31 (7): 1799-804.

Alling, A. 1999. *Mission Overview of the Planetary Coral Reef Foundation*. Linnean Society/NASA/PCRF Remote Sensing of Coral Reefs Conference, London, Dec 15-16, 1999.

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Alling, A., Joe Allen, F. El-Baz. 1998. *A Simulation of an Inhabited Mars Base to be Constructed and Operated in the Egyptian Sahara Desert*. 3rd International Conference Life Support and Biosphere Science, January 11-15, Disney, Coronado, Florida.

Dustan, P., S. Chakrabarti, A. Alling. 1998. *Mapping and Monitoring the Health and Vitality of Coral Reefs From Satellite: a Biospheric Approach*. 3rd International conference of LIfe Support and Biosphere Science, January 11 -15, Disney, Coronado, Florida.

Alling, A. 1997. *Pulsing Planet Earth: The Planetary Coral Reef Project.* Explorers Journal. Fall, 1997.

Alling, A. and P. Dustan. 1996. *Coral Reef Ecosystem of Biosphere 2*. 4th International Conference on Closed Ecological Systems. Linnean Society, UK.

A. Alling. 1994. "Two Years Inside Biosphere 2: Looking Back, Looking Ahead." Illume, V. 6. N.1 (Japan).

M. Van Thillo, W. Dempster, N. Alvarez-Romo, G. Hudman, S. Silverstone, A. Alling, and M. Nelson. 1996. "From Theory to Practice: The Initial Two-Year Closure of Biosphere 2. Journal of Ecological Engineering.

Nelson, M. and A. Alling. 1993. "Biosphere 2 and its Lessons for Long-duration Space Habitats". In: Faughnan, ed., Space Manufacturing 9. The High Frontier: Accession, Development and Utilization. AIAA, Washington, D.C. P. 280-287.

M. Nelson, T. Burgess, A. Alling, N.Alvarez-Romo, W.F. Dempster, R.L. Walford, and J.P. Allen. 1993. "Initial results from Biosphere 2: a closed ecological system laboratory," Bioscience, 43 (4).

A. Alling, M. Nelson, L. Leigh, R. Frye, T. Macallum, N. Alvarez-Romo. 1993. *A summary of the Biosphere 2 Test Module Research,* an appendix chapter included in Microcosms and Mesocosms in Scientific Research, Springer-Verlag, New York by H.T.

Odum and R. Beyers.

Baker, C.S., A. Perry, J.L. Bannister, M.T. Weinrich, R.B. Abernethy, J. Calambokidis, J. Lien, R.H. Lambertsen, J. Urban Ramirez, O. Vasquez, P.J. Clapham, A. Alling, S.J. O'Brien, S.R. Palumbi. 1993. *Abundant Mitochondrial DNA Variation and Worldwide Population Structure in Humpback Whales*. Proceedings of the National Academy of Sciences of the United States of America. Vol 90. No. 17: 8239-8243

Alling, A. 1992. "Some Implications of Biosphere 2", Illume Magazine, (Japan).

C.S. Baker, R. Slade, J. Bannister, G. Abernethy, A. Alling, and G.K. Chambers. 1992. *"Genetic Variability and Stock Identity of Humpback Whales."* Submitted to the International Whaling Commission.

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Nelson, M., L. Leigh, A. Alling, T. MacCallum, J. Allen, and N. Alvarez-Romo, 1991.

Biosphere 2 test module: a ground-based sunlight-driven prototype of a closed ecological system. Paper for COSPAR XXVIII Plenary Meeting, The Hague, Netherlands, 1990, published in Natural and Artificial Ecosystems, Advances in Space Research, v. 12, 5:151-158.

MacCallum, T., M. Nelson, J.P. Allen, L.S. Leigh, A. Alling, N. Alvarez-Romo. 1991. *The Biosphere 2 Project and its Application for Space Exploration and Mars Settlement*. The Case for Mars I V, Volume 76, Science and Technology Series, American Astronautical Society, San Diego.

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"Biosphere 2 Test Module : A Ground-Based Sunlight-Driven Prototype of a Closed Ecological System." Paper # MF 11.2.6, COSPAR XXVIII Plenary Meeting, The Hague, Netherlands Published in Advances in Space Research, Vol.12, number 5, 1991 Life Sciences and Space Research XXIV (4), Natural and Artificial Ecosystems, ed. by R.D. MacElroy, M.M. Averner, T.W.Tibbitts, B.B. Bugbee, G.Horneck and E.H. Dunlop, pp 151-158, Pergamon Press, 1991.

Alling, A. 1989. "Braving the Antarctic on a Chinese Junk." Geomundo, Mexico

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Alling, A. and H. Whitehead. 1987. "A preliminary study of the status of the Whitebeaked dolphin and other small cetaceans off the coast of Labrador." Canadian Field Naturalist Vol 101(2): 131-135.

Alling, A. 1987. "A case study of the incidental entrapment of odontocetes in Sri Lanka's gillnet fishery". J. Bombay Nat. Hist. Soc 85(3): 538-550.

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Alling, A., Gordon, J., Rotten, N. & Whithead, H. (1982). WWF-Netherlands Indian Ocean Sperm Whale Study, 1981-1982 Interim Report. Paper SC/34/Sp9 presented to the IWC Scientific Committee, June 1982 (unpublished). 46pp.

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