

ANDREW C.F. TAYLOR

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FORMAL EDUCATION:

MSc – Tropical Marine Ecology & Fisheries Biology

(James Cook University, Townsville Australia)

- Thesis Research: Restoration ecology in coral reef environments environments; Field research – Lombok, Indonesia; Supervisors – Craig Syms & Betty Willis.
- Key Courses: Fisheries Science, Reef Geomorphology, Marine Evolution & Biogeography, Marine Conservation Biology, Marine Ecology & Environmental Assessment, Managing Coastal & Marine Environments, Coastal Management

BSc – Environmental Science – Business minor

(Concordia University–College of Alberta, Edmonton Canada)

- Research Project: Investigation of the factors affecting the intertidal zonation of seastars in Pacific NW
- Capstone Project: Management & Research plan for the rehabilitation of a coral reef using coral mariculture and community-based ecosystem management.

Certificate – Adventure Tourism Business Operations

(College of the Rockies, Golden BC Canada)

INDUSTRY CERTIFICATION & TRAINING COURSES:

Diving:

- DCBC Unrestricted Occupational SCUBA (40m Commercial Certification)
- CMAS Advanced Scientific Diver Instructor
- PADI Master Instructor (PADI # 208340) & SSI Master Instructor
- PADI Specialty Instructor: Naturalist, Search & Recovery, Coral Watch, Fish ID, Self-Reliant Diver, Research Diver
- Dive Accident Management (DiveSafe Int'l)
- Emergency First Response First Aid Instructor Trainer
- Reef Check Course Director
- PADI Coral Restoration Instructor

Specialized Scientific Training:

- Canadian Restricted Marine Radio Operator Certificate
- Pleasure Craft (Boat) Operator License (Transport Canada)
- Electro-fishing crew leader certification
- At-Sea Fisheries Observer Training Course (Fisheries & Oceans Canada certification)
- Indonesian Marine Park Reef Health Monitoring training program

- BioRock Coral Reef Restoration workshop
- Coral Reef Restoration Training – University of Milano–Bicocca

Industry Certification:

- Certified Ecological Restoration Practitioner (CERP #235) Society of Ecological Restoration

EMPLOYMENT HISTORY:

Scientific Director / Biologist – Blue Corner Marine Research, Indonesia

www.bluecornerconservation.org

April 2011– Present

- Biologist and director of a conservation organization specializing in marine habitat restoration & reef health monitoring
- Developed training curriculum with training materials including 5–part textbook series, student workbooks, teaching presentations, and field activities.
- Organized and taught educational programs and field courses in marine ecology for undergraduate university students & international school groups
- Supervised masters and honors university students collecting field component of thesis research
- Developed and maintain a coral restoration program in Nusa Penida
- Conducted workshops and guest lectures for conservation organizations and conferences
- Coordinate data collection and logistics for habitat monitoring surveys

Managing Director – PT. Blue Corner (Blue Corner Dive), Indonesia

www.bluecornerdive.com

April 2011– Present

- Owner & manager of dive eco–resort with 3 locations in Indonesia
- Managing staff and operations

Teaching Professor – Vancouver Island University, Canada

January 2023 – Present

- Instructor in Fisheries Management & Marine Conservation

Marine Habitat Biologist – Pacificus Biological Services Ltd, Port Hardy Canada

www.pacificus.ca

Full–time: August 2008 – December 2010;

Contract Report Writing: 2011 & 2021

Full–time: May 2020 – January 2021

- Environmental consulting
- Environmental impact assessments for development projects around aquatic environments.
- Biodiversity surveys (terrestrial & marine).
- Habitat offsetting & compensation projects.
- Salmon enumeration studies
- Legislative & regulatory approvals for development works
- Developing & implementing long–term monitoring studies of marine resources for industry (aquaculture lease sites, marine transportation, and forestry), indigenous first nations (traditional fisheries stock management), and municipal government (wastewater outfalls, public works construction)
- Underwater video & survey work

Fisheries Observer --Archipelago Marine Research, British Columbia Canada
Summer 2008

- Monitoring fishing effort, by-catch handling, and recording catch data onboard commercial trawl fishing boats in the Canadian Pacific.

Scuba Instructor / Manager --Viking Scuba, Tonsai Beach, Krabi Thailand
(high tourist season) 2004/5, 2002/3

- Manager/ Primary instructor for a small dive operation

Ecotourism Guide --Island Escapades, Salt Spring Island, Canada
Summers 2004, 2003, 2002

- Interpretive nature tours around Gulf Islands of Canadian west coast.
- Led wilderness adventure camps for children
- Taught beginner to advanced kayaking and water safety courses

TEACHING PROGRAMS

Vancouver Island University
(Current) Canada

- Lecturer for senior-level university course in "Marine Conservation & Fisheries Management". Full semester delivery with classroom lectures and lab components. Developed lecture series, lab & field activities, & exams.

Conservacion Marina Ecuador
(April 2022) Ecuador

- Conducted a 3-week training workshop for a conservation organization to establish a reef restoration program in coastal Ecuador. Trained instructors in coral restoration & reef health monitoring techniques and developed area-specific teaching presentations for the instructors to run their own training programs.

School for International Training (SIT) Study Abroad Program
(2018, 2019, 2022) Bali, Indonesia

- Teaching field course in biodiversity and marine protected area management to undergraduate university students

The International School of Macao
(Sept 2021 - Dec 2022) online delivery

- Marine Biologist in residence for an international school in Macao, China
- Deliver online lectures in various topics related to conservation, fisheries, marine organisms, habitat restoration
- Teaching online workshops in reef restoration to high school students
- Created an "Ask a Marine Biologist" video series for students question forum and online assemblies

Canggu Community School
(2017, 2018, 2019) Bali, Indonesia

- Led multi-day field courses for international school students Grade 10, 11, & 12 Biology and Environmental Sciences classes. Courses consisted of lecture series, monitoring reef fish through visual surveys, and guided data analysis.

PRESENTATIONS

WEBINARS

Coral Restoration Consortium – (Dec 2021) online: www.ReefResilience.org

- Webinar: “Restoration Techniques for Non-Branching Corals: Lessons from Around the World”

Reef Support International Webinar Series – (Oct 2021) online

- Webinar: “Future for Coral Reef Research: Challenge and Way Forward”

Society for Ecological Restoration – (May 2019) online: www.SER.org

- Webinar: “Coral Reef Restoration: Nusa Penida Case Study”

CONFERENCES

China NGO Forum (November 2019) Sanya, Hainan, China

- **Invited Speaker:** “Applying scientific principles to coral reef restoration”

GBR Coral Restoration Symposium – (July 2018) Cairns, Australia

- **Poster:** “Use of Modular Structures for stabilization of substrate and multi-species transplantation”

International Coral Reef Symposium – (June 2008) Fort Lauderdale, FL

- **Poster:** “Biological Consequences of Quick Fixes in Reef Restoration”

AUTHORED MARINE BIOLOGY TRAINING COURSES

Restoration Ecology of Coral Reefs

Online training course: Blue Corner Marine

Research: (<https://bluecornerconservation.teachable.com/p/coral-reefrestoration/>)

Scientific Diver & Marine Conservation Internship Program

(<http://bluecornerconservation.org/conservation-internship>): Training program 5 week-long modules --Scientific Diver; Marine Ecology; Reef Health Monitoring; Coral Restoration; Marine Megafauna. Developed the curriculum, textbooks, teaching presentations, and training materials.

Coral Reef Restoration Workshop

(<http://bluecornerconservation.org/coral-restoration-week>) Training program for marine conservation practitioners to develop comprehensive habitat restoration projects. Workshop is offered for continuing education credits with Society for Ecological Restoration and has been used by several university students for elective credits. I have also run custom versions of this program for various NGOs and practitioners in Indo-Pacific region.

PUBLICATIONS:

- Taylor, A. (2022). "Collaboration with Tourism Operators to Build Capacity in Coral Reef Restoration". SER News, Vol 36, Issue 3, p 4–8.
- Taylor, A. (2020). "Developing a Coral Reef Restoration Project: The Nusa Islands Case Study". ECO: Environment Coastal & Offshore –SI Coral Reefs, 100–103.
- Taylor, A (2013). Assessment of the Impacts: Grounding of the Vessel Sibang 29, Anchor Damage from the Barge BG Sumber Jaya 38 & Submarine Electrical Cable, Nusa Lembongan. Prepared for Coral Triangle Centre.
- Taylor, A., D. LeBoeuf, D. McCorquodale. (2010). Phillips River Chinook Salmon Population Study. Prepared for Gillard Pass Fisheries Association.
- Taylor, A. (2011). "Electro–Mineral Accretion Artificial Reefs" In: Encyclopedia of Modern Coral Reefs ed. D. Hopley
- Taylor, A. (2008). Biological Consequences of Quick Fixes in Coral Reef Restoration. MAppSc Thesis, James Cook University, Australia.

OTHER RELEVANT EXPERIENCE:

- Field supervisor for graduate students working on coral reef research projects through Blue Corner Marine Research
- Coordinating marine habitat restoration project of 2 hectares of coral reef. Methods involved substrate stabilization & coral transplantation. Nusa Penida, Indonesia. Feb 2018 – present. (<http://bluecornerconservation.org/coral-reef-restoration>).
- Nusa Penida Marine Park reef health monitoring surveys 2012 – 2018. Conduct fish and substrate surveys at several survey sites in a yearly monitoring program together with Coral Triangle Centre and KKP Penida Marine Park office (Indonesian Ministry of Marine Affairs).
- Scientific Advisor for Lembongan Marine Association – Bali, Indonesia 2011–present
- Phillips River chinook salmon enumeration study & Gillard Pass Salmonid Enhancement hatchery program (Fieldwork & reporting 2009, 2010, 2020; Reporting & data analysis 2011): Conducted a stock assessment survey through tag–recapture funded by an environmental NGO. – British Columbia, Canada
- Department of Fisheries & Oceans Canada Herring spawn surveys (2009, 2010 & 2020): Conducted transect surveys of Herring eggs at spawn sites on the BC central coast for Fisheries & Oceans Canada's annual Herring biomass inventory. – Smith Inlet to Kingcome Inlet, British Columbia, Canada
- Environmental Impact Assessments on numerous proposed and re–activated marine log handling facilities in the central and southern BC coast. (2008–2009 & 2020): Underwater and shoreline habitat surveys at pre and post impact development sites. – British Columbia, Canada