

FRONTIER

THE SOCIETY FOR ENVIRONMENTAL EXPLORATION / FRONTIER

Statement of Capability

June 2007



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PROMOTED BY THE SOCIETY FOR ENVIRONMENTAL EXPLORATION

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Background

Established in 1989, The Society for Environmental Exploration (SEE) is an international environmental research and conservation non-governmental organisation (NGO). SEE has a successful track record of involvement in forest conservation and management, artisanal fishery research, coastal zone management, wildlife conservation, protected areas management and community based development.

SEE has initiated and managed projects in Africa, Central America, the South Pacific and South East Asia. The Society is a member of IUCN, the World Conservation Union and runs established country offices in Madagascar, Cambodia and Tanzania. SEE has worked with community resource user groups for government departments, private sector companies, international agencies and other NGOs. These collaborations are widely known under the "Frontier" banner.

SEE is an approved BTEC Edexcel centre providing training for and awarding qualifications in Tropical Habitat Conservation, Expedition Management and Adventure Tourism Management.

SEE offers expertise and experience as an organisation with strong on-the-ground implementation and facilitation capabilities in conjunction with national "grass-root" and community groups. The Society has proven skills in natural resource management in forest, savanna, marine and freshwater ecosystems, and community development.

SEE Skills

- Biodiversity surveys, mapping and monitoring
- Resource use surveys and monitoring
- Environmental impact assessments
- Protected areas planning and environmental protection
- Public awareness and environmental education
- Local community capacity building
- Institutional capacity building
- Community based conservation and natural resource management
- Participatory exercises to guide community-based development and conservation
- Training in all of the above

SEE staff have extensive experience of working in developing countries in Asia, Africa, the South Pacific and South America. These include Angola, Belize, Cambodia, China, India, Indonesia, Kenya, Madagascar, Malawi, Malaysia, Mozambique, Nepal, Nigeria, Philippines, Tanzania, Thailand, Uganda, Vietnam, Fiji and Zimbabwe. SEE has 40 permanent staff who

have expertise in a broad range of disciplines. These include community-based natural resource management, biodiversity conservation, artisanal fisheries, aquaculture, agroforestry and wildlife utilisation for rural development.

Antecedentes

Fundada en 1989, la Sociedad Para la Exploración Medio Ambiental (SEE) es una organización no gubernamental (ONG) internacional dedicada a la investigación y conservación del Medio Ambiente. Desde su creación, la SEE ha participado en programas de gestión y conservación del medio forestal, zonas costeras y de áreas protegidas. SEE también ha participado en proyectos de Conservación de la Fauna, Investigación de la Pesca Artesanal y de Desarrollo en Comunidades.

SEE ha creado y gestionado proyectos en Africa Oriental, en centroamerica y en el Sudeste Asiatico. La Sociedad es miembro de la Union Internacional para la Conservación de la Naturaleza (IUCN), y ha establecido oficinas en Madagascar, Camboya y Tanzania. SEE ha trabajado con comunidades para departamentos gubernamentales, empresas del sector privado, agencias internacionales y otros organismos no gubernamentales (ONGs). Estas colaboraciones son ampliamente conocidas bajo el nombre estandarte de "Frontier".

SEE está reconocida como centro BTEC Edexcel (Consejo de Educación y Formación Profesional). Proporciona formación y otorga titulos en "Conservación de Hábitats Tropicales" y "Gestión de Expediciones"

SEE ofrece técnica y experiencia como organización con elevadas capacidades en la implementación de proyectos en el mismo terreno junto con las organizaciones regionales y los grupos pertenecientes a las comunidades. La Organización ha demostrado tener habilidades en la Gestión de los Recursos Naturales, tanto en ecosistemas boscosos, marinos y de aguas dulces, como de la sabana; así como la Gestión de proyectos de Desarrollo de la Comunidad.

Ambitos de trabajo de SEE

- Inventarios, realización de mapas y control de datos de biodiversidad
- Inventario y supervisión en el uso de los recursos
- Estudios de Impacto Ambiental
- Planeamiento de áreas protegidas y protección ambiental
- Conciencia pública y educación ambiental
- Fortalecimiento de las capacidades de comunidades locales
- Fortalecimiento de las capacidades institucionales
- Conservación a nivel de comunidades y gestión de recursos naturales
- Ejercicios grupales para guiar en el desarrollo de la comunidad y la conservación
- Formación en todas las habilidades mencionadas anteriormente.

El personal de SEE tiene amplia experiencia trabajando en países en vías de desarrollo en

Asia, Africa y América del Sur. Entre ellos: Angola, Belize, Cambodia, China, India, Indonesia, Kenia, Madagascar, Malawi, Malaysia, Mozambique, Nepal, Nigeria, Filipinas, Tanzania, Tailandia, Uganda, Vietnam y Zimbabwe. SEE tiene 40 empleados permanentes con una formación técnica en diferentes áreas. Estas incluyen gestión de recursos naturales en comunidades, conservación de la biodiversidad, industrias pesqueras artesanales, acuicultura, agroforestería y uso de la fauna en el desarrollo rural.

Chimbuko

Imeanzishwa 1989, Jumuiya ya Uchunguzi wa Mazingira (SEE) ni shirika la kimataifa lisilo la kiserikali (NGO) la utafiti na uhifadhi wa mazingira. SEE inamtiririko mzuri wa rekodi ya kujihusisha kwake katika uhifadhi na utunzaji wa misitu, utafiti katika uvuvi, utunzaji wa ukanda wa pwani, uhifadhi wa viumbe-pori, utunzaji wa maeneo muhimu (protected areas) na maendeleo ya kijamii.

SEE imeanzisha na kuendesha miradi katika Afrika ya Mashariki na Asia ya Kusini Mashariki. Jumuiya hii ni mwanachama wa IUCN, Umoja wa Kuhifadhi Mazingira Duniani, na inaendesha ofisi zilizoanzishwa za kitaifa katika Vietnam, Msumbiji, na Tanzania. SEE imefanya kazi na makundi ya jamii za watumia raslimali za idara za serikali, makampuni ya sekta binafsi, mashirika ya kimataifa, na NGO nyinginezo. Ushirikiano huu unajulikana sana chini ya bendera ya "Frontier".

SEE inadhamini uanzishwaji wa Chuo Kikuu Huria, Uingereza. Hii inawezesha shahada za juu kutunukiwa (BPhil, MPhil, PhD) kwa shughuli za kitafiti zinazofanywa na miradi ya Frontier.

SEE inatoa utaalamu na uzoefu kama shirika lililo imara katika kutekeleza na kuleta uwezo kwa kushirikiana na umma wa kitaifa na makundi ya kijamii. Jumuiya inao ujuzi uliohakikishwa katika utunzaji wa maliasili katika misitu, savana, mfumo wa ikolojia ya majini, na maendeleo ya jamii.

Ujuzi wa SEE

- Utafiti wa baioanuwai, ramani na udhibiti
- Utafiti wa matumizi ya raslimali na udhibiti
- Uchunguzi wa athari za mazingira (EIA)
- Mpango kwa maeneo maalumu (Protected areas) na kulinda mazingira
- Ufahamu kwa jamii na elimu ya mazingira
- Kujenga uwezo kwa jamii-enejeji
- Kujenga uwezo kwa Taasisi
- Uhifadhi wa mazingira wa kijamii na utunzaji wa maliasili
- Mazoezi ya ushirikishwaji ili kudhibiti maendeleo ya kijamii na uhifadhi wa mazingira
- Mafunzo kwa nyanja zote hapo juu.

Wafanyakazi wa SEE wanauzoefu mkubwa wa kufanya kazi katika nchi zinazoendelea katika Asia, Afrika, na Amerika ya Kusini. Hii ni pamoja na Angola, Belize, Cambodia, China, India, Indonesia, Kenya, Madagascar, Malawi, Malaysia, Msumbiji, Nepal, Nigeria, Philippines, Tanzania, Thailand, Uganda, Vietnam na Zimbabwe. SEE inawafanyakazi wa kudumu 40 ambao wanautaalamu katika fani nyingi. Hii ikiwa ni pamoja na utunzaji wa maliasili kijamii, uhifadhi wa baioanuwai, uvuvi, kilimo-bahari, kilimo-misitu, na matumizi ya viumbe-pori kwa maendeleo vijijini.

Generalités

Établis en 1989, la Société pour l'exploration de l'environnement (SEE) est une organisation non gouvernementale (ONG) dynamique dotée d'un département de consultance en management des ressources naturelles. La SEE s'applique depuis longtemps dans la protection et la gestion des forêts, de la pêche traditionnelle, des zones côtières ainsi qu'à la protection de la faune et la flore, et la conservation des réserves naturelles. La SEE a surtout une compétence dans le développement basé sur la participation locale et du développement communautaire.

La SEE a initié et assuré le suivi de projets en Afrique, en Amérique centrale et en Asie du Sud-Est. La SEE est une ONG bien implantée au travers de différentes représentations au Madagascar, au Cambodge et en Tanzanie. La SEE a travaillé avec des groupes locaux avec des besoins de ressources particuliers, conjointement avec des agences gouvernementales, des entreprises privées, et d'autres ONG. Les projets qui résultent de ces collaborations sont bien connus sous le nom "Frontier" (Frontière).

La SEE est une organisation avec beaucoup de compétences dans l'exécution et l'accomplissement des aspects pratiques et logistiques conjointement avec les communautés locales. La SEE a une expérience confirmée de mener les projets de gestion des ressources naturelles (les forêts, la savanne, les écosystèmes d'eau douce et de mer) et de mener les projets dans le domaine du développement local.

Compétences de la SEE

- Découvertes de biodiversités; cartographie et monitoring
- Mise à jour et monitoring de l'exploitation des ressources
- Évaluations de l'impact sur l'écosystème
- La gestion des zones protégées et de la protection de l'environnement
- La sensibilisation des populations locales aux problèmes de l'environnement.
- Développement des ressources locales et institutionnelles
- Conservation et gestion des ressources naturelles basée sur la participation locale
- L'implication de la population dans les projets de développement locaux à travers différentes actions sur le terrain.
- La formation dans les compétences ci-dessus mentionnées.

Le personnel et les conseillers-experts de la SEE ont une grande expérience des pays en voie de développement, en Afrique et en Asie. Par exemple, au Viêt-nam, au Népal, en Indonésie, en Malaisie, au Mozambique, au Kenya, en Tanzanie, au Rwanda et en Ouganda.

La SEE dispose de 40 collaborateurs permanents qui sont amenés à traiter diverses matières; par exemple: la gestion des ressources naturels basée sur la participation local, la protection de la biodiversité, la pêche traditionnelle, l'aquaculture, et l'agro-sylviculture.

A Sociedade para a Exploração Ambiental

Fundada em 1989, a Sociedade para a Exploração Ambiental (SEA) é uma organização não governamental (ONG) que opera na área profissional de consultoria em gestão ambiental e recursos naturais. SEA tem na sua história o envolvimento em conservação e gestão florestais, conservação faunística e gestão de áreas protegidas, desenvolvimento comunitário, gestão de pesca artesanal e gestão de zonas costeiras.

A SEA iniciou e geriu projectos no Sudeste Asiático, no América central bem como na África Oriental, tendo delegações nacionais no Tanzânia, Cambodia e Madagascar. SEA trabalhou com grupos de comunidades utilizadoras de recursos naturais a pedido de departamentos governamentais, companhias privadas, agências internacionais e outras ONGs. Estas colaborações são mundialmente conhecidas pelo nome e logotipo "Frontier".

A SEA oferece conhecimento específico e experiência enquanto organização vocacionada para uma forte implementação no terreno com grande capacidade logística, facetas estas realizadas em parceria com as comunidades e organizações de bases dos respectivos Países. A SEA tem créditos firmados (ver abaixo) em gestão de recursos naturais e desenvolvimento comunitário em ecossistemas florestais, de savana, marinhos e de água doce.

Áreas de trabalho

- Levantamentos de biodiversidade, seu mapeamento e controle.
- Levantamento e controle dos regimes de utilização de recursos naturais.
- Estudos de impacto ambiental.
- Planeamento de áreas protegidas e protecção ambiental.
- Sensibilização pública e educação ambiental.
- Fomento da capacidade de iniciativa ao nível das comunidades locais.
- Fomento da capacidade de iniciativa institucional.
- Conservação ambiental com participação das comunidades locais e gestão de recursos naturais.
- Exercícios participativos para orientação do desenvolvimento e conservação de participação comunitários.
- Treino em todas as áreas acima mencionadas.

O pessoal da SEA possui larga experiência de trabalho em países em desenvolvimento em África e Ásia, incluindo o Vietname, Nepal, Indonésia, Malásia, Moçambique, Quênia, Tanzânia, Ruanda, e Uganda. A SEA tem um quadro permanente de 40 especialistas em um vasto leque de disciplinas. Entre outras, há a mencionar gestão comunitária de recursos naturais, conservação de biodiversidade, pesca artesanal, aquacultura, agrosilvicultura e utilização sustentada da fauna bravia para o desenvolvimento rural.

SEE Staff Resources

SEE has a permanent team of staff and a pool of associates with experience of community mobilisation and training. This experience encompasses biodiversity surveys and conservation as well as the sustainability of natural resource use in tropical forests, grasslands, freshwater and marine ecosystems, including small island systems. Permanent technical and administrative staff based at SEE offices in London, UK, support all field teams. SEE staff include the following full-time personnel:

London Staff

Managing Director: Eibleis Fanning

Overseas Operations Unit

Operations Manager Keely Severn

Research & Development Unit

Research & Development Coordinator Dan Weaver

UK Operations Unit

Volunteer Coordinator Lee Travers

Expedition Recruitment Coordinator Claire Green

Marketing Manager Sasha Ramirez-Hughes

Marketing Officer Claire Prescott

Accounts Manager: Bobby Johal

The London office often has a number of interns working within each of the Units for six month periods. Regular intern positions include: UK Operations; Overseas Operations; Marketing; Research & Development.

Field Staff

Country Coordinator (CC)		
The role of the CC is to run the country headquarters office with overall administrative control including management of budgets, accounts, reporting procedures, deployments and supervision of local staff.	Tanzania	Michelle Hudson
	Madagascar	Hugh Felton
	Cambodia	Rachael Murton

Principal Investigator (PI)		
The role of the PI is to co-ordinate the research programme, involving overall supervision of the biological surveys and implementation of scientific work, data analysis and report writing.	Tanzania Savanna	Adam Seward
	Tanzania Marine	Luke Hately-Broad
	Madagascar Forest	Martina Petru
	Madagascar Marine	Nicola Brown
	Cambodia Forest	Kim Blasdell
	Fiji Marine	Lesley Brown
	CEPF Tanzania	Nisha Owen
	WWF Madagascar	Charlie Gardner

Research Officer (RO); Marine Research Officer (MRO)		
The role of the RO/MRO is to co-ordinate and implement field research under the supervision of the PI and undertaking scientific work, data analysis and report writing.	Madagascar Forest	Amrita Neelakan tan
	Madagascar Marine	Rob Mrowicki Stuart Higgs
	Tanzania Savannah	Heidi Mansell Eleanor Jew Sophie Gombeer
	Tanzania Forest	Victoria Wilkins Daniel Cox
	Tanzania Marine	Jack Clarke Lindsey West
	CEPF Tanzania	Victoria Wilkins Dan Cox
	Cambodia Forest	Nick Robl Sarah Jaffe
	Nicaragua Forest	Gayle Reddihough
	Fiji Marine	David Cooper Lucy-Gwen Gillis Helen Ake Nick Moss
Dive Officer (DO)		
The role of the DO is to manage all diving operations associated with the marine research programme, including the supervision of daily scuba and in-water activities and to ensure the proper maintenance of all dive equipment and boats.	Tanzania Marine	Emily Coates
	Madagascar Marine	Will Miller Jo Celer
	Fiji Marine	Alan Rees

Staff Capabilities

Name	Qualifications	Years of experience	Specialisation	Based in	Languages
Kim Blasdell	PhD	4	Infectious diseases, virology, ecology, animal behaviour	Cambodia	Fr
Rachael Murton	BSc	1	Biology	Cambodia	Fr
Nick Robl	MSc	3	Primate ecology and conservation	Cambodia	
Sarah Jaffe	MSc	5	Primate ecology and conservation	Cambodia	
Alan Rees	PADI Master SCUBA Diver Trainer	1	Human biology	Fiji	Fr
David Cooper	M.Res	2	Benthos, microbiology, marine ecology, aquatic biosciences	Fiji	Gr, Fr, Ar
Debbie Winton	MSc	1	Marine environmental protection	Fiji	Sp, Fr
Lucy-Gwen Gillis	BSc	1	Marine biology	Fiji	
Helen Ake	MSc	6 months	Marine mammals	Fiji	Sp, Fr
Nick Moss	BSc(Hons)	1		Fiji	Gr
Sara Siddig	BSc	6 months	Marine and freshwater biology	Fiji	Ar, Fr
Amrita Neelakantan	MSc	1	Forest regeneration	Madagascar	Hi, Sp
Jo Celer	PADI open water scuba instructor	2	Dive instruction	Madagascar	Po, Fr
Charlie Gardner	MSc	3	Ornithology, herpetology	Madagascar	Fr, Gr, Sp, MC, Kis, Kim
Hugh Felton	MSc		Tourism and conservation	Madagascar	Sp, Fr
Martina Petru	PhD	4	Plant ecology, geobotany, natural history, expedition	Madagascar	Sp, Ger,
Rob Mrowicki	MSc	1	Marine environmental protection	Madagascar	Fr

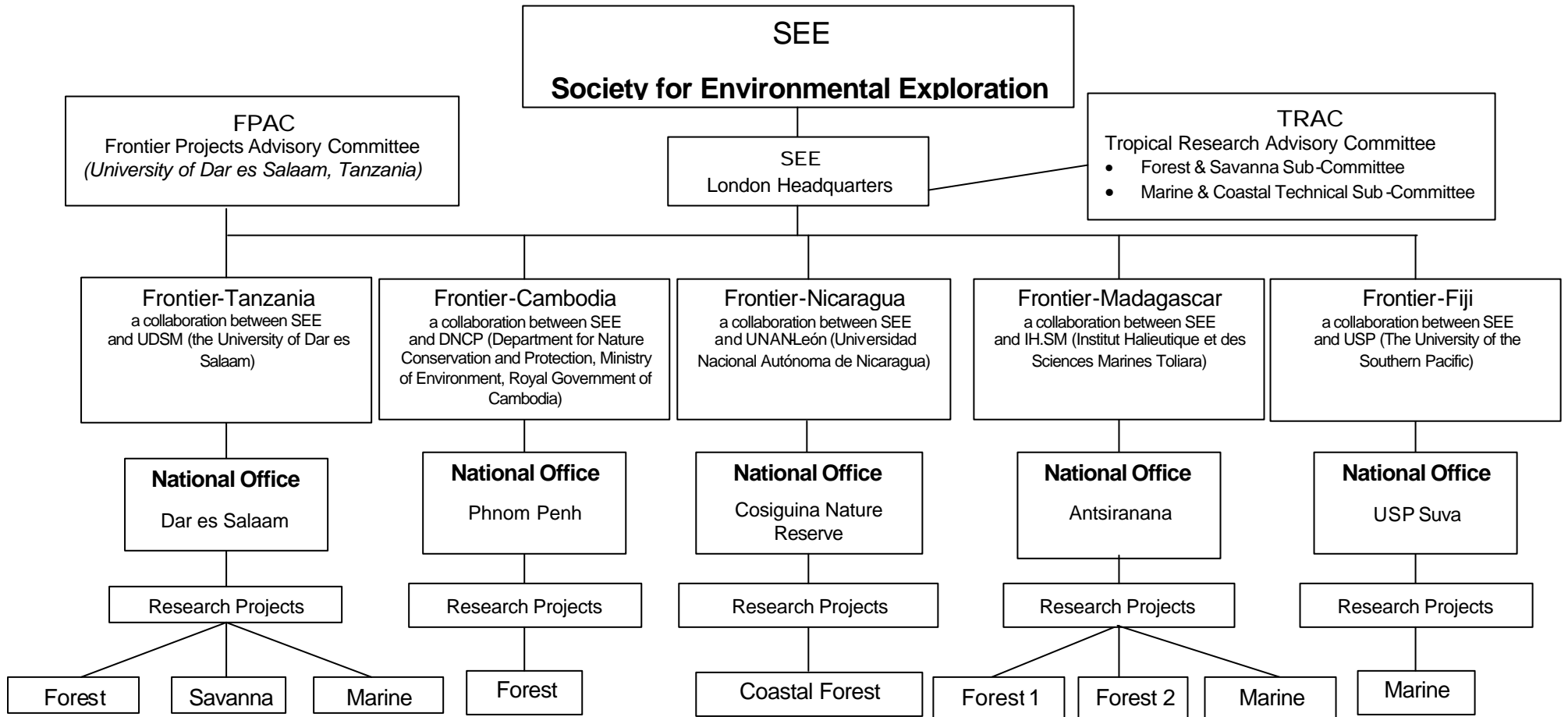
Name	Qualifications	Years of experience	Specialisation	Based in	Languages
Stuart Higgs	BSc, PADI advanced open water diver		Marine biology, diving	Madagascar	
Tamsyn Noble	BSc	1	Marine ecology	Madagascar	Fr
Martina Petru	PhD	8	Plant ecology, plant population dynamics	Madagascar	Cz, Ge, Sp, Fr
Gayle Reddihough	BSc	2	Biology and geography	Nicaragua	Fr, Sp, Swa
Hana Osman			Conservation and education	Nicaragua	
Stephanie Prentice	MA(Hons)	1	History, english, art	Nicaragua	
Adam Seward	MRes	3	Primate ecology	Tanzania	Fr Vie, Khe
Daniel Cox	BA	3	Expedition management, logistics	Tanzania	Kis
Eleanor Jew	MSc	2	Biodiversity and conservation	Tanzania	
Emily Coates	BSc	1	Materials science engineering	Tanzania	
Jack Clarke	BSc	1	Sustainable fisheries & waste management	Tanzania	Fr, Sp
Heidi Mansell	MSc	2	Biodiversity and conservation	Tanzania	
Lindsey West	BSc (Hons)	1	Behavioural ecology, epidemiology	Tanzania	Sp, Fr
Max Edkins	BSc	1	Zoology, marine zoology, photography	Tanzania	Gr, Se, Fr
Michelle Hudson	BA&Sc(Hons)	1	Operations management	Tanzania	Fr, Sp
Nisha Owen	MSc		Biodiversity and conservation	Tanzania	Sp
Sophie Gombeer	MSc	2	Zoology, microbiology	Tanzania	Du, Fr, Gr

Name	Qualifications	Years of experience	Specialisation	Based in	Languages
Bobby Johal	BSc	6	Accounts management	UK	Hi
Keely Severn	MSc	2	Primatology, taxonomy	UK	Indo
Dan Weaver	MSc	3	Primatology, tropical forest ecology, agricultural systems	UK	Fr, Ch, Mal, Gr
Helen Curtis	BSc	1	Sustainable management, geophysical processes	UK	Fr, Sp
Louise Durkin	BSc	6 months	Ecology and conservation	UK	Sp
Paul Ivory	BSc	1	Marine environmental science	UK	Sp
Paul Stephen	BSc	6 months	Environmental biology	UK	Fr
Rachel Jones	BSc	6 months	Environmental science	UK	Fr
Claire Prescott	BSc	6 months	Wildlife conservation	UK	Fr, Sp
Lola Adesanya	MSc	1	Environmental microbiology	UK	Fr
Li Dang	B InfSys	6 months	Marketing	UK	Ca, Vi
Kirstin Fulton	MA	3	Education development and literacy	UK	Fr, Sp
Claire Green	BSc	6 months	Biology	UK	Fr, Sp
Shireen Darabi		6 months	Marketing	UK	Sp, Fr
Lee Travers	MSc	1	Conservation and biodiversity	UK	Fr, Sw
Sasha Hughes	MSc	3	NGO management, and development, marketing, IT	UK	Fr, Sp

Key:

Gr = German, Ar = Arabic, Fr = French, Sp = Spanish, Kis = Kiswahili, Hi = Hindi, Se = Sesotho, MC = Mauritian Creole, Kim = Kimaasai, Mal = Malagasy, Du = Dutch, Ru = Russian, Indo = Indonesian, Ch = Chichewa, Gr = Greek, Po = Polish, Cz = Czech, Ca = Cantonese, Vi = Vietnamese

Organisational Structure



Resources

Country	UK	Tanzania	Nicaragua	Fiji	Cambodia	Madagascar
Country office	Society for Environmental Exploration headquarters	Country office in Dar es Salaam	Country office in Leon	Country Office in Suva	Country office in Phnom Penh	Country office in Antsiranana
References	Small development research library	Access to library facilities of the University of Dar es Salaam	Access to library facilities, laboratory and GIS facilities of UNAN-Leon	Access to library facilities of the University of the South Pacific Suva	Access to library facilities of the Department for Nature Conservation and Protection Phnom Penh	Access to library facilities of the Institut Halieutique et des Sciences Marines, University of Toliara
Computing and office facilities	Networked computing system with desk top publishing	Computing and office facilities with desk top publishing	Computing and office facilities with desk top publishing	Computing and office facilities with desk top publishing	Computing and office facilities with desk top publishing	Computing and office facilities with desk top publishing
Communication	Phone, fax, email	Phone, fax, email, HF radio, hand held VHF radios. Satellite phone	Phone, email, satellite phone	Phone, email, HF radio, hand held VHF radios	Phone, fax (email available), mobile phone	Phone, fax, email, HF radio, hand held VHF radios. Satellite phone

Administrative staff	Research, Development and Overseas Operations Managers; Recruitment, Accounting, Marketing and Administration	Country Coordinator x 1 Logistics Manager x 1	Research Coordinator x 1	Research Coordinator x 1	Country Coordinator x 1	Country Coordinator x 1
Staff accommodation	Accommodation arranged as necessary	Accommodation for 4 personnel	Accommodation for 2 personnel	Accommodation for 2 personnel	Accommodation for 4 personnel	Accommodation for 10 personnel
Vehicle	1 x car	1 x Toyota Landcruiser 1 x Bedford truck 1 x rigid hulled inflatable boat; 1 x wooden launch	1 x bicycle	2 x rigid hulled inflatable boats	1 x river boat and outboard	2 x bicycles 4 x rigid hulled inflatable boats
SCUBA equipment	N/A	SCUBA facilities for 15-20 personnel	N/A	SCUBA facilities for 20-25 personnel	N/A	SCUBA facilities for 25 personnel

Project Summary Table

Project Title	Country	Dates	Funding	Value (US\$)	Main Disciplines	Associated Organisation
CAMBODIA- FOREST						
Ream National Park Biodiversity Assessment and Training Project	Cambodia	2004-2005	SEE	49,735	Biodiversity survey, land-use/cover and vegetation mapping, socio-economic studies and disturbance transects	Department for Nature Conservation and Protection, Ministry of Environment, Royal Government of Cambodia
Biodiversity Assessment of Botum Sakor National Park	Cambodia	2005 -	SEE	ongoing	Biodiversity surveys; resource-use assessments; community-based awareness activities	Department for Nature Conservation and Protection, Ministry of Environment, Royal Government of Cambodia
Public Awareness and Eco-tourism Materials for Cambodia	Cambodia	2005-2006	PADI	3,944	Publication of biodiversity awareness posters and butterfly field guide for south west Cambodia	Department for Nature Conservation and Protection, Ministry of Environment, Royal Government of Cambodia
FIJI - MARINE						
Raising Awareness of Turtle Conservation through Environmental Education	Fiji	2007 -	SEE PADI	1,220	Community education, sustainable resource use	University of the South Pacific International Ocean Institute – Pacific Islands
Biodiversity Assessment of the Marine protected areas of the Island of Gau	Fiji	2006-	SEE	ongoing	Biodiversity surveys, ecological monitoring, community education, sustainable resource use	University of the South Pacific International Ocean Institute – Pacific Islands

MADAGASCAR- FOREST						
Biodiversity Survey of Proposed Parc Regional de Belomotse	Madagascar	2001-2002	SEE	95,900	Biodiversity survey, resource use assessment, ecological monitoring, tourism feasibility study, training	Institut Halieutique et des Sciences Marine, Toliara WWF Dry Forest Programme

Project Summary Table

Project Title	Country	Dates	Funding	Value (US\$)	Main Disciplines	Associated Organisation
Biodiversity Survey of the Southern Mikea	Madagascar	2002-2005	SEE	80, 000	Biodiversity survey, resource use assessment, ecological monitoring, tourism feasibility study, training	Institut Halieutique et des Sciences Marine, Toliara WWF Dry Forest Programme
Biodiversity Survey of the Montagne des Francaise Region	Madagascar	2005 - 2006	SEE	35,500	Biodiversity, resource use and disturbance surveys; assessment of biological value of forest	Institut Halieutique et des Sciences Marine, Toliara
CBC Southern Mikea Project	Madagascar	2006-	CI WWF SEE	19,000	Biodiversity and resource use surveys, development of zoning proposal, education materials, research plan and training plan	Institut Halieutique et des Sciences Marine, Toliara WWF-Toliara Office
MADAGASCAR- MARINE						
Madagascar Marine Biodiversity Training Project	Madagascar	2001-2002	Darwin Initiative SEE	77,761	Training in sustainable resource use, marine biodiversity survey and monitoring methods, development of permanent habitat monitoring plan	Institut Halieutique et des Sciences Marine, Toliara
Madagascar Coastal Natural Resource Assessment	Madagascar	2002	SEE	120,000	Assessment of natural resource use including intertidal and shark fisheries.	Institut Halieutique et des Sciences Marine, Toliara
Madagascar Marine Biodiversity and Natural Resource Assessment	Madagascar	2002-2005	SEE	270, 000	Biodiversity survey, 'Bay-Watch' programme set up, habitat mapping, intertidal surveys, environmental education classes and training	Institut Halieutique et des Sciences Marine, Toliara

Project Summary Table

Project Title	Country	Dates	Funding	Value (US\$)	Main Disciplines	Associated Organisation
Marine Biodiversity Assessment of La Baie de Diego-Suarez	Madagascar	2005 -	SEE	ongoing	Biodiversity surveys, ecological monitoring, community education, sustainable resource use	Institut Halieutique et des Sciences Marine, Toliara
Marine Environment Awareness Raising and Educational Workshops Project	Madagascar	2006	PADI SEE	986	Environment education workshop series directed at different stakeholder groups to provide easy access to information on marine habitats	Institut Halieutique et des Sciences Marine, Toliara
MOZAMBIQUE						
Marine Biodiversity and Resource-Use Survey of Quirimba Archipelago	Mozambique	1996-1998	Darwin Initiative, SEE	350,000	Biodiversity survey, ecological monitoring, community education, land-use-zonation, sustainable fisheries resource use, training	Tropical Marine Research Unit, University of York; Ministry for the Co-ordination of Environmental Affairs (MICOA)
NICARAGUA-COASTAL FOREST						
Volcán Cosiguina Biodiversity Research Project	Nicaragua	2004	SEE	42,000	Biological survey techniques, resource use and ecological research and monitoring, surveys of fish species diversity and richness, socio-economic analyses	Fundación Luchadores Integrados al Desarrollo de la Región (LIDER); Universidad Nacional Autónoma de Nicaragua-Leon (UNAN-Leon)

Project Summary Table

Project Title	Country	Dates	Funding	Value (US\$)	Main Disciplines	Associated Organisation
Biodiversity Research in Protected Areas of Northwest Nicaragua	Nicaragua	2005-	SEE	ongoing	Biological survey techniques, resource use and ecological research and monitoring, surveys of fish species diversity and richness, socio-economic analyses	Fundación Luchadores Integrados al Desarrollo de la Región (LIDER); Universidad Nacional Autónoma de Nicaragua-Leon (UNAN-Leon)
Capacity Building for Sustainable Management of the Nicaraguan Pacific North Region	Nicaragua	2005 - 2006	Darwin Initiative, SEE	120,000	Capacity building through implementation of BTEC training programme for local and regional participants; initiation of terrestrial and coastal monitoring schemes	LIDER; UNAN-Leon; Ministry of Environment and Natural Resources (MARENA); SELVA
TANZANIA- FOREST						
Rufiji Delta Hydrodynamics Research Programme	Tanzania	1989-1993	SEE	60,000	Hydrodynamic and hydrographic surveys and remote sensing analysis	University of Dar es Salaam University of Plymouth
East Usambara Biodiversity Surveys	Tanzania	1995-2002	FINNIDA	440,500	Tropical forest biodiversity survey, ecological monitoring, zonation, training	University of Dar es Salaam East Usambara Catchment Forest Project
Mahenge Mountains Biodiversity Survey	Tanzania	2003	SEE	68,000	Biological and resource use survey, exploration of migratory corridors, training (BTEC), community environmental awareness raising	University of Dar es Salaam; Forestry and Beekeeping Division, Ministry of Natural Resources and Tourism, Tanzania

Project Summary Table

Project Title	Country	Dates	Funding	Value (US\$)	Main Disciplines	Associated Organisation
Uluguru Biodiversity Assessment Project	Tanzania	2004-2005	CARE-Tanzania; GEF-UNDP	75,000	Biodiversity, resource use and disturbance surveys; assessment of biological value of forest	University of Dar es Salaam Conservation and Management of Eastern Arc Mountain Forests project
The Forgotten Coastal Forests of Mtwara	Tanzania	2005-2006	CEPF	39,555	Biodiversity resource use and disturbance surveys; prioritise conservation areas; community-based conservation initiatives	University of Dar es Salaam, Forest and Beekeeping Division, Wildlife Conservation Society of Tanzania
Biodiversity Research and Awareness in the Eastern Arc Mountains	Tanzania	2005-	CEPF	235,000	Biodiversity, resource use and disturbance surveys; assessment of biological value of Catchment Forest Reserves	University of Dar es Salaam, Forest and Beekeeping Division, WWF-TPO, Natural History Museum of Trento
TANZANIA- MARINE						
Mafia Island Marine Park - Development of a Management Strategy	Tanzania	1989-1995	SEE	280,000	Biodiversity survey, ecological monitoring, community education, land-use-zonation, sustainable fisheries resource use, training	University of Dar es Salaam; Institute of Marine Science, Zanzibar
Marine Biodiversity and Resource-Use Survey of the Songo Songo Archipelago	Tanzania	1995-1996	NORAD	70,000	Fisheries survey and monitoring, resource use assessment, community based monitoring and training	University of Dar es Salaam
Mnazi Bay Marine Monitoring Programme	Tanzania	1996-1998	SEE	102,750	Biodiversity survey, ecological monitoring, community education, land-use zonation, sustainable fisheries resource use, training	University of Dar es Salaam; Ministry of Tourism, Natural Resources and the Environment

Project Summary Table

Project Title	Country	Dates	Funding	Value (US\$)	Main Disciplines	Associated Organisation
Permanent Monitoring of Mnazi Bay	Tanzania	1996-1999	CORDIO	6,000	Marine biodiversity and fisheries monitoring, design of permanent monitoring programme	Institute of Marine Sciences, University of Dar es Salaam
Marine Biodiversity and Resource Assessment of Mtwara, Lindi and Kilwa Districts	Tanzania	1997-2001	RIPS through FINNIDA, SEE	401,000	Biodiversity survey, ecological monitoring, community education, land-use zonation, sustainable fisheries resource use, training	University of Dar es Salaam; Ministry of Tourism, Natural Resources and the Environment
Marine Training and Education Programme	Tanzania	1998-1999	BHC, WWF, SEE	35,000	Training in ecology, marine resources, marine biological survey techniques, fisheries data collection and management, educational training and awareness for school children	University of Dar es Salaam
Menai Bay Training and Reef Survey Project	Tanzania	2000	WWF	17,000	Underwater survey and dive training, guidebook production	University of Dar es Salaam
Dar Marine Reserves Resource Use Impact Assessment Project	Tanzania	2000	MPRU	4,000	Resource use assessment	Marine Parks and Reserves Unit (MPRU) University of Dar es Salaam
Mafia Island Marine Park – Environmental Education and Awareness in the local Community	Tanzania	2007 -	SEE PADI	1,485	Community education, sustainable resource use.	University of Dar es Salaam

Pemba Island Marine Research Project	Tanzania	2001-2004	SEE	370,000	Marine biodiversity survey, design of permanent monitoring programme, training in marine ecology, marine resources and marine biological survey techniques, educational training and community awareness raising.	Ministry of Natural Resources Environment Co-operatives, Zanzibar University of Dar es Salaam, Institute of Marine Sciences; Misali Island Conservation Association
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Project Summary Table

Project Title	Country	Dates	Funding	Value (US\$)	Main Disciplines	Associated Organisation
Marine Environmental Education and Training Project: Pemba	Tanzania	2002-2003	DfID (SGS)	22,000	Environmental education and awareness for school children and teachers, training in marine ecology, marine resources and marine biological survey techniques, Btec in Tropical Habitat Conservation, fisheries data collection and management	University of Dar es Salaam, Department of Commercial Crops Fruits and Forestry and Department of Fisheries and Marine Products Institute of Marine Sciences, Zanzibar
Biodiversity Surveys of Mikindani Bay	Tanzania	2005	SEE	ongoing	Biodiversity surveys; resource-use assessments; community education initiatives; comparative analysis with data from previous years surveying	University of Dar es Salaam
Biodiversity Surveys of Mafia Island Marine Park	Tanzania	2006-	SEE	ongoing	Biodiversity surveys; resource-use assessments; community education initiatives; comparative analysis with data from historical data set (Frontier Tanzania Marine project 1989-1995)	University of Dar es Salaam

Project Summary Table

Project Title	Country	Dates	Funding	Value (US\$)	Main Disciplines	Associated Organisation
TANZANIA - SAVANNA						
Kilombero Valley Integrated Environmental Management Programme	Tanzania	1998-2002	National Lottery Charities Board (UK)	550,000	Biodiversity survey and monitoring, fisheries monitoring and assessment, woodland classification, environmental education, community development and capacity building	University of Dar es Salaam; Ulanga Foundation for Environment and Development Activities University College of Land and Architectural Studies
Kilombero Valley Biological Surveys	Tanzania	2001-2004	Kilombero Valley Teak Company	65,000	Large mammal monitoring, assessment of miombo woodland earmarked for conversion to teak plantation	University of Dar es Salaam
Kipengere Proposed Game Reserve Biodiversity Survey	Tanzania	2002 - 2003	WWF SEE	74,000	Biodiversity assessment, training	WWF Tanzania; Wildlife Division, Tanzania; University of Dar es Salaam
Tanganyika Wattle Co. Ltd Environmental Education Course (TWEEC)	Tanzania	2004	Tanganyika Wattle Company Ltd	7, 000	Training of 15 Tanganyika Wattle Company Ltd staff in good environmental practice	Tanganyika Wattle Company Ltd
Kilombero Valley Biological Surveys	Tanzania	2004-	Kilombero Valley Teak Company SEE	Ongoing	Large mammal monitoring, assessment of miombo woodland earmarked for conversion to teak plantation	University of Dar es Salaam

Project Summary Table

Project Title	Country	Dates	Funding	Value (US\$)	Main Disciplines	Associated Organisation
UGANDA						
Wildlife Protected Areas Project	Uganda	1993-1998	SEE	385,000	Biological and socio-economic survey, ecological research and monitoring	Makerere University Institute of Environment and Natural Resources and the Department of Zoology;
Ssesse Islands Biodiversity Project	Uganda	1997-1998	SEE	77,500	Biological and socio-economic survey, ecological research and monitoring	Wildlife Clubs of Uganda, District Natural Resource Management Authorities
VIETNAM						
Biodiversity Conservation in Protected Forest Areas, northern Vietnam	Vietnam	1993-2003	SEE; HSBC; Cable & Wireless; BP	510,000	Tropical forest biodiversity survey and monitoring, ecological research and monitoring, land-use and biodiversity zonation, training	Institute of Ecology and Biological Resources
Integrated Environmental Education Program in Hoang Lien Mountains National Reserve	Vietnam	1998-1999	Royal Dutch Embassy, SEE	27,500	Environmental education through reading material, workshops and training sessions and tourism feasibility study	Sa Pa District Peoples Authority
Medicinal & Ornamental Plant Production, Sa Pa District	Vietnam	1998-2001	New Zealand Embassy	25,000	Feasibility study, species selection, production trial, community survey, stakeholder workshops, consultation	San Sa Ho & Lao Cai Commune Farmers; Medicinal Plant Centre, Sa Pa & Ham Rong Tourism Project
International Training Scheme	Vietnam	1998-2003	English Speaking Union, UK	11,000	Training in issues of sustainable forest use, community resource management	Institute of Ecology and Biological Resources; Hoang Lien Song Nature Reserve

Project Summary Table

Project Title	Country	Dates	Funding	Value (US\$)	Main Disciplines	Associated Organisation
Sa Pa Integrated Environmental Education Project	Vietnam	2001-2004	National Lottery Charities Board (UK)	300,000	Environmental education through curriculum development and awareness raising, capacity building , income generation	Institute of Ecology and Biological Resources; Sa Pa District Department of Education and Training; Sa Pa District Youth Association; Sa Pa District Farmers Association
Huu Lien Nature Reserve Environmental Education Project	Vietnam	2001	CfBT / English Speaking Union SEE	3,838	Development of environmental education manual, training for teachers in environmental education, environmental awareness raising	Institute of Ecology and Biological Resources; Huu Lung District Department of Education and Training
Bai Tu Long Bay Biodiversity Awareness Project	Vietnam	2001-2003	Darwin Initiative SEE	207,620	Biodiversity awareness raising, biodiversity interpretation centre, production of field guides, training in biodiversity identification and monitoring	Institute of Ecology and Biological Resources; Institute of Oceanography, Hanoi / Haiphong
Medicinal Plants Innovation Project	Vietnam	2003 - 2004	NZAID (ADAF)	44,500	Feasibility study, species selection, production trial, community survey, stakeholder workshops, consultation	Forest Herbs Research Ltd.; Sa Pa District Peoples Committee

Project Summary Sheet

<p><i>Project name:</i> Ream National Park Biodiversity Assessment and Training Project</p>	<p><i>Country:</i> Cambodia</p>	
<p><i>Project location within country:</i> Ream National Park (also known as Preah Sihanouk National Park)</p>	<p><i>Collaboration name:</i> Frontier -Cambodia</p>	
<p><i>Name of client:</i> N/A</p>	<p><i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)</p>	
<p><i>Start date:</i> January 2004</p>	<p><i>Completion date:</i> March 2005</p>	<p><i>Approx. value of services:</i> US\$ 49,735</p>
<p><i>Name of associate if any:</i> Department for Nature Conservation and Protection (Ministry of Environment, Royal Government of Cambodia)</p>	<p><i>No. of professional staff provided by associate:</i> 4</p>	
<p><i>Staff involved and functions performed:</i> Michelle Owen – Country Coordinator Alexandra Wortley – Research Coordinator Philip Cowling – Logistics Manager Yalda Davis – Assistant Research Coordinator Andrew Rodrigues – Assistant Research Coordinator Wendy McFarlane – Assistant Research Coordinator</p>	<p><i>No. of professional staff provided by SEE:</i> 6</p>	
<p>AIM To improve biological knowledge of the mammals, birds, reptiles, amphibians, butterflies, vegetation and management capacity in Ream National Park and promote sustainable use of biodiversity and ecosystems.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To demonstrate, through biodiversity and resource-use surveys, the scientific and ecological value of the National Park and its inhabitants, leading to further incentives for future eco-tourism initiatives • To provide training and capacity building activities for National Park staff to learn and execute strategies for improved park management and conservation • To provide awareness raising activities to empower local stakeholder communities with knowledge on how to benefit from and contribute to biodiversity conservation. • To facilitate the progress of the projects through regular meetings and culmination of a final report 		

OUTPUTS

- Undertook biodiversity and resource use surveys of the forest ecosystems of Ream National Park
- Identified range extensions of breeding area for Lesser Adjutant
- Identified major turtle breeding area and populations, possibly most important in the country
- Organised two litter pick days conducted by staff and representatives from the local community. Increased local awareness of the marine ecosystem and collected significant amounts of waste materials. (Funded by PADI Project AWARE).
- Training for overseas volunteers in baseline biological surveys and training of 6 National Park staff.
- Vegetation assessments of the regeneration of secondary forest areas and presence of endemic species.
- Articles submitted for publication focussing on: Great Hornbill, wetland birds, snake species, regenerating forests.
- Presentation given to local stakeholders discussing results of the research and zoning recommendations.

Project Summary Sheet

<i>Project name:</i> Biodiversity Assessment of Botum Sakor National Park	<i>Country:</i> Cambodia
<i>Project location within country:</i> Botum Sakor National Park	<i>Collaboration name:</i> Frontier -Cambodia
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> March 2005	<i>Completion date:</i> Ongoing
<i>Approx. value of services:</i> US\$ Ongoing	
<i>Name of associate if any:</i> Department for Nature Conservation and Protection (Ministry of Environment, Royal Government of Cambodia)	<i>No. of professional staff provided by associate:</i> 4
<i>Staff involved and functions performed:</i> Rachael Murton – Country Coordinator Dr. Kim Blasdell – Research Coordinator Amanda Greer – Assistant Research Coordinator Ms Eleanor Lightowlers – Volunteer Assistant Research Coordinator Ms Elizabeth Deakin – Volunteer Assistant Research Coordinator	<i>No. of professional staff provided by SEE:</i> 3

AIM

To aid management of Botum Sakor National Park through a programme of biodiversity and resource-use surveys, training and capacity building of National Park staff and raising environmental awareness of stakeholder communities.

OBJECTIVES

- To produce an inventory of species diversity (mammals, birds, reptiles, amphibians, butterflies, plants)
- To build the capacity of the Botum Sakor National Park staff to establish ecological monitoring programmes for each site
- To conduct environmental education in local communities
- To contribute ecological and other information to the national environmental GIS, notably in relation to the forests and coastal zone.

OUTPUTS

- Biodiversity assessments of sites in Botum Sakor National Park
- Rapid biodiversity assessments in remote areas of the Park
- Community awareness raising workshops
- Initiation of school awareness project.
- Fisheries work

Project Summary Sheet

<p><i>Project name:</i> Biodiversity Assessment of the Marine protected areas of the Island of Gau</p>	<p><i>Country:</i> Fiji</p>
<p><i>Project location within country:</i> The Island of Gau</p>	<p><i>Collaboration name:</i> Frontier -Fiji</p>
<p><i>Name of client:</i> N/A</p>	<p><i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)</p>
<p><i>Start date:</i> <i>Completion date:</i> April 2006 Ongoing</p>	<p><i>Approx. value of services:</i> US\$ Ongoing</p>
<p><i>Name of associate if any:</i> The University of the South Pacific International Ocean Institute - Pacific Islands (IOI - PI)</p>	<p><i>No. of professional staff provided by associate:</i> 1</p>
<p><i>Staff involved and functions performed:</i> Dr. Carly Brooks - Assistant Marine Research Coordinator Mr. Harry Rousham - Assistant Marine Research Coordinator Mr David Cooper - Assistant Marine Research Coordinator Ms Debbie Winton - Volunteer Assistant Marine Research Coordinator Ms. Sarah Hart - Dive Officer Mr Garry Phillips - Dive Officer</p>	<p><i>No. of professional staff provided by SEE:</i> 6</p>
<p>AIM To better understand the marine resources of the island, and to provide teaching and training to enable communities to make informed decisions regarding the management of their coastal ecosystems</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To conduct scientific baseline data surveys of reef areas, mapping the coral reef, sea grass beds and mangrove fringes of the region • To identify current patterns of resource use and dependence levels by local communities. • To work with local communities to build awareness of the value and vulnerability of these fragile marine ecosystems and to produce recommendations for the sustainable management of these important resources. 	

OUTPUTS

- Biodiversity survey and conservation evaluation
- Identification of biodiversity conservation needs
- Training in biodiversity survey techniques
- Production of a Marine research methodology training manual; technical reports and scientific papers

Project Summary Sheet

<i>Project name:</i> Raising Awareness of Turtle Conservation through Environmental Education	<i>Country:</i> Fiji
<i>Project location within country:</i> The Island of Gau	<i>Collaboration name:</i> Frontier -Fiji
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE) PADI Project Aware
<i>Start date:</i> April 2007	<i>Completion date:</i> Ongoing
<i>Name of associate if any:</i> The University of the South Pacific International Ocean Institute - Pacific Islands (IOI - PI)	<i>Approx. value of services:</i> US\$ 1220
<i>Staff involved and functions performed:</i> Mr. David Cooper – Marine Research Officer Ms. Lucy-Gwen Gillis – Marine Research Officer Ms. Helen Ake – Marine Research Officer Mr. Nick Moss – Marine Research Officer Ms. Debbie Winton – Marine Research Officer Ms. Sarah Siddig – Marine Research Officer Mr. Alan Rees – Dive Officer	<i>No. of professional staff provided by associate: 1</i> <i>No. of professional staff provided by SEE: 7</i>
<p>AIM To promote the importance of turtle conservation on the island of Gau through education in local schools and to stakeholder groups, reducing impacts of unsustainable hunting on green and hawksbill turtles.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To distribute teaching materials to local schools in order to implement conservation awareness programs at all age levels. • To encourage local community groups and decision makers to police nearby nesting areas, through the provision of workshop materials. • To locate nesting beaches on the island of Gau and create seasonally protected areas, policed by volunteers from the local community. 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> • Increased awareness in the local community of the need for conservation measures to protect Green and Hawksbill turtles. • Reduced pressure on turtle populations from unsustainable harvesting practices. • Implementation of seasonal policing of nesting beaches to minimise egg collection. 	

Project Summary Sheet

<i>Project name:</i> Biodiversity Survey of Proposed Parc Regional de Belomotse	<i>Country:</i> Madagascar
<i>Project location within country:</i> Parc Regional de Belomotse, Toliara Province, SW Madagascar	<i>Collaboration name:</i> Frontier -Madagascar
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> July 2001	<i>Completion date:</i> Sept 2002
<i>Approx. value of services:</i> US\$ 95,900 per annum	
<i>Name of associate if any:</i> Institute Halieutique et des Sciences Marines (IH.SM) WWF Dry Forest Programme	<i>No. of professional staff provided by associate:</i> 2
<i>Staff involved and functions performed:</i> Mr David Emmett – Project Coordinator Ms Annette Olson – Research Coordinator Katie Bloxham – Assistant Research Coordinator David Henson - Assistant Research Coordinator Esther Ball - Assistant Research Coordinator Hannah Thomas – Logistics Manager	<i>No. of professional staff provided by SEE:</i> 6

AIM

To provide information on the biological value and importance of survey areas within the Spiny Forest Eco-region, SW Madagascar, in order to identify sites of biological conservation importance.

OBJECTIVES

- To conduct biodiversity surveys and develop standardised survey and monitoring techniques
- To produce baseline biodiversity research and ecological data for mammals, birds, reptiles, amphibians, butterflies and other selected invertebrates
- To map vegetation as a basis for ecological monitoring
- To conduct socio-economic impact and resource-use assessment appraisals in the local communities
- To collect socio-economic information from the communities living in and around the survey sites, identifying threats to conservation in the designated areas, investigating the underlying causes of these threats, identifying possible solutions and assessing the effectiveness of potential conservation measures
- To provide training to students of the University of Tuléar in all aspects of survey and monitoring techniques
- To prepare a manual containing technical training techniques for surveys of key taxonomic groups
- To store data on a database with GIS facilities
- To investigate resource use in the area and the potential for the development of tourism

OUTPUTS

- Biodiversity survey and conservation evaluation
- Identification of biodiversity conservation needs
- Training in biodiversity survey techniques
- Production of a Forest research methodology training manual; technical reports, land-use and biodiversity zonation maps and scientific papers
- Wetland biodiversity and resource use summary resulting in resource use appraisal

Project Summary Sheet

<i>Project name:</i> Biodiversity survey of the Southern Mikea	<i>Country:</i> Madagascar
<i>Project location within country:</i> Southern Mikea, Toliara Province, Southwest Madagascar	<i>Collaboration name:</i> Frontier Madagascar
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> Sept 2002	<i>Completion date:</i> March 2005
<i>Approx. value of services:</i> US\$ 80, 000	
<i>Name of associate if any:</i> Institute Halieutique et des Sciences Marines (IH.SM) WWF Dry Forest Programme	<i>No. of professional staff provided by associate:</i> 2
<i>Staff involved and functions performed:</i> Ms Hannah Thomas – Project Coordinator Mr Darren Kidney – Research Coordinator Neil D' Cruze – Research Coordinator Phil Cowling – Logistics Manager Jeremy Sabel – Assistant Research Coordinator David Wright – Assistant Research Coordinator Jeffrey Dawson – Assistant Research Coordinator Chris Hallam – Assistant Research Coordinator	<i>No. of professional staff provided by SEE:</i> 8
<p>AIM To provide information on the biological value and importance of survey areas within the spiny forest eco-region of southwest Madagascar, in order to identify sites of biological conservation importance as part of the WWF Dry Forest Programme's regional management plans.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • Collection of baseline biodiversity work to provide species lists of the floral and fauna of the region enabling • collection of ecological data for mammals, birds, reptiles, amphibians, butterflies and other selected invertebrates • vegetation types mapped and the vegetation species composition recorded • socio-economic appraisal of the impact of the local communities on resources • feasibility for ecotourism development 	

OUTPUTS

- Training in biodiversity survey, resource use and ecological monitoring
- Confirmation of the existence of *Mungotictis decemlineata lineata*
- Core conservation areas identified for suggested protected status of Southern Mikea based on implications of resource-use (logging, hunting, forest clearing for agriculture) on biodiversity
- Findings of high diversity of herpetofauna, bird and bat species
- Technical report; articles for publication produced

Project Summary Sheet

<i>Project name:</i> Biodiversity Survey of the Montagne des Francaise Region	<i>Country:</i> Madagascar
<i>Project location within country:</i> Montagne des Francaise Region	<i>Collaboration name:</i> Frontier-Madagascar
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> April 2005	<i>Completion date:</i> Ongoing
<i>Approx. value of services:</i> US\$ Ongoing	
<i>Name of associate if any:</i> Institute Halieutique et des Sciences Marines (IH.SM)	<i>No. of professional staff provided by associate:</i> 2
<i>Staff involved and functions performed:</i> Mr Hugh Felton – Country Coordinator Ms Polly Mitchell – Research Coordinator Ms Sally Eaton – Assistant Research Coordinator	<i>No. of professional staff provided by SEE:</i> 3
<p>AIM To provide information on the conservation and biodiversity value, and natural resource use of these forests to assist in the development of joint forest and protected area management plans.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To conduct baseline biodiversity surveys and evaluations in selected gazetted forest reserves. • To develop a system for monitoring aspects of biodiversity, both on a general as well as a forest specific level. • To provide training for Malagasy personnel from institutions such as the Institut Halieutique et des Sciences Marine (IH.SM) of Toliara, to improve their capacity to collect baseline forest survey data and to conduct future long-term monitoring of the forests. • To facilitate environmental education programmes and develop sustainable livelihood options. 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> • Biodiversity assessments of the Montagne des Francaise Region • Data collection on <i>Uroplatus</i> species and monitoring of behaviour. • Assessments of the herpetofauna of the area 	

Project Summary Sheet

<i>Project Name:</i> CBC Southern Mikea Project	<i>Country</i> Madagascar
<i>Project location within country:</i> The Southern Mikea Region	<i>Collaboration name:</i> Frontier-Madagascar
<i>Name of client:</i> WWF	<i>Financed by (if different from client):</i>
<i>Start date:</i> April 2006	<i>Completion date:</i> Ongoing
	<i>Approx. value of services:</i> US\$ 19000
<i>Name of associate if any:</i> Institute Halieutique et des Sciences Marines (I.H.SM)	<i>No. of professional staff provided by associate</i>
<i>Staff involved and functions performed:</i> Charlie Gardner – Principle Investigator	<i>No. of professional staff provided by SEE: 1</i>
<p>AIM</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To make available and comprehensible their ecological and socio-economic data on the Southern Mikea region in the form of relevant Frontier-Madagascar Environmental Report series publications. This includes the Southern Mikea Biodiversity Report • To contribute to the elaboration of the PGC (Management & Conservation Plan) through presentation of ecological data and analysis to be done as part of the workshop series. • To develop a detailed research plan at the end of the first phase. • To do heterogeneity analysis and mapping using GIS to produce a zoning plan. • To contribute to the environmental communication and education plan by producing an 'Education pack', especially on the importance of biodiversity. • To contribute to the development of a management plan for phase two of the project. • To synthesise all existing ecological research on habitats found within the future protected area in the form of a literature review. • To contribute to the synthesis of exiting socio-economic research covering the region within the future protected area's management plan using data from Frontier-Madagascar socio-economic surveys published in the report series. • To support the identification and analysis of sites with eco-tourism potential based on the outcome of the provisional zoning research plan. • To prepare a strategy document at the end of the year in combination with training and research plan for the long term sustainability of the ecological follow-up and monitoring programme and to develop fund-raising opportunities. This will be further developed in the second phase. • To maintain regular communications with the Project Chief as well as the Ecoregional Leader and Research and Training Manager – Ala Maiky Programme, in order to ensure coherence and consistency in the implementation of the project. 	

OUTPUTS

- Research Plan
- Education Pack
- Synthesis document
- Zoning Proposal
- Training Plan
- Proposal for phase two
- Half yearly reports

Project Summary Sheet

<i>Project name:</i> Marine Biodiversity and Resource Assessment of Anakao coastline	<i>Country:</i> Madagascar
<i>Project location within country:</i> Toliara region, south west Madagascar	<i>Collaboration name:</i> Frontier -Madagascar
<i>Name of client:</i> Institut Halieutique et des Sciences Marine; Environment Marine et Cotier (EMC); Department of l'Office National Pour L'environnement (ONE)	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> January 2000	<i>Completion date:</i> December 2002
<i>Approx. value of services:</i> US\$ 240,000	
<i>Name of associate if any:</i> Institute Halieutique et des Sciences Marines (IH.SM)	<i>No. of professional staff provided by associate:</i> 2
<i>Staff involved and functions performed:</i> Ms Chloe Webster - Project Coordinator Mr Andy Woods-Ballard – Research Coordinator	<i>No. of professional staff provided by SEE:</i> 2
<p>AIM To undertake sub-tidal, inter-tidal, and mangrove surveys to provide data for an integrated coastal zone management plan for the Anakao region.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> To train Malagasy marine scientists and fisheries officers from the region to provide a core of local expertise. To facilitate a programme of public awareness raising and training in the field of sustainable fisheries resource use. To implement a participatory monitoring programme, by trained district officers and local community members, to assess the impact of locally initiated sustainable fisheries and environmental protection projects. To operate the programme in conjunction with the Institute of Oceanography and Marine Science (IH.SM) which aims to promote sustainable livelihoods in the environment and fisheries sector. 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> 20 Malagasy marine scientists and fisheries officers trained in marine biodiversity survey techniques Monitoring programme of resource use and ecology implemented Biodiversity conservation and sustainable fisheries resource use assessed Production of: technical reports, scientific papers, land-use and biodiversity zonation maps Community education and public awareness raising 	

Project Summary Sheet

<i>Project name:</i> Madagascar Marine Biodiversity Training Project	<i>Country:</i> Madagascar
<i>Project location within country:</i> Anakao, Toliara region, south west Madagascar	<i>Collaboration name:</i> Frontier -Madagascar
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Darwin Initiative (UK Department for Environment, Food & Rural Affairs); Society for Environmental Exploration (SEE)
<i>Start date:</i> October 2001	<i>Completion date:</i> September 2002
<i>Approx. value of services:</i> US\$ 77,761	
<i>Name of associate if any:</i> Institut Halieutique et des Sciences Marines (IH.SM)	<i>No. of professional staff provided by associate:</i> 2
<i>Staff involved and functions performed:</i> Ms Chloe Webster - Project Coordinator Ms Gwenael Hemery - Trainer Counterpart Trainer	<i>No. of professional staff provided by SEE:</i> 3
<p>AIM To improve marine resource security in the Anakao coastal region by providing the skills and tools to monitor and manage marine biodiversity.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To provide training to fisheries officers, community representatives and personnel / students of the Institute of Oceanography and Marine Science (IH.SM). • To create a core team of expertise with the necessary skills to collect marine baseline data and to implement, manage and monitor sustainable resource use in the Anakao coastal region. • To produce a habitat monitoring plan for the Anakao area which will feed into the marine and coastal component (EMC) of the National Environmental Action Plan (PNAE). • To provide training to a counterpart trainer (representative from IH.SM) in training techniques and production of training manuals to enable continued development of new expertise in this area. • To prepare a funding proposal to support further training programmes and production of a long-term habitat- monitoring plan for the Anakao area based on permanent monitoring sites established during the project. 	

OUTPUTS

- Fisheries officers, community representatives and personnel / students of the Institute of Oceanography and Marine Science (IH.SM) trained in marine habitat monitoring techniques
- IH.SM counterpart trainer trained in marine habitat monitoring techniques
- Marine Biodiversity training manual produced
- Establishment of permanent monitoring sites
- Development of habitat monitoring
- Production of technical reports and a Darwin Initiative Habitat Monitoring Plan

Project Summary Sheet

<i>Project name:</i> Madagascar Coastal Natural Resource Assessment	<i>Country:</i> Madagascar
<i>Project location within country:</i> Beheloka Region, South West Madagascar	<i>Collaboration name:</i> Frontier-Madagascar
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> January 2002	<i>Completion date:</i> December 2002
<i>Approx. value of services:</i> US\$ 120,000	
<i>Name of associate if any:</i> Institute Halieutique et des Sciences Marines (IH.SM)	<i>No. of professional staff provided by associate:</i> 2
<i>Staff involved and functions performed:</i> Ms Chloe Webster - Project Manager Mr Andy Woods-Ballard – Research Coordinator Mr Luca Chiaroni – Assistant Research Coordinator Ms Sarah de Mowbray – Logistics Manager Mr Sander Den Haring – Diver Officer	<i>No. of professional staff provided by SEE:</i> 5
<p>AIM To undertake a comprehensive assessment of the various artisanal and seasonal fisheries in the region of Beheloka, SW Madagascar.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To include a SCUBA based commercial fish survey of the Beheloka Reef encompassing a landing site assessment of catch, measuring size, weight and species composition of local fisheries including shark, herring and anchovy. • To conduct a socio-economic study of the local “Vezo” and “Tanalana” fishing communities. • To initiate a “Bay watch” programme; a visual assessment of fishing and gleaning effort undertaken by the local population • To assess local curio trade activities giving an insight into the use of reef resources beyond food values • To combine these with habitat mapping to give a broad idea of resource use in the region 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> • Fisheries resource use assessed • Completion of a socio-economic survey • Mapping of land-use and resources • Training in resource assessment techniques • Production of technical reports and scientific papers 	

Project Summary Sheet

<i>Project name:</i> Madagascar Marine Biodiversity and Natural Resource Assessment	<i>Country:</i> Madagascar
<i>Project location within country:</i> Anakao region, SW Madagascar	<i>Collaboration name:</i> Frontier -Madagascar
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society of Environmental Exploration (SEE)
<i>Start date:</i> December 2002	<i>Approx. value of services:</i> US\$ 270, 000
<i>Completion date:</i> March 2005	<i>No. of professional staff provided by associate:</i> 2
<i>Name of associate if any:</i> Institute Halieutique et des Sciences Marines (IH.SM)	<i>No. of professional staff provided by SEE</i> 11
<i>Staff involved and functions performed:</i> Miss Aili Pyhala - Research Coordinator Mr Edward Mayhew; Mr Ryan; Miss Katherine Biddick; Mr Alex Robertson; Miss Vanessa Smith; Mr Stuart Flynn – Assistant Research Coordinators Mr Guy Keating – Logistics Manager	
<p>AIM The project will undertake detailed marine and coastal biodiversity assessments in the region of Anakao and conduct studies of the effects of both artisanal and seasonal fisheries.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • SCUBA based UVC fish survey of the Nosy Ve and Nosy Satrana reef • Landing site assessment of catch size, weight, species composition, where and how caught, of local fisheries • 'Bay-watch' programme: visual assessment of fishing and gleaning assessment undertaken by the local population • Habitat mapping of natural resources and resource in the region, including SCUBA surveys of benthic cover • Intertidal surveys including detailed mapping of mangroves for monitoring purposes • The provision of educational resources including training of IH.SM students in diving and survey techniques, English speaking and environmental education (EE) classes (weekly), establishment and continuous development of a local environmental education centre and exhibition 	

OUTPUTS

- Training of volunteers and I.H.S.M students in marine biodiversity survey and resource assessment techniques
- Community education and public awareness raising
- Biodiversity museum set up at local hotel; EE classes and workshops organised for local stakeholders and community representatives; production of "Anakao Ecosystem" booklet (funded by PADI Project AWARE)
- Monitoring of the Red-tailed Tropic Bird population on Nosy Ve and production of management plans
- Assessments of fisheries; shark fisheries and turtle exploitation
- Recording of species diversity of nudibranchs in the local area
- Collection of extensive data on endemic spider tortoise populations of the spiny forest
- Detailed monitoring of local cetacean density and assessment of species diversity, including resident small cetaceans and migrating baleen whales
- Recording of species diversity of reptiles and birds in the local spiny forest and coastal area
- Production of technical reports; land-use and biodiversity zonation maps; scientific papers

Project Summary Sheet

<i>Project name:</i> Marine Biodiversity Assessment of La Baie de Diego-Suarez,	<i>Country:</i> Madagascar
<i>Project location within country:</i> La Baie de Diego-Suarez	<i>Collaboration name:</i> Frontier-Madagascar
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society of Environmental Exploration (SEE)
<i>Start date:</i> April 2005	<i>Completion date:</i> Ongoing
<i>Approx. value of services:</i> US\$ Ongoing	
<i>Name of associate if any:</i> Institute Halieutique et des Sciences Marines (IH.SM)	<i>No. of professional staff provided by associate:</i> 2
<i>Staff involved and functions performed:</i> Mr Hugh Felton – Country Coordinator Ms Nicola Browne – Marine Research Coordinator Mr Robert Mrowicki - Assistant Marine Research Coordinator Ms Marchien de Ruitter – Volunteer Assistant Marine Research Coordinator William Glynn – Volunteer Assistant Marine Research Coordinator Ms Tamsyn Noble – Volunteer Assistant Marine Research Coordinator Mr Colin Sherrit – Dive Officer Mr Will Miller – Dive Officer	<i>No. of professional staff provided by SEE:</i> 8

AIM

To identify key sites of high biological diversity and conservation value and build awareness within local communities to establish a sustainable management programme in the region.

OBJECTIVES

- To conduct scientific baseline data surveys of reef areas, mapping the coral reef, sea grass beds and mangrove fringes of the region
- To conduct survey work on marine mammals and shark stocks.
- To identify current patterns of resource use and dependence levels by local communities.
- To work with local communities to build awareness of the value and vulnerability of these fragile marine ecosystems and to produce recommendations for the sustainable management of these important resources.

OUTPUTS

- Baseline biodiversity assessments at study sites within La Baie de Diego-Suarez

Project Summary Sheet

<i>Project name:</i> Marine Biodiversity and Resource Use Survey of the Quirimba Archipelago	<i>Country:</i> Mozambique
<i>Project location within country:</i> Quirimba Archipelago (nr. Pemba, Cabo Delgado Province)	<i>Collaboration name:</i> Frontier -Moçambique
<i>Name of client:</i> Ministry for the Co-ordination of Environmental Affairs	<i>Financed by (if different from client):</i> Darwin Initiative (UK Department for Environment, Food & Rural Affairs), Department of the Environment
<i>Start date:</i> January 1996	<i>Completion date:</i> March 1998
<i>Name of associate if any:</i> Tropical Marine Research Unit, University of York	<i>Approx. value of services:</i> US\$ 350,000
<i>Senior staff involved and functions performed:</i> Dr Mark Whittington - Project Coordinator Mr Mario Carvelho – Counterpart Project Coordinator Dr Damon Stanwell-Smith – Marine Technical Adviser Dr Dave Barnes - Research Associate Mr Peter Gaunt - SCUBA Diving Instructor Dr Rupert Ormond - Marine Technical Adviser (UK)	<i>No. of professional staff provided by associate:</i> 1 <i>No. of professional staff provided by SEE:</i> 6
<p>AIM To carry out field-based programme of biological surveys, ecological monitoring, and training within the Quirimba Archipelago.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To train Mozambican staff from the Fisheries Research Institute and the Department of Wildlife and Forestry along with students from the University of Eduardo Mondlane in standardised survey and monitoring techniques developed for underwater and coastal zones. • To coordinate a programme of biodiversity and fisheries resource use surveys for islands in the Quirimba Archipelago. The programme is to be in conjunction with the bodies mentioned above, the National Environment Commission and the Institute for the Development of Small-Scale Fisheries. The Tropical Marine Research Unit, at the University of York, is to provide additional technical support. <p>To provide data to aid the development of a management plan for the Quirimba Archipelago and provide support for the designation of Mozambique's second Marine Protected Area.</p>	

OUTPUTS

- Twenty Mozambicans received training in marine habitat and species assessment, resource assessment, and the applied use of this information for ecological monitoring
- Production of a manual containing biodiversity survey techniques to be used as a training aid
- Islands within the southern sector of the Quirimba Archipelago were surveyed in terms of their biodiversity
- Data was presented as a series of technical reports that provided detailed management recommendations for biodiversity conservation and sustainable resource use
- Quirimba National Park set up because of recommendations from Frontier survey work.
- 9 scientific papers produced

Project Summary Sheet

<i>Project name:</i> Volcán Cosiguina Biodiversity Research Project	<i>Country:</i> Nicaragua
<i>Project location within country:</i> Reserva Natural Volcán Cosiguina Ranger Station (RNVC-HQ)	<i>Collaboration name:</i> Frontier-Nicaragua
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> January 2004	<i>Completion date:</i> December 2004
<i>Approx. value of services:</i> US\$ 42,000	
<i>Name of associate if any:</i> Fundación Luchadores Integrados al Desarrollo de la Región (LIDER); Universidad Nacional Autónoma de Nicaragua-Leon (UNAN-Leon)	<i>No. of professional staff provided by associate:</i> 5
<i>Staff involved and functions performed:</i> Maggie Muurmans – Acting Research Coordinator Helen Cox – Volunteer Assistant Research Coordinator Jethro Johnson - Assistant Research Coordinator Andy Farmer – Volunteer Logistics Manager	<i>No. of professional staff provided by SEE:</i> 4
<p>AIM To carry out baseline biodiversity research in the Cosiguina Nature Reserve in order to provide accurate abundance and distribution information for the slopes of the Volcán Cosiguina.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To record in detail: vegetation, mammal, reptile, amphibian, bird and butterfly data, as well as full details of the changes in floral and faunal abundance and diversity with changes in elevation • To assess the ecological value of the area including the impact of loss of biodiversity, identification of endangered species, monitoring and evaluating biodiversity (especially forest degradation) over time • To monitor the level of human disturbance with records made of any disturbance encountered during surveys. 	

OUTPUTS

- Training in baseline biological survey techniques, resource use and ecological research and monitoring
- Training of local NGO staff in sea turtle monitoring
- Inventories of flora and fauna through ecological research and monitoring
- Set up a multi-species sea turtle hatchery with 56.55% hatching success rate (above the average for natural conditions)
- Socio-economic analyses
- Environmental education classes in schools and local communities
- Production of sea turtle handbook (Eng, Sp); articles for publication; annual report.

Project Summary Sheet

<i>Project name:</i> Biodiversity Research in Protected Areas of Northwest Nicaragua	<i>Country:</i> Nicaragua
<i>Project location within country:</i> Volcán Cosiguina, Isla Juan Vernado, Estero Padre Ramos	<i>Collaboration name:</i> Frontier -Nicaragua
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> January 2005	<i>Completion date:</i> ongoing
<i>Approx. value of services:</i> US\$ ongoing	
<i>Name of associate if any:</i> Fundación Luchadores Integrados al Desarrollo de la Región (LIDER); Universidad Nacional Autónoma de Nicaragua-Leon (UNAN-Leon)	<i>No. of professional staff provided by associate:</i> 5
<i>Staff involved and functions performed:</i> Ms Gayle Reddihough – Assistant Research Coordinator Ms Hannah Osman – Project Coordinator Dr Rosalind Shaw – Volunteer Assistant Research Coordinator Mr Daniel Hart – Logistics Manager	<i>No. of professional staff provided by SEE:</i> 4

AIM

To carry out baseline biodiversity research in the 3 protected areas of Volcán Cosiguina, Marafior and Estero Padre Ramos in order to provide accurate abundance and distribution information.

OBJECTIVES

- To record in detail: vegetation, mammal, reptile, amphibian, bird and butterfly data
- To assess the ecological value of the areas including the impact of loss of biodiversity, identification of endangered species, monitoring and evaluating biodiversity in coastal, mangrove and forest areas
- To monitor the level of human disturbance with records made of any disturbance encountered during surveys.
- To monitor sea turtle nesting beaches and assess human impact; to set up a multi-species hatchery

OUTPUTS

- Training in baseline biological survey techniques, resource use and ecological research and monitoring
 - Inventories of flora and fauna through ecological research and monitoring in mangrove and coastal habitats
 - Socio-economic analyses
 - Monitoring and patrolling of sea turtle nesting beaches
-

Project Summary Sheet

<i>Project name:</i> Capacity Building for Sustainable Management of the Nicaraguan Pacific North Region.	<i>Country:</i> Nicaragua
<i>Project location within country:</i> Pacific North Region: Isla Juan Venado, Estero Padre Ramos and Volcan Cosiguina	<i>Collaboration name:</i> Frontier -Nicaragua
<i>Name of client:</i> Darwin Initiative	<i>Financed by (if different from client):</i> Darwin Initiative (UK Department for Environment, Food & Rural Affairs)
<i>Start date:</i> 15 th May 2005	<i>Completion date:</i> Ongoing
<i>Name of associate if any:</i> Universidad Nacional Autónoma de Nicaragua-Leon (UNAN-Leon)	<i>Approx. value of services:</i> \$120,000
<i>Staff involved and functions performed:</i> Mr. Paul Rubio - Project Leader Mr. Chris Poonian - Project Coordinator Ms. Maggie Muurmans - Scientific Trainer	<i>No. of professional staff provided by associate:</i> 2 <i>No. of professional staff provided by SEE:</i> 3
<p>AIM To design and implement a training programme in conservation skills and monitoring techniques to build the capacity of local and regional institutions to sustainably manage and monitor resources in the Pacific North region of Nicaragua.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To develop and implement tailor-made BTEC (Business and Technical Education Council) qualifications with the local and regional NGOs SELVA (La Asociacion somos Ecologistas en lucha por la vida y elambiente), LIDER (Luchadores Integrados al Dsearrollo de la Region), Universidad Nacional Autónoma de Nicaragua-Leon (UNAN-Leon), and the Ministry of Environment and Natural Resources (MARENA). • To train Nature Reserve rangers in patrolling, law enforcement, survey and monitoring, eco-tourism initiatives, and local community awareness. • To devise and implement terrestrial and coastal monitoring schemes for threatened, endangered and critically endangered species within three protected areas of Nicaragua's Pacific North region: Isla Juan Venado (2,934 ha), Estero Padre Ramos (9, 157), and Volcan Cosiguina (13, 168 ha). 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> • BTEC in Conservation Management produced for training programme 	

Project Summary Sheet

<i>Project name</i> Rufiji Delta Hydrodynamics Research Programme	<i>Country:</i> Tanzania
<i>Project location within country:</i> Rufiji Delta, Tanzania	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> October 1989 October 1992	<i>Completion date:</i> September 1990 November 1993
<i>Name of associate if any:</i> The University of Dar es Salaam, Tanzania The University of Plymouth, UK	<i>Approx. value of services:</i> US\$ 60,000
<i>Senior staff involved and functions performed:</i> Mr Paul Fisher - Research Coordinator Dr J Pethick - Consultant Advisor Dr T Spencer - Consultant Advisor	<i>No. of professional staff provided by associate:</i> N/A
<i>No. of professional staff provided by SEE:</i> 3	
<p>AIM Following an initial survey of the Rufii delta morphology, involving a series of baseline surveys in 1989-1990, a 12-month investigation aims to initiate and monitor a series of baseline physical surveys within the delta.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To describe important circulatory characteristics of the delta system along with observed changes in the NE section as it is the most active region. • To conduct surveys; an archive search of data relating to the river outflow, delta morphology and drainage characteristics; a morphological survey of the northeast margin: land profiles, vegetation and soil characteristics; a hydrographic survey of the Simba Uranga river, and a survey of all active rivers to determine salt intrusion and identify changes over the last 15 years • To analyse changes to ground cover working from aerial photographs taken in 1967/68 and SPOT satellite images from 1988/9. • To integrate data with previous studies, conducted by the Norwegian Institute for International Development (NORAD) and VHL River and Harbour Laboratory at the Norwegian Institute of Technology, to obtain hypotheses regarding morphodynamic processes over longer time-scales 	

OUTPUTS

- Archive research
- Analysis of remote sensing
- Hydrodynamic and hydrographic surveys conducted
- 2 papers published

Project Summary Sheet

<i>Project name:</i> East Usambara Biodiversity Surveys		<i>Country:</i> Tanzania
<i>Project location within country:</i> East Usambara Mountains, Tanzania		<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> East Usambara Conservation Area Management Project (EUCAMP) Forestry and Beekeeping Division, Ministry of Natural Resources and Tourism		<i>Financed by (if different from client):</i> Development Assistance of Finland (FINNIDA) Japan Official Development Assistance (JICA)
<i>Start date:</i> June 1995	<i>Completion date:</i> June 2002	<i>Approx. value of services:</i> US\$ 440,500
<i>Name of associate if any:</i> The University of Dar es Salaam, Tanzania		<i>No. of professional staff provided by associate:</i> N/A
<i>Senior staff involved and functions performed:</i> Ms Nicola Beharrell – Project Coordinator Ms Susannah Hall – Research Coordinator		<i>No. of professional staff provided by SEE:</i> 2
<p>AIM To implement an in-country programme of biological surveys, ecological monitoring and training.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To conduct a field-based programme involving the training of staff from the East Usambara Catchment Forest Project (EUCFP) in standardised survey and monitoring techniques developed for tropical forests in East Africa • To co-ordinate a programme of baseline biodiversity surveys in selected forests of the East Usambara mountains carried out in conjunction with the Faculty of Science, University of Dar es Salaam who are providing additional technical support through qualified staff • To assist E.U Conservation Programme (EUCAMP) in the management of Usambara forests <p>OUTPUTS</p> <ul style="list-style-type: none"> • Over 25 EUCFP staff have received training in forest habitat and species assessment, and the applied use of this information for ecological monitoring. • Production of a manual containing biodiversity survey techniques for key taxonomic groups for use as a training aid for future EUCFP personnel • Ten East Usambara forests surveyed in terms of their biodiversity • Recognised as the most detailed and extensive biodiversity data ever produced for this area • Data presented as a series of technical reports and a detailed map for the area indicating "hotspots" • Data to act as a tool for the development of a management plan for the East Usambaras • Storage of data on a database with GIS facilities • Production of scientific papers. 		

Project Summary Sheet

<i>Project name:</i> Lake Tanganyika Biodiversity Project	<i>Country:</i> Tanzania
<i>Project location within country:</i> Lake Tanganyika (Kigoma), Tanzania	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> Natural Resources Institute (NRI)	<i>Financed by (if different from client):</i> N/A
<i>Start date:</i> July 1997	<i>Completion date:</i> December 1997
	<i>Approx. value of services:</i> US\$ 77,500
<i>Name of associate if any:</i> The University of Dar es Salaam, Tanzania Marine Resources Assessment Group (MRAG), UK	<i>No. of professional staff provided by associate:</i> 6
<i>Senior staff involved and functions performed:</i> Mr William Darwall - Dive Trainer/Dive Surveyor Dr Paul Tierney - Dive Trainer/Dive Surveyor	<i>No. of professional staff provided by SEE:</i> 2
<p>AIM To provide an assessment of the status of biodiversity in Lake Tanganyika and to develop sustainable monitoring programmes to assess the impacts of pollution, sedimentation and fishing practices on the biota. This information will aid the development of conservation management strategies for the Lake Basin biodiversity.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To carry out dive training and lake habitat mapping activities. • To select two individuals to be trained as dive-supervisors, to plan and organise dives, maintain equipment and be responsible for safe diving practice. • To transfer knowledge on basic underwater habitat survey and census techniques to the newly qualified diver technicians, including a range of visual and collecting methods for sampling a wide range of biota. • To train field teams in national park areas to produce maps of critical conservation sites. • To work with MRAG field staff in developing protocols for detailed habitat mapping in existing and proposed conservation areas (Mahala, Gomba, Nsumbu). 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> • Provision of dive training for 8 Tanzanian/Zambian technical assistants. • Training in underwater habitat survey and census techniques, dive survey organisation • Production of training materials and underwater habitat maps • Development of protocols for detailed habitat mapping 	

Project Summary Sheet

<i>Project name:</i> Udzungwa Mountains Biodiversity Surveys	<i>Country:</i> Tanzania
<i>Project location within country:</i> The Udzungwa Mountains, Iringa Rural District, Iringa Region, Tanzania	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> Udzungwa Mountains Forest Management and Biodiversity Conservation Project	<i>Financed by (if different from client):</i> Danish International Development Assistance (DANIDA)
<i>Start date:</i> Jan 1999	<i>Completion date:</i> April 2001
<i>Approx. value of services:</i> US\$ 348, 000	
<i>Name of associate if any:</i> The University of Dar es Salaam; Forestry and Beekeeping Division of the Ministry of Tourism, Natural Resources and Environment, Tanzania; The University of Dar es Salaam,	<i>No. of professional staff provided by associate:</i> 2
<i>Senior staff involved and functions performed:</i> Ms Nike Doggart - Project Coordinator Mr Elmer Topp-Jorgensen - Research Coordinator Mr James Davey - Logistics Coordinator	<i>No. of professional staff provided by SEE:</i> 3
<p>AIM To provide baseline information on the biological values of strategically selected forests as a basis for management planning and long-term monitoring.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To train Tanzanian personnel and overseas students in the use of biological inventory techniques • To survey two forest sites in selected gazetted forest reserves during the period of this contract • To conduct a prescriptive programme of baseline biological research using standard survey methods to provide information on the biological value and use of forest • To establish a standard system for ecological monitoring on both a general and forest specific level and conduct other research related to the biodiversity of the area as appropriate • To train project participants, including Tanzanian personnel from institutions such as the Tanzania Forestry Research Institute (TAFORI), the Forestry and Beekeeping Division (FBD), and the University of Dar es Salaam (UDSM), in the standard survey methods • Technical advice will also be provided for the development of joint management plans including advice on the sustainable use of forest products 	

OUTPUTS

- Development of system for monitoring biodiversity, biodiversity database, joint management plan
- Training in survey and monitoring techniques and sustainable resource use
- Production of training materials and technical reports, land-use and biodiversity zonation maps and scientific papers

Project Summary Sheet

<i>Project name:</i> Mahenge Mountains Biodiversity Survey	<i>Country:</i> Tanzania
<i>Project location within country:</i> Mahenge Forest Reserves, Ulanga District, Morogoro Region, Tanzania	<i>Collaboration name:</i> Frontier-Tanzania
<i>Name of client:</i> Forestry and Beekeeping Division, Ministry of Natural Resources and Tourism, Tanzania	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> Jan 2003	<i>Completion date:</i> Dec 2003
<i>Approx. value of services:</i> US\$ 68,000	
<i>Name of associate if any:</i> The University of Dar es Salaam, Tanzania	<i>No. of professional staff provided by associate:</i> 2
<i>Senior staff involved and functions performed:</i> Ms Jessica Ward - Project Coordinator Ms Claire Bracebirdge - Research Coordinator	<i>No. of professional staff provided by SEE:</i> 2
<p>AIM To carry out systematic flora and fauna diversity surveys within the forest reserves of the Mahenge Mountains, Ulanga District</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To collect baseline biodiversity data for use by the Forestry Department and community groups in the joint management and protection of the forest reserves • To further the understanding of protecting forest reserves, as well as other relevant environmental issues, in conjunction with existing community groups • To study macro-faunal migratory corridors through the forest reserves into the Kilombero Valley and Selous National Park • To train local forestry officers and international students in biodiversity surveying techniques so techniques can then be used in the future for monitoring purposes • To make available the opportunity for Tanzanian university students to gain a BTEC qualification in Tropical Habitat Conservation • To improve environmental awareness in the community through the provision of school visits • To assist the local community based organisation 'Mazingira ni Uhai' with their community programme, in particular, helping with tree-planting and bee-keeping activities. 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> • Ecological research and monitoring, conservation of biodiversity, raising environmental awareness • Training in tropical forest biodiversity survey and monitoring techniques • Training in BTEC Tropical Habitat Conservation • Production of training materials, technical reports, land-use maps and scientific papers 	

Project Summary Sheet

<i>Project name:</i> Uluguru Biodiversity Assessment Project	<i>Country:</i> Tanzania
<i>Project location within country:</i> Uluguru Mountains, Eastern Arc Mountains, Eastern Tanzania	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> CARE-Tanzania; UNDP-GEF	<i>Financed by (if different from client):</i> CARE-Tanzania; UNDP-GEF
<i>Start date:</i> September 2004	<i>Completion date:</i> March 2005
<i>Approx. value of services:</i> US\$ 75,000	
<i>Name of associate if any:</i> The University of Dar es Salaam, Tanzania Conservation and Management of Eastern Arc Mountain Forests	<i>No. of professional staff provided by associate:</i> 2
<i>Staff involved and functions performed:</i> Paul Rubio & Freya St. John – Project Managers Claire Bracebridge – Principal Investigator Rosalind Salter - Primary Research Officer James Nicodem – Research Officer Daniel Cox – Research Officer	<i>No. of professional staff provided by SEE:</i> 6
<p>AIM To undertake systematic biodiversity and forest resource-use assessment of the Uluguru North and Uluguru South Catchment Forest Reserves to establish a baseline for measuring the Uluguru Environmental Management and Conservation Project's (UMEMCP) impact on maintaining biodiversity values and reducing threats in the longer term</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To conduct baseline biodiversity surveys (flora and fauna), assessing both species richness and diversity, using systematic survey methodologies, field observations, and opportunistic collections. • To conduct baseline forest disturbance surveys, using systematic survey methodologies, field observations, and casual collections to quantify anthropogenic threats. • To collate and disseminate baseline biodiversity and forest resource-use information through the production of reports. • To provide information on the biological value and use of the forests based on systematic surveys. 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> • Baseline biological surveys • Resource use • Ecological research and monitoring. 	

Project Summary Sheet

<p><i>Project name:</i> The Forgotten Coastal Forests of Mtwara: A Reconnaissance to Prioritise Biological Knowledge for Community Conservation Initiatives</p>	<p><i>Country:</i> Tanzania</p>	
<p><i>Project location within country:</i> Mtwara Region: Southern Coastal Forests of Tanzania</p>	<p><i>Collaboration name:</i> Frontier -Tanzania</p>	
<p><i>Name of client:</i> CEPF</p>	<p><i>Financed by (if different from client):</i> CEPF</p>	
<p><i>Start date:</i> March 2005</p>	<p><i>Completion date:</i> September 2005</p>	<p><i>Approx. value of services:</i> US\$ 39, 555</p>
<p><i>Name of associate if any:</i> The University of Dar Es Salaam, Tanzania; Forest and Beekeeping Division; Wildlife Conservation Society of Tanzania</p>	<p><i>No. of professional staff provided by associate:</i> 2</p>	
<p><i>Staff involved and functions performed:</i> Mr. Paul Rubio – Project Manager Ms. Giulia Wegner – Project Coordinator Mr. Mark Gillies – Country Coordinator Mr. Stephen Lockwood – Assistant Country Coordinator Ms. Rosalind Slater – Principal Investigator Mr. Oisin Sweeney – Primary Research Officer Mr. Mike Cutts – Research Officer Mr. Ramathan Rajabu – Field Assistant Mr. Hassani Abedi – Field Assistant Mr. George Sangu – Botanist Mr. Jacob Kiure – Ornithologist Mr. Mohammed Ali – Assistant Ornithologist</p>	<p><i>No. of professional staff provided by SEE:</i> 12</p>	
<p>AIM To safeguard biodiversity of the coastal forests of Tanzania without compromising current coastal livelihoods</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To conduct rapid biodiversity assessments and create preliminary species inventory lists for eight forest reserves within the Mtwara region. Evidence of threatened and endangered species within these habitats will be highlighted • To identify natural resource use within eight forest reserves within the Mtwara region. Current threats to forest habitats will be identified and reported with the intention that they may be fed into the development of specific assessment and monitoring programmes at a later date. • To liaise with village communities, collating indigenous knowledge of species and forest sites. Meetings will be undertaken with local community groups, forest officers and key informants in order to collate local and indigenous knowledge about the forest resources 		

OUTPUTS

- Technical report produced for forest areas: Mtiniko, Mtuli Hinji; Makonde Scarp III; Mkunya River

Project Summary Sheet

<i>Project name:</i> Biodiversity Research and Awareness in the Eastern Arc Mountains	<i>Country:</i> Tanzania
<i>Project location within country:</i> Morogoro Region: Mahenge; Rubeho; Ukaguru; Nguru Mountains	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> CEPF	<i>Financed by (if different from client):</i> CEPF
<i>Start date:</i> Sept 2005	<i>Completion date:</i> Ongoing
<i>Name of associate if any:</i> The University of Dar Es Salaam, Tanzania; Forest and Beekeeping Division; Wildlife Conservation Society of Tanzania; WWF-TPO; Natural History Museum of Trento	<i>Approx. value of services:</i> US\$ 235, 000
<i>Staff involved and functions performed:</i> Miss Jenny Laidlaw – Acting Country Coordinator Miss Nisha Owen – Principle Investigator Miss Victoria Wilkins – Research Officer Mr. Daniel Cox – Research Officer Miss Sophie Gombeer – Research Officer Miss Eleanor Jew – Research Officer	<i>No. of professional staff provided by associate:</i> 4 <i>No. of professional staff provided by SEE:</i> 6
<p>AIM To improve biological knowledge in selected hotspot areas of the Eastern Arc Mountains through biodiversity assessments and awareness raising workshops.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To conduct systematic biodiversity surveys (flora and fauna), assessing both species richness and diversity, creating species inventory lists and contributing data to species Red-List assessments and the species outcome database • To conduct baseline threat assessments • To compile and disseminate information on the biological value and uses of the forests (based on systematic surveys and gathering of indigenous knowledge) through reports and workshops • To raise awareness of local communities with regard to the significance of the forests • To build capacity of forestry officers and community officers through training 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> • Technical reports produced for forest areas: Ulanga district (Sali, Mselezi); Morogoro district (Kanga, Nguru South); Kilosa district (Ikwamba, Mamboto, Mamiwa Kisara, Pala Ulanga) • Laymans report 	

Project Summary Sheet

<p><i>Project name:</i> Mafia Island Marine Park – Development of a Management Strategy</p>	<p><i>Country:</i> Tanzania</p>	
<p><i>Project location within country:</i> Mafia Island, Tanzania</p>	<p><i>Collaboration name:</i> Frontier -Tanzania</p>	
<p><i>Name of client:</i> Tanzania National Parks Authority</p>	<p><i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)</p>	
<p><i>Start date:</i> July 1989</p>	<p><i>Completion date:</i> Feb 1995</p>	<p><i>Approx. value of services:</i> \$280, 000</p>
<p><i>Name of associate if any:</i> University of Dar es Salaam, Tanzania Institute of Marine Science, Zanzibar</p>	<p><i>No. of professional staff provided by associate:</i> N/A</p>	
<p><i>Senior staff involved and functions performed:</i> Mr William Darwall – Marine Research Coordinator Dr Mark Whittington – Assistant Research Coordinator Mr Martin Guard – Assistant Research Coordinator Ms Val Choiseul - Assistant Research Coordinator</p>	<p><i>No. of professional staff provided by SEE:</i> 4</p>	
<p>AIM To provide the information to develop and implement a participatory management plan for the Mafia Island Marine Park.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To undertake a six-year programme of surveys and training, working in conjunction with the Ministry of Tourism, Natural Resources and Environment, Tanzania and the Tanzania National Parks Authority (TANAPA) • To carry out surveys of sub-tidal, inter-tidal and mangrove systems (alongside extensive surveying into resource use) within the proposed marine park encompassing fisheries, coral mining and seaweed farming • To facilitate a preliminary programme of public awareness raising • To participate in the management strategy development process 		

OUTPUTS

- Created a maritime chart of the proposed regulated area including habitat maps and collected data on species composition, distribution and abundance
- Training in marine biodiversity survey techniques, resource use and ecological monitoring
- community education and public awareness raising
- The production of technical reports, land-use and biodiversity zonation maps and scientific papers
- Participation in a consultative workshop on Mafia Island in 1991 with a range of local, regional, and national officials, NGOs, and fishermen representatives
- The Mafia Island Multi-User Marine Park was gazetted in 1995 following management recommendations and using data from Frontier survey work and the project is currently managed by WWF-Tanzania.

Project Summary Sheet

<i>Project name:</i> Mafia Island Marine Park – Environmental Education and Awareness in the Local Community.	<i>Country:</i> Tanzania
<i>Project location within country:</i> Mafia Island, Tanzania	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE) PADI Project Aware
<i>Start date:</i> February 2007	<i>Completion date:</i> Ongoing
<i>Name of associate if any:</i> University of Dar es Salaam	<i>Approx. value of services:</i> US\$ 1485
<i>Name of associate if any:</i> University of Dar es Salaam	<i>No. of professional staff provided by associate:</i> 2
<i>Staff involved and functions performed:</i> Mr. Jack Clark – Marine Research Officer Ms. Lindsey West – Marine Research Officer Mr. Max Edkins – Marine Research Officer Ms. Emily Coates – Dive Officer	<i>No. of professional staff provided by SEE:</i> 4
<p>AIM To promote the importance of the marine ecosystem and sustainable use of natural resources to the Mafia Island coastal community through environmental education and awareness.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To provide regular workshops, each with a particular focus, for various stakeholder groups, to provide information on the Marine Park. • To distribute educational material in the community to raise awareness about the Marine Park, it's purpose and importance. • To include Mafia Island Marine Park (MIMP) staff in implementing education programs. 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> • Increased awareness and local knowledge of the Marine Park among several stakeholder groups. • Implementation of an environmental awareness program on Mafia Island, fulfilling the objectives outlined in the General Management Plan for the Mafia Island Marine Park (MIMP). 	

Project Summary Sheet

<i>Project name:</i> Marine Biodiversity and Marine Resource Use Surveys in the Songo Songo Archipelago, Tanzania	<i>Country:</i> Tanzania
<i>Project location within country:</i> Songo Songo Archipelago, Kilwa District, Tanzania	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> Development Assistance of Norway (NORAD)	<i>Financed by (if different from client):</i> N/A
<i>Start date:</i> May 1995	<i>Completion date:</i> June 1996
<i>Name of associate if any</i> University of Dar es Salaam, Tanzania	<i>No. of professional staff provided by associate:</i> N/A
<i>Senior staff involved and functions performed:</i> Mr William Darwall – Marine Research Coordinator Ms Val Choiseul – Assistant Research Coordinator	<i>No. of professional staff provided by SEE:</i> 2
<p>AIM To assess the dependence of the Songo Songo community upon marine resources and establish a local resource-use monitoring-programme.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To initiate an in-country programme of community-based resource use surveys, biological surveys, ecological monitoring and training • To train local fisheries officers and students from the University of Dar es Salaam in dive survey techniques, marine habitat and species assessment, and resource assessment to provide a core of local expertise. This will involve training in standardised monitoring techniques developed for marine and coastal zones • To facilitate the application of these skills in a programme of surveys involving ecological monitoring and the collection of fisheries data, fishing effort and catch data • To provide training in marine resource management and basic level interpretation of fisheries statistics. This will enable surveys to be carried out investigating the impact of the fishery on the environment and population of target fish <p>To create public awareness-raising activities examining the issues of sustainable fisheries resource use</p>	

OUTPUTS

- Training in fisheries survey and monitoring, resource use assessment and ecological research and monitoring
- Frontier-Tanzania staff and local fisheries officers have identified future potential threats to the fishery and potential management strategies
- These have resulted in the establishment of a community-based monitoring programme implemented by newly trained fisheries officers
- Production of technical reports and scientific papers

Project Summary Sheet

<i>Project name:</i> Mnazi Bay Marine Monitoring Programme		<i>Country:</i> Tanzania
<i>Project location within country:</i> Mnazi Bay, Mtwara District, southern Tanzania		<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> N/A		<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> Oct 1996	<i>Completion date:</i> June 1998	<i>Approx. value of services:</i> US\$ 102, 750
<i>Name of associate if any:</i> University of Dar es Salaam Ministry of Tourism, Natural Resources and Environment		<i>No. of professional staff provided by associate:</i> N/A
<i>Senior staff involved and functions performed:</i> Dr Jean-Luc Solandt - Research Coordinator Dr Victoria Howe - Project Manager		<i>No. of professional staff provided by SEE:</i> 2
<p>AIM To develop and study permanent sites at five locations within Mnazi Bay</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To map sites in order to detail what different types of zones are in the areas, including a photographic inventory of the coral species • To conduct subsequent surveys that will include; temperature and salinity measurements; visual census of reef and commercial fish populations; benthic invertebrate counts; measurement of reef impacts, including coral bleaching, anchor damage and sedimentation measurements • To enter site results into a database and analyse data both in the field and at Frontier-Tanzania headquarters to produce reports 		
<p>OUTPUTS</p> <ul style="list-style-type: none"> • Establishment of permanent monitoring sites • Ecological research and monitoring and conservation of biodiversity • Provision of full logistical support for on going SCUBA assessment • Publication of manual for standardised survey methods 		

Project Summary Sheet

<i>Project name:</i> Permanent Monitoring of Mnazi Bay	<i>Country:</i> Tanzania
<i>Project location within country:</i> Mnazi Bay, Mtwara District, southern Tanzania	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> Coral Reef Degradation in the Indian Ocean (CORDIO)	<i>Financed by (if different from client):</i> SAREC (Swedish Agency for Research Co-operation with Developing Countries)
<i>Start date:</i> October 1996	<i>Completion date:</i> September 1999
<i>Approx. value of services:</i> US\$ 6,000	
<i>Name of associate if any:</i> Institute of Marine Sciences, University of Dar es Salaam Ministry of Tourism, Natural Resources and Environment	<i>No. of professional staff provided by associate:</i> N/A
<i>Staff involved and functions performed:</i> Dr Victoria Howe - Project Manager Mr David Tanner - Marine Ecologist Mr Toby Roxburgh - Marine Ecologist	<i>No. of professional staff provided by SEE:</i> 3
<p>AIM The aim of the project is to set up two permanent monitoring sites which, together with a number of additional random sites, can be surveyed during a single visit. The project is funded by the Swedish Agency for Research Co-operation with Developing Countries (SAREC) and forms part of a wider CORDIO programme focussing on assessment of changes on reefs following coral bleaching in 1998.</p>	
<p>OBJECTIVES</p> <ul style="list-style-type: none"> • To base sites within Mnazi bay at locations where accurate monitoring of both changes, in healthy corals and recovery from impacts such as coral bleaching, is possible • To apply methodologies at the sites that will involve assessment of coral benthic cover, fish counts, invertebrates, temperature, sedimentation and random transect surveys • To compare data with results from previous monitoring in the area conducted by Frontier-Tanzania • To implement project in collaboration with the Institute of Marine Sciences, Zanzibar who have proposed a longer term monitoring programme in Mnazi Bay. CORDIO also aim to help develop the coral reef database at IMS. 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> • Establishment of permanent monitoring sites • Conducted a coral reef monitoring survey 	

Project Summary Sheet

<i>Project name:</i> Marine Biodiversity and Resource Assessment of Mtwara, Lindi and Kilwa Districts	<i>Country:</i> Tanzania
<i>Project location within country:</i> Mtwara, Lindi and Kilwa Districts, southern Tanzania	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> Ministry of Tourism, Natural Resources and Environment; Mtwara, Lindi and Kilwa District Offices.	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> June 1997 <i>Completion date:</i> January 2001	<i>Approx. value of services:</i> US\$ 401,000
<i>Name of associate if any:</i> University of Dar es Salaam, Tanzania	<i>No. of professional staff provided by associate:</i> N/A
<i>Staff involved and functions performed:</i> Mr Martin Guard - Project Coordinator Dr Jean-Luc Solandt - Research Coordinator Dr Vicki Howe - Assistant Research Coordinator	<i>No. of professional staff provided by SEE:</i> 3
<p>AIM To develop and implement a participatory management plan for the contiguous Mtwara, Lindi and Kilwa Districts.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To manage and facilitate a two-year programme of surveys and training, initiated jointly by the district offices for Tourism, Natural Resources and the Environment, followed by the development of a coastal monitoring unit and SCUBA diving club for each district • To undertake sub-tidal, inter-tidal, and mangrove surveys to provide data for an integrated coastal zone management plan for the districts • To train 12 Tanzanian marine scientists and fisheries officers from the districts to provide a core of local expertise • To facilitate a programme of public awareness raising and training in the field of sustainable fisheries resource use • To facilitate the design and implementation of a participatory monitoring by trained district officers and local community members to assess the impact of locally initiated sustainable fisheries and environmental protection projects • To operate the programme in conjunction with RIPS which aims to promote sustainable livelihoods in the environment, fisheries, agriculture and forestry sectors and has worked with the local communities in the target districts for over 25 years. 	

OUTPUTS

- Training in marine biodiversity survey techniques, resource use and ecological monitoring, ecological research and monitoring, sustainable fisheries resource use
- community education and public awareness raising
- Production of technical reports, land-use and biodiversity zonation maps, and scientific papers.

Project Summary Sheet

<i>Project name:</i> Marine Training and Education Programme	<i>Country:</i> Tanzania
<i>Project location within country:</i> Mtwara District, southern Tanzania	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> British High Commission, Tanzania WWF, Tanzania
<i>Start date:</i> Sept 1998	<i>Completion date:</i> Aug 1999
<i>Approx. value of services:</i> US\$ 35, 500	
<i>Name of associate if any:</i> University of Dar es Salaam, Tanzania	<i>No. of professional staff provided by associate:</i> N/A
<i>Senior staff involved and functions performed:</i> Dr Victoria Howe - Project Manager Mr Shaaban Fundi - Assistant Research Coordinator	<i>No. of professional staff provided by SEE:</i> 2
<p>AIM To address the key issues of food security and habitat degradation in Mtwara and Lindi regions.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To facilitate the development of community based coastal zone management through training of fisheries officers and elected community representatives in marine survey methods and conducting an environmental education and awareness programme for school children and teachers • To work in conjunction with 'Shirikisho' (The Southern Zone Confederation for the Protection of the Marine Environment), a local NGO representing the three districts, in the implementation of the Marine Environment Protection Programme • To implement a training programme involving training Tanzanian fisheries officers and local representatives from the local districts of Mtwara, Lindi and Kilwa in; fish identification and abundance counts; simple habitat mapping for large scale monitoring purposes; fisheries data collection; data analysis and management, and boat handling skills • To implement an Education programme that involves field visits for school children providing 'hands on' practical projects to raise awareness of marine issues and marine life • To develop an educational handbook for teachers. 	

OUTPUTS

- Training of 16 Tanzanian fisheries officers in marine ecology, marine resources, marine biological survey techniques, small power boat handling, fisheries data collection and marine and coastal management
- Production of training materials
- Educational training and awareness raising for school children
- Production of a teachers handbook

Project Summary Sheet

<i>Project name:</i> Menai Bay Training and Reef Survey Project	<i>Country:</i> Tanzania
<i>Project location within country:</i> Menai Bay Conservation Area, south-west Zanzibar	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> WWF Tanzania Programme Office	<i>Financed by (if different from client):</i> WWF Tanzania
<i>Start date:</i> March 2000	<i>Completion date:</i> May 2000
<i>Approx. value of services:</i> US\$ 17,000 per annum	
<i>Name of associate if any:</i> University of Dar es Salaam, Tanzania	<i>No. of professional staff provided by associate:</i> N/A
<i>Staff involved and functions performed:</i> Ms Sarah Curran - Research Coordinator Mr Toby Roxburgh - Marine ecologist Mr James Moir-Clark - SCUBA trainer	<i>No. of professional staff provided by SEE:</i> 3
<p>AIM To contribute to the WWF-Zanzibar, Menai Bay Conservation Area Project which aims to achieve sustainable use of marine resources and therefore has requirements for reef survey and resource mapping and for training of staff in survey techniques.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To conduct baseline biological surveys of selected reefs in order to provide information on the changes (in health and status) of these reefs since previous surveys conducted in 1994 • To incorporate in surveys assessment of habitat, invertebrates, fish census, coral tagging and sightings of other marine life using standard Reefcheck methods supplemented by reef fish species, inventory and biomass assessments • To present data in a report containing technical advice for the development of a management plan for the area • To provide written and photographic material is for the production of a dive guide to Menai Bay, including marine environment information • To train Tanzanian personnel of the Menai Bay Conservation Area Project <p>OUTPUTS</p> <ul style="list-style-type: none"> • Training of four Tanzanian personnel in marine biodiversity survey and ecological monitoring techniques • Ecological research and monitoring • Production of technical reports • Written and photographic materials for production of dive guide 	

Project Summary Sheet

<p><i>Project name:</i> Dar Marine Reserves Resource Use Impact Assessment Project</p>	<p><i>Country:</i> Tanzania</p>
<p><i>Project location within country:</i> Bongoyo Island, Mbudya Island, Pangavini Island and Fungu Yasin Island, Dar es Salaam Marine Reserve System</p>	<p><i>Collaboration name:</i> Frontier -Tanzania</p>
<p><i>Name of client:</i> Marine Parks and Reserves Unit (MPRU)</p>	<p><i>Financed by (if different from client):</i> United Nations Environment Programme (UNEP) and Marine Parks and Reserves Unit (MPRU)</p>
<p><i>Start date:</i> July 2000 2000</p>	<p><i>Completion date:</i> December</p>
<p><i>Name of associate if any:</i> University of Dar es Salaam, Tanzania</p>	<p><i>No. of professional staff provided by associate:</i> N/A</p>
<p><i>Staff involved and functions performed:</i> Mr Toby Roxburgh - Marine Ecologist Mr Ian Morton - Marine Logistician</p>	<p><i>No. of professional staff provided by SEE:</i> 2</p>
<p>AIM To form part of a wider initiative to establish a management plan for the four Dar Marine Reserves and assess the impact of various resource users of the reserves, identified as: fisheries, tourists and divers.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To follow a pilot study undertaken in December 1998 by Frontier-Tanzania providing an overview of the status of the reserves. • To conduct a fisheries assessment (through interviews with local fishermen and analysis of catch per unit effort) • To conduct a tourism assessment (through information gathered from tour operators and interviews with individual tourists) • To conduct a diver assessment, of both recreational diving (through interviews with dive operations) and scientific diving (through discussion with active marine research institutions). 	

OUTPUTS

- Resource use assessment
- The results of the survey were presented at a stakeholder conference for the development of a management plan for the marine reserves
- Production of a technical report
- The presentation of management recommendations to the Board of Trustees for Marine Parks and Reserves Tanzania

Project Summary Sheet

<i>Project name:</i> Pemba Island Marine Research Project	<i>Country:</i> Tanzania
<i>Project location within country:</i> Misali Island, Pemba, Tanzania	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> Ministry of Agriculture Natural Resources, Environment and Co-operatives, Zanzibar	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> February 2001	<i>Completion date:</i> January 2004
<i>Approx. value of services:</i> US\$ 370,000	
<i>Name of associate if any:</i> University of Dar es Salaam, Tanzania (UDSM) Institute of Marine Science, Zanzibar Misali Island Conservation Association (MICA)	<i>No. of professional staff provided by associate:</i> N/A
<i>Staff involved and functions performed:</i> Ms Carol Daniels - Project Coordinator Mr Chris Poonian – Research Coordinator Mr Angus McVean - Assistant Research Coordinator	<i>No. of professional staff provided by SEE:</i> 3
<p>AIM To feed into the activities of MICA and complement the project already underway. Misali was gazetted as a Conservation Area in May 1998. The Misali Island Conservation Association (MICA) formed in February 1998 is implementing a community based natural resources management project, supported by CARE Tanzania.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To conduct baseline surveys assessing the status, distribution and threats to the marine habitats of Misali Island and surrounding areas with identification of critical areas for management and protection • To train fisheries officers, local resource users, UDSM students and Misali Island Marine Conservation Area personnel in marine habitat and resource survey techniques • To work with community representatives and teachers, in conjunction with the Misali Island Conservation Association to increase the environmental awareness of the coastal communities of Pemba • To produce ideas and resource material for local school teachers • To assess the marine resources surrounding Misali Island and, in collaboration with local stakeholders, devise a management plan to address specific aspects of marine and coastal ecology 	

OUTPUTS

- Training in marine biodiversity survey, resource use and ecological monitoring, ecological research and monitoring, biodiversity conservation, sustainable fisheries resource use
- Community education and public awareness raising
- Production of technical reports, land-use and biodiversity zonation maps, and scientific papers

Project Summary Sheet

<p><i>Project name:</i> Marine Environmental Education and Training Project: Pemba</p>	<p><i>Country:</i> Tanzania</p>
<p><i>Project location within country:</i> Tundua, Kilindi Area, Pemba Island, Zanzibar Archipelago</p>	<p><i>Collaboration name:</i> Frontier -Tanzania</p>
<p><i>Name of client:</i> N/A</p>	<p><i>Financed by (if different from client):</i> DfID Small Grants Scheme, Tanzania</p>
<p><i>Start date:</i> July 2002 <i>Completion date:</i> June 2003</p>	<p><i>Approx. value of services:</i> US\$ 22,000</p>
<p><i>Name of associate if any:</i> University of Dar es Salaam, Tanzania; Department of Commercial Crops Fruits and Forestry (DCCFF) and Department of fisheries and Marine Products (DFMP), Zanzibar Revolutionary Government; Institute of Marine Sciences, Zanzibar (IMS)</p>	<p><i>No. of professional staff provided by associate:</i> N/A</p>
<p><i>Staff involved and functions performed:</i> Ms Carol Daniels - Project Coordinator Mr Angus McVean - Assistant Research Coordinator Mr Ambakisye Simtoe - Environmental Education Officer</p>	<p><i>No. of professional staff provided by SEE:</i> 3</p>

AIMS

To raise awareness of marine environmental issues among school children and community members in the Kilindi area and to increase local capacity to manage the marine resources.

OBJECTIVES

- To conduct participatory one-day events involving local schools to help pupils understand marine environmental issues
- To produce marine environment resource packs for environmental education and raising awareness
- To conduct one-day workshops for teachers to help introduce marine environmental issues to students along with the production of a teacher handbook
- To hold a participatory workshop, in partnership with the Misali Island Conservation Association, involving DCCFF staff and local community representatives, to estimate resource use
- To train graduates and final year students (x 4) from IMS and UDSM over 10 weeks for a BTEC diploma in Tropical Habitat Conservation. This involves lectures in marine ecology; snorkel survey approaches and techniques; biodiversity and fisheries data collection and management and SCUBA techniques
- To provide a two week training programme for fisheries officers and community representatives involving: marine ecology and snorkel survey approaches and techniques; fisheries data collection; mangrove surveys and small boat handling

OUTPUTS

- Two week training programme for 6 fisheries officers and community representatives carried out
 - Production of training materials
 - Award of BTEC diploma
 - Educational training and awareness raising for school children
- Production of teachers handbook

Project Summary Sheet

<i>Project name:</i> Biodiversity Surveys of Mikindani Bay	<i>Country:</i> Tanzania
<i>Project location within country:</i> Mikindani Bay	<i>Collaboration name:</i> Frontier-Tanzania
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> June 2005	<i>Completion date:</i> December 2005
<i>Approx. value of services:</i> US\$ Ongoing	
<i>Name of associate if any:</i> The University of Dar Es Salaam, Tanzania	<i>No. of professional staff provided by associate:</i> 2
<i>Staff involved and functions performed:</i> Mr. Mark Gillies – Country Coordinator Mr. Stephen Lockwood – Assistant Country Coordinator Ms. Guilia Wagner – Project Coordinator Ms. Ilse Cornellison - Assistant Research Coordinator Mr. Ed Hilsdon - Assistant Research Coordinator Mr. Larry Yeomans - Dive Officer Ms. Megan Daniel - Dive Officer	<i>No. of professional staff provided by SEE:</i> 7

AIM

To identify key sites of high biological diversity and conservation value and raise awareness in the local communities of marine conservation issues.

OBJECTIVES

- To conduct baseline data surveys of reef areas; mapping coral reefs, sea grass beds and mangroves around Mikindani Bay.
- To identify current patterns of resource use and dependence levels by local communities.
- To compare survey results with those from previous Frontier surveys in the area.
- To work with local communities to build awareness of the value and vulnerability of marine ecosystems.
- To work with local community interest groups to produce recommendations for the sustainable management of these important marine resources.
- To build capacity within local communities for the sustainable management of the marine resources.
- To work with local scientists, students and fisheries officers, in the development and implementation of marine resource monitoring systems.
- To provide information to in-country protected area managers to enable improved management strategies and non-destructive resource use.

OUTPUTS

Project Summary Sheet

<i>Project name:</i> Biodiversity Surveys of Mafia Island Marine Park	<i>Country:</i> Tanzania
<i>Project location within country:</i> Mafia Island	<i>Collaboration name:</i> Frontier-Tanzania
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> January 2006	<i>Completion date:</i> Ongoing
<i>Approx. value of services:</i> US\$ Ongoing	
<i>Name of associate if any:</i> The University of Dar Es Salaam, Tanzania	<i>No. of professional staff provided by associate:</i> 2
<i>Staff involved and functions performed:</i> Miss Jenny Laidlaw – Acting Country Coordinator Mr Luke Hately-Broad – Research Coordinator Mr Jack Clark – Volunteer Assistant Research Coordinator Ms. Lindsey West – Volunteer Assistant Research Coordinator Mr Max Edkins – Volunteer Assistant Research Coordinator Ms Emily Coates – Dive Officer	<i>No. of professional staff provided by SEE:</i> 7

AIM

To identify key sites of high biological diversity and conservation value, raise awareness in the local communities of marine conservation issues and quantify the value of marine parks as conservation tools.

OBJECTIVES

- To conduct baseline data surveys of reef areas; mapping coral reefs, sea grass beds and mangroves around Mafia Island.
- To identify current patterns of resource use and dependence levels by local communities.
- To compare survey results with those from previous Frontier surveys on Mafia Island.
- To work with local communities to build awareness of the value and vulnerability of marine ecosystems.
- To work with local community interest groups to produce recommendations for the sustainable management of these important marine resources.
- To build capacity within local communities for the sustainable management of the marine park.
- To work with local scientists, students and fisheries officers, in the development and implementation of marine resource monitoring systems.
- To provide information to in-country protected area managers to enable improved management strategies and non-destructive resource use.

OUTPUTS

Project summary Sheet

<p><i>Project name:</i> Kilombero Valley Integrated Environmental Management Project</p>	<p><i>Country:</i> Tanzania</p>
<p><i>Project location within country:</i> Kilombero and Ulanga Districts, Morogoro, Tanzania</p>	<p><i>Collaboration name:</i> Frontier -Tanzania</p>
<p><i>Name of client:</i> N/A</p>	<p><i>Financed by (if different from client):</i> National Lottery Charities Board (UK)</p>
<p><i>Start date:</i> April 1998</p>	<p><i>Completion date:</i> April 2002</p>
<p><i>Name of associate if any:</i> Ulanga Foundation for Environment and Development Activities University College of Land and Architectural Studies, University of Dar es Salaam, Tanzania</p>	<p><i>No. of professional staff provided by associate:</i> 2</p>
<p><i>Senior staff involved and functions performed:</i> Mr John Chettleborough -Project Coordinator Dr Richard Jenkins - Research Coordinator Ms Kirsten Roettcher - Forestry Technical Officer Mr Graham Corti - Assistant Research Coordinator Mr Simon Magesa - Local Coordinator</p>	<p><i>No. of professional staff provided by SEE:</i> 5</p>

AIM

To undertake an integrated programme of biodiversity monitoring, resource-use assessment and capacity building encompassing four main elements.

OBJECTIVES

- To conduct baseline biodiversity research using systematic methodology to enable comparison and as a baseline for ecological monitoring based in both miombo woodland and forest reserves. This includes the development of a miombo woodland classification system based on species composition and associated physical conditions and community resource use
- To devise and implement a programme of rapid/participatory rural appraisal to determine patterns of local resource use and management
- To raise local awareness of natural resource management and conservation issues to determine resource needs and enable formulation of village-based natural resource management plan
- To develop a monitoring programme to assess sustainability of fisheries based at selected locations on the river
- To train local government officers and selected community members in ecological survey and monitoring techniques to build local capacity for natural resource management and conservation. This training will provide transferable skills and technical support to local CBOs in community mobilisation, organisation of stakeholder groups and specific sustainable use technologies

OUTPUTS

- Biodiversity survey and monitoring, ecological research and monitoring inland fisheries
- Training in monitoring and assessment techniques
- Production of technical reports, scientific papers and development of a woodland classification system
- Production of a Kilombero Valley species database

Project Summary Sheet

<i>Project name:</i> Kilombero Valley Biological Surveys	<i>Country:</i> Tanzania
<i>Project location within country:</i> Kilombero Valley, Ulanga District, Morogoro Region, Tanzania	<i>Collaboration name:</i> Frontier-Tanzania
<i>Name of client:</i> Kilombero Valley Teak Company	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> June 2001	<i>Completion date:</i> February 2004
<i>Name of associate if any:</i> The University of Dar es Salaam, Tanzania	<i>Approx. value of services:</i> US\$ 65,000
<i>Senior staff involved and functions performed:</i> Ms Jessica Ward - Project Coordinator Ms Esther Ball – Researcher	<i>No. of professional staff provided by associate:</i> 2
<i>No. of professional staff provided by SEE:</i> 2	
<p>AIM To monitor large mammals conducted in a variety of habitats; miombo woodland, grassland, shamba and teak plantations. The methodology enables identification of seasonal and annual variation of habitat utilisation by different large mammal species ranging from the small Dik Dik to the African elephant.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To record indirect observations by noting evidence of tracks and dung along standardised transects • To assess the biodiversity value of patches of miombo woodland, that have been chosen for clear felling to convert to teak plantation, using three taxa groups, small mammals, large mammals and butterflies. • To make recommendations to conserve areas of miombo based on the results of the assessment, i.e. if a number of IUCN red listed species are recorded or if the location has comparatively high species richness and diversity • To assess the edge effect of teak on the surrounding miombo woodland in terms of both flora and fauna • To position study stations at increasing distances from the teak into the miombo, where permanent vegetation plots are located. • To position trapping stations to record small mammals, reptiles, amphibians and butterflies • To utilise sand transects to record the presence of large mammal species • To assess the permeability of teak to the movement of large mammals at three study sites, each within teak plantation of 8 years or older. At each site three sand transects are positioned at increasing distances into the teak and searched each day over a ten day period for signs (tracks and dung) of large mammal species 	

OUTPUTS

- Ecological research and monitoring
- Training in biodiversity survey and monitoring
- Training in BTEC Tropical Habitat Conservation
- Production of technical reports and management recommendations

Project Summary Sheet

<i>Project name:</i> Kipengere Proposed Game Reserve Biodiversity Survey	<i>Country:</i> Tanzania
<i>Project location within country:</i> The Southern Highlands, Njombe and Makete Districts, Iringa and Mbeya Regions, Tanzania	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> WWF Tanzania Wildlife Division, Ministry of Natural Resources and Tourism, Tanzania	<i>Financed by (if different from client):</i> WWF International Society for Environmental Exploration (SEE)
<i>Start date:</i> July 2002	<i>Completion date:</i> June 2003
<i>Name of associate if any:</i> The University of Dar es Salaam, Tanzania	<i>Approx. value of services:</i> US\$ 74,000
<i>Senior staff involved and functions performed:</i> Ms Jessica Ward – Project Coordinator Ms Samantha Staddon - Research Coordinator Ms Claire Bracebridge - Research Coordinator	<i>No. of professional staff provided by associate:</i> 2
<i>No. of professional staff provided by SEE:</i> 3	
<p>AIM To conduct a biodiversity assessment of the Mpanga/Kipengere Proposed Game Reserve using standard survey methods and to provide training in these methods to project participants</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To include a baseline biodiversity survey of Kipengere Game Reserve (approximate area: 1,500 sq. kilometres, 150,000 hectares) studying birds, mammals, amphibians, reptiles, invertebrates, trees and shrubs over a period of two phases (wet and dry season) • To train local Game Guards and villagers in biodiversity research techniques to build local capacity • To produce one Biodiversity Report to include all animal, plant and resource use data, analysis and evaluation in an easily accessible format that is targeted at reserve managers rather than the scientific community. These reports are thus a compromise in terms of scientific content and information for the resource manager • To write and publish scientific literature in peer-reviewed journals. 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> • Baseline biodiversity research and monitoring • Training in tropical forest biodiversity survey and monitoring • Data analysis and evaluation • Production of technical reports, management recommendations and scientific papers. 	

Project Summary Sheet

<i>Project name:</i> Tanganyika Wattle Co. Ltd Environmental Education Course (TWEEC)	<i>Country:</i> Tanzania
<i>Project location within country:</i> Tanganyika Wattle Company, Head Office, Kibenza, Njombe	<i>Collaboration name:</i> Frontier -Tanzania
<i>Name of client:</i> Tanganyika Wattle Company Ltd (TanWat)	<i>Financed by (if different from client):</i> Tanganyika Wattle Company Ltd
<i>Start date:</i> August 2004	<i>Completion date:</i> September 2004
<i>Approx. value of services:</i> US\$ 7, 000	
<i>Name of associate if any:</i> The University of Dar es Salaam, Tanzania	<i>No. of professional staff provided by associate:</i> N/A
<i>Staff involved and functions performed:</i> Freya St. John – Country Coordinator Paul Rubio – Programme Manager	<i>No. of professional staff provided by SEE:</i> 2
<p>AIMS For local managers of TanWat to grasp and action the basic principals of environmental good practice. Specifically increased consciousness of their effects on the immediate environment e.g. for staff to stop littering and spilling oil. With the knowledge gained the client hopes that staff will develop an understanding and commitment to protecting the environment, linking in with the Company image and ethos.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To devise a course that will impart a basic knowledge of environmental issues and foster environmental responsibility. • To include the following topics within the course structure <ul style="list-style-type: none"> -Introduction to the meaning of ecology -Introduction to the meaning of biodiversity -Environment: natural and manmade -Threats to the local environment (issues to be relevant to the attendees) -Causes of environmental degradation (issues to be relevant to the attendees) -Personal responsibility / community responsibility -Promotion of sound environmental practices -Awareness of illegal activities detrimental to the environment; poaching / firewood collection • To formulate a continuation of course through the training of trainers. At this stage the client is not concerned with the training of trainers, although the training of Trainers could become a real possibility in the future. 	

OUTPUTS

- Three days spent training 15 TanWat staff
- Preparation of handouts
- Training in good environmental practice.

Project Summary Sheet

<i>Project name:</i> Kilombero Valley Biological Surveys	<i>Country:</i> Tanzania	
<i>Project location within country:</i> Kilombero Valley, Ulanga and Kilombero Districts, Morogoro Region, Tanzania	<i>Collaboration name:</i> Frontier -Tanzania	
<i>Name of client:</i> Kilombero Valley Teak Company (KVTC)	<i>Financed by (if different from client):</i> KVTC	
<i>Start date:</i> October 2004	<i>Completion date:</i> ongoing	<i>Approx. value of services:</i> US\$ 35,000
<i>Name of associate if any:</i> University of Dar es Salaam, Tanzania	<i>No. of professional staff provided by associate:</i> N/A	
<i>Staff involved and functions performed:</i> Jenny Laidlaw – Acting Country Coordinator Adam Seward – Research Coordinator Tuula Salonen – Assistant Research Coordinator Heidi Mansell – Volunteer Assistant Research Coordinator	<i>No. of professional staff provided by SEE:</i> 8	
<p>AIMS To raise awareness of the biodiversity values of the Kilombero Valley nationally and internationally through the description of species and species range extensions. To contribute to global biodiversity assessment and conservation efforts through collaboration with specialists, and the sharing of information, data and material collected during the surveys.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To conduct baseline floral and faunal biological surveys in selected areas of miombo woodland not adjacent to teak stands. This is to assess the area for its biodiversity value using indicator taxa. The information is then applied to management strategies to be conducted both within and outside the boundaries of KVTC leased land. • To compare the effect of two different heights of fence on large mammal movement in the local environs. Young teak plants are protected from elephant damage using electric fencing. It is believed that the fence with a 0.5m height gap can restrict movement of the smaller large mammals which is thought to not cause damage to the teak stands. Method used is to remove the bottom rungs on fences to produce a gap height of 1.5m. Camera traps will be used to test the efficacy of these changes and to compare the large mammal movements of the two fence gap heights. • To make recommendations to ensure a cost-effective outcome for the proposed changes 		

OUTPUTS

- Baseline biodiversity surveys of *miombo* woodland conducted in both the wet and dry seasons in the Mafinji and Nakafulu areas. Mammals, birds, reptiles, amphibians and butterflies used as indicator taxa
- Monitored the effect of applied management initiatives on mammal movements
- Mounted 3 camera traps upon appropriate sections of electrical fence to be checked once weekly or as considered appropriate;
- Post hoc analysis, for more specific mammal species activities and behaviour acquired by camera traps

Project Summary Sheet

<i>Project name:</i> Wildlife Protected Areas Project	<i>Country:</i> Uganda
<i>Project location within country:</i> Selected National Parks, Uganda	<i>Collaboration name:</i> Frontier -Uganda
<i>Name of client:</i> Uganda Wildlife Authority (UWA)	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> July 1993	<i>Completion date:</i> April 1998
<i>Approx. value of services:</i> US\$ 385,000	
<i>Name of associate if any:</i> Makerere University Institute of Environment and Natural Resources and the Department of Zoology; and the World Conservation Union (IUCN), Uganda.	<i>No. of professional staff provided by associate:</i> N/A
<i>Senior staff involved and functions performed:</i> Ms Rebecca Philips- Country Coordinator Ms Karen Zwick - Research Coordinator Ms Julia Lloyd- Assistant Research Coordinator Ms Helen McGregor-Assistant Research Coordinator	<i>No. of professional staff provided by SEE:</i> 4
<p>AIM To carry out baseline biodiversity research in selected Game Reserves in order to provide information on both the biological value and socio-economic situation in protected areas.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To carry out work out under a Memorandum of co-operation with the Uganda Wildlife Authority • To involve standardised baseline surveys of selected groups of flora and fauna using systematic survey techniques • To undertake socio-economic surveys of communities surrounding the protected areas to determine their attitudes towards and impacts on the natural resources • To devise simple monitoring schemes to evaluate the effects of management and to train UWA field staff to undertake them 	

OUTPUTS

- Improved UWA capacity to collect baseline biological and socio-economic data and conduct future long-term monitoring in the protected areas
- Three Ugandan game biologists worked with Frontier-Uganda in the field and over 60 Game Guards assisted with all aspects of the research programme
- Eight protected areas have been surveyed by Frontier-Uganda
- The results of the surveys published as a series of site reports to assist the Ministry of Tourism, Wildlife and Antiquities and the Uganda Wildlife Authority in the planning and management of conservation
- Data published as both scientific and popular articles to raise awareness of Uganda's biodiversity and conservation importance and contribute to existing information at the national and international level.
- Built a Kanyanchu primate camp and visitor centre in Kibale Forest

Project Summary Sheet

<i>Project name:</i> Ssesse Islands Biodiversity Project		<i>Country:</i> Uganda
<i>Project location within country:</i> Ssesse Islands, Lake Victoria, Uganda		<i>Collaboration name:</i> Frontier -Uganda
<i>Name of client:</i> Uganda Wildlife Authority (UWA)		<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE)
<i>Start date:</i> Oct 1997	<i>Completion date:</i> March 1998	<i>Approx. value of services:</i> US\$ 77,500
<i>Name of associate if any:</i> Wildlife Clubs of Uganda District Natural Resource Management Authorities		<i>No. of professional staff provided by associate:</i> N/A
<i>Senior staff involved and functions performed:</i> Ms Rebecca Philips – Country Coordinator Ms Julia Lloyd - Research Coordinator Ms Liana Joseph – Assistant Research Coordinator Mr Owen Williams - Logistics Coordinator		<i>No. of professional staff provided by SEE:</i> 4
<p>AIM To carry out baseline biodiversity research in selected areas of Uganda in order to provide information on both the biological value and socio-economic situation in these selected areas.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To carry out work under a Memorandum of Co-operation with the Uganda Wildlife Authority • To involve involved standardised baseline surveys, of selected groups of flora and fauna using systematic survey techniques, in the Ssesse Islands Biodiversity Project work programme • To undertake a survey of community fishery activity, using standardised fisheries survey techniques to assess species diversity and richness and to investigate levels of fisheries resource use with reference to species and habitat type by the local communities • To provide training in biological survey techniques, ecological research and monitoring and public awareness raising 		

OUTPUTS

- Seven of the Ssesse Islands included in the survey programme
- Results produced as a series of site reports to assist the Uganda Wildlife Authority, the Wildlife Clubs of Uganda and the District Natural Resource Management Authorities with the planning and management of conservation
- Training in baseline biological survey techniques, resource use and ecological research and monitoring
- Ecological research and monitoring
- Surveys of fish species diversity and richness and fisheries resource use
- Public awareness raising
- Production of technical reports and scientific papers

Project Summary Sheet

<i>Project name:</i> Biodiversity Conservation in Protected Forest Areas, northern Vietnam	<i>Country:</i> Vietnam
<i>Project location within country:</i> Northern Vietnam	<i>Collaboration name:</i> Frontier -Vietnam
<i>Name of client:</i> Institute of Ecology and Biological Resources, Hanoi	<i>Financed by (if different from client):</i> Society for Environmental Exploration (SEE), British Petroleum (Vietnam) Ltd., Hong Kong Shanghai Bank (Vietnam), Cable & Wireless, Vietnam
<i>Start date:</i> June 1993	<i>Completion date:</i> December 2003
<i>Name of associate if any:</i> National University of Hanoi	<i>Approx. value of services:</i> US\$ 510,000
<i>Senior staff involved and functions performed:</i> Mr Neil Furey - Research Coordinator Mr Anthony Day - Assistant Research Coordinator Ms Noelle Kumple - Assistant Research coordinator Ms Nguyen Thu Hien – Liaison Officer	<i>No. of professional staff provided by associate:</i> 1 <i>No. of professional staff provided by SEE:</i> 4
<p>AIM To implement an in-country programme of biological survey, ecological monitoring and training.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To conduct a field-based programme that can provide an opportunity for field-based biological and socio-economic research by Vietnamese technical staff • To train Vietnamese graduate students in ecological survey and monitoring techniques developed for tropical forests in South East Asia • To co-ordinate a programme of baseline biodiversity surveys in selected forests of northern Vietnam • To carry out participatory rural appraisal exercises among local communities to determine patterns of resource use and their impact on remnant natural forest • To compile resource-use assessments to identify community needs and determine rural development priorities • To carry out programme in conjunction with the Institute of Ecology and Biological Resources and the University of Hanoi who will provide additional technical support through qualified staff 	

OUTPUTS

- Over 40 Vietnamese students have received training in forest habitat and species assessment and the applied use of this information for ecological monitoring
- Production of a manual containing biodiversity survey techniques for key taxonomic groups to be used as a training aid
- The completion of seven protected forest areas surveys
- Presentation of survey results as a series of technical reports and detailed maps for the area indicating "hotspots"
- Documentation of significant range extensions for all taxonomic groups and discovery of 32 new species of Lepidoptera
- Data provided to act as a tool for the development of a management plan for these forests

Project Summary Sheet

<i>Project name:</i> Integrated Environmental Education Programme in Hoang Lien Mountains Nature Reserve	<i>Country:</i> Vietnam
<i>Project location within country:</i> Sa Pa District, Lao Cai Province, Vietnam	<i>Collaboration name:</i> Frontier -Vietnam
<i>Name of client:</i> Institute of Ecology and Biological Research, Hanoi	<i>Financed by (if different from client):</i> Royal Dutch Embassy - Local Environment Fund, Society for Environmental Exploration (SEE)
<i>Start date:</i> March 1998	<i>Completion date:</i> March 1999
<i>Name of associate if any:</i> Sa Pa District People's Authority	<i>Approx. value of services:</i> US\$ 27,500
<i>Senior staff involved and functions performed:</i> Mr Andrew Tordoff - Community Education Specialist Mr Mark Grindley - Socio-Economist Mr Richard Sobey - Programme Manager	<i>No. of professional staff provided by associate:</i> 1 <i>No. of professional staff provided by SEE:</i> 3
<p>AIM To increase the awareness of environmental issues, problems and potential solutions, among key social figures within the community. These include Commune leaders and teachers as well as school children and tourists visiting the Sa Pa region.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To devise a short-term environmental education programme targeting both local residents and visitors to the Hoang Lien Mountains Nature Reserve (HLMNR), Sa Pa District, Northern Vietnam • To include an environmental awareness poster campaign held among primary schools in the area • To conduct two workshops focusing firstly, on providing a forum for local decision makers and commune leaders to acquire and discuss information on conservation issues and secondly, as a forum for proposing locally produced conservation initiatives • To provide short environmental awareness training sessions for teachers, commune leaders, reserve staff and hoteliers • Conduct a nature trail feasibility study 	

OUTPUTS

- Production of an environmental education manual and booklet to supplement training and provide a template for future training initiatives in this and other areas
- A three-month feasibility study of the implementation of a pilot nature trail and information board for the reserve entrance
- A series of information pamphlets for visitors including a code of practice for culturally sensitive tourism and a conservation leaflet on areas of natural and cultural interest.

Project Summary Sheet

<i>Project name:</i> Income Generating Medicinal and Ornamental Plant Production in Sa Pa District, Lao Cai Province	<i>Country:</i> Vietnam
<i>Project location within country:</i> Sa Pa District, Lao Cai Province, Vietnam	<i>Collaboration name:</i> Frontier -Vietnam
<i>Name of client:</i> Institute of Ecology and Biological Research, Hanoi	<i>Financed by (if different from client):</i> New Zealand Embassy and Royal Netherlands Embassy
<i>Start date:</i> December 1998 <i>Completion date:</i> February 2001	<i>Approx. value of services:</i> US\$ 25,000
<i>Name of associate if any:</i> San Sa Ho & Lao Chai Commune Farmers; Medicinal Plant Centre, Sa Pa & Ham Rong Tourism Project	<i>No. of professional staff provided by associate:</i> 1
<i>Senior staff involved and functions performed:</i> Mr Richard Sobey - Programme Manager Mr Le Xuan Hieu - Project Officer	<i>No. of professional staff provided by SEE:</i> 2
<p>AIMS To contribute to the sustainable livelihoods of two communes within a national nature reserve and to alleviate pressure on the natural resources of this reserve. To improve the income generating potential for local farmers lessening forest collection and forest land-use in general and meeting demand in these collected plants and thus stem indiscriminate and illegal collecting by outsiders.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To use existing government and business organisational structures as conduits for development work • To determine seed sources and the ability to be propagated from stock plants • To conduct a trial growth of a number of selected plants for subsequent on-farm production through trial and on-farm plots of selected medicinal plants • To identify two commune demonstration areas • To provide two horticultural training workshops for the farmers of the two named communes and identify two key farmers as commune representatives to act as local extension agents • Allocate seasonal study days for the farmers to visit the trial plots • To analyse market to ensure profitability for the farmers selected • To produce a pocket-sized growers manual 	

OUTPUTS

- Conducted a trial production of a 'top ten' medicinal and a 'top ten' ornamental plants native to the mountainous region
- Initiated local farmer production of between 5 and 10 of these species
- Created two farmers co-operatives through the Commune People's Committee structures
- Produced a growers pocket manual

Project Summary Sheet

<i>Project name:</i> International Training Scheme	<i>Country:</i> Vietnam
<i>Project location within country:</i> Hoang Lien Son Nature Reserve Headquarters, Sa Pa District, Lao Cai Province	<i>Collaboration name:</i> Frontier -Vietnam
<i>Name of client:</i> Institute of Ecology and Biological Research, Hanoi	<i>Financed by (if different from client):</i> Royal Danish Embassy - Local Environment Fund
<i>Start date:</i> March 1998	<i>Completion date:</i> December 2003
<i>Name of associate if any:</i> Hoang Lien Song Nature Reserve	<i>Approx. value of services:</i> US\$ 11,000
<i>Senior staff involved and functions performed:</i> Mr Richard Sobey - Programme Manager Mr Nguyen Duc Tu - Course facilitator	<i>No. of professional staff provided by associate:</i> N/A
<i>No. of professional staff provided by SEE:</i> 2	
<p>AIM To be a catalyst for local conservation and rural development in the Sa Pa District.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To conduct a three-day workshop and four-day training programme to discuss a conservation strategy for Hoang Lien Son Nature Reserve. This will strengthen the capacity of local institutions to identify problems, raise awareness of, and formulate strategies for renewable forest resource utilisation. • To use workshop to target key members of the Lao Cai Provincial People’s Committee, District Committee members and senior officers from the nature reserve and forest protection office. • To use training programme to target ward or community level representatives and representatives of local non-governmental organisations. • To train and direct local authorities toward sustainable forest use • To provide those involved with insights into rural development such as local empowerment through community based organisations, self help opportunities through income generating activities including sustainable resource utilisation and local conservation practice. • To set up pilot community-based organisations in selected villages and assess their impact on patterns of resource use in the following 6 months 	

OUTPUTS

- Training in issues of sustainable forest use
- Pilot projects in community-resource management
- Production of conservation management materials
- Production of a written output consisting of a set of practical conservation management initiatives for the nature reserve
- An assessment of further training requirements and follow up support

Project Summary Sheet

<i>Project name:</i> Sa Pa Integrated Environmental Education Project	<i>Country:</i> Vietnam
<i>Project location within country:</i> Sa Pa District, Lao Cai Province, northern Vietnam	<i>Collaboration name:</i> Frontier -Vietnam
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> National Lottery Charities Board (UK)
<i>Start date:</i> January 2001	<i>Completion date:</i> February 2004
<i>Approx. value of services:</i> US\$ 300, 000	
<i>Name of associate if any:</i> Institute of Ecology and Biological Research, Hanoi	<i>No. of professional staff provided by associate:</i> N/A
<i>Staff involved and functions performed:</i> Mr Tomas Osborn - Botanical technical advisor Mr Le Xuan Hieu - Environmental education project officer Miss Do Thi Thu Ha - Linguistic technical officer	<i>No. of professional staff provided by SEE:</i> 3
<p>AIM To increase environmental awareness and disseminate information on the sustainable use of natural resources. The project will establish an environmental curriculum for long-term improvement in environmental awareness in local communities. It will address the issues of living standards and income generation and will improve the ability of local people to manage their resources in a way that brings direct community benefit.</p>	
<p>OBJECTIVES</p> <ul style="list-style-type: none"> To train teachers in all schools in the district in environmental awareness through workshops and study tours, Produce a teachers manual, a students handbook and an environmental education leaflet To train Local community based organisations, the "Sa Pa District Youth Association" and the "Sa Pa District Farmers Association" , in environmental affairs To develop curriculum through co-operation with the local Department of Education and Training, local teachers and residents. 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> Training in environmental education techniques Development of a curriculum Environmental awareness raising Training in horticultural techniques Production of training materials and information guides A ten-fold increase in income for participating local farmers through the expansion of a successful medicinal and ornamental plant - growing scheme piloted by Frontier-Vietnam. 	

Project Summary Sheet

<i>Project name:</i> Huu Lien Nature Reserve Environmental Education Project	<i>Country:</i> Vietnam	
<i>Project location within country:</i> Huu Lien Nature Reserve, Huu Lung District, Lang Son Province	<i>Collaboration name:</i> Frontier -Vietnam	
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> CfBT/ The English Speaking Union Society for Environmental Exploration (SEE)	
<i>Start date:</i> March 2001	<i>Completion date:</i> September 2001	<i>Approx. value of services:</i> US\$ 3,838
<i>Name of associate if any:</i> Institute of Ecology and Biological Research, Hanoi	<i>No. of professional staff provided by associate:</i> N/A	
<i>Staff involved and functions performed:</i> Ms Leanne Clark – Project Facilitator Mr Nguyen Duc Long – Technical Assistant	<i>No. of professional staff provided by SEE:</i> 2	
<p>AIM To promote conservation of natural resources in the Huu Long District by raising awareness of conservation issues among local people. The Huu Lien Nature Reserve was nominated for National Park status and Frontier-Vietnam was invited to conduct baseline biodiversity research within the reserve (conducted April – September 2000). At a workshop held with the Provincial and District authorities and the local community the need for environmental education within the community became apparent</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To provide teachers in Huu Lung District with the necessary training to begin to teach environmental education in schools • To provide training materials such as an environmental education manual • To organise a planning workshop to establish current levels of awareness and identify areas of interest. To involve teachers representing the 10 main schools in the District, commune leaders, representatives of the District Department of Education and Training, and staff of the Nature Reserve • To develop a Teachers' Environmental Education Manual drawing on an earlier example developed by Frontier Vietnam and incorporating local environmental issues, needs and interests • To organise a training workshop to introduce the manual and to provide training on its use and various activities • To conduct school visits to participating schools to assist with the integration of environmental education activities into the curriculum 		

OUTPUTS

- Development and production of environmental education manual
- Training in environmental education techniques and activities
- Environmental awareness raising and school visits
- Capacity building

Project Summary Sheet

<i>Project name:</i> Bai Tu Long Bay Biodiversity Awareness Project	<i>Country:</i> Vietnam
<i>Project location within country:</i> Bai Tu Long Bay National Park, Quang Ninh Province	<i>Collaboration name:</i> Frontier -Vietnam
<i>Name of client:</i> N/A	<i>Financed by (if different from client):</i> Darwin Initiative (UK Department for Environment, Food & Rural Affairs) Society for Environmental Exploration (SEE)
<i>Start date:</i> October 2001	<i>Completion date:</i> December 2003
<i>Approx. value of services:</i> US\$ 207,620	
<i>Name of associate if any:</i> Institute of Ecology and Biological Research, Hanoi Institute of Oceanography, Hanoi / Hai Phong	<i>No. of professional staff provided by associate:</i> N/A
<i>Staff involved and functions performed:</i> Mr Leo Bottrill - Project Manager Mr Daniel Burns - Environmental Educator Ms Nguyen Thu Hien - Counterpart Environmental Educator	<i>No. of professional staff provided by SEE:</i> 3
<p>AIM To raise biodiversity awareness and to facilitate conservation measures in the newly established National Park at Bai Tu Long Bay in line with the Socialist Republic of Vietnam's National Biodiversity Action plan.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To establish a Biodiversity Interpretation Centre for the Bai Tu Long Bay National Park to help provide biodiversity awareness, identification, and monitoring training to national park management staff and Vietnamese post-graduate students • To organise four Biodiversity Training Workshops involving British taxonomic experts to provide information and develop four bi-lingual taxonomic field guides, specific to the national park • To encourage attendees at the biodiversity training workshops to participate in the collection and collation of data for these guides as ongoing practical training. • To design biodiversity information boards following each workshop, for display in the interpretation centre. These will form the backbone for biodiversity awareness activities organised by centre staff for the local community 	

OUTPUTS

- Establishment of biodiversity interpretation centre in Bai Tu Long Bay
- Biodiversity awareness raising and capacity building
- Training of national park management staff in data collection and data interpretation
- Production of field guides
- Initiated international co-operation among specialist taxonomists

Project Summary Sheet

<i>Project name:</i> Medicinal Plants Innovation Project	<i>Country:</i> Vietnam
<i>Project location within country:</i> Sa Pa District, Lao Cai Province, northern Vietnam	<i>Collaboration name:</i> Frontier -Vietnam
<i>Name of client:</i> Forest Herbs Research Ltd.	<i>Financed by (if different from client):</i> Asia Development Assistance Facility (NZAID)
<i>Start date:</i> Jan 2003	<i>Completion date:</i> Aug 2004
<i>Approx. value of services:</i> US\$ 44,500	
<i>Name of associate if any:</i> Institute of Ecology and Biological Research, Hanoi	<i>No. of professional staff provided by associate:</i> N/A
<i>Senior staff involved and functions performed:</i> Ms Do Thi Thu Ha - Project Coordinator	<i>No. of professional staff provided by SEE:</i> 1
<p>AIM To achieve the sustainable development of high value medicinal products from native species of conservation value (especially endemics to the Sa Pa region). It also aims to ensure that the economic benefits reach the local ethnic minority communities in an equitable manner.</p> <p>OBJECTIVES</p> <ul style="list-style-type: none"> • To assess the viability of production and primary processing of four selected medicinal plant species of conservation value, by ethnic minority smallholders in Sa Pa District, Vietnam • To evaluate the potential for developing an international market for value added natural products based on the selected medicinal plant species cultivated in Sa Pa District • To investigate the feasibility of linking ethnic minority smallholder farmers in Sa Pa with the identified international natural product markets, through the establishment of a medicinal plants enterprise and associated value chain • If the feasibility (described above) is positive, a second phase of the project will prepare for downstream implementation of the enterprise • To develop and disseminate the methodology used so that prospects for replication of this approach in other locations and communities is enhanced 	
<p>OUTPUTS</p> <ul style="list-style-type: none"> • Project co-ordination • Literature search • Production of monographs • Target species selection • Development of planting protocols, plant production trials • Community surveys, stakeholder workshops and consultation meetings • Production of feasibility reports 	