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OUTLINE

- Overview of incidents
- Incident location / remoteness
- Sensitivities
- Initial assessment / logistical issues
- Response logistics
- Response organisation
- Response implementation
- Waste management
- Conclusions

GULSER ANA, Faux Cap, Madagascar, 26th August 2009

- Bulk carrier (23,602 GT; Built 1985)
- Cargo: 39,000 MT of rock phosphate
- Grounding at Faux Cap Southern Madagascar
- Split up in rough seas
- 568 MT of IFO180 spilled



MS OLIVA, Tristan da Cunha, 16th March 2011



- Bulk carrier (40,170 GT; Built 2009)
- Cargo: 65,000 MT of soya beans
- Grounding on Nightingale Island,
 Tristan da Cunha
- Split up after two days
- 1,400 MT of IFO320 spilled

INCIDENT LOCATIONS / REMOTENESS

GULSER ANA

- Southern tip of Madagascar Faux Cap
- Remote location: road access from major city 3-4 days, 7 hrs from Fort Dauphin (airport)
- Impoverished nation with limited response capabilities
- Political difficulties (Coup d'Etat in March 2009)

Faux Cap

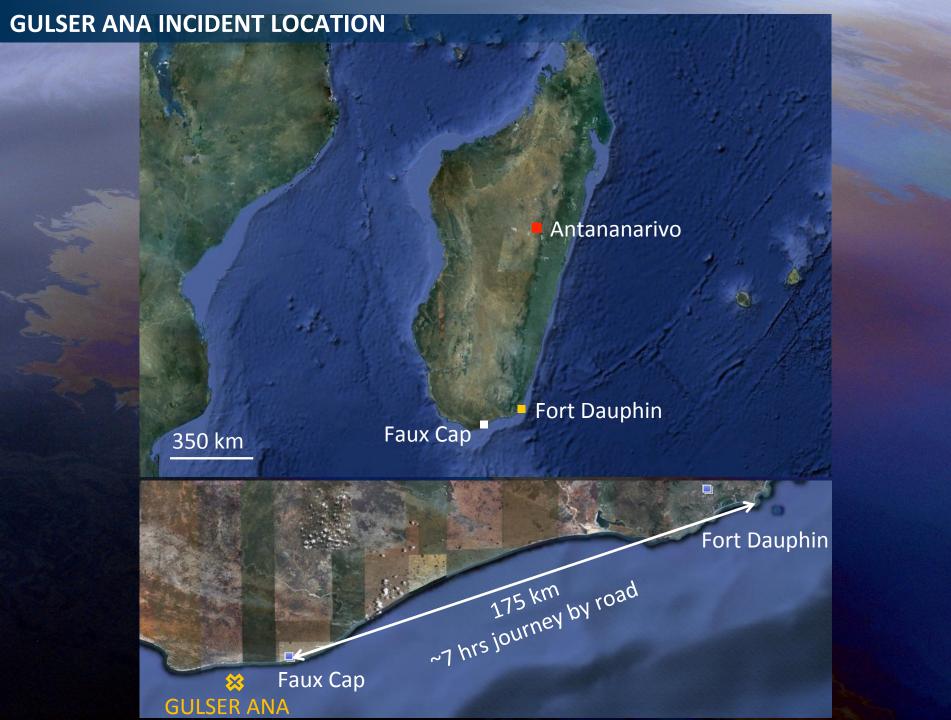
 Limited accommodation / limited fuel / supplies...

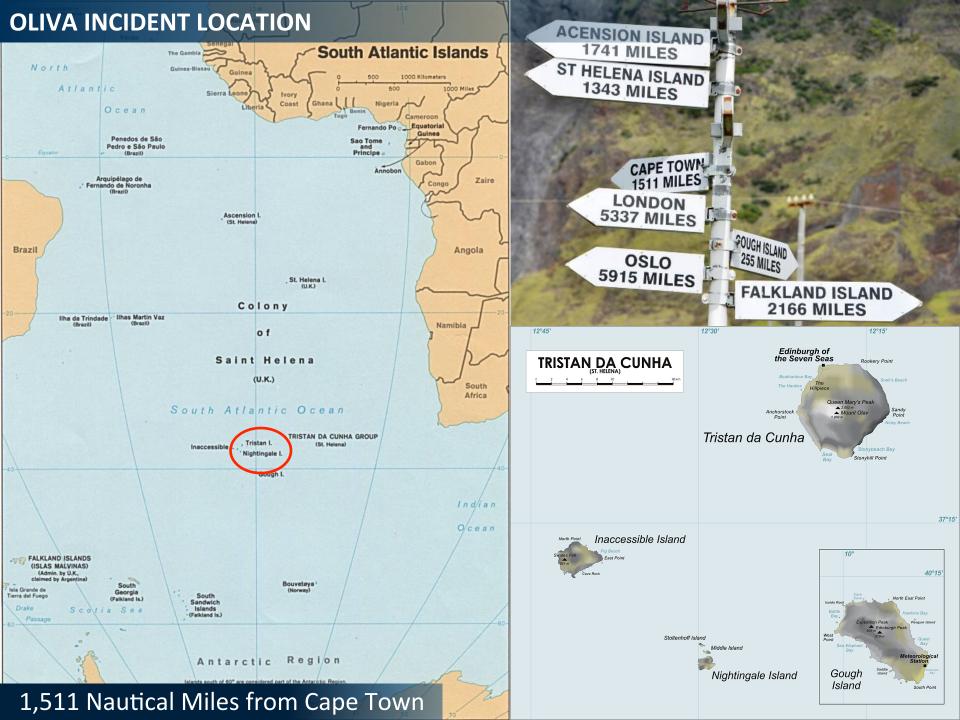
OLIVA

- Nightingale Island, Tristan da Cunha, South Atlantic, UK Overseas Territory
- No airstrip / 5-6 days sailing from Cape Town
- No response capacities UK agencies remote advice
- 262 inhabitants

Nightingale / Tristan da Cunha

- Nightingale: seabird territory
- Limited accommodation on Tristan da Cunha







GULSER ANA: SENSITIVITIES

- Subsistence fishing
- Commercial lobster fishery
- Shoreline water wells
- Widespread usage of shoreline:
 people and cattle pathway / drinking
 water / bathing washing

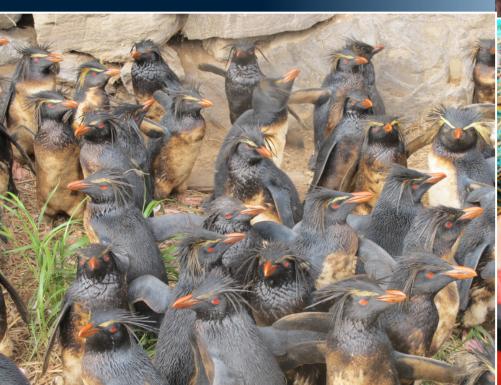






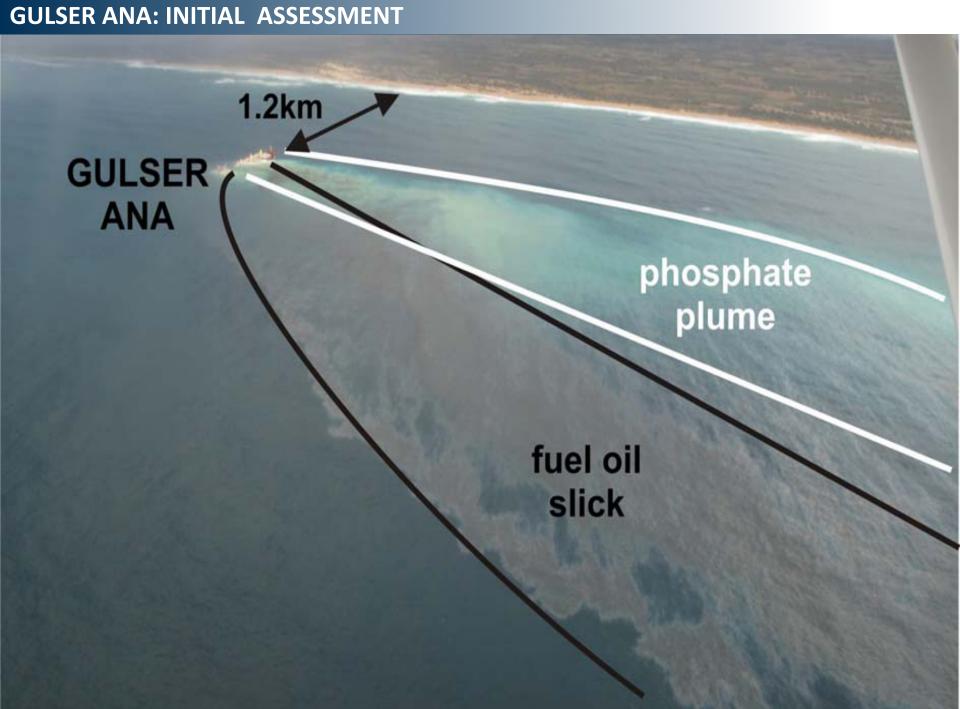
OLIVA: SENSITIVITIES

- Seabirds breeding colonies
- Lobster fishery
- Concerns with risk of rodent introduction
- Concerns with risk of non-native seeds/plants introduction



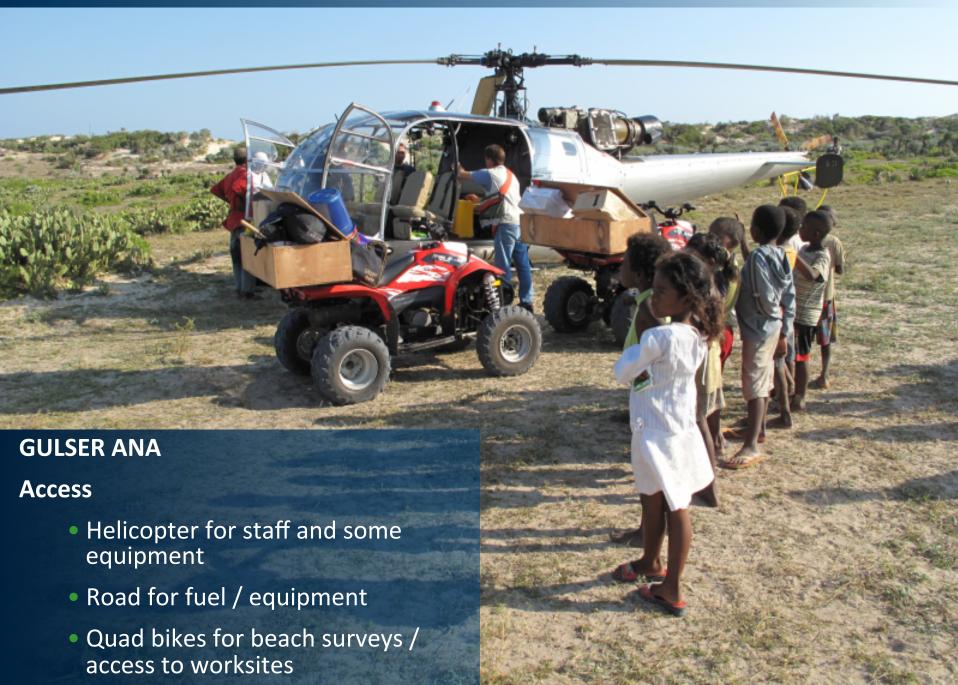








GULSER ANA LOGISTICS: HELICOPTER AND QUAD BIKES



FAUX CAP: ACCOMODATION AND EQUIPMENT STORAGE Accommodation **Equipment storage**



- First picture of shoreline oiling received after a week
- Need for shoreline response and wildlife (penguins) rehabilitation measures
- Response options / techniques worked out from the few pictures available Cleanup plan set-up remotely (rocky shore clean-up techniques)

OLIVA LOGISTICS: VESSELS AND HELICOPTER





Salvage tug SVITZER SINGAPORE

29th March / 4th April (Day 13)



RESPONSE ORGANISATION

GULSER ANA

Staff

- Spill manager / Mechanic Le Floch Dépollution
- Local contractor and villagers as team leaders / beach masters
- Local population as manpower

Equipment

 Brought from Tana / Fort Dauphin (PPE, small tools) and France for the specialised equipment

Health and Safety

- Helicopter
- Satphones
- First aid kits
- Fort Dauphin facilities

OLIVA

Staff

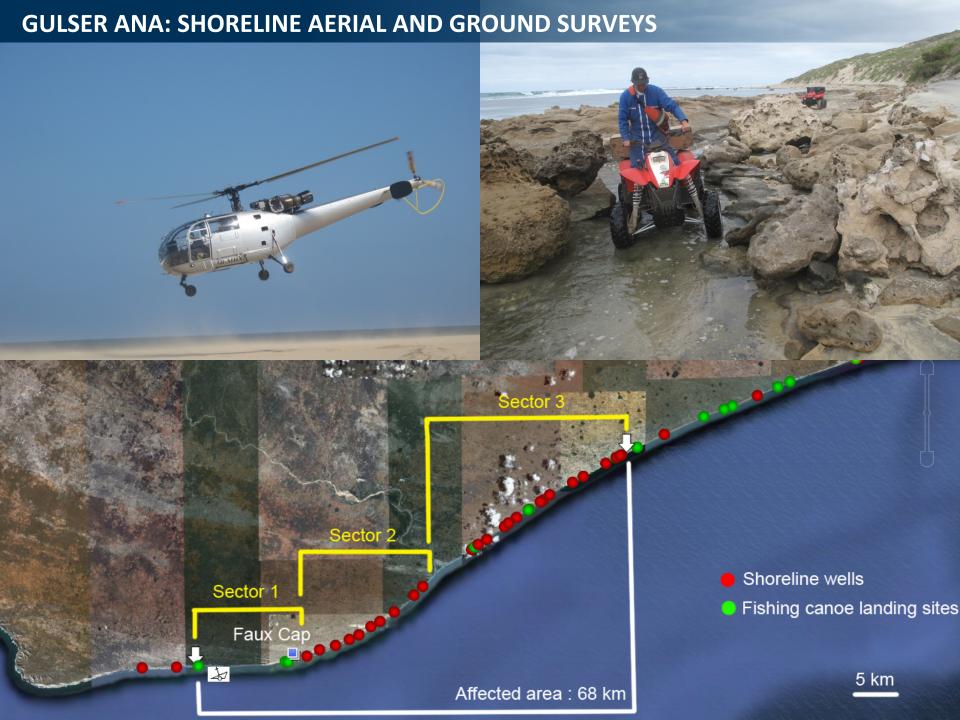
- Spill manager / Mechanic Le Floch Dépollution
- Additional staff from SMIT/SA contractor
- SANCOBB
- Islanders as manpower

Equipment

 Brought from South Africa and France for the specialised equipment

Health and Safety

- Helicopter
- VHF / Satphones
- Paramedic
- Tristan da Cunha facilities



GULSER ANA: SEVERITY OF OILING

- Variable along 68 km of coastline
- Tarballs predominant along entire length
- Rocky areas heavily oiled
- Buried and sunken oil along sections of beach



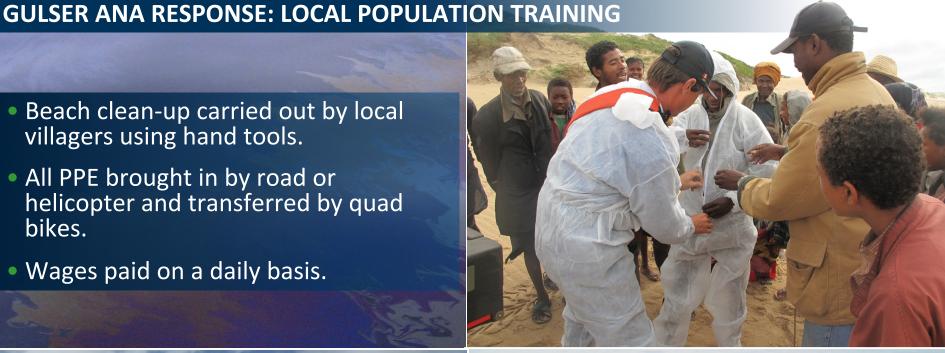








- All PPE brought in by road or helicopter and transferred by quad bikes.
- Wages paid on a daily basis.









GULSER ANA RESPONSE: SECONDARY CLEANUP

- Mobilisation of HP washing / flushing equipment from France
- Transfer of equipment to site and establishment of tent camp







GULSER ANA RESPONSE: SECONDARY CLEANUP

- Training of HP crews
- HP cleaning of heavily oiled rocky surfaces
- Collection of residual tarballs
- Cleanup completed in March 2010







OLIVA: WILDLIFE RESPONSE / CAPTURE





- Set-up of bird rehab units:
 - Stabilisation / feeding
 - Intensive care unit / Euthanasia
 - Washing unit
 - Waterproofing / pools

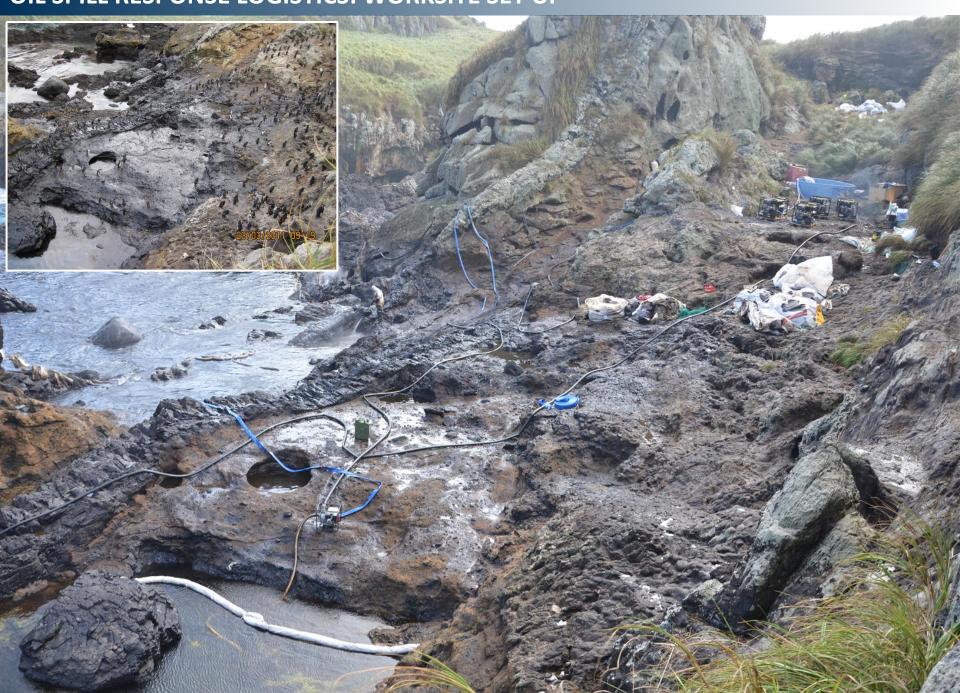




OLIVA: SHORELINE RESPONSE LOGISTICS



OIL SPILL RESPONSE LOGISTICS: WORKSITE SET UP





OLIVA: CLEAN-UP ENDPOINTS





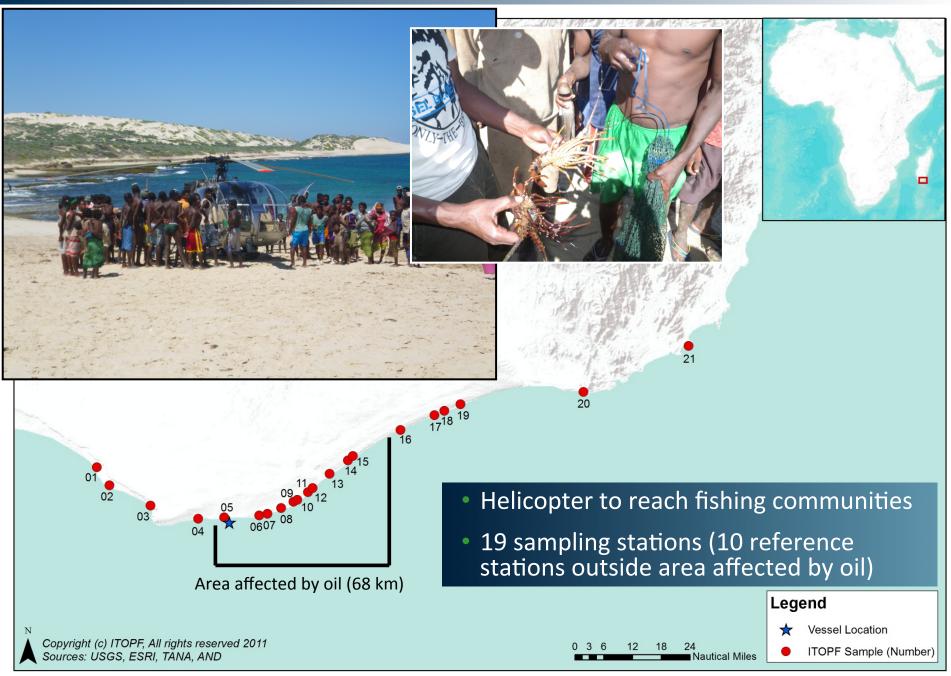
- Waste collected in small bags / Temporary storage on beach head
- Three intermediate storage locations manual/Quad/4x4 transfer
- Transfer by 6x6 trucks to local town with "road" access and packaging in big bags
- Final transfer to Antananarivo in large trailer trucks 3-4 days by road



OLIVA: WASTE MANAGEMENT



GULSER ANA: FISH / LOBSTER SAMPLING



OIL SPILL RESPONSE IN REMOTE LOCATIONS: CONCLUSIONS

- Logistical challenge:
 - Means of transportation:
 - Personnel
 - Equipment
 - Waste stream
 - Helicopter was key in both cases
 - Health and Safety
 - Assessment and scaling of response
 - Space limitation (transport / storage...): prompt and accurate evaluation of needs
 - Trade offs
 - Use of local humane resources (training)







Thank you for your attention

Any Questions?