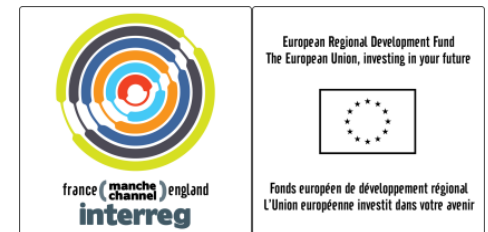
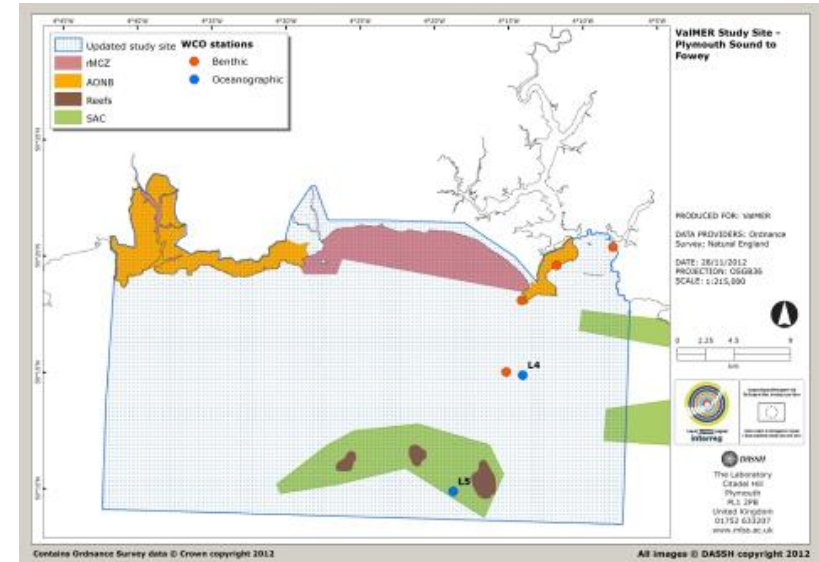


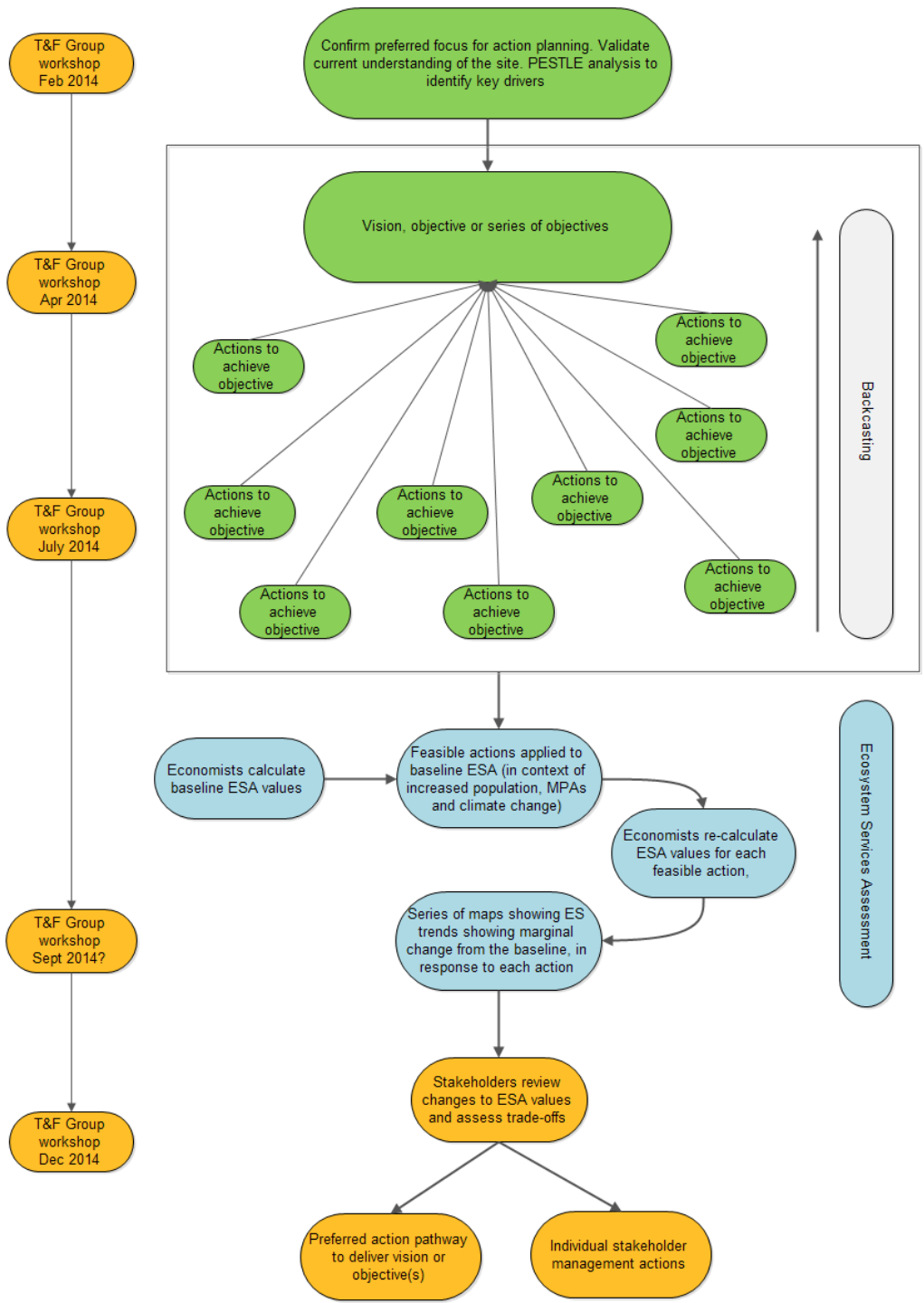
Plymouth Sound to Fowey Scenario process



Scenario building process

- Phase 1 – visualising the case study
- Phase 2 – identifying drivers for change
- Phase 3 – agreeing on the scenario focus
- Phase 4 – developing scenarios with stakeholders
- Phase 5 – using scenarios to support/influence management

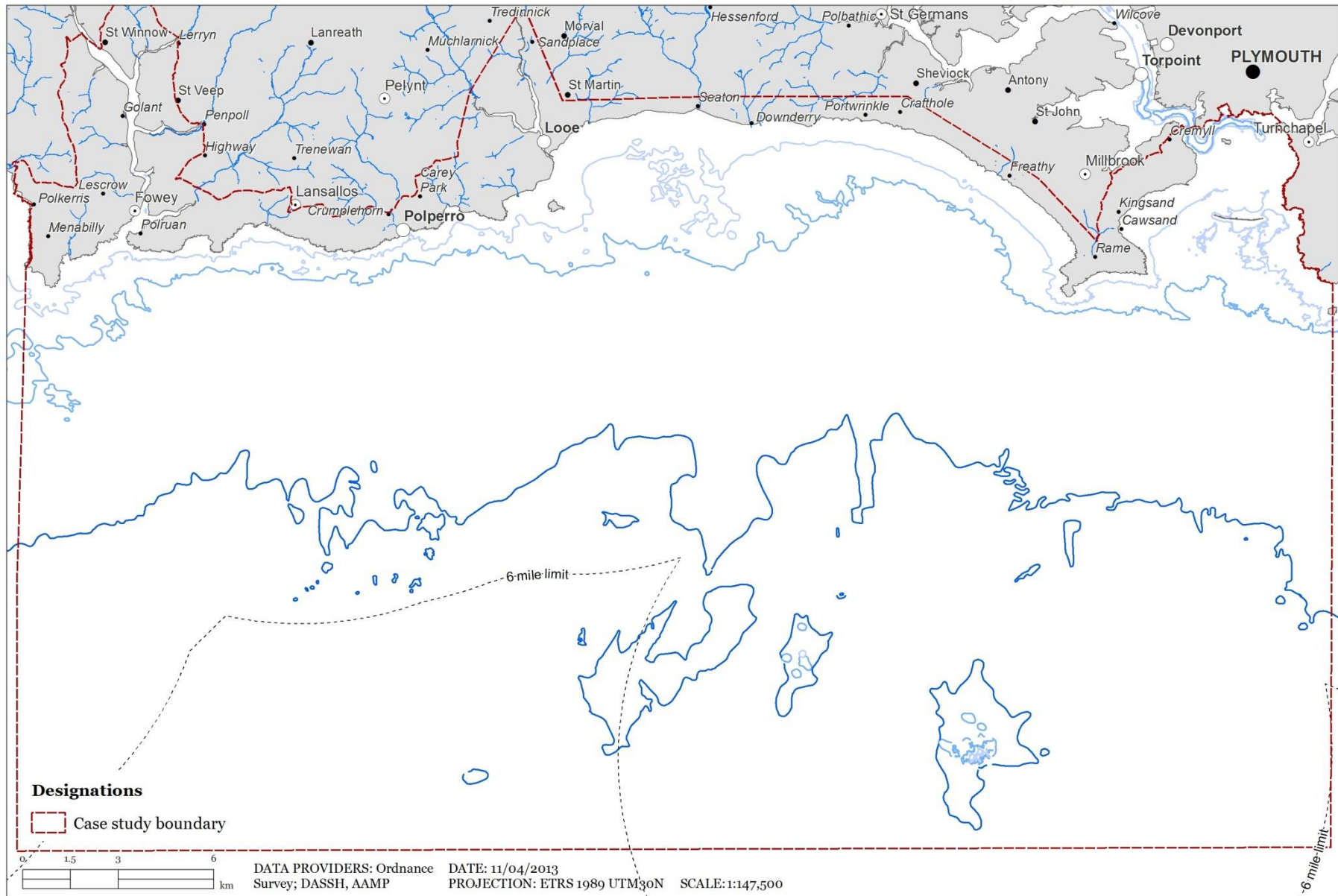




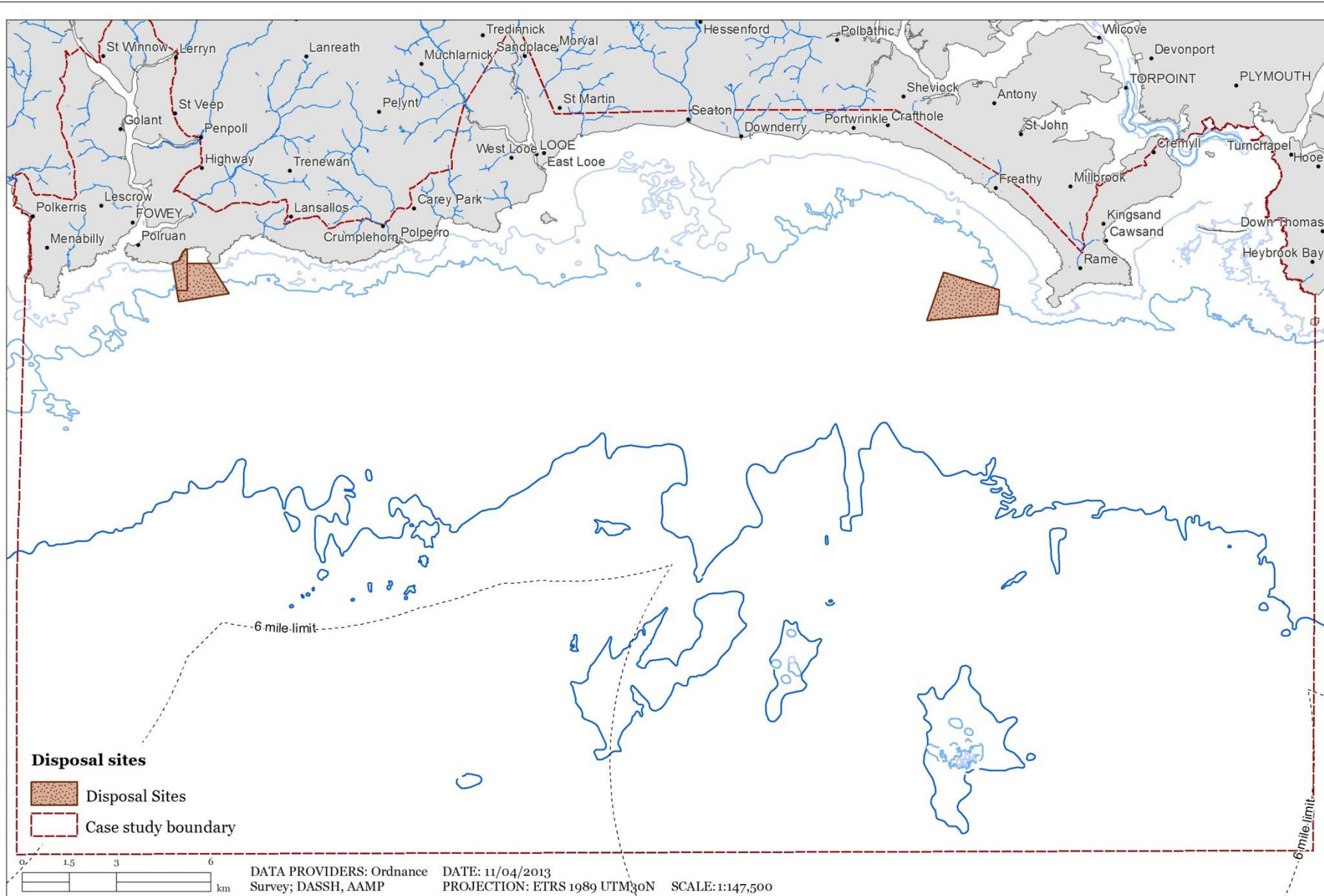
Phase 1: Visualising
the case study; the
area



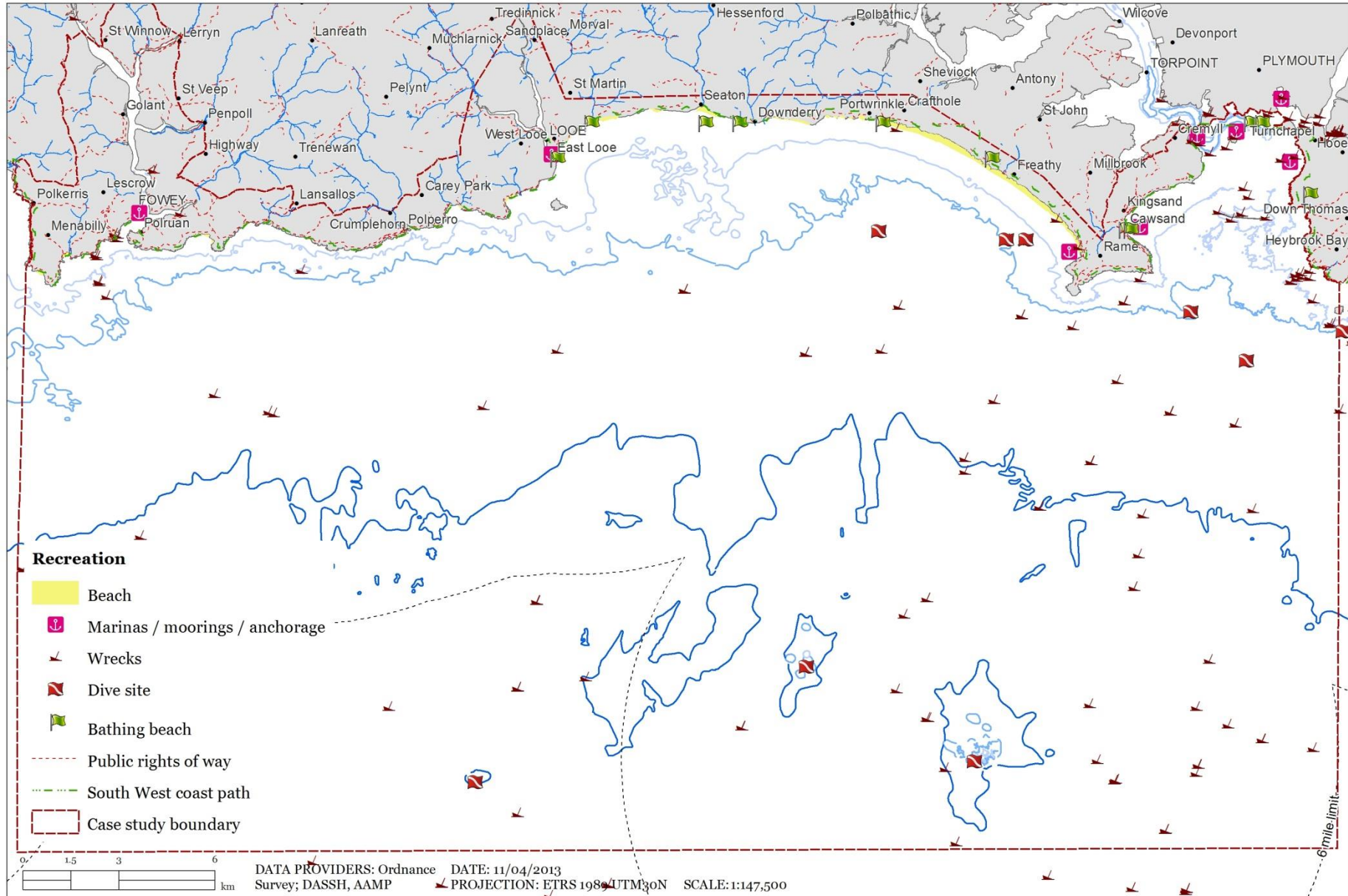
Population



Disposal Sites



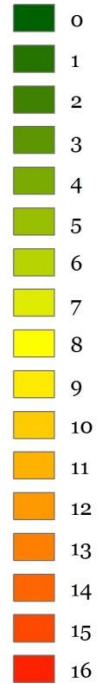
Recreation



Fishing – Bottom Gear

Bottom Gear

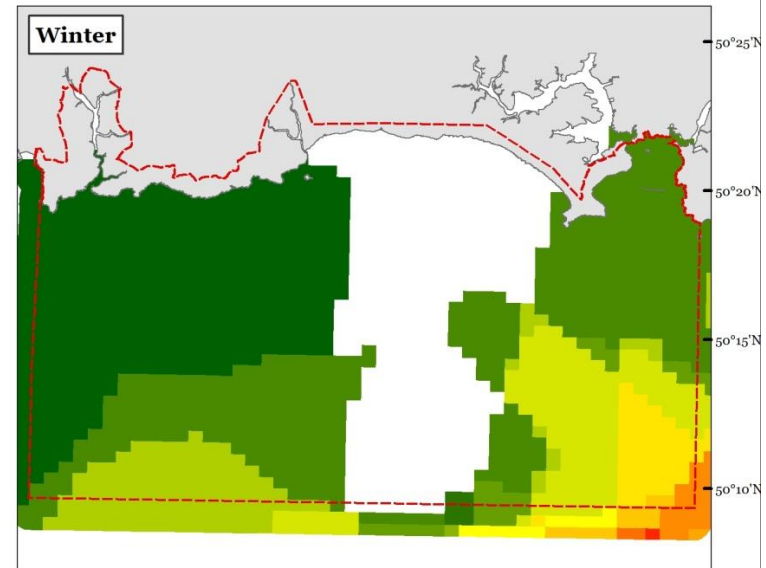
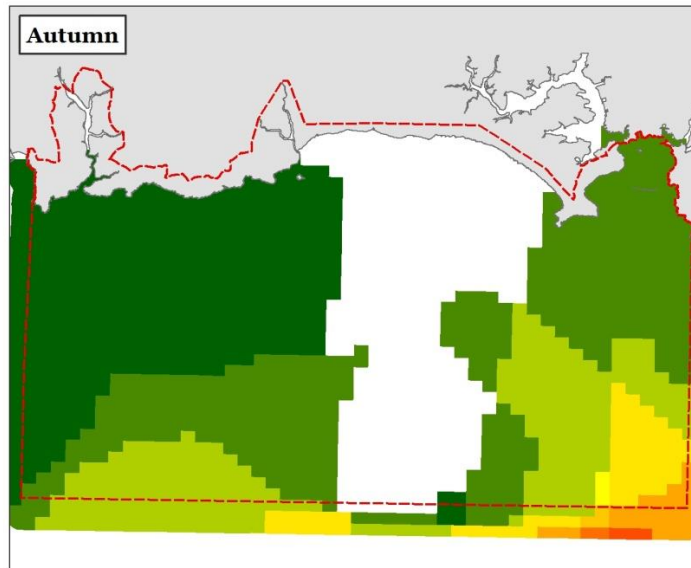
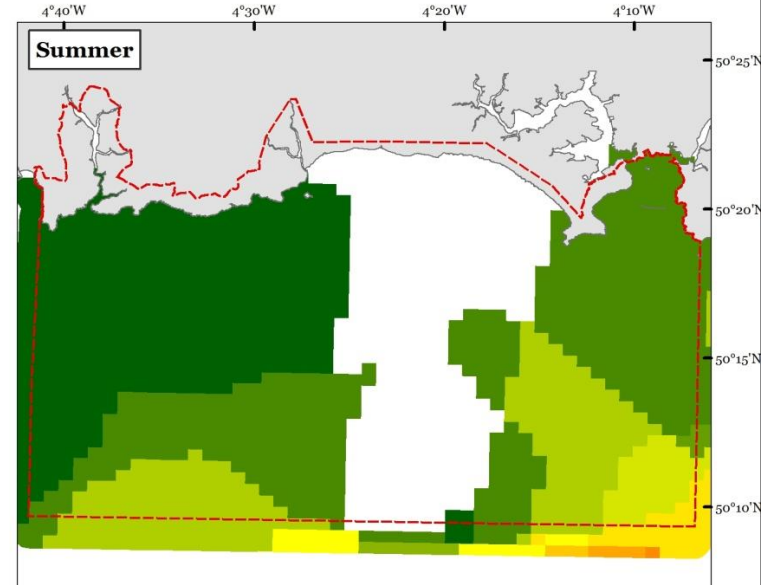
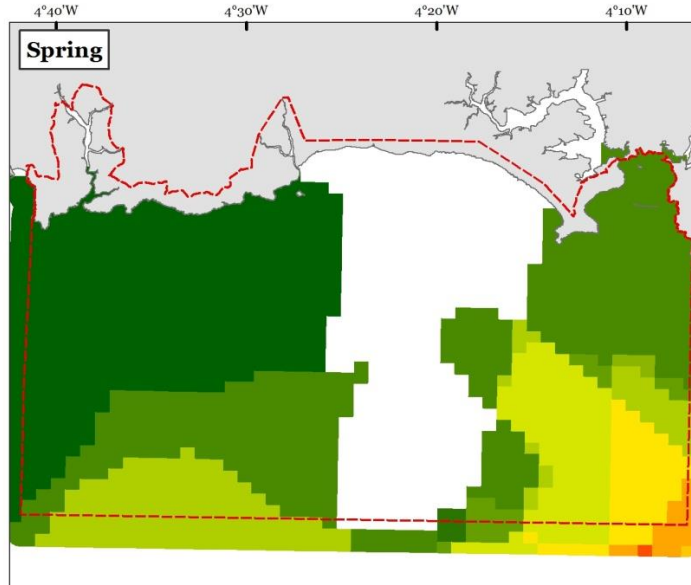
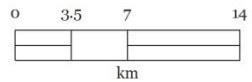
Boats per square



Case study boundary

DATA PROVIDERS: Ordnance Survey, Fisherman (Natural England)

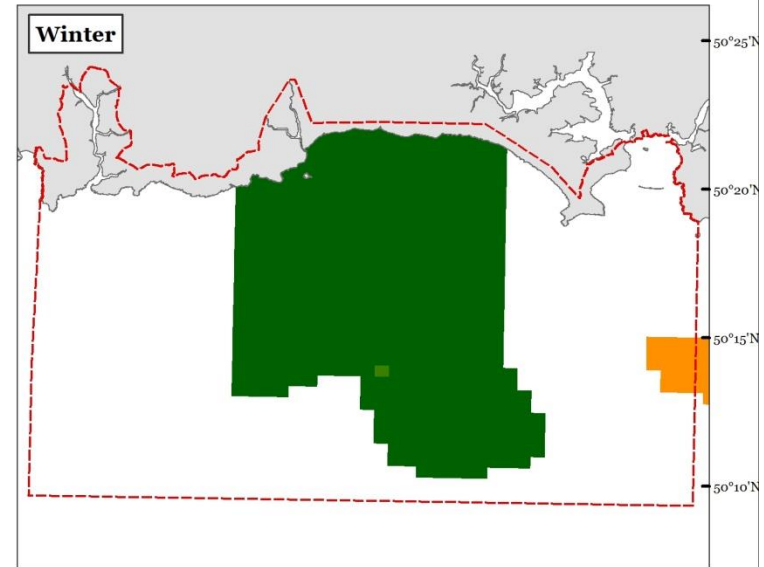
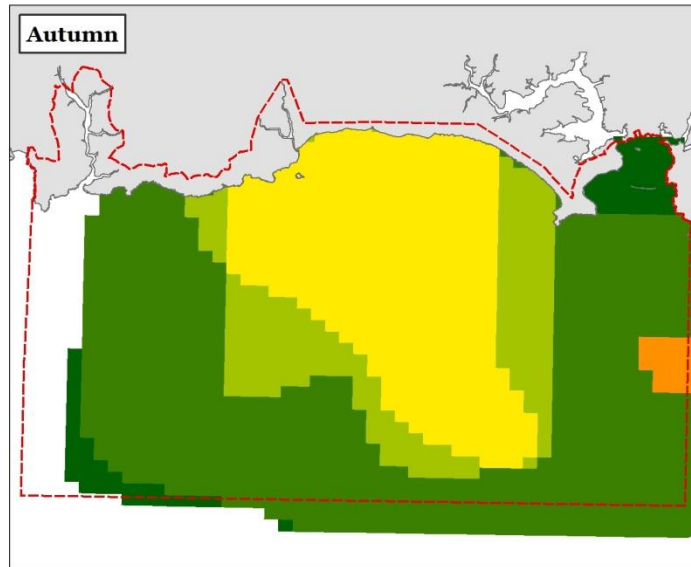
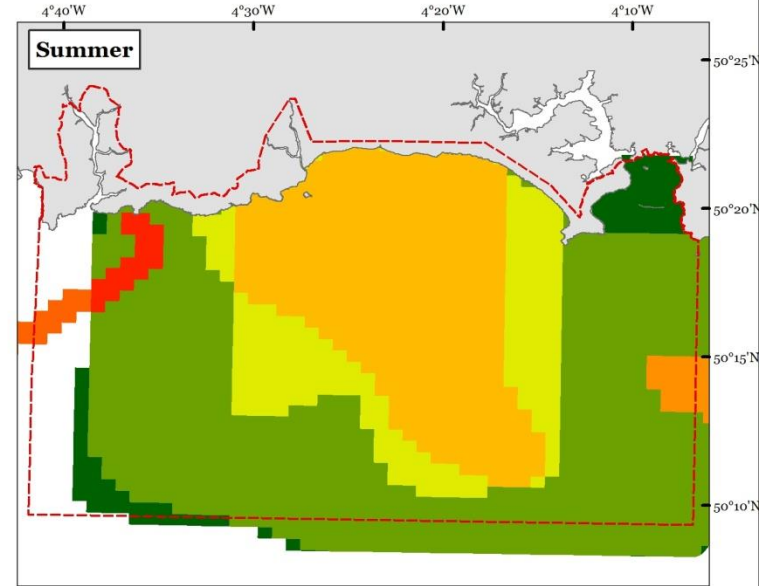
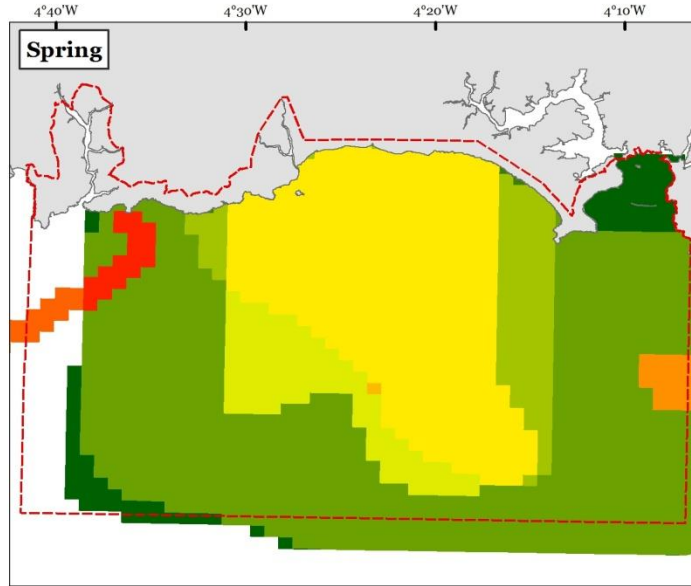
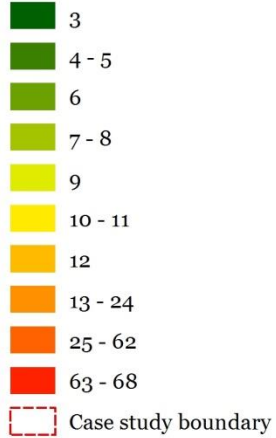
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 PROJECTION: ETRS 1989 UTM30N
 SCALE: 1:390,000



Fishing - Lines

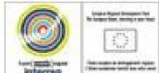
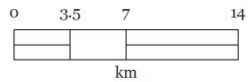
Lines

Boats per square



DATA PROVIDERS: Ordnance Survey, Fisherman (Natural England)

DATE: 01/02/2014
PROJECTION: ETRS 1989 UTM30N
SCALE: 1:390,000



DASSH

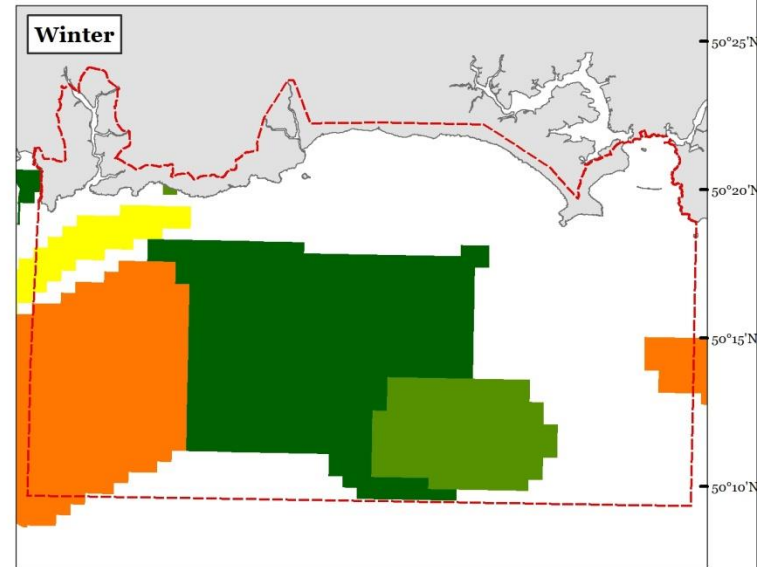
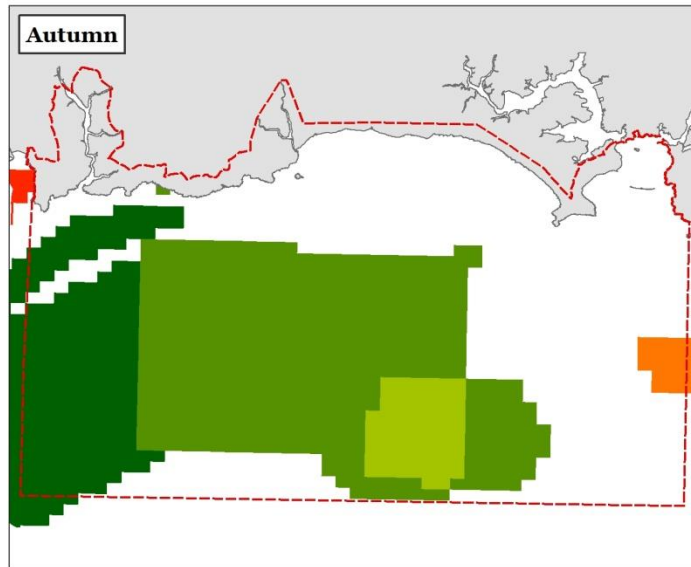
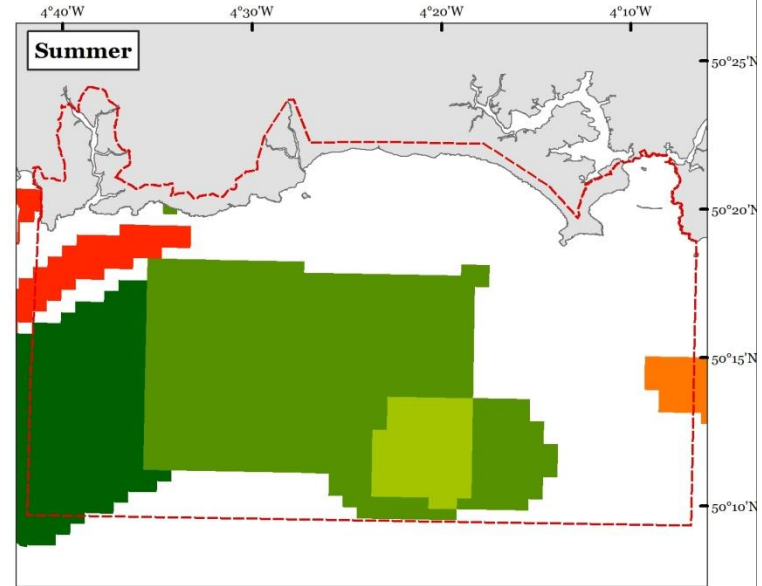
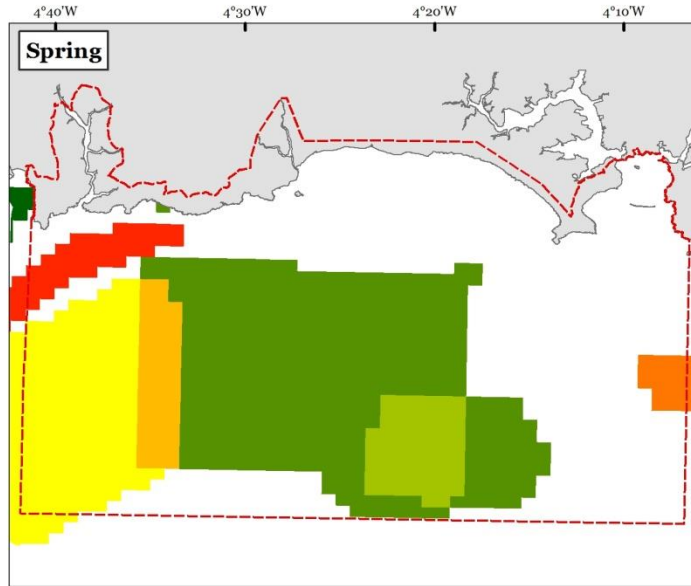
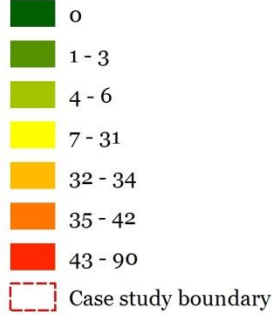


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Fishing - Nets

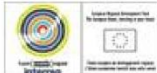
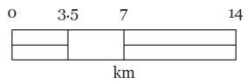
Nets

Boats per square



DATA PROVIDERS: Ordnance Survey, Fishermap (Natural England)

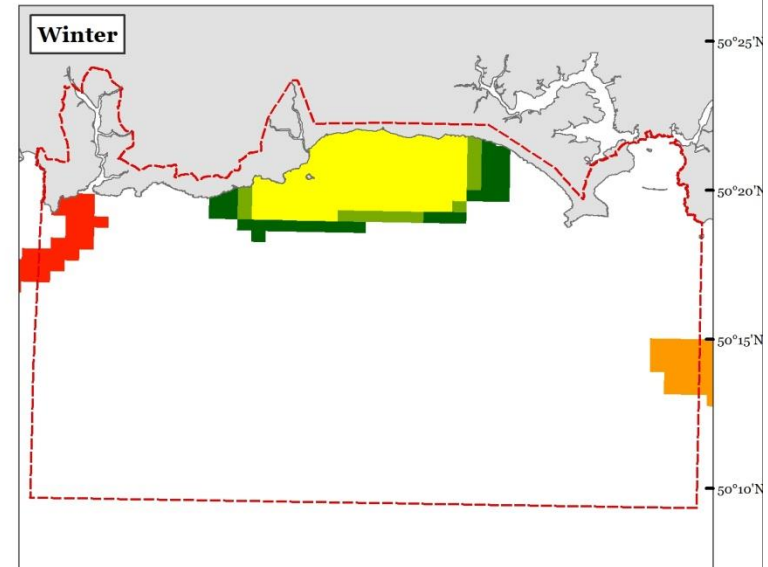
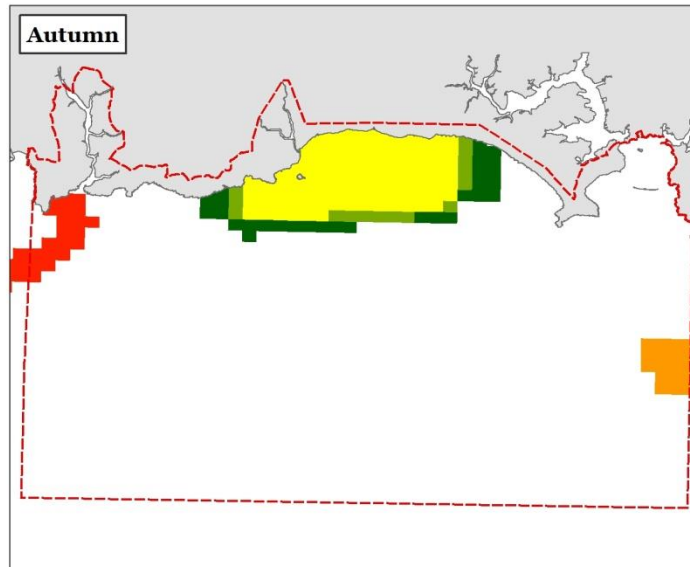
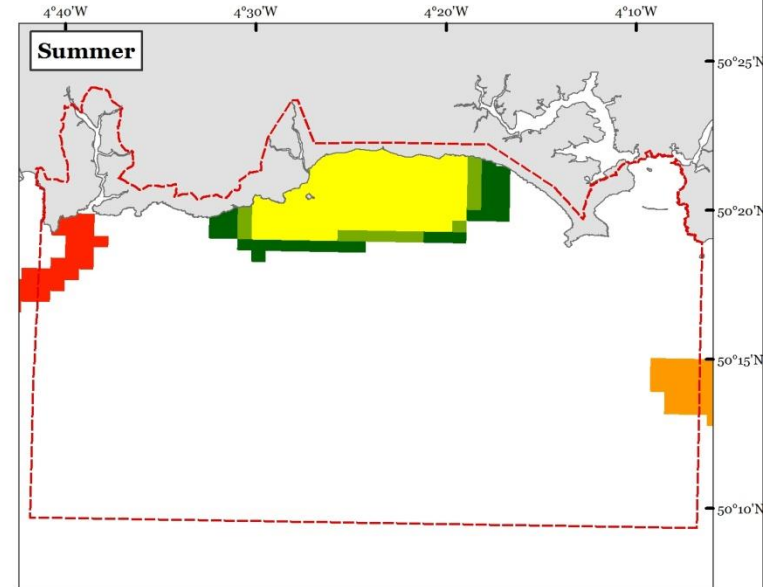
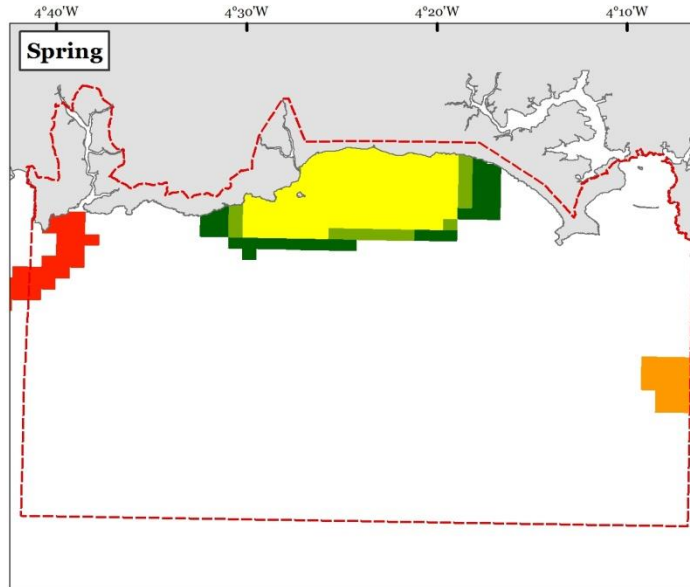
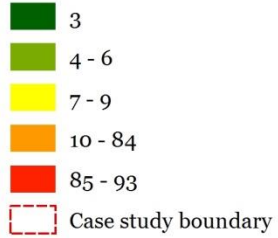
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Fishing – Pots & Traps

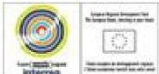
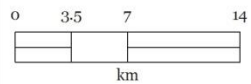
Pots & Traps

Boats per square



DATA PROVIDERS: Ordnance Survey, Fishermap (Natural England)

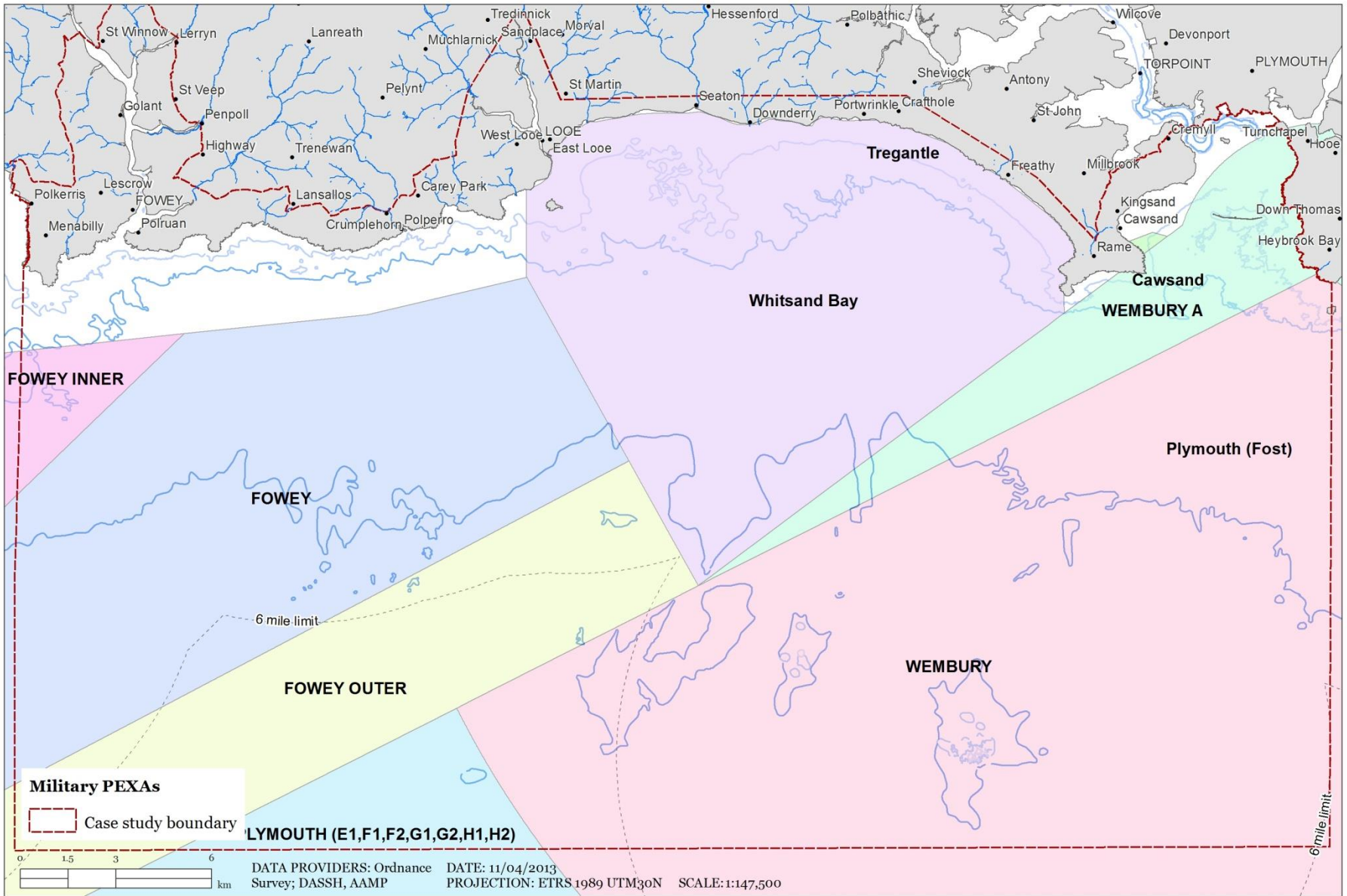
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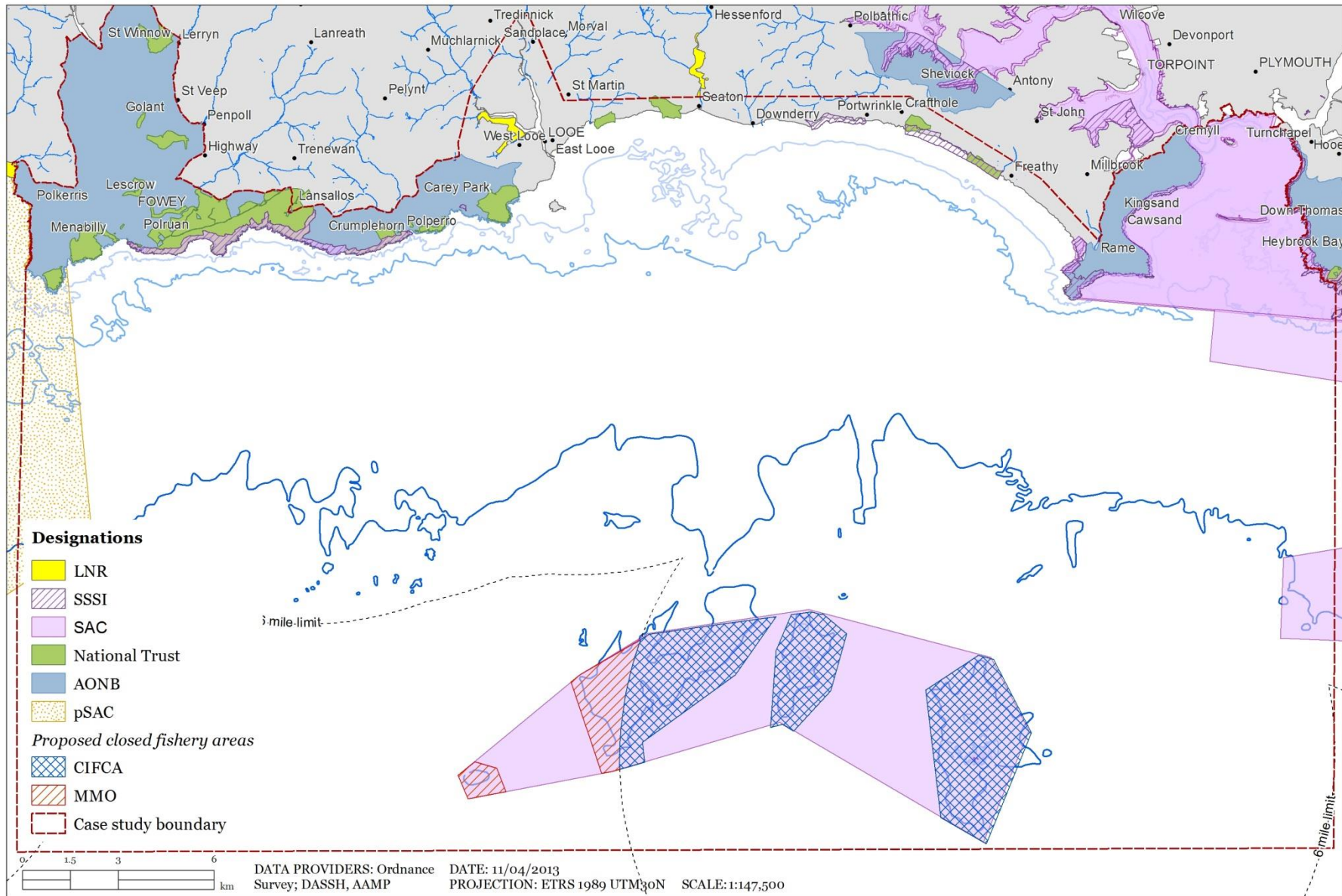
DASSH



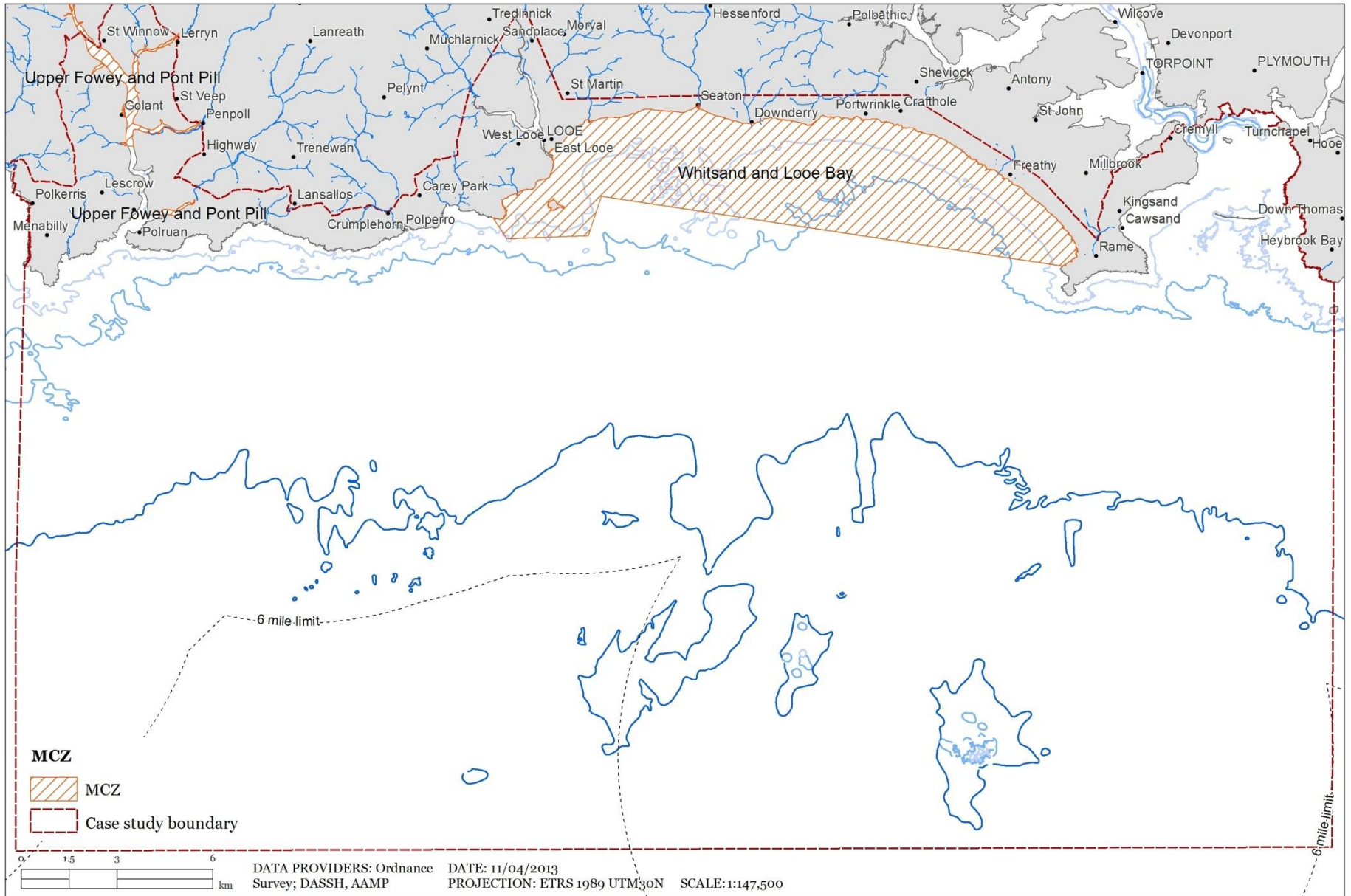
Military – PEXAs



Existing management



MCZ



Phase 1: Visualising the case study

Habitats

Pressures

Human activities

Natural processes

Management Framework



- contaminant control
- air/water quality regulation
- climate/weather regulation
- flood control
- erosion control
- sea walls - construction
- managed retreat
- shipping
- maintenance dredging
- reef disposal
- wastewater discharge
- military
- demersal trawling
- benthic trawling
- pelagic trawling
- line fishing
- netting
- potholing
- crab-lifting
- dredging
- powered watercraft
- non-powered watercraft
- swimming
- nature watching
- walking
- sea angling
- education
- research
- archaeology
- heritage/tradition
- ambience
- inspiration

Benefits/Activities

- penetration/disturbance of substrate
- shallow abrasion/disturbance
- surface abrasion
- non indigenous spp introduction/spread
- removal of target spp
- removal of non target spp
- Litter
- water clarity changes
- organic enrichment
- siltation rate changes (high & low)
- nitrogen & phosphorous enrichment
- physical loss to and/or feature height

Pressures caused by use of Benefits/Activities

- saltmarsh
- intertidal sand
- intertidal mixed sediments
- intertidal mud
- intertidal rock
- seagrass
- water column
- subtidal rock
- subtidal sediment
- subtidal muddy sand
- subtidal mixed sediments

Habitats within the Plymouth-Fowey study area



Phase 1: Visualising the case study; - broadscale habitats

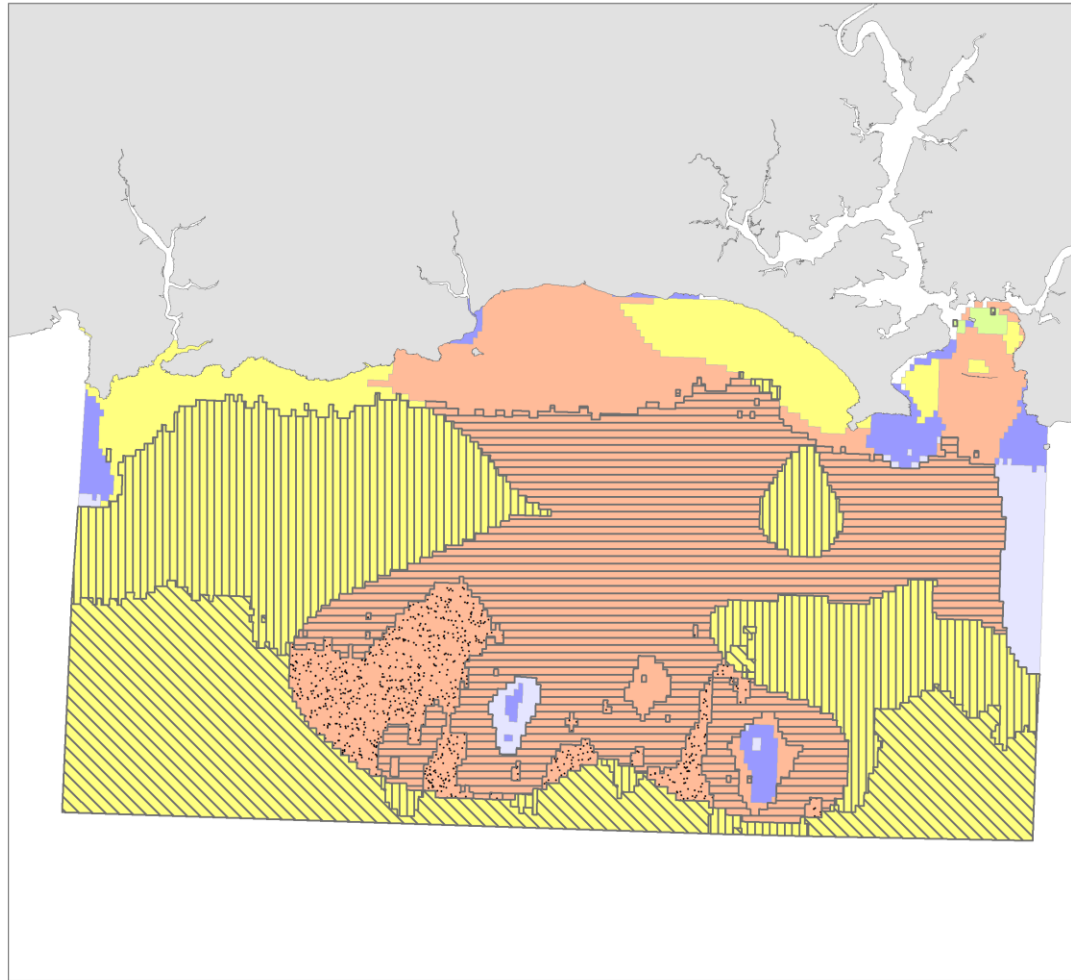
Habitats within the Plymouth to Fowey case study site

EUNIS habitat

- Low energy infralittoral rock
- Low energy circalittoral rock
- Infralittoral coarse sediment
- Circalittoral coarse sediment
- Deep circalittoral coarse sediment
- Infralittoral fine sand or infralittoral muddy sand
- Circalittoral fine sand or infralittoral muddy sand
- Deep circalittoral sand
- Infralittoral mixed sediments
- Circalittoral mixed sediments

DATA PROVIDERS: Ordnance Survey; DASSH, MESH

DATE: 25/09/2013
PROJECTION: ETRS 1989 UTM30N



Phase 1: Visualising the case study- Ecosystem Services and benefits

A word cloud of ecosystem services and benefits. The words are arranged in a roughly circular pattern, with 'Flood control' being the largest and most central. Other prominent words include 'Tranquility', 'pollution control', 'research', 'energy', 'inspiration', 'heritage', 'Fish', 'angling', 'education', 'waste disposal', 'climate regulation', 'recreation', 'erosion control', 'Salt', and 'bait'. The words are in various sizes and orientations, all in a blue, outlined font.

pollution control

research aggregates

Salt

energy inspiration

heritage Tranquility

Fish angling

Flood control

education bait

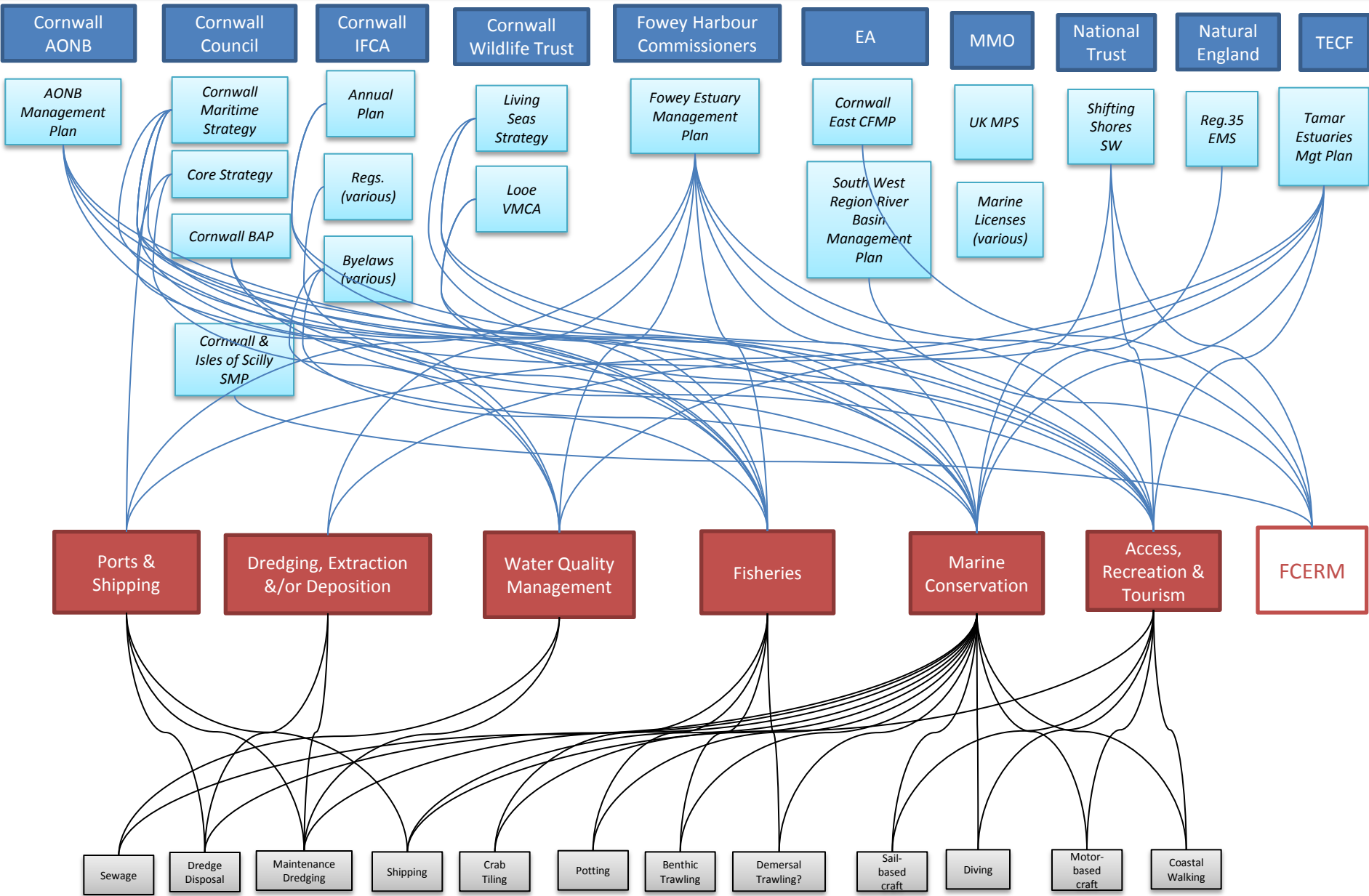
erosion control

waste disposal

recreation

climate regulation

VALMER Plymouth-Fowey Task & Finish Group Governance Map (T&F strategies to drivers)



Phase 2: Identifying drivers for ecosystem change

dredge disposal

climate change

fishing

house building

Existing drivers

marine planning

MPAs

recreation

future drivers

Phase 3: Agree scenario focus

Option A

- Produce a draft action plan(s) for the Cornwall Maritime Strategy Vision

Option B

- Produce a draft action plan(s) to deliver all or part(s) of the environmental objective of the Cornwall Maritime Strategy

Option C

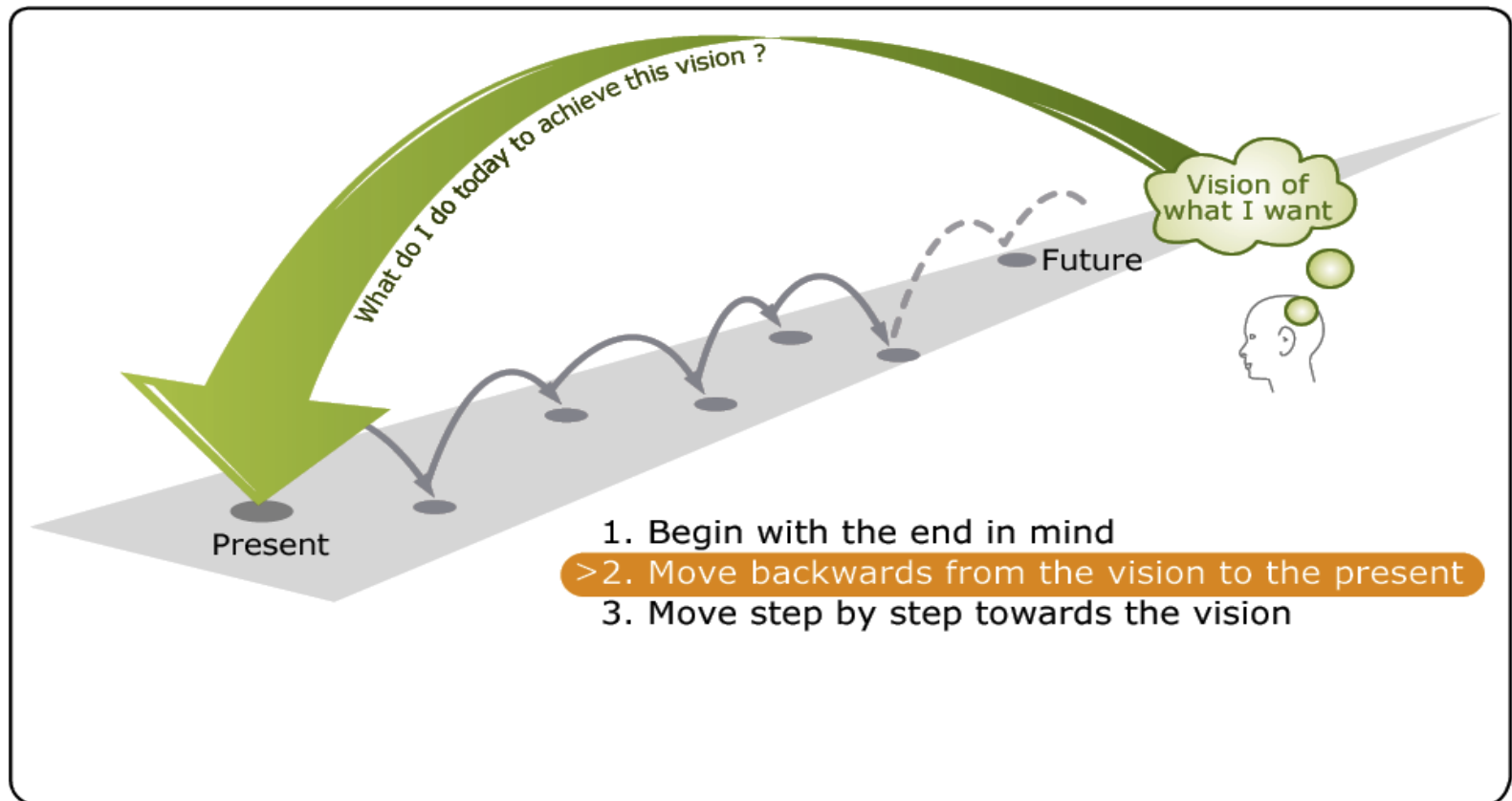
- Produce a draft action plan(s) for a few complementary or competing aims of the Cornwall Maritime Strategy

Option D

- Produce a draft action plan(s) for a conservation objective of a Marine Conservation Zone or a T&F member's strategy or plan e.g. Fowey EMP, OR:
- Produce a draft action plan that aids delivery of a policy objective common to T&F membership (& aligned to the case study focus) e.g. MCZs

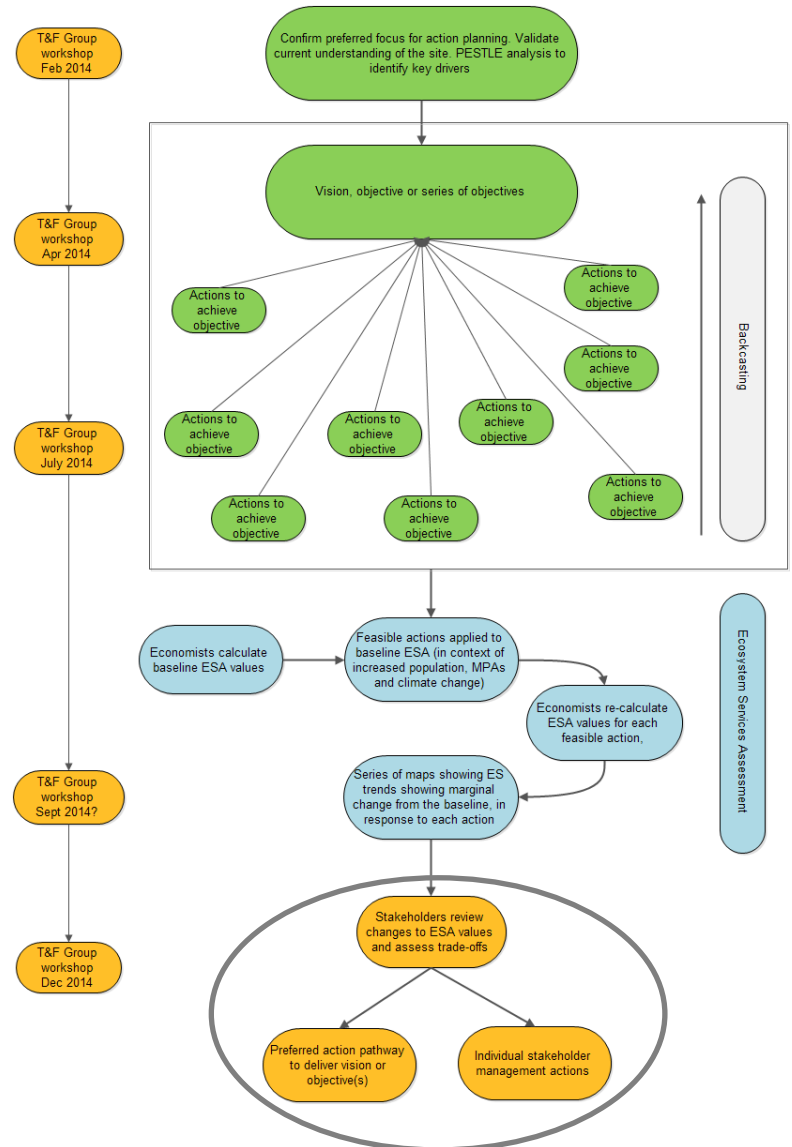
Phase 4: developing management scenarios with stakeholders

- Action plan(s) developed using Backcasting from 2030



Phase 5: influencing management

- Use the experience and information from the scenario action plan process to influence future action, policies and management plans



With special thanks to all our partners and funders

