

## Devon and Severn IFCA Annual Research Plan 2017-2018

Work- stream	Survey type	Project Title	Location	Method	Rationale	Project timescale	Partners	Lead Contact	Vessel / Shore	Pre-survey planning	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	Date for end of project	Local/ National /EU
,		Monitoring Studies of <i>Palinurus</i>	Lundy MCZ, Bideford to Foreland Pt MCZ	Possible Tagging	Understand movement, site fidelity, monitor recover species	3 days each site	Divers	Sarah Clark/ Lauren Parkhouse	Diver charters/ fishing vessels	Meet with Divers from Ilfracombe about accompanying them on trips to tag crawfish at Lundy.													
Crustacea Survey	Knowledge	Survey of Palinurus - Potting and Netting	District wide	Survey forms to distribute to commercial fishing industry	To gather evidence on the catches and CPUE if possible of Crawfish across the district.		fishermen	Sarah Clark	meetings, mail shot	Engage with fishermen to get better information to aid monitoring.													
		Survey of Palinurus - Divers		Survey forms	Form to go out to divers to gather evidence on the location, size and sex of Crawfish across the district.		divers	Sarah Clark	meetings, mail shot	Engage with Sea search, dive clubs, fishermen, to get better information to aid monitoring.													
	Stock Assessment	Salcombe Scallop Assessment		Dive cameras and Pyramid Frame or catch surveys on board fishing vessels when fishery opens	Inside and outside Bag to assess location and stock levels	2/3 days	fishermen	Lauren Parkhouse/ Steph Davies	SV Black Jack/ fisherman													Mar-1	B Local - IFCA District
		Exe Mussel Survey	SPA - All beds.	Dutch Wand Method / Hand Grab. Dictaphone for recording data	Annual Survey to assess mussel stocks within the SPA to ensure that there is sufficient resource for the overwintering birds. Drone footage from 2016 may be used to assess extent of beds in areas of difficult access then a small grab could be deployed from a vessel at high water to sample density within these beds		NE, Volunteers & Exe Estuary Officer	Steph Davies/Dan Cresswell	intertidal shore survey	Accessible beds were completed in April 2016. Inaccessible beds - aerial survey with drone as part of crab tile survey. D&S IFCA vessel may be required to collect core samples - mini grab if officers cant reach all beds.													Local - IFCA District
Bivalve Surveys		Taw Torridge Mussel Survey	Estuary SSSI	Dutch Wand Method / Dictaphone for recording data. Tin boat for access.	Annual Survey to assess mussel stocks within the SSSI to ensure that there is sufficient resource for the overwintering birds.	4-5 days	NE, volunteers	Steph Davies/Dan Cresswell	intertidal shore survey													Apr-1	B Local - IFCA District
		Exe Cockle Survey		0.1m <sup>2</sup> quadrat, grid	Biennial Survey to assess density and distribution of the cockle resource in the Estuary to inform the future development of a fishery.		NE, Volunteers & Exe Estuary Officer	Davies/	intertidal shore survey													Oct-1	7 Local - IFCA District

Work- stream	Survey type	Project Title	Location	Method	Rationale	Project timescale	Partners	Lead Contact	Vessel / Shore	Pre-survey planning	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	Date for end of project	Local/ National /EU
	Stock Assessment	Teigen Mussel Survey	Teigen Estuary	Dutch Wand Method / Dictaphone for recording data	Survey to assess mussel stocks to inform the development of a hand gathering permit byelaw	2-4 days	Volunteers, Teigen Estuary Officer	Steph Davies/ Sarah Clark	intertidal shore survey	Prepare survey plan and assess risk of surveying on The Salty using officer knowledge of tides														Local - IFCA District
	Stock Assessment	Teigen Cockle Survey	Teigen Estuary	0.1m2 quadrat, grid	Survey to assess density and distribution of the cockle resource in the Estuary to inform the development of the hand gathering permit byelaw	2-4 days	Volunteers, Teigen Estuary Officer	Steph Davies	intertidal shore survey	Prepare survey plan and assess risk of surveying on The Salty using officer knowledge of tides														Local - IFCA District
Bait Collection/ Hand gathering	Fishing Activity	Intertidal Bait Collection/ Hand gathering	Torbay MCZ	Survey forms to record effort etc.	Bait digging/hand gathering extent and effort data and where possible amounts collected will inform MCZ assessment and future management measures.	weekly for 1 year		Steph Davies	Shore visits	Survey plan covering three areas in the Torbay MCZ													Aug-17	Local - IFCA District
	Habitat / feature mapping	Torbay MCZ Seagrass Survey		Drop down dive cam	To survey the extent and density if the recover habitat in the MCZ to ensure current management affords protection.	9 days	Torbay Coast and Countryside Trust, Community Seagrass Initiative	Katherine Stephenson	Black Jack														Sep-1	7 Local - IFCA District
video surveys	Habitat / feature mapping	Plymouth Sound & Estuaries EMS Seagrass survey			If time and resources allow this will be used to assess the location and extent. Need to liaise with NE regarding their survey plans.																		Not undertaken as done by NE	
Underwater	Stock Assessment	Lyme Bay Scallop Stock Assessment - comparison of methodologies			To compare the different methodologies and assess effectiveness of the flying array.																			
	Habitat/ feature mapping	Tranche 2 features/habitats	Foreland Point	array, sonar camera	Ground Truthing of HOCI and FOCI to better inform the extent and presence of those features and access fishing interactions and impacts		CIFCA/ NE/ EA	Parkhouse/St	Severn Guardian, SV Tiger Lily															
	Species Knowledge	Bass PhD survey work		Fyke nets, seine nets,	To inform life cycle, movement, and management of the species - this survey will focus on juvenile bass.	3 years	PhD student, Plymouth University, fish specialists, Cefas	Libby Ross																
	Species Knowledge	Bass PhD survey work	Dart Salcombe Taw Torridge	Tagging				Libby Ross																

Work- stream	Survey type	Project Title	Location	Method	Rationale	Project timescale	Partners	Lead Contact	Vessel / Shore	Pre-survey planning	APR	MAY	JUN	JUL	AUG S	EP OC	ΓNOV	DEC	JAN	FEB	MAR	Date for end of project	Local/ National /EU
Finfish Surveys	of sea angling	Fishtail - EU COS- TOUR Sustainable Fisheries Awareness Project . Partners include Slovenia, Ireland, Denmark,& Portugal.	D&S district and sites in UK and Europe covered by project partners	series of videos which promote	sea angling and promoting sustainable use of fisheries resources.	2017	Westcountry Rivers Trust, Ribiska Druzina Tolmin, South Kerry Development Partnership Ltd, Odense Kommune, Municipio de Figueiro dos vinhos		N/A													IFCA part ends July 2017	EU
		Wrasse on-board Surveys	area	surveys will allow officers to gather a large amount of data on all catches of wrasse from measurements of size, sex and sexual maturity. This will be	In order to collect data to inform monitor the fishery and investigate if the current management measures are working catch data from the fishery is required. These data will also inform, the review of the management measures due to take place in November. Landings data will also be completed and the fully documented fishery will be assessed.	though the season	Fishing industry.	Libby / Steph Davies	Fishing vessels														