Devon and Severn IFCA Annual Research Plan 2016-2017

Survey Code	IFCA	Survey type	Project Title	Location	Method	Rationale	Likely time scale/number of days of survey/ project time	Partners?	Lead Contact	Vessel / Shore	Pre survey planning	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	Date completed	Date for end of project	Local/ National /EU
1	Devon and Severn IFCA	Habitat/Feature Mapping	Ground Truthing Lyme Bay part of the Lyme Bay and Torbay SCI	Lyme Bay part of the Lyme Bay & Torbay SCI in the areas close to Beer Home Ground and area inside SI due south of Charton Bay	Flying Array	Ground Truthing habitat to verify presence of reef. Inform access to mobile gear	10 days	SIFCA?, NE	Lauren Parkhouse/ Kat Stephenson	SV Black Jack	Check Survey points for Lyme Bay study, check Mike Kaiser's work; prepare grids of areas; estimate number of tows; calculate number of days; mooring up in Lyme Regis?													Jul-16		
2	Devon and Severn IFCA	Habitat/Feature Mapping	Ground Truthing Torbay MPA (MCZ - mud feature)	Torbay MCZ	Sidescan, flying array, grab	Ground Truthing on mud habitat and other areas in the MCZ. Use of Sidescan initially. Further underwater filming and possible grab sampling the mud habitat to inform management. Also footage and samples will be used for MSc student project	6 days	MSc Student, EA. Possibly NE & DWT	Sarah Clark/Lauren Parkhouse	SV Solent Guardian	Check sidescan analysis for possible locations of filming; speak to EA re grab sampling and survey timetable													Survey completed end May 2016	End of August 2016	Local - IFCA District
3	Devon and Severn IFCA	Habitat/Feature Mapping	Condition Assessment Reef - EMS	Torbay part of LB & TB SAC	Flying array/ SeaSpyder	Filming of reef in Torbay Part & biogenic reef if possible for condition assessment. Possibly in conjunction with ground truthing of mud habitat survey	5 days	NE, Cefas, NE, CIFCA	Sarah Clark/Lauren Parkhouse	SV Black Jack/ Tiger Lilly/ Solent Guardian	PROJECT WILL ONLY GO AHEAD IF FUNDING AVAILABLE FROM NE TO CHARTER THE VESSEL AND ANALYSE DATA													?	?	Local - IFCA District
4a	Devon and Severn IFCA	Stock Assessment	Salcombe Scallop Assessment	Salcombe Estuary SSSI	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	fishers	Lauren Parkhouse/ Katherine Stephenson	SV Black Jack/ fisherman	NOT DEFINITIVE PROJECT. MAY BE BETTER TO ACCOMPANY FISHERS TO SURVEY CATCHES ON BOARD														Nov-16	Local - IFCA District
4b	Devon and Severn IFCA	Habitat / feature mapping	Salcombe The Bag filming	Salcombe Estuary SSSI	Dive cameras and Pyramid Frame	inside Bag to evidence the habitat type	2/3 days	fishers	Lauren Parkhouse/ Katherine Stephenson	SV Black Jack/ fishermen	ONLY UNDERTAKE THIS REPEAT PROJECT IF THE QUALITY OF VIDEO GATHERED IN 2015 IS NOT GOOD ENOUGH													Analysis ongoing, but filming completed in January.	Sep-16	Local - IFCA District
5	Devon and Severn IFCA	Species Knowledge	Monitoring Studies of Palinurus	Lundy MCZ	Large Funnel Inkwells/ Tagging	Monitoring programme to get baseline levels of Crawfish in the MCZ as this species has a recover conservation objective.	4 days tagging, 2 days monitoring	Fishermen, NE	Sarah Clark/ Steph Davies	Fishing Vessel	Work with Geoff Huelin to discuss survey plan and placing of strings of pots															
6	Devon and Severn IFCA	Species Knowledge	Monitoring Studies of Palinurus	Skerries Bank & Surrounds MCZ	Large Funnel Inkwells/ Tagging	Monitoring programme to get baseline levels of Crawfish in the MCZ as this species has a recover conservation objective.	4 days tagging, 2 days monitoring	Fishermen, NE	Sarah Clark/ Steph Davies	Fishing Vessel	Can only carry this out if pots are moved from North Devon. May be better to continue surveying as in Project No. 9															
7	Devon and Severn IFCA	Species Knowledge	Monitoring Studies of Palinurus	Lundy, Skerries Bank & Surrounds MCZ, T2 MCZ North Devon	Possible Tagging/ DST tagging of crawfish	Understand movement, site fidelity, monitor recover species	3 days each site	Divers/fishermen /MBA/ EU Project	Sarah Clark/ Steph Davies/ Libby Ross	Diver charters/ fishing vessels	Liaise with MBA about possible EU project. Tagging crawfish with Geoff Huelin (project 5). Meet with Divers from Ilfracombe about accompanying them on trips to tag crawfish at Lundy. Possible charter fishing boat to put nets out in Skerries to survey crawfish.															
8a	Devon and Severn IFCA	Species Knowledge	CPUE of Palinurus - Potting and Netting	District wide	Survey forms	Form to go out to fishers to gather evidence on the catches and CPUE if possible of Crawfish across the district.		Fishers	Sarah Clark	meetings, mail shot	Engage with fishers to get better information to aid monitoring.															
8b	Devon and Severn IFCA	Species Knowledge	Survey of Palinurus - Divers	District wide/ Lundy	Survey forms	Form to go out to divers to gather evidence on the location, size and sex of Crawfish across the district.		Fishers	Sarah Clark	meetings, mail shot	Engage with Sea search, dive clubs, fishers, to get better information to aid monitoring.															

9	Devon and Severn IFCA	Stock Assessment	CPUE/ LPUE Lobsters & Brown Crab	Whole district	on board surveys & shore landings	Data to improve knowledge of catches per unit effort with on board surveys and landings per unit effort for shore surveys to help inform Cefas Stock assessments. Use Cefas protocol.	3 days per month	Fishers, Cefas?	Environment Team	Fishing Vessel	Continue this survey. Will need to plan boat surveys with fishers. Landings data will need to be collected.															
10	Devon and Severn IFCA	Species Knowledge	Lobster Tagging	IPA South Devon/ SPPSE SAC, Skerries Bank MCZ	Streamer tags - on board survey	Undertake Lobster tagging to improve knowledge on this species along the South Coast of Devon, total catch, movements, recapture rate, growth.	6 days	Fishers	Sarah Clark/ Lauren Parkhouse/ Steph Davis	Fishing Vessel	Possibly in conjunction with Project 9 above															
11	Devon and Severn IFCA	Stock Assessment	Exe Mussel Survey	Exe Estuary SPA - Lympstone, Powderham beds only	Dutch Wand Method / Drone/ 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 may be used to assess extent of beds in areas of difficult access	2-4 days	NE & Exe Estuary Officer	Katherine Stephenson	intertidal shore survey	Accessible bed were completed in April 2016. Inaccessible beds - aerial survey with drone as part of crab tile survey. Tin boat to collect core samples - mini grab. Need to chart and estimate number of core samples needed and cost of corer/grab.													Walking survey completed April 2016.	Drone and boat surveys September 2016	Local - IFCA District
12	Devon and Severn IFCA	Stock Assessment	Taw Torridge Mussel Survey	Taw Torridge 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	Katherine Stephenson/ Neil Townsend	intertidal shore survey															May-06	May-16	Local - IFCA District
13	Devon and Severn IFCA	Stock Assessment	Exe Cockle Survey	Exe Estuary SPA	0.1m2 quadrat, grid	Biennial Survey to assess density and distribution of the cockle resource in the Estuary to inform the future development of a fishery.	1-2 days	NE & Exe Estuary Officer	Katherine Stephenson	intertidal shore survey																Oct-16	Local - IFCA District
14	Devon and Severn IFCA	Fishing Activity	Severn Estuary EMS Fishing Activity survey	Severn EMS	Survey forms, sightings. Catch diaries, sit down surveys.	On going survey of the fishing activities, in particular netting, in the EMS to inform HRAs. Also gather information on catches to inform netting effort.	4 days	fishers	Libby Ross	Shore visits															May-16	May-16	
15	Devon and Severn IFCA	Fishing Activity	Monitoring of fishing activity in D&S IFCA Angling zones	Skerries Bank,	sightings, ground surveys	Monitoring the uptake and compliance of the Angling Zones code of conduct to evaluate its effectiveness and value to the recreational fishers/RSA sector in the areas.	2 boat surveys per week. 2 shore surveys - one year monitoring.(52 days PV, 52 charter)	anglers, fishers	Libby Ross/ Gavin Mayhew	RIB, charter boats, shore visits															Apr-16	Apr-16	Local - IFCA District
16	Devon and Severn IFCA	Fishing Activity	Monitoring of fishing activity in D&S IFCA Angling zones	Burnham, Berrow and Breann	sightings, ground surveys	Monitoring the uptake and compliance of the Angling Zones code of conduct to evaluate its effectiveness and value to the recreational fishers/RSA sector in the areas.	at least 1 per week	anglers	Libby Ross	Shore visits																Mar-17	
19	Devon and Severn IFCA	Fishing Activity	Intertidal Hand Gathering of shellfish	District wide (in MPA) but focussing mainly Exe Estuary SPA	sightings, ground surveys. Survey forms to record effort etc. at 7 locations around the Exe. GPS.	Intertidal gathering extent and effort data and where possible amounts collected will inform HRA and future management measures.	May and June . 8 surveys per month.	NE	Katherine Stephenson	Shore visits																June 2016 for Exe, ongoing throughout District	Local - IFCA District
	Devon and Severn IFCA	Fishing Activity	Crab tiling	District's estuaries: Plymouth, Yealm, Erme, Avon, Salcombe, Dart, Teign, Axe, Otter, Exe, Sid	Possible use of Drone on the Teign and Exe; tin boat surveys on the Yealm, Erme, Salcombe, Dart. Walking surveys on Axe, Sid and Otter. Tamar & Tavy - tin boat and walking	Crab tile survey have been done every 4 years on the Exe. Many of the estuaries haven't had a survey carried out for over 10 years.	10 -12 days		Katherine Stephenson for boat surveys; Lauren Parkhouse for drone surveys and Libby Ross for	shore & vessel	produce charts of known locations of crab tiles to verify. Need quotes for Exe and Teign drone surveys															Oct-16	Local - IFCA District
20	Devon and Severn IFCA	Fishing Activity	Intertidal Fishing Activity including hand gathering of shellfish, longlines, digging for sand eels	Braunton Burrows SAC	Sightings, mapping effort	To assess the fishing effort and extent to inform HRA.			Lauren Parkhouse/ Kat Stephenson																	Ongoing	Local - IFCA District
21	Devon and Severn IFCA	Species Knowledge/ spawning sites	Herring Spawning Sites	Minehead, Somerset	Seine nets	To determine whether herring spawning in shallow waters and identify sites.	3 days. Possibly may postpone to 2017-2018 survey year	fishers	Libby Ross	Shore survey																	

22	Devon and Severn IFCA	Habitat / feature mapping	Torbay MCZ Seagrass Survey	Torbay MCZ	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-16	Local - IFCA District
23	Devon and Severn IFCA	Species Knowledge	Bass PhD survey work	District wide coast and estuaries. Initially Steart Realignment area.	Fyke nets, seine nets, kick sampling	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																
24	Devon and Severn IFCA	Habitat/ feature mapping	Ground truthing of Tranche 2 features/habitats	Bideford Bay to Foreland Point MCZ; Hartland Point to Tintagel MCZ	Sidescan, flying 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	10 days	CIFCA?/ NE/ EA	Lauren Parkhouse/ Libby Ross	Severn Guardian, SV Tiger Lily															
25	Devon and Severn IFCA	Species Knowledge	INTERCEPH Interreg Project. French & UK Partners	South Devon and English Channel	Testing models, Fishers surveys	This is currently just a proposal to be submitted for Interreg funding, The proposal is currently being written (Feb 2016) and has yet not be fully determined nor approved.	TBA	IFREMER, Unicaen, SMEL, Comites des Perches	Sarah Clark, Katherine Stephenson															2019	EU
26	Devon and Severn IFCA	Understanding Impact of Harmful Algal Blooms on shellfish and shellfisheries	EUROHAB - Interreg Project. French & UK Partners	District wide coast and estuaries	Testing models and monitoring systems to predict toxic algal blooms	ASP impacts on scallop fisheries in the district as well as shellfisheries in estuaries leading to shellfish mortalities, economic impacts to the industry and developing aquaculture, Project Proposal has been submitted to Interreg Va. Final draft of project proposal and application to be submitted by September 2016 to begin the project in 2017.	TBA	PML, MBA, EA, Ifremer, Uni of Southampton, SMEL, CRPM	Sarah Clark															2020	EU
27	Devon and Severn IFCA	N/A	FishTrail - EU COS-TOUR Sustainable Fisheries Awareness Project . Partners include Slovenia, Ireland, Denmark,& Portugal.	Throughout D&S district and sites in UK and Europe covered by project partners	Production of a series of videos which promote sustainable angling practices and direct recreational anglers to information on rules, regulations and best practice that apply to their activities and locations.	Developing recreational sea angling and promoting sustainable use of fisheries resources.	Until July 2017	Westcountry Rivers Trust, Ribiska Druzina Tolmin, South Kerry Development Partnership Ltd, Odense Kommune, Municipio de Figueiro dos vinhos	Libby Ross	N/A															IFCA part ends July 2017	EU