

CRUISES

YEAR	start	finish	SHIP	area	work	People
1937					land seismics improved by use of screened cables, also method for frequency response of apparatus.	Bullard and Kerr Grant
1937	August				Visit by Bullard to US to Prof Field and trip to sea – start of marine geophysics in the UK?	Bullard, Flavill, Browne, Gaskell,
1938			H.M.S. Narwal	English Channel	Gravimeter Narwal recalled 13/9/1938	
1938	July		H.M.S. Jason		2 Ship refraction using Jason's launch as shot firing vessel	Bullard, Flavill, Browne, Gaskell,
1939	05/06/39		Renown/Arthur Rogers	English Channel	2 ship seismic refraction	
1939	August		S.V. Arthur Rogers	English Channel	Short test cruise	
1946						
1947					Mr Cooper tests on 200MHz radar for geophysics – the first??	R.I.B.Cooper
1947						
1948				English Channel	Seismic work S of Plymouth	Hill & Swallow
1948	MAY				New radio equipment for sonobuoys and new hydrophone	Hill ?
1949			?	English Channel	seismics	
1949			Weather Explorer	English Channel	First deep water seismics 2750m	Hill & Swallow
1950			H.M. Survey Ship		Similar equipment to Hills fitted, Gaskell, Swallow & Cleverley on board	Gaskell, Swallow, & Cleverley
1951			H.M. Survey Ship		"Still carrying out seismic work on one of H.M. survey ships"....	T Gaskell and J Swallow
1952			R.S.S. Discovery II	North Sea, Atlantic	Sonobuoys etc – 6 weeks in summer.	Hill, Laughton & Cleverly
1952			H.M.S. Scott		Assisted R.R.S. Discovery II in 2 ship seismics	
1953			H.M.S. Challenger	E North Atlantic	12 seismic stations	John Swallow + Hill & cCleverly in summer
1953					New set of sonobuoys of much reduced size has been constructed	
1954					Mass spec from NPL - Klem Plachecki employed	Dodson
1954						
1955			R.V. Sarcia	English Channel	free fall corer tests.	
1955	April		H M Sub Acheron		pendulum and bathymetry	
1956	18/07/56	30/08/56	R.R.S. Discovery II	Biscay	Magnetometers (comparison), Heat Flow from corer, seafloor camera	Bullard, Hill, Adams, Cleverly + Imperial & IOS
1958			R.R.S. Discovery II	N Atlantic	Coring, Dredging heat flow (7 stations) Sonobuoys (11 stations) Proton Magnetometer. (New Barium Titanate Hydrophones)	
1957			M.V.Sarcia		Testing proton magnetometer	
1958			R.R.S. Discovery II		Coring, dredging.	
1958			CROMBIE		Crombie lab operational	
1959	July		R.V.Sarcia	Continental slope	Coring & dredging??	
1960					Contract with US Office of Naval Research being negotiated.	
1960			R.R.S. Discovery II	Biscay/Iberia	Survey, coring, dredge & proton magnetometer. Heat flow on corer tried.	IOS (Laughton) cruise
1960	August	October	R.R.S. Discovery II	W of Brittany	seismic program W of Brittany	
1960			R.V Chain		Joint seismic program with Discovery II	WHOI
1961	????		R.R.S. Discovery II		New Discovery launched?	
1961	June	July	R.V.Sarcia	W of Brittany	Dredging, test of 2self-recording magnetometer buoys By C.S.Mason. First production towed magnetometer.	C.S.Mason
1961			H.M.S Owen	Indian Ocean		
1962			H.M.S Owen	Indian Ocean		
1961						
1962	Jan	March	R.R.S. Discovery II	W of Canary Islands	coring, dredging, seismics, magnetics. New magnetometer buoy , New sea bed seismics (Shorthouse), Lister's heat flow working OK.	
1962	May	June	R.R.S. Discovery II		Further tests of Shorthouse equipment on biological cruise	
1963			R.R.S. Discovery		R.R.S.Discovery replaces Discovery II - Indian Ocean is first cruise of New Discovery	
1963	August	December	R.R.S. Discovery	N W Indian Ocean	2 ship seismics with OWEN, sea floor seismics, coring, heat flow, dredging, bottom photography	M N Hill +9 people from dept

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1963		Spencer F Baird	Easter Island etc	Magnetic lines	Scripps cruise – E C Bullard
1963		H.M.S.Vidal	Atlantic	gravity and magnetics	J O Beaumont, G.A.Day & M.J.Forbes
1963				3 Digital 3 Comp land magnetometers constructed	Everett and J Osemeikian
1964	September	ARGO		heat flow with Cambridge and American apparatus	J Sclater
1964		Chain		looking at lamont air gun prep to making a copy	EJW Jones
1965		R.V.Conrad		gravity	M Takin
1965		M.S.Snellius		gravity on Dutch Survey ship	G Day
1965	28/02/65	31/03/65 R.R.S. Discovery	Azores	refraction, coring,dredging,magnetics, bathemetry, gravity	M Hill(PSO) + 11
1965		C.S.S Hudson		looking at reflection systems	J Jones
1965	June	H.M.S.Vidal		study of seismic profiling techniques	J Jones
1965				Development of Whitmarsh OBS & Sunderland Magnetometer	
1966	15/02/66	05/04/66 R.R.S. Discovery	Plymouth – Madeira	Seismic reflection got working, Magnetometer lost, OBS sphere imploded	
1966	15/04/66	R.R.S. Discovery	biscay	reflection,bathmetry,magnetics,gravity – opening of Bay of Biscay	10 people
1966	15/04/66	R.R.S. Discovery	King's Trough	dredging	
1966	august	M.V.Platessa	Wash	tests of pop-up seismometer	Whitmarsh
1966	September	?	Loch Ness	Testing marine heat flow method in deep fresh water loch	D Pugh
1966				Rebuild of land seismic refraction apparatus	C Tramontini
1966				G King building laser strain seismometer	G King
1966				Construction of New lab building approved – Wolfson Building	
1966	21/07/66	20/09/66 C.S.S Hudson	N.W.Atlantic	operation and comparison between Camb & Lamont cross coupling computers	
1966				Tim Owen Joined	T.O.
1966	27/10/66	11/11/66 R.V.Chain	Red Sea	Temperature gradient measurements in hot salty holes	
1966	20/11/66	24/11/66 M.V.Andromede	W English Channel	Trial of new sonobuoys, Pop up seismometer line shot	T.O, Whitmarsh
1966	12/12/66	15/12/66 R.V. Sarcia	English Channel	Successful trial of sonobuoys	
1967	11/01/67	11/01/66 R.V.Platessa	Off Lowestoft	Test of magnetometer pop-up system	T.O.
1967	08/03/67	15/03/67 R.R.S.John Murray	English Channel	First J.M. cruise – trial of pop up magnetometer foiled by bad weather.	T.O.
1967	01/04/67	08/06/67 H.M.S.Hecate	N.E.Atlantic	Cross coupling compared with two antiparallel gravimeters	
1967	01/02/67	07/05/67 R.R.S.Discovery	N.W.Indian Ocean	Main Cruise to Indian Ocean	
1967	16/05/67	07/06/67 R.R.S.John Murray	Scotland-Iceland	Trials of gravimeter and electrically erecting gyro	
1967	25/07/67	26/07/67 R.R.S.John Murray	S Irish Sea	Trials of gravimeter and electrically erecting gyro	
1967	08/08/67	24/08/67 R.R.S.Discovery	N.E.Atlantic	Water and sediment temperature profiles	
1967	08/08/67	21/08/67 R.R.S.John Murray	Irish Sea	Successful operation of pop-up system but no record	
1967	13/09/67	13/09/67 M.V.Meggies	S Irish Sea	Testing remote acoustic switch-on for recording sono-buoys	T.O., Mason
1967	16/10/67	02/11/67 F.S.Meteor		Trial of cross coupling computer & prototype of Graf gravimeter	
1967	30/10/67	30/10/67 M.V.Meggies	off Lowestoft	Trials of pop-up magnetometer	
1967	17/11/67	17/11/67 M.V.Meggies	off Lowestoft	Trials of pop-up magnetometer	
1967	15/11/67	05/01/68 M.V.Assab	Red Sea	Seismic work at sea	M.M, C.T, D.D, T.V
1967	22/11/67	19/12/67 R.R.S.Discovery		Trials of pop-up magnetometer - magnetometer lost	J.S,
1967	12/12/67	20/12/67 R.R.S.John Murray		Trial of cross coupling eliminator	
1968	16/02/68	28/02/68 R.R.S.John Murray		Array Buoy and Air gun	
1968	26/03/68	29/03/68 H.M.S.Hecate		Trial of cross coupling eliminator	
1968	01/07/68	01/07/68 M.V.Meggies		Trials of recoding sono-buoys	
1968	26/07/68	18/08/68 C.S.S Hudson	Mid Atlantic Ridge	With R.V.Theta Seismic work on mid Atlantic Ridge	T(Theta – T.O. C.T....) F.G,
1968	31/07/68	19/08/68 R.R.S.Discovery	Bay of Biscay	Seismic work in Bay of Biscay	
1968	09/09/68	13/09/68 H.M.S.Hecate		Trial of cross coupling eliminator	
1968	16/03/68	31/03/68 Landing craft	Windermere	Heat Flow in Windermere and Loch Ness	D.T.Pugh
1968	21/11/68	20/12/68 R.R.S.John Murray	Bay f Biscay	3 seismic lines across Bay of Biscay	
1969	02/05/69	24/05/69 R.R.S.John Murray	S.W.Ireland	Porcupine Bank – first use of Flexotir array – reflection seismics	F.G,A.S,R.A.Scrutton,A.Ziolkowski, M.M, T.O, T.V
1969	01/08/69	06/10/69 R.R.S.Discovery	Azores, Rockall	Seismics on Rockall Bank & testing during Azores part of cruise	DHM,CAW,GD,AMM,RAS,AZ,MM,TV
1970	10/01/70	29/01/70 M.V.Florence	E Mediteranean		
1970	24/03/70	07/04/70 R.R.S.Discovery	W approaches		

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1970	23/04/70	20/05/70	R.R.S.John Murray	Bay of Biscay	2 ship with Florence, Flexotir and 2 sonobuoys and gravity	FG,MB,AZ,WQL,TV,MM
1970	17/07/70	13/08/70	M.V.Surveyor	Rockall	100 mile reversed refraction on Rockall Plat. & gravity traverses	DHM,MB,JL,RAS,TV
1971	12/01/71	16/01/71	R.R.S.John Murray		Demonstrating refraction to IGS	
1971	20/06/71	24/06/71	R.V.Florence	Biscay	Refraction and deep reflection in Bay of Biscay	
1971	19/07/71	31/07/71	R.R.S.John Murray	Rockall	Joint CAM,NIO,IGS 1st in Biscay, mag & gravity 500miles west of land's End	DHM,RS,NIO&IGS 1 st leg, RAS,CAW,Jean Roberts, Mrs Alette I
1971	02/08/71	15/08/71	R.R.S.John Murray	N.E.Atlantic	Joint CAM,NIO,IGS 1st in Biscay, mag & gravity 500miles west of land's End	DHM,RS,NIO&IGS 1 st leg, RAS,CAW,Jean Roberts, Mrs Alette I
1971	20/08/71	02/09/71	M.V.Researcher	Gettysburg Bank	Computer and gravimeter trials	
1971	06/09/71	25/09/71	M.V.Researcher	Gettysburg Bank	Magnetics, Reflexion and Refraction near Gettysburg Bank	DHM,TO,JL,CAW,Ssmith,TV,RDT
1971	09/10/71	09/11/71	M.V.Researcher	E Mediterranean	Refraction and reflexion	
1971	06/12/71	13/12/71	M.V.Researcher	N.E.Atlantic	Magnetics	
1972	18/05/72	16/06/72	R.R.S.Shackleton	N.E.Atlantic	Magnetics and gravity in N.E.Atlantic (45deg N)	
1972	15/06/72	05/08/72	R.R.S.Shackleton	Gettysburg Bank	Gravity and dredging.	DHM,SS,CB-T,Mmc,
1972	22/08/72	01/09/72	R.R.S.Shackleton	E Mediteranean	Bathemetry, Gravity, magnetic and seismic survey in E Med	DHM,,Dr Nafe,Dr Arslanpay,SS,TOJWoodside,Djonsma, DW.
1972	04/10/72	09/11/72	R.R.S.Shackleton	E Med.	Heat Flow in Windermere and Loch Ness	
1972	10/12/72	17/12/72	R.R.S.Shackleton	Gib – Barry	Magnetics	
1973	06/01/73	27/01/73	R.V.Researcher		Comparisons of gravimeters	
1973	06/04/73	03/05/73	R.R.S.Shackleton	W of Gibraltar	Crustal structure of Gibraltar	DHM,WQL,Jlort,MM,Aclayton,Mpurdy, MaFowler
1973	08/05/73	04/06/73	R.R.S.Shackleton	Mid Atlantic Ridge	Seismic exp. On M.A.R. at 36 deg N and magnetic survey W of Bay of Biscay	Tfrancis(PSO)DHM, AC,Mmc,MF,SS.
1973	22/06/73	19/08/73	R.V.Atlantis	Horseshoe sea mt.		Mike Purdy
1974	01/03/74		R.V.Meteor	South Aegean	Reflection & Refraction in south Aegean	D.Jonsma only
1974	08/05/74	30/05/74	R.R.S.Shackleton	E Meditaerranean	Reflection & Refraction in south Aegean – trouble with tape recorders	(8 people)
1974	01/06/74	10/06/74	R.R.S.Shackleton	E Mediteranean	Reflection	J Woodside with Dr G. Evans – Imperial)
1974	11/06/74	29/06/74	R.R.S.Shackleton	E Med,S Aegean	Survey	(7 people)
1974	02/09/74	17/09/74	R.R.S.John Murray	Porcupine Sea Bight	variable angle reflection	(5 people)
1974	20/07/74	14/08/74	LISPB	LISPB	LISPB land experiment England	
1975			Seismic Jet Pen		Seismic Jet pen completed, another for IOS ordered	Owen, McCormack,Mason, Theobald
1975	27/03/75	15/04/74	R.R.S.Shackleton	Gulf of Oman	Reflection and variable angle lines	Whitmarsh (CS-IO)Klitgord,McKenzie,White & Wright
1975	03/08/75	26/08/75	R.R.S.Discovery	Mid Atlantic Ridge	Seismics PUBS OBS and sonobuoys	with IOS
1975	01/12/75		Wimbrown One	Leman Bank UK	Testing Pusses	
1976	04/05/76	16/05/76	R.R.S.John Murray	North Sea	Puss Trial – Dispersed charge not fired, little geophysical data	Matthews, Smith,Christie,Stephens, Clayton
1976			R.R.S.Shackleton	N Atlantic	Cruise 3/76 Sonobuoys & Reflection & IOS PUBS	with whitmarsh IOS
1976			Data Analysis	Lab	A to SD interface for Computer Automation Alpha 16 minicomputer	Owen, J Boadle
1977			R.R.S.John Murray	North sea 7/77	PUSS Main Experiment 2 ships plus land recording	
1977			R.R.S.Shackleton	North Sea 8/77	PUSS Main Experiment 2 ships plus land recording	
1977?			Atlantis II	Kane Fract Zone		Louden, Parsons
1977?	01/11/77	23/11/77	R.R.S.Shackleton			Matthews,S smith,Mason,Sinha,Tanner,Pudsey
			R/V Jean Charcot		Hellenic Trench	Matthews Dr Le Pichon
1978	29/04/78	28/05/78	R/V Melville	Madagascar Rise	Sonobuoys – 120 nm long line, second line no sonobuoys with Marian Dufresne	Fisher(PS- MIT + Sclater & Parsons)Louden,Sinha,Mason
1978			Sonobuoys		Lab – Mel made 2 more new sonobuoys & almost finished 3 more	
1978			OBH prototype		Sinha developing pop up hydrophone with possible 3 comp geophone	
1979	04/01/79	11/02/79	Thomas Washington	Guam – Surabaya	Reflection profiling	Scripps cruise -PSO Eli Silver)S Smith & S Tanner
1979	26/02/79	22/03/79	R.R.S.Shackleton	Azores – Barry	Oceanographer F.Z. 6 new sonobuoys – drogue didn't work, OBH tested noise only	Louden,C Williams,M Mason,M Sinha, S Tanner, B Cassell
1979	30/08/79	10/09/79	R.R.S. Shackleton	Barry-Azores-Gib	Successful test of prototype OBH – grant for 4 more secured	M Sinha, M Rayner J Duschenes
1979	August		Fennolora Exp.	Sweden	Land exp – SCRAP F.M. Seismic recorders used for first time	B Cassells, G Houseman
1980	28/10/80		M.S.Tydman	Atlantic	With R.V.Theta Seismic work on mid Atlantic Ridge	with Utrecht
1980	13/11/80	26/10/80	RRS John Murray	ex Barry	Test OBH/S and Heat Flow disrupted by gale	
1981	12/02/81	25/02/81	RRS Challenger	3/8 Hebrides	2 ship multichannel near hebrides	
1981	13/02/81	24/02/81	M V Starella		2 ship multichannel near hebrides	
1981	14/03/81	27/03/81	Le Noroit	ex naples	Observe French Heat Flow in Tyrhennian Sea	with CNEXO
1981	18/04/81	22/04/81	RV Calunus	ex Oban	Test Heat Flow in Loch Etive	

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1981	29/06/81	09/07/81	RRS John Murray	ex Dundee	Puss Refraction in North Sea	Penny Barton PUSS
1981	September		RV Fred Moore		2 ship multichannel in NW Atlantic	with Lamont
1981	21/11/81	05/01/82	RRS Shackleton	3/8 Tyrennian Sea	OBS and Heat Flow in Provencal & Tyrennian Basin	
1982	16/02/82	16/03/82	RRS Shackleton	3/8 Tydeman FZ	R W OBS 2 Ship multichannel, Deep Tow in Tydeman FZ 36N 25W	
1982	07/09/82	04/10/82	RRS Shackleton	9A Vema FZ	Crustal struc ov Vema FZ – Louden & Bedford OBS	Martin Sinha, K.Louden, Dr Forsyth from Brown Univ.
1982	04/10/82	24/10/82	RRS Shackleton	9B Vema FZ	R W Recovered OBS laid on 9A, then another line. Deep tow 3.5 Khz	
1982	04/05/83	30/05/83	CSS Hudson	Sohm abyssal pln.	Heat flow measurements over Sohm abyssal plain	K Louden
1983	22/12/83	19/01/84	RRS Discovery	Cape Verdes Rise		
1984	06/06/84	21/06/84	RRS Challenger	Hebridean shelf	Scr Test PUMA (pull up multichannel array) on Hebridean shelf	R Scrutton (Edinburgh)
1984	03/07/84	04/08/84	R V Marion Dufrenes	Crozet Rise, I.O	M F Heat flow across Crozet Rise, Indian Ocean	Maurice Recq (Paris)
1984	24/08/84	07/09/84	RRS Discovery	Hebridean Shelf	M S Wide angle seismics into PUMA, Pusses and Scraps	M Sinha, C.A.Williams
1985	04/04/85	12/04/85	RV Tyro	Banda Arc	Jon Heat Flow across Banda Arc	D Jonsma (Amsterdam) & T Owen
1985	17/05/85	11/06/85	RRS Discovery	## N.W. UK	R S 2 ship multichannel and OBS study of N.W.UK	RS White
1985	17/05/85	11/06/85	RRS Charles Darwin	4/8 N.W.UK	We: With Discovery – deployment of OBSs led by Penny Barton.	Penny Barton
1985	09/07/85	30/07/85	RV Bannock	S of Sardinia	Del OBS European geotravers line south of Sardinia	
1986	03/04/86	28/04/86	RRS Charles Darwin	N Atlantic	Sin Seismic Anisotropy – old crust/young crust – revealed coupling problem	Sinha Owen Parashu Unial
1986	29/07/86	10/08/86	RRS Charles Darwin	Red Sea	Wil Red Sea site survey for ODP plus NW I.O> traverse	C.A.Williams
					Multichannel seismics OBS and deeptow across Oman & Makran continental margins	
1987	11/11/87	12/12/87	RRS Charles Darwin	18/ Makran/Oman	Whi and Murray	
1987	04/09/87	23/09/87	RRS Discovery	17/ Falmouth – Barry	Sin Test new EM sounding instruments	
1988	08/11/88	07/12/88	RRS Discovery	17/ NE Atlantic	Bar Controlled source and microseismic study of Madiera-Tores Rise	Barton, Owen, Leonard, Pierce, R Smith, R Evans, P Carter, Sarah V
1988	18/07/88	09/08/88	Eastella	FT Norwegian basin	Whi OBS Survey across Norwegian & Greenland basins	IOS + Susan Horsefield
1989	16/05/89	16/06/89	RRS Charles Darwin	39/ East Pacific Rise	Sin Controlled Source EM sounding on East Pacific rise.	Sinha, Leonard, McCormack, Pravin Patel, Unsworth+ chip Cox, St
1990		25/12/90	RRS Charles Darwin	OCEAN area	Her Deep structure of Mesozoic	
				OCEAN area	Mc&BIRPS charter ship	
1991?		1992	RRS Charles Darwin	CD OCEAN area	Whi Deep structure of Mesozoic - 5 OBSs	
1992	0/6/1992	0/7/1992	RRS Charles Darwin	N of Scotland	Bar W Reflector – 12 OBSs & shot firing (200 shots)	
1992	0/6/1992	0/7/1992	RRS Challenger	N of Scotland	Mor W Reflector – multichannel seismic array	
1992			RRS Charles Darwin	CD Iceland/Rockall	Bob OBS / Multichannel -Reykjanes Ridge / Eldoras Bank	
1992			M/V Deneb	off TYNE	Tim Off Newcastle on Tyne – Commercial Guard Boat part of BIRPS SWABS- OBS	
				D2 WSW Indian ridge	Min Seismic data and rock samples	
1993?			M/V Geco	FIRE – Iceland	Joh multichannel seismic commercial ship Faroes/Iceland Ridge Experiment	
1993?			RRS Challenger	CH FIRE – Iceland	Min Faroes-Iceland Ridge OBSs Faroes/Iceland Exp.	
1993?			RRS Charles Darwin	CD 90	Sin BRIDGET – MAR vent field – with Chris German	

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Lawson.Mmc.
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eve Constable & Maya Tolstoy (Scripps)