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Not to be cited without prior reference to the Marine Laboratory, Aberdeen

FRV *Clupea*

Cruise 1198C

REPORT

3-13 July 1998

Loading: 29 June and 2 July 1998, Fraserburgh

Unloading: 13 July 1998, Fraserburgh

Personnel

R Raynard	SSO (Scientist in charge)
J King	HSO
M Snow	SO

Objectives

To collect samples for the determination of the distribution of viral haemorrhagic septicaemia virus (VHSV) in stocks of wild fish species in coastal waters off western Scotland.

Out-turn days per project: 11 days FC0466

Narrative

Clupea left Fraserburgh on the morning of 3 July following embarkation of scientific staff. Fishing started on the morning of 4 July and continued following the sequence shown in Table 1.

Results

In total 26 hauls were made. Tissue samples of spleen, kidney and brain were removed from fish and stored together in liquid nitrogen. Usually, samples from 10 fish were pooled. Three-hundred and fourteen tissue pools were made from 3,041 fish representing 17 fish species sampled (see Table 2 for details). Samples are stored in liquid nitrogen at the Marine Laboratory and will be tested for the presence of VHSV.

R Raynard
9 September 1998

Seen in draft: A Simpson, OIC

Table 1. Summary of Areas and Species Sampled

<i>Date</i>	<i>VHS Haul No.</i>	<i>Stat. Shoot (long./ lat.)</i>	<i>Stat. Recover (long./ lat.)</i>	<i>Species Sampled</i>	<i>No. Sample Pools</i>	
04/07	1	58 19 920/ 06 01 103	58 19 187/ 06 01 214	HE, PT, ML, WH, HK	15	
	2	58 13 002/ 06 03 206	58 10 722/ 06 04 225	WH, RO, PT, HA, BW	11	
	3	58 09 984/ 05 55 248	58 07 938/ 05 53 619	WH, HA, PT, RO	11	
05/07	4	57 51 083/ 05 57 476	57 48 535/ 05 57 853	HK, PT, RO, BW, PC	9	
	5	57 48 208/ 06 02 834	57 46 241/ 06 01 087	HK, BW, PT, RO, PC, HA	12	
	6	56 55 200/ 06 01 575	56 52 366/ 06 03 422	HE, SP, WH, HA, GR, HK	18	
06/07	7	56 16 017/ 05 53 474	56 14 357/ 05 56 632	WH, PC, SP, PT, LR	12	
	8	55 41 885/ 05 55 613	55 39 866/ 05 55 571	PC, WH	6	
	9	55 37 769/ 05 56 777	55 37 123/ 05 58 588	PC, WH	6	
07/07	10	56 03 112/ 06 09 469	56 01 286/ 06 10 437	SP, PC, WH, PL	11	
	11	56 10 842/ 06 10 673	56 09 221/ 06 14 978	HK, WH, SP, HE, PT, PC, GR	15	
	12	56 17 082/ 06 37 938	56 17 677/ 06 42 013	HK, WH, SP, PL, TB	13	
	13	56 24 067/ 06 44 332	56 26 473/ 06 44 442	WH, PT, PC	9	
08/07	14	56 43 340/ 06 27 499	56 42 483/ 06 29 761	WH, PT, PC	9	
	15	56 49 963/ 07 01 426	56 49 654/ 07 04 796	WH, BW, PT, PC	12	
	16	56 51 865/ 07 16 645	56 53 635/ 07 14 891	BW, HK, WH, PT, PC, HA	15	
09/07	17	56 58 681/ 07 08 705	57 00 779/ 07 06 777	PT, PC, HK, WH, HA, CO	17	
	18	57 05 907/ 06 43 855	57 06 578/ 06 39 301	HK, WH, PT, PC, HA	15	
	19	57 15 270/ 06 40 396	57 14 139/ 06 44 585	WH, HK, PT, PC, HA	8	
10/07	20	58 02 704/ 06 13 252	58 03 983/ 06 11 769	HE, WH, PT, LR, RO	14	
	21	58 01 992/ 05 50 477	58 03 888/ 05 47 530	HK, HE, WH, PT, BW, HA	14	
	22	58 04 314/ 05 37 268	58 06 479/ 05 38 768	BW, PC, PT, HK, HE, WH	14	
	23	58 24 344/ 05 41 157	58 25 037/ 05 45 331	PT, HA, WH, HK, HE	15	
11/07	24	58 17 862/ 06 11 682	58 19 475/ 06 08 663	DB, PL, SE	8	
	25	58 30 399/ 05 53 788	58 32 340/ 05 52 328	HK, WH, DB, PT	12	Total no. pools
	26	58 38 129/ 05 44 832	58 38 448/ 05 41 136	HK, WH, PT, BW, HE	13	

Note: CO=cod; HK=haddock; WH=whiting; BW=blue whiting; PT=Norway pout; PC=poor cod; HE=herring; SP=sprat; HA=hake; ML=mackerel; LR=long rough dab; DB=dab; PL=plaice; TB=turbot; GR=gurnard; RO=rockling; SE=sandeei

Table 2. Summary of Total Numbers of Fish Species Sampled for VHSV

Date	Haul No.	Total Numbers of Fish Sampled per Haul																	
		CO	HK	WH	BW	PT	PC	HE	SP	HA	ML	LR	DB	PL	TB	GR	RO	SE	
04/07	1	-	30	30	-	30	-	30	-	-	30	-	-	-	-	-	-	-	
	2	-	-	30	10	30	-	-	-	4	-	-	-	-	-	-	30	-	
	3	-	-	30	-	30	-	-	-	30	-	-	-	-	-	-	14	-	
05/07	4	-	23	-	10	30	10	-	-	-	-	-	-	-	-	-	7	-	
	5	-	30	-	30	30	9	-	-	6	-	-	-	-	-	-	10	-	
	6	-	30	30	-	-	-	30	30	29	-	-	-	-	-	30	-	-	
06/07	7	-	-	30	-	10	30	-	30	-	-	20	-	-	-	-	-	-	
	8	-	-	30	-	-	30	-	-	-	-	-	-	-	-	-	-	-	
	9	-	-	30	-	-	30	-	-	-	-	-	-	-	-	-	-	-	
07/07	10	-	-	27	-	-	30	-	30	-	-	-	-	20	-	-	-	-	
	11	-	30	29	-	8	10	30	30	-	-	-	-	-	-	10	-	-	
	12	-	30	30	-	-	-	-	30	-	-	-	-	25	1	-	-	-	
	13	-	-	30	-	30	30	-	-	-	-	-	-	-	-	-	-	-	
08/07	14	-	-	30	-	30	30	-	-	-	-	-	-	-	-	-	-	-	
	15	-	-	30	25	30	30	-	-	-	-	-	-	-	-	-	-	-	
	16	-	20	30	10	30	30	-	-	18	-	-	-	-	-	-	-	-	
09/07	17	1	30	30	-	30	30	-	-	30	-	-	-	-	-	-	-	-	
	18	-	30	30	-	30	30	-	-	30	-	-	-	-	-	-	-	-	
	19	-	10	30	-	7	17	-	-	8	-	-	-	-	-	-	-	-	
10/07	20	-	-	30	-	30	-	30	-	-	-	30	-	-	-	-	20	-	
	21	-	30	30	10	30	-	30	-	10	-	-	-	-	-	-	-	-	
	22	-	10	30	30	30	30	10	-	-	-	-	-	-	-	-	-	-	
	23	-	29	30	-	30	-	30	-	30	-	-	-	-	-	-	-	-	
11/07	24	-	-	-	-	-	-	-	-	-	-	-	30	30	-	-	-	17	
	25	-	30	30	-	30	-	-	-	-	-	-	29	-	-	-	-	-	
	26	-	30	28	30	30	-	10	-	-	-	-	-	-	-	-	-	-	
		1	392	684	155	535	376	200	150	195	30	50	59	75	1	40	81	17	Total No. 3041

Note: CO=cod; HK=haddock; WH=whiting; BW=blue whiting; PT=Norway pout; PC=poor cod; HE=herring; SP=sprat; HA=hake; ML=mackerel; LR=long rough dab; DB=dab; PL=plaice; TB=turbot; GR=gumard; RO=rockling; SE=sandeel