PROTOCOL DREDGE

23

Cruise No. SO 37	Stat. No. Equipm. 14 DK	Location III	Area I
Date 25/05 1985	Protocol written by : Herzig / Commeau		

Pinger on wire 300 m from dredge

	Time GMT	Latit. N	Longit. W	Water depth	Wire length	Tension (t)	Remarks
begin operation	06.19	15°41'.13	170°20'.74	2129	0	–	
begin lowering	06.25	15°41'.14	170°20'.69	2179	0	–	
+1. bottom contact	06.54	15°41'.16	170°20'.67	2251	2481	1.1	
	07.28	15°40'.74	170°21'.36	1769	2544	4.6	
	07.31	15°40'.72	170°21'.43	1773	2544	5.5	
	07.34	15°40'.70	170°21.48	1750	2544	6.0	
	07.36	15°40'.67	170°21.55	1723	2544	5.6	
	07.38	15°40'.65	170°21.61	1677	2544	5.3	
	07.42	15°40'.62	170°21.71	1660	2544	5.6	
Dredge Lost	07.50	15°40'.57	170°21'.86	1585	2509	10.7	
Wire Broken at 2452m on meter							
begin heaving	07.48	15°40'.57	170°21.84	1615	2544	5.0	
end heaving	07.59	15°40'.67	170°22.01	1426	2452	–	
end operation	"	"	"	"	"	"	

+Corrected data 15°42.23'N 170°20.52' W

ship course ...2440..... calcul. mean water depth.....m

total time of bottom contact.....min ship velocity 1.2 kts

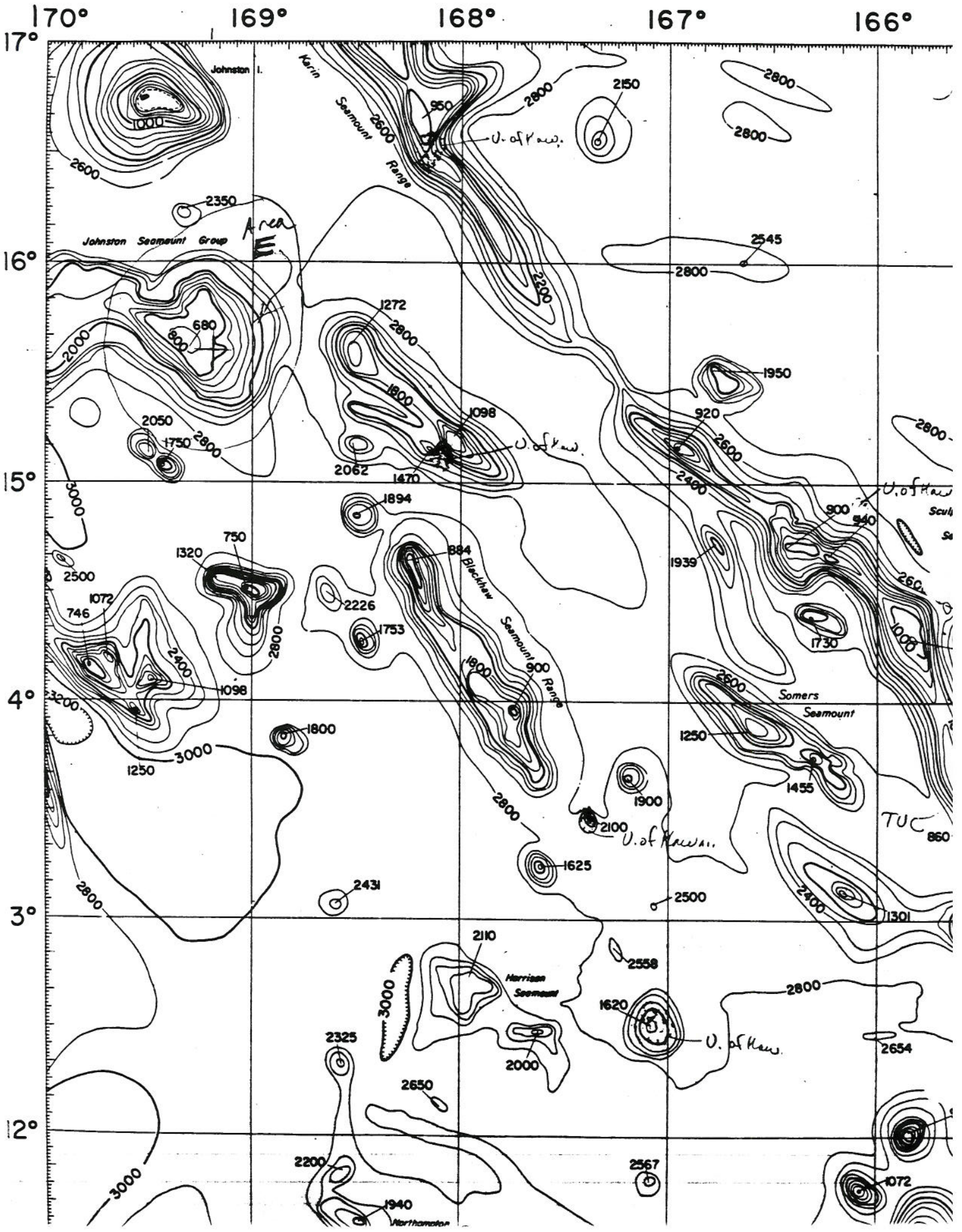
bottom topography ..... length of dredge section .....m

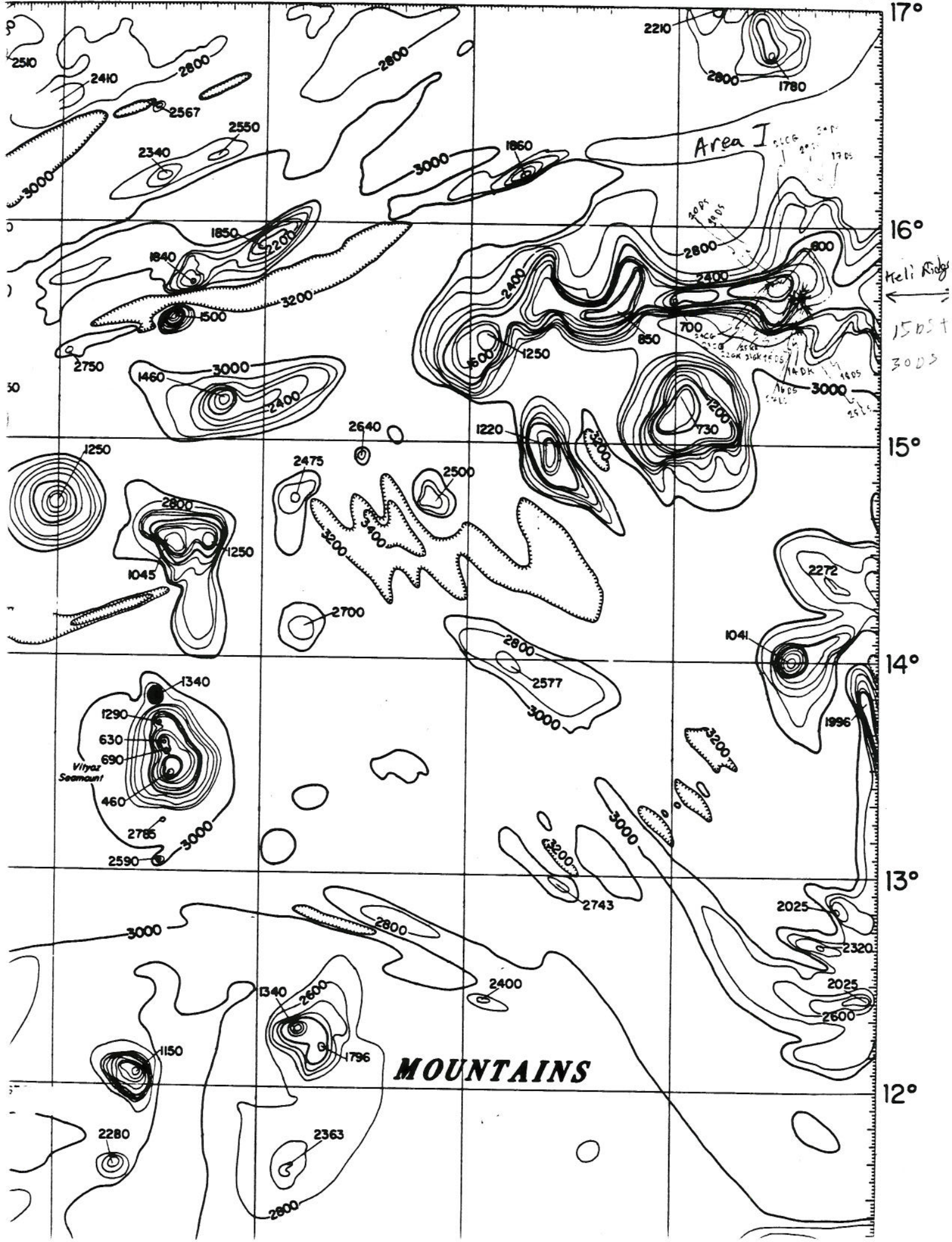
Result

....kg Total ....kg Substrate

....kg Nodules ....kg Sediment

w/ 100 fathom contour dashed where applicable





17°
16°
15°
14°
13°
12°
Area I
Heli Ridge
15 DS +
30 DS
MOUNTAINS
Vityaz Seamount
2510
2410
2800
2567
2550
2340
3000
2800
2210
2800
1780
1860
3000
1850
2200
1840
3200
1500
2750
1460
3000
2400
2800
2400
800
2400
700
850
1600
1250
1200
730
3000
1220
3200
2640
2475
2500
1250
2800
1250
1045
3200
3400
2700
2272
1041
2800
2577
3000
1996
1340
1290
630
690
460
2785
3000
2590
3200
3000
3200
2743
2025
2320
2025
2600
3000
2800
2400
1340
2600
1796
1150
2280
2363
2800

[illegible] Station Data [illegible]

Pinger 300 m from dredge

	Time GMT	Lat. N	Long. W	Water Depth	Wire Length	Tension
Begin operation:	06:19	15°41'13"	170°20'.74"	2129	0	—
Begin lowering:	06:25	15°41'14"	170°20'69"	2173	0	—
+1 Bottom contact:	06:54	15°41'.16"	170°20'67"	2251	2481	
Dredge lost!	07:50	15°40'57"	170°21'86"	1585	2509	10.7

wire broken at 2452 m on meter

Begin heaving	07:48	15°40'57"	170°21'84"	1615	2544	5.0
End heaving	07:59	15°40'67"	170°22.01"	1426	2452	—
End operation	"	"	"	"	"	"
Ship course	2440	Ship velocity 1.2 kts				

NO Recovery!