

Table S1: Dredge locations yielding rock material during the RV Franklin 1987 voyage (expedition FR 9/87)

FR 9/87 dredge no.	Dredge location	Latitude (S)	Longitude (E)	Water depth (m)	Sample recovery
3	SW slopes of Christmas Island offshore from Eugeria Point	S 10 28.57' F 10 29.00'	105 29.99' 105 31.30'	1900-1700	small pieces of basalt and limestone
4	SW slopes of Christmas Island offshore from Eugeria Point	S 10 28.57' F 10 29.00'	105 29.99' 105 31.30'	1900-1700	full bag of limestone and basalt
7	Scherbakov Seamount	S 10 49.10' F 10 50.29'	104 44.46' 104 46.21'	2200-2000	full bag of reefal limestone some with basalt fragments
8	Vening Meinesz Seamount "1341m"	S 11 20.75' F 11 18.96'	104 47.96' 104 47.91'	2100-2000	small fragments of mudstone/manganese crust
9	Vening Meinesz Seamount "1341m"	S 11 17.92' F 11 17.54'	104 45.29' 104 48.03'	2500-2400	small fragment of altered manganese crusted basalt
11	Vening Meinesz Seamount "1344m"	S 11 44.09' F 11 44.44'	103 16.51' 103 17.04'	2200-1500	one small rock fragment
14	Vening Meinesz Seamount "1763m"	S 11 37.60' F 11 38.12'	103 38.40' 103 41.63'	2000-1500	two small rock fragments
15	Vening Meinesz Seamount "1763m"	S 11 37.78' F 11 37.20'	103 40.84' 103 41.02'	1900-1700	full bag of altered basalt