VC	VC	ROV	PC	VC	ó	ROV	VC	VC	ROV	Equipment Code	Activity ID: W-1-06-MB
973- VC33	973- VC32	Dive 973	972-50	972- VC31	972- VC30	Dive 972	971- VC29	971- VC28	Dive 971	Đ): W-1-06
118	118	118	118	118	118	118	117	117	117	Start Day	·MB
18	17	17	15	15	14	14	23	23	22	Start Hour	
59	53	40	56	07	21	07	49	20	38	Start	
Long barrel (6 ft)	Long barrel (6 ft)	Dive 973 Tiburon ROV in upper Pioneer Canyon, south branch. Trip Niskins 5m altitude	Push core for stratigraphy	Long barrel (6 ft)	Long barrel (6 ft)	Dive 972 Tiburon ROV in upper Pioneer Canyon, north branch. Trip Niskins 5m altitude	Long barrel (6 ft)	Long barrel (6 ft)	Dive 971 Tiburon ROV in upper Ano Nuevo Cyn Trip Niskins 5m altitude	Start Comment	USGS
118	118	118	118	118	118	118	117	117	118	End Day	CMG
19	18	19	16	15	14	16	23	23	00	End	اسرا
80	05	08	02	27	<u> </u>	05	54	25	24	Min	
Full stroke.	Very short stroke in stiff sediment. Switch out barrels for next station	Leave bottom immediately after finishing VC 33.	Core saved in barrel	Slow going, maybe 2/3 stroke.	Full stroke but stiff sedi- ment and catcher fingers inverted. Some core loss?; switch out barrels for next station	Leave bottom	Full stroke; vibrate all but first ~30 cm	Hard substrate (talus block at ~30 cm depth; switch out barrels for next station	Leave bottom	End Comment	Operation Log
442.7	458.3	Variable see samples	449.8	451.7	453	Variable see samples	1056.9	1061.5	Variable see samples	Depth (meters)	

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1013		51	23	118	On south wall; place in left front of basket	49	23	118	794-RX5	RX
1037		42	23	118	Horizontal PC into steep face of outcrop of shaley sediment	40	23	118	974- PC43	PC
1049		36	23	118	On south wall; place in back on top of other samples in basket	35	23	118	794-RX4	RX
1053		33	23	118	On south wall; place in back right corner of basket	32	23	118	794-RX3	RX
1061		26	23	118	On south wall; place in back right corner of basket	25	23	118	794-RX2	RX
1068		23	23	118	Horizontal PC into steep face of outcrop of shaley sediment	21	23	118	974- PC79	PC
1080	Was float; outcrop may be at 1077m depth	14	23	118	On south wall; place in right front corner of basket	11	23	118	7954- RX1	RX
1085		10	23	118	Horizontal PC into steep face of outcrop of shaley sediment	07	23	118	974- PC80	PC
1107		04	23	118	Horizontal PC into steep face of outcrop of shaley sediment	59	22	118	974- PC53	PC
1117		57	22	118	Horizontal PC into steep face of outcrop of shaley sediment	53	22	118	974- PC66	PC
1130	About 80% stroke. Site is in thalweg.	45	22	118	Long barrel (6 ft)	36	22	118	974- VC35	VC
1128	Full stroke with last last 50 cm in stiff sediment. Switch out barrels for next station	54	21	118	Long barrel (6 ft)	45	21	118	974- VC34	VC
Variable see samples	Leave bottom.	32	00	119	Dive 974 Tiburon ROV in Pioneer Canyon. Trip Niskins 5m altitude	35	21	118	Dive 974	ROV

1570		34	21	119	On north wall; fell into PC	3 3	21	119	796-RX1	RX
1620	Full stroke, vibration for last half	9	21	119	Long barrel (6 ft)	57	20	119	976- VC39	VC
	last half								VC38	
1620	Full stroke, vibration for	20	20	119	Long barrel (6 ft)	17	20	119	976-	⟨
samples	trying to sample vertical north canyon wall scarp				dive here this cruise. Trip Niskins 5 m altitude					
see	minutes of dive spent				Pioneer Canyon; deepest				976	
Variable	Leave bottom. Last 70	30	22	119	Dive 976 Tiburon ROV in	04	20	119	Dive	ROV
399		44	15	119	outcrop of shaley sed.	42	15	119	975- PC59	C
1 1.0	cm in stiff sediment.		i -	-	Loi & parier (o it)			-	VC37	ć
410 B	Short stroke maybe 50	n i	77	110	Topa harrol (6 ft)	30	אַר	110	075	5
	sediment. Switch out barrels for next station									
3	last 50 cm in stiff	ī		-	E019 201101 (0.11)	6	1	-	VC36	(
434	About 70% stroke with	3	14	110	Long barrel (6 ft)	90	14	110	975	VO.
434	PC to be logged before splitting	59	13	119	Push core for strati-	54	13	119	975- PC76	PC
					Trip Niskins 5m altitude					
samples					Pioneer Canyon.					
Valiable	Leave polioni.	40	5	-	un-named gulley north of	49	13	-	975	X C <
			1						!	
					sediment below					
	as a horizontal PC				slope to get older				PC63	
938	This PC is to be treated	14	00	119	Vertical PC on modest	13	00	119	974-	PC
	200000000000000000000000000000000000000				sediment below				0	
9/4	as a horizontal PC	G	0	9	slone to get older	Co	0	9	9/4- DC5/4	Ċ
24	1	3	3		inidale of FC traysw	ו	8		21	
985		00	00	119	On south wall; place	59	23	118	794-RX6	RX
994		55	23	118	outcrop of shaley sed.	54	23	118	974- PC57	PC
200		1	3			1	2		2	

VC	PC	ROV	RX	RX	VC	PC	VC		ROV	PC	PC	RX	
978- VC42	978- PC59	Dive 978	797-RX2	797-RX1	977- VC41	977- PC66	977- VC40	977	Dive	976- PC55	976- PC57	796-RX2	
120	120	120	120	120	120	120	120	į	120	119	119	119	
20	20	19	18	16	15	15	15		14	22	22	21	
80	03	57	26	22	45	36	09	Į	25	22	05	46	
Long barrel (6 ft)	Push core for stratigraphy	Dive 978 Tiburon ROV Partington Canyon. Trip Niskins 5 m altitude	On north wall	On north wall	Long barrel (6 ft)	Push core for stratigraphy	Long barrel (6 ft)	in Sur Canyon; deepest dive MBARI has done in the canyon. Trip Niskins 5 m altitude	Dive 977 Tiburon ROV	Horizontal PC vertical scarp, north canyon wall	Horizontal PC top of vertical cliff on north canyon wall	On north wall; fell into basket behind PCs	basket
120	120	120	120	120	120	120	120	į	120	119	119	119	
20	20	21	18	16	1515	15	15		200	22	22	21	
13	07	37	27	23	55	44	16	Į	28	28	<u> </u>	48	
Full stroke, max vibration.	Core saved in barrel	Leave bottom.	Big tabular rock in back of PC racks	Small tabular rock in back of PC racks	80% stroke, very slow on last 6" before quitting	Core saved in barrel	Full stroke, max vibration for last 6".	minutes of dive spent in sampling vertical to overhanging cliffs on north canyon wall	Leave bottom. Last 26	Horizontal coring got only mud/rock chips; then pushed core into surface mud to plug barrel.	Horizontal coring got only mud/rock chips; then pushed core into surface mud to plug barrel.		
1270.5	1270.5	Variable see samples	1811	1822	1860	1860	1861	see samples	Variable	1500	1518	1566	

RX	RX	T C	6	S	ROV	\chi_0	RX	RX
979-RX2	979-RX1	PC43	979- VC45	979- VC44	Dive 979	978- VC43	798-RX2	798-RX1
121	121	121	121	121	121	120	120	120
01	01	C.	2	00	00	21	20	20
53	42	3/	24	56	40	14	42	40
On south wall of canyon	On south wall of canyon	of vertical channel wall about 1 m above floor	Long barrel (6 ft)	Long barrel (6 ft)	Dive 979 Tiburon ROV in upper Partington Canyon. Trip Niskins at 719 m depth	Long barrel (6 ft)	On inner channel wall	On inner channel wall?
121	121	Ŋ	121	121	121	120	120	120
01	01	C	2 2	01	01	21	20	20
55	44	40	29	03	56	21	43	41
Rock in back left of PC racks	Small rock in back of PC racks	in core; will need to wash carefully	About 75% stroke, max vibration.	Less than half stroke, max vibration.	Leave bottom.	30% stroke, hit hard layer 1287 and tough pullout	rock in right front corner of PC racks	Small rock in right front corner of PC racks
708	721.9	122	722.5	721.8	Variable see samples	1287	1282	1282