

Proposed Schedule

Subject to Change Based on Adaptive Management

Exploration Licence (60 months) Month	Expedition / Leg #	Vessel	Principle Activity	Box Core and Bulk Sampling	Duration	Budget (NZD)
1 (Mar 2022)			Exploration Licence granted			
2 (Apr 2022)						
3 (May 2022)						
4 (Jun 2022)	Seasurveyor / Leg#1	Small vessel (~40m)	Small vessel arrives Rarotonga			\$576,960
4 (Jun 2022)	Seasurveyor / Leg#1	Small vessel (~40m)	Box Coring	50-85 small box cores	21 days	\$829,380
5 (Jul 2022)	Seasurveyor / Leg#1	Small vessel (~40m)	Preparations for Expedition #1 (commence moorings development and build)	50-85 small box cores	30 days	
6 (Aug 2022)	Seasurveyor / Leg#2	Small vessel (~40m)	Preparations for Expedition #1	50-85 small box cores	30 days	
7 (Sep 2022)	Seasurveyor / Leg#3	Small vessel (~40m)	Preparations for Expedition #1. Large Vessel arrives S.Pacific. Sampling with Free Fall Grabs and video recording with Drop Cameras	50-85 small box cores	30 days	\$1,153,920
8 (Oct 2022)	Expedition #1 / Leg#1	Large vessel (~60-80m)	Shipborne multibeam mapping of approximately 100,000 km ²		30-45 days	\$3,158,856
9 (Nov 2022)	Expedition #1 / Leg#2	Large vessel (~60-80m)	Shipborne multibeam mapping of approximately 112,000 km ²		30-45 days	\$3,158,856
10 (Dec 2022)	Expedition #1 / Leg#3	Large vessel (~60-80m)	Box Coring, Bulk Sampling with dredge. Sampling with Free Fall Grabs and video recording with Drop Cameras	75-150 box cores, up to 50 tonnes of bulk sample	30-45 days	\$3,721,392
11 (Jan 2023)	Expedition #1 / Leg#4	Large vessel (~60-80m)	Box Coring, Bulk Sampling with dredge, High resolution mapping and sampling with Deeptow and ROV (visual and biota sampling). Sampling with Free Fall Grabs and video recording with Drop Cameras	75-150 box cores, up to 50 tonnes of bulk sample	30-45 days	\$4,644,528
12 (Feb 2023)	Expedition #1 / Leg#5	Large vessel (~60-80m)	High resolution mapping and sampling with Deeptow and ROV, Moorings, mini-Landers deployments, additional Environmental baseline data collection		30-45 days	\$4,644,528
12 (Feb 2023)		Large vessel (~60-80m)	Large Vessel departs S.Pacific			\$1,153,920
13 (Mar 2023)	Moved to Jun 2022					
13 (Mar 2023)	Moved to Jun 2022					
14	Expedition #2 / Leg#2	Small vessel (~40m)	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680

15	Expedition #2 / Leg#3	Small vessel (~40m)	Box Coring and possibly bulk sampling. Sampling with Free Fall Grabs and video recording with Drop Cameras. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required	15 days	\$649,080
16	Expedition #2 / Leg#4	Small vessel (~40m)	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,189,980
17	Expedition #2 / Leg#5	Small vessel (~40m)	Box Coring and possibly bulk sampling. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required	15 days	\$649,080
18	Expedition #2 / Leg#6	Small vessel (~40m)	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection. Sampling with Free Fall Grabs and video		15 days	\$1,009,680
19	Expedition #2 / Leg#7	Small vessel (~40m)	Box Coring and possibly bulk sampling. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required	15 days	\$829,380
20	Expedition #2 / Leg#8	Small vessel (~40m)	High resolution mapping and sampling with AUV and/or ROV, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680
21	Expedition #2 / Leg#9	Small vessel (~40m)	Box Coring and possibly bulk sampling. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required	15 days	\$649,080
22	Expedition #2 / Leg#10	Small vessel (~40m)	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,189,980
23	Expedition #2 / Leg#11	Small vessel (~40m)	Box Coring and possibly bulk sampling. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required	15 days	\$649,080

24	Expedition #2 / Leg#12	Small vessel (~40m)	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection		15 days	\$1,009,680
25	Expedition #3 / Leg#1/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$829,380**
26	Expedition #3 / Leg#2/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680**
27	Expedition #3 / Leg#3/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
28	Expedition #3 / Leg#4/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,189,980**
29	Expedition #3 / Leg#5/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
30	Expedition #3 / Leg#6/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680**

31	Expedition #3 / Leg#7/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$829,380**
32	Expedition #3 / Leg#8/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680**
33	Expedition #3 / Leg#9/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
34	Expedition #3 / Leg#10/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,189,980**
35	Expedition #3 / Leg#11/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
36	Expedition #3 / Leg#12/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests and data recovery, additional Environmental baseline data collection. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680**

37	Expedition #4 / Leg#1/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$829,380**
38	Expedition #4 / Leg#2/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests and data recovery, additional Environmental baseline data collection. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680**
39	Expedition #4/ Leg#3/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
40	Expedition #4 / Leg#4/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,189,980**
41	Expedition #4 / Leg#5/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
42	Expedition #4/ Leg#6/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680**

43	Expedition #4 / Leg#7/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$829,380**
44	Expedition #4/ Leg#8/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680**
45	Expedition #4 / Leg#9/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
46	Expedition #4 / Leg#10/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,189,980**
47	Expedition #4 / Leg#11/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
48	Expedition #4 / Leg#12/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680**
49	Expedition #5/ Leg#1/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$829,380**

50	Expedition #5 / Leg#2/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680**
51	Expedition #5/ Leg#3/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
52	Expedition #5 / Leg#4/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,189,980**
53	Expedition #5 / Leg#5/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
54	Expedition #5/ Leg#6/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680**
55	Expedition #5 / Leg#7/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$829,380**

56	Expedition #5/ Leg#8/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680**	
57	Expedition #5 / Leg#9/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**	
58	Expedition #5 / Leg#10/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,189,980**	
59	Expedition #5 / Leg#11/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**	
60	Expedition #5 / Leg#12/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests. Sampling with Free Fall Grabs and video recording with Drop Cameras		15 days	\$1,009,680**	
					Expedition Leg days	945 days	\$64,908,000**

* Pre-existing vessel may be used for Harvesting Tech Testing pending the vessel's capabilities and data required.

** Harvesting tech testing budget not included (to be determined)