



## Permitted activities: Pre-activity notice

*Form 1 of Schedule 5 of the Exclusive Economic Zone and Continental Shelf (Environmental Effects – Permitted Activities) Regulations 2013*

**How to use this form:** This form must be completed by organisations planning to carry out a permitted activity (except seismic surveying) in accordance with:

- regulation 5, 6 or 8 of the Exclusive Economic Zone and Continental Shelf (Environmental Effects – Permitted Activities) Regulations 2013 (PA Regulations 2013); or
- regulation 7, 8 or 9 of the Exclusive Economic Zone and Continental Shelf (Environmental Effects – Discharge and Dumping) Regulations 2015 (D&D Regulations 2015).

This form fulfils the pre-activity reporting requirements under regulation 11(a) of the PA Regulations 2013 and regulation 12(2) of the D&D Regulations 2015.

**Timeframe:** You must provide this form to the Environmental Protection Authority (EPA) no less than 40 working days before starting the activity.

**Note:** Items marked in *italics* are not compulsory; however, including this information will help the EPA process the form.

This completed form, once received and processed by the EPA, will be posted on the EPA website.

**Submitting in hard copy:** If you wish to provide the completed form in hard copy, post it to Environmental Protection Authority, Private Bag 63002, Wellington 6140 or fax it to +64 4 914 0433.

**Submitting electronically:** If you wish to provide the completed form electronically, email it to [permitted.compliance@epa.govt.nz](mailto:permitted.compliance@epa.govt.nz).

Any form submitted electronically should be attached to an email that sets out:

- the details of the person undertaking the permitted activity (the operator)
- the name of the person supplying the completed form
- a statement that the person is authorised to supply the form on behalf of the operator.

Note: The EPA has an 8 MB limit on electronic files submitted by email.

You can find and download all forms prescribed by the PA Regulations 2013 and the D&D Regulations 2015, as well as suggested templates for providing other information, on our website at [www.epa.govt.nz](http://www.epa.govt.nz) or request them from us by contacting:

Environmental Protection Authority,  
Private Bag 63002, Wellington 6140  
Email [permitted.compliance@epa.govt.nz](mailto:permitted.compliance@epa.govt.nz)

Phone +64 4 916 2426  
Fax +64 4 914 0433

**Operation name: Deployment of moorings on Campbell Plateau**

Name used by operator to reference the activity described in this form:

**Details of person undertaking permitted activity**

<b>Name of company, organisation or person:</b>	National Institute of Water and Atmospheric Research Ltd		
<b>Contact person:</b>	[REDACTED]		
<b>Phone number:</b>	[REDACTED]		
<b>Mobile number:</b>	[REDACTED]	<b>Fax number:</b>	[REDACTED]
<b>Physical address:</b>	[REDACTED]	<b>Postcode:</b>	[REDACTED]
<b>Postal address (if different):</b>	[REDACTED]	<b>Postcode:</b>	[REDACTED]
<b>Email address:</b>	[REDACTED]		

**General description of permitted activity****Type of activity:**

Marine scientific research	<input checked="" type="checkbox"/>	Alteration, extension or removal of a permitted marine structure	<input type="checkbox"/>
Prospecting	<input type="checkbox"/>	Discharge of sediments from iron sand prospecting and exploration	<input type="checkbox"/>
Exploration	<input type="checkbox"/>	Incidental discharge of sediments from phosphate nodule or placer gold prospecting and exploration	<input type="checkbox"/>
Placement or removal of submarine cables	<input type="checkbox"/>	Discharge of sediments from seafloor massive sulphide prospecting and exploration	<input type="checkbox"/>

**Description of methods to be used to undertake the activity:**

NIWA proposes to use seafloor moorings to collect data from the oceanic (water column) environment.

We plan to deploy four sub-surface moorings (Figure 1): Three oceanographic moorings, comprised of an ADCP (ocean current profiler), single point current meters, and temperature and salinity sensors. In addition, we will deploy one wire-walker consisting of a group of water sensors (temperature, salinity and oxygen) mounted in an instrument package that travels up and down a mooring wire. This piece of equipment will travel up and down the wire with a variable cycle.

Each of the four moorings will be anchored on the seabed using a railway wheel weighing ~1,000 kg and having a benthic footprint of ~0.6m<sup>2</sup>. Following the experiment, an acoustic release will be activated, and the instruments and components will be recovered, leaving only the weight on the seabed.

Campbell Plateau 'A' Mooring, Oct 2016, DRAFT 06-Oct-2016

depth	component	S/N	length	rope
3 m	Pickup float			
7 m	Benthos	(1)	10 m	8.0mm dyneema
8 m	SBE-56		5 m	8.0mm dyneema
13 m	SBE-37 SM		4 m	8.0mm dyneema
			0.5 m	Chain 10mm
18 m	37" 600kHz + beacon		1 m	Chain 10mm
			100 m	8.0mm dyneema
120 m	Benthos	(1)		
121 m	SBE-37 SM		4 m	8.0mm dyneema
125 m	Seaguard			
			175 m	8.0mm dyneema
302 m	SBE-37 SM		175 m	8.0mm dyneema
478 m	75kHz ADCP			
			1 m	Chain 10mm
			250 m	8.0mm dyneema
733 m	Benthos	(1)		
734 m	SBE-37 SM		4 m	8.0mm dyneema
738 m	Seaguard			
			50 m	8.0mm dyneema
790 m	Benthos	(4)		
793 m	2-AR		5 m	Chain 13mm

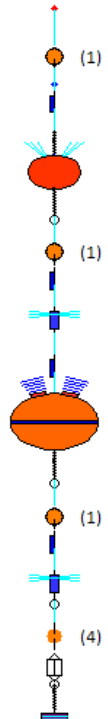


Figure 1: Proposed mooring.

### Timing of permitted activity

<b>Proposed start date:</b>	Voyage dates: 15 March to 1 April 2017
<b>Approximate duration of activity:</b>	Mooring deployments: 18 months between deployment and recovery.
<b>Timetable:</b>	Mooring deployments are weather dependant and the timing cannot be determined in advance. However, we anticipate deploying the moorings between 15 March and 1 April 2017. Each mooring will take less than 24 hours to deploy. We will recover the moorings within 18 months after deployment.

### Location of permitted activity

#### Co-ordinates of area where activity will be undertaken:

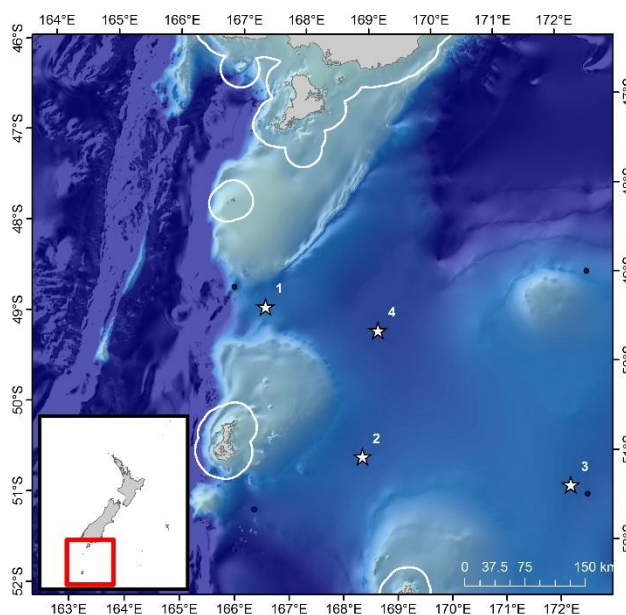
(Provide four sets of co-ordinates in latitude and longitude **or** submit a shape file or KML/KMZ file.)

Set 1	-49.00, 166.50
Set 2	-49.00, 172.80
Set 3	-51.80, 172.80
Set 4	-51.80, 166.50
<input checked="" type="checkbox"/>	I have attached a shape or KML/KMZ file

#### Map:

(Provide a map that shows the location of your activity relative to the New Zealand coastline)

The moorings will be deployed within the latitude longitude box given above. Specific locations of the moorings (Table 1) are shown on Figure 2 below.



**Figure 2:** Proposed mooring deployment locations (white stars).

**Table1: Mooring deployment locations**

Mooring	latitude	longitude
1	-49.25	167.00
2	-51.00	168.50
3	-51.40	172.20
4	-49.60	168.90

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**Description of the current state of the area and the surrounding environment, including any known sensitive environments:**

Campbell Plateau is an extension of the New Zealand continental shelf and extends 1000 km southeast from the South Island, New Zealand. It occupies an important position in the southwest Pacific sector of the Southern Ocean. With most depths shallower than 1000 m it also has several subantarctic islands such as the Auckland Islands and Campbell Island.

The oceanic variability over Campbell Plateau influences New Zealand's climate by affecting the local oceanography southeast of the South Island. The area supports fisheries of economic importance that reflects the productivity associated with the oceanic fronts, especially the Subtropical Front. The New Zealand subantarctic islands also support a variety of marine mammals and sea-birds whose populations are affected by oceanographic climatic factors as well as human activities.

The environment is relatively heavily fished, mainly using midwater trawls towed on the bottom, with more than 20,000 trawls in the region since 1993. Work with net-mounted cameras by NIWA in 2011 and 2013 showed the seabed on the body of the plateau is relatively flat and mainly consists of soft sediment.

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**Describe the likely effects of the activity on the environment:**

The likely effect of mooring deployment on the environment is negligible. The area is heavily trawled. The only long-term impact will be the mooring weights, which remain on the seabed. The footprint of each weight is ~0.6m<sup>2</sup>. The combined footprint of the four moorings deployed will have a benthic impact ~ 2.4 m<sup>2</sup>. Previous experience has suggested that mooring weights may provide settlement habitat for benthic invertebrates.

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**Other information**

<b>Name of the ship involved in the activity:</b>	██████████
<b>International call sign or vessel number of the ship:</b>	██████
<b>Associated licence number (under the Continental Shelf Act 1964):</b>	██
<b>Associated permit number (under the Crown Minerals Act 1991):</b>	██

**Signature of authorised contact person**

████████████████████

**Name:** ██████████

**Title:** ██████████

**Note:** A signature is not required for electronic (email) forms.