

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF OCEAN ENERGY MANAGEMENT  
Pacific OCS Region

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(Insert Appropriate BOEM Office)

**Requirements for Geological and Geophysical Prospecting, Exploration,  
or Scientific Research on the Outer Continental Shelf  
Related to Minerals Other than Oil, Gas, and Sulphur**

**Application to Conduct Geological or Geophysical Prospecting  
or Noncommercial Exploration  
or Notice of Scientific Research  
Related to Minerals Other than Oil, Gas, and Sulphur  
on the Outer Continental Shelf**

(Attachment 1)

**Nonexclusive Use Agreement for  
Noncommercial Exploration or Scientific Research**

(Attachment 2)

**SUBMIT:** One original, one copy of the original, one digital copy, and one public copy (all with original signatures). Contact BOEM for further instruction on digital signature applications.

**Paperwork Reduction Act of 1995 (PRA) Statement:** The PRA (44 U.S.C. Chapter 35 *et seq.*) requires us to inform you that the Bureau of Ocean Energy Management (BOEM) collects this information to evaluate applications for permits or authorizations to conduct prospecting or noncommercial exploration offshore and to monitor activities of scientific research conducted under notices. BOEM uses the information to ensure there is no environmental degradation, personnel harm, damage to historical or cultural sites, or interference with other uses. Information requested in this form is required to obtain or retain a benefit. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget Control Number. The reporting burden for this form is estimated to average 88 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct your comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Bureau of Ocean Energy Management, 45600 Woodland Road, Sterling, Virginia 20166.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF OCEAN ENERGY MANAGEMENT**

**REQUIREMENTS FOR GEOLOGICAL AND GEOPHYSICAL PROSPECTING, EXPLORATION,  
OR SCIENTIFIC RESEARCH ON THE OUTER CONTINENTAL SHELF  
RELATED TO MINERALS OTHER THAN OIL, GAS, AND SULPHUR**

**Authority**

You must perform all geological and geophysical prospecting, noncommercial exploration, or scientific research activities authorized and conducted on the Outer Continental Shelf (OCS) according to the OCS Lands Act, 30 CFR Part 580, as applicable, and other applicable Federal statutes and regulations, as amended.

**General Requirements of Permits, Authorizations, and Notices**

You must conduct geological and geophysical activities for mineral prospecting, noncommercial exploration, or scientific research activities authorized under Section 11 of the OCS Lands Act, 30 CFR Part 580, as applicable, and in compliance with all applicable mitigation measures so that those activities do not:

- A. Interfere with or endanger operations under any lease or right-of-way or permit issued or maintained under the OCS Lands Act;
- B. Cause harm or damage to aquatic life or to the marine, coastal, or human environment;
- C. Cause pollution;
- D. Create hazardous or unsafe conditions;
- E. Unreasonably interfere with or harm other uses of the area (including submarine cables); or,
- F. Disturb archaeological resources.

Any person conducting geological or geophysical activities for mineral prospecting, noncommercial exploration, or scientific research under Section 11 of the OCS Lands Act and 30 CFR Part 580, as applicable, must immediately report to us if you:

- A. Detect hydrocarbon and/or mineral occurrences;
- B. Encounter environmental hazards which constitute an imminent threat to human activity; or,
- C. Are aware of activities which adversely affect the environment, aquatic life, archaeological resources, or other uses of the area in which you are conducting prospecting or scientific research activities.

Any person conducting shallow or deep stratigraphic test drilling activities under a permit for prospecting or scientific research notice under 30 CFR Part 580 must utilize the best available and safest technologies that BOEM determines to be economically feasible.

The authorization BOEM grants you under Section 11 of the OCS Lands Act and 30 CFR Part 580, as applicable, to conduct geological and geophysical prospecting or noncommercial exploration for minerals other than oil, gas, and sulphur or for scientific research does not confer a right to any discovered oil, gas, or other minerals, or to a lease under the OCS Lands Act.

## **Time Restriction for Permits, Authorizations, and Notices**

Activities are approved for a specified period and typically do not exceed 1 year. Any extensions requested typically do not exceed 1 year.

## **Geological and Geophysical Activities Requiring Permits, Authorizations, and Notices**

### **Geological and Geophysical Prospecting or Noncommercial Exploration for Mineral Resources**

You may not conduct geological and geophysical prospecting or noncommercial exploration for minerals other than oil, gas, and sulphur in the OCS without an approved permit or authorization unless you conduct such activities under a lease issued or maintained according to the OCS Lands Act. You must obtain separate permits or authorizations for either geological or geophysical prospecting or noncommercial exploration for mineral resources. If BOEM disapproves your application, the statement of rejection will give the reasons for the denial and will advise the applicant of those changes needed for you to obtain approval.

### **Geological and Geophysical Scientific Research**

You may not conduct geological and geophysical scientific research related to minerals other than oil, gas, and sulphur in the OCS without filing of a notice. You must obtain a permit for geological and geophysical scientific research which involves the use of solid or liquid explosives or the drilling of a deep stratigraphic test. If BOEM disapproves your application, the statement of rejection will give the reasons for the denial and will advise you of the changes needed for you to obtain approval.

You must file a notice with BOEM at least 30 days before you begin scientific research not requiring a permit or authorization. We may inform you of environmental laws and regulations pertaining to activities on the OCS. BOEM recommends that you submit your notice 90-120 days prior to beginning your work to ensure timely review of your notice by BOEM.

## **Information Required for Permits or Authorizations**

You must complete the applicable sections of the Application (Attachment 1) and must include a public-information, page-size map(s) showing the location of the proposed area of activity (Section B.2 or C.1). In addition, you must submit the appropriate attachment to Section D of the Application. This includes a detailed map of the proposed activity for Section D.8 (Geological Application) or Section D.11 (Geophysical Application). Only applicants for a *Notice of Scientific Research* or *Noncommercial Authorization* must complete a Nonexclusive Use Agreement (Attachment 2).

The information you provide on the Application (excluding Section D) and on the Nonexclusive Use Agreement, including continuation sheets and the page-size map(s), is NON-PROPRIETARY INFORMATION. These non-proprietary portions of the application constitute the "public information" copy of Form BOEM-0134 and will be made available to the public with the executed permit or authorization.

The information listed in section D is PROPRIETARY INFORMATION, unless you plan to conduct noncommercial exploration. If PROPRIETARY, BOEM will not make this information available to the public without your consent for a period mandated by law or regulation. However, BOEM may determine that earlier release is necessary to properly develop the area permitted.

## **Modifications to Approved Permits or Authorizations**

BOEM must approve any modification to the permitted or authorized operations.

## **Filing Locations for Application to Conduct Prospecting or Noncommercial Exploration for Mineral Resources and for Permits or Notices to Conduct Scientific Research**

File one original, one copy of the original, one digital copy, and one public copy (all with original signatures) at the following locations at least 30 days before you begin operations. Contact BOEM for further instruction on digital signature applications. BOEM recommends that you submit your notice (or application) 90-120 days prior to beginning your work to ensure timely review of your notice by BOEM.

A. For the OCS off the State of Alaska:

Regional Supervisor for Resource Evaluation  
Bureau of Ocean Energy Management  
Alaska OCS Region  
3801 Centerpoint Dr., Suite #500 Anchorage, Alaska 99503-5823

B. For the OCS off the Atlantic Coast, Puerto Rico, and U.S. Territories in the Caribbean Sea:

Chief, Marine Minerals Division  
Bureau of Ocean Energy Management  
Office of Strategic Resources  
45600 Woodland Road  
Sterling, Virginia 20166-9216

C. For the OCS in the Gulf of Mexico:

Regional Supervisor for Resource Evaluation  
Bureau of Ocean Energy Management  
Gulf of Mexico OCS Region  
1201 Elmwood Park Boulevard  
New Orleans, Louisiana 70123-2394

D. For the OCS off the States of California, Oregon, Washington, or Hawaii and other U.S. Territories in the Pacific Ocean:

Regional Supervisor for Office of Strategic Resources  
Bureau of Ocean Energy Management  
Pacific OCS Region  
760 Paseo Camarillo, Suite #102  
Camarillo, California 93010-6092

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF OCEAN ENERGY MANAGEMENT

Pacific OCS Region

(Insert Appropriate BOEM Office)

**APPLICATION TO CONDUCT GEOLOGICAL OR GEOPHYSICAL PROSPECTING  
OR NONCOMMERCIAL EXPLORATION  
OR NOTICE OF SCIENTIFIC RESEARCH  
RELATED TO MINERALS OTHER THAN OIL, GAS, AND SULPHURON THE OUTER  
CONTINENTAL SHELF**

(Section 11, Outer Continental Shelf Lands Act of August 7, 1953, as amended on September 18, 1978, by Public Law 95-372, 92 Statute 629, 43 U.S.C. 1340; and 30 CFR Parts 580 and 280, as applicable)

Craig Wallace

Name of Applicant

1671 Belle Isle Avenue,

Number and Street

Mount Pleasant, SC 29464

City, State, and Zip Code

**Application is made for the following activity:**

- Geological prospecting or noncommercial exploration for mineral resources
- Geological scientific research
- Geophysical prospecting or noncommercial exploration for mineral resources
- Geophysical scientific research

**Submit:** One original, one copy of the original, one digital copy, and one public copy (all with original signatures). Contact BOEM for further instruction on digital signature applications.

To be completed by BOEM

Permit or Authorization Number: N/A: Internal Date: 12/17/24  
Tracking # T24-001

**A. General Information**

1. The activity will be conducted by:

Deep Sea Vision

For Department of Commerce, American Samoa

Applicant Name  
Craig Wallace

Purchaser(s)/User(s)/Sponsor of the Data  
Mike McDonald, Assistant Director

Number and Street  
1861 Belle Isla Avenue

Number and Street  
A.P. Lutali EOB, 2nd Floor

City, State, and Zip Code  
Mount Pleasant, SC 29464

City, State, and Zip Code  
Pago Pago, AS 96799

Telephone/FAX Numbers  
+447825229519

Telephone/FAX Numbers  
+1 6846335155

E-Mail Address craig@deepseavision.com

E-Mail Address michael.mcdonald@doc.as.gov

2. The purpose of the activity is:

- Prospecting
- Noncommercial Exploration
- Scientific Research

3. Describe your proposed survey activities (i.e., vessel use, geophysical sources, geological operations, etc.) and describe the potential environmental effects of the proposed activity, including potential adverse effects on marine life. Describe what steps are planned to minimize these adverse effects (mitigation measures). For example: 1) Potential Effect: Sound levels causing disturbance; Mitigation: Marine Mammal Observers, marine mammal exclusion zone or 2) Potential Effect: Bottom disturbance; Mitigation: Assisted deployment/ retrieval of vibracoring rigs. (You may provide as a separate attachment. Label as BOEM-0134 Section A General Information.)

Non invasive survey using AUV. Flying altitude (min 5 typical 30) will preclude any disturbance and all sonar amplitude frequencies are consider safe for marine life.

4. The expected commencement date is: 9th of November 2024

The expected completion date is: 17th of November 2024

5. The name of the individual(s) in charge of the field operation is: Craig Wallace

May be contacted at: Craigievar Denhead Mintlaw Aberdeenshire UK AB424HR

Telephone (Local) +447825229519 (Marine) \_\_\_\_\_

Email Address: craig@deepseavision.com Radio call sign \_\_\_\_\_

6. The vessel(s) to be used in the operation is (are):

Name (s)	Registry Number(s)	Registered owner(s)
<u>MV SeaSurveyor</u>	<u>IMO 8824543</u>	<u>SEAWORKS</u>
_____	<u>MMSI 512385000</u>	_____
_____	<u>Registered Wellington NZ</u>	_____

7. The port from which the vessel(s) will operate is: Pago Pago, American Samoa

8. Briefly describe the navigation system (vessel navigation only): \_\_\_\_\_

**B. Complete for Geological Prospecting or Noncommercial Exploration for Mineral Resources or Geological Scientific Research**

1. The type of operation is:

- (a)  Deep stratigraphic test, or
- (b)  Shallow stratigraphic test with proposed total depth of \_\_\_\_\_, or
- (c)  Vibracoring \_\_\_\_\_
- (d)  Other Non contact AUV survey. Sonar mapping and Camera

2. Attach a page-size map showing: 1) the proposed location for each sample or test. Where appropriate, a polygon enclosing the sampling or test sites may be used, 2) OCS protraction areas and lease blocks; coastline; point of reference; Submerged Lands Act boundary, 3) distance and direction from a point of reference to area of activity, and 4) label as "Public Information."

**C. Complete for Geophysical Prospecting or Noncommercial Exploration for Mineral Resources or Geophysical Scientific Research**

1. For the proposed operation:

- (a) Acquisition method (Towed instrument, OBN, OBC, Streamer): Autonomous Underwater Vehicle
- (b) Type of acquisition (Geophysical source type: chirp or sub-bottom profiler, side scan sonar, fathometer, other high resolution seismic, gravity, magnetic, other controlled-source electromagnetic, etc.)  
Synthetic Aperture Sonar, Multibeam Echosounder, Sub Bottom Profile, Camera and Laser

2. Attach a page-size map showing: 1) the proposed location for the activity with a representative polygon, 2) OCS protraction areas and lease blocks; coastline; point of reference; Submerged Lands Act boundary, 3) distance and direction from a point of reference to area of activity, and 4) label as "Public Information."

3. List all energy source types to be used in the operation(s): (chirp or sub-bottom profiler, side scan sonar, fathometer, air gun or air gun array(s), towed dipole, etc.): Synthetic Aperture Sonar, Multibeam Echosounder, Sub Bottom Profile, Camera and Laser

4. Explosive charges will  will not  be used. If applicable, indicate the type of explosive and maximum charge size (in pounds) to be used:

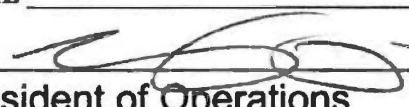
Type \_\_\_\_\_ Pounds \_\_\_\_\_ Equivalent Pounds of TNT \_\_\_\_\_

#### D. Proprietary and Additional Information Attachments

Use the appropriate form on page 9 for a "geological" permit or authorization application, or the form on page 10 for a "geophysical" permit or authorization application. You must submit a separate form BOEM-0134 to apply for each geological or geophysical prospecting permit or exploration authorization, unless the activities are related or will be conducted concurrently.

#### E. Certification

I hereby certify that foregoing and attached information are true and correct.

PRINT NAME Craig Wallace  
SIGNED  DATE 6th November 2-24  
TITLE President of Operations  
APPLICANT Deep Sea Vision

#### TO BE COMPLETED BY BOEM

Permit / Authorization No. NA: Internal Tracking # T24\_001 Assigned by Obediah Racicot Date 12/17/24  
of BOEM

This application is hereby:

- (a)  Accepted  
(b)  Returned for reasons in the attached

NECITAS  
SIGNED SUMAIT Digitally signed by NECITAS  
SUMAIT  
Date: 2024.12.18 13:54:59  
-08'00' TITLE Regional Supervisor DATE 12/18/24



**Section D Proprietary and Additional Information Attachment  
Required for an Application for Geological Prospecting Permit or  
Noncommercial Exploration Authorization**

1. Description of proposed coring, drilling, or sampling method. Include penetration, heat flow measurements, and depth of penetration:

Not applicable, non contact survey using sonar and camera.

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2. Description of coring, drilling, or sampling equipment to be used: NA

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3. List proposed coring, drilling, or sample location(s) with latitude and longitude coordinates and total number of samples to be acquired. These locations may be sent digitally on a DVD (attach separate page if necessary):

NA

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4. Navigation system or method to be used to position sample locations: NA

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5. Method of sample, storage, and handling: NA, Sonar and Light only no physical samples

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6. List each test to be conducted on the samples with a brief description of its objective:

NA

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7. Estimated date on which samples, logs, and analyzed and/or processed data will be ready for inspection:

NA

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8. Attach map(s), plat(s), and chart(s) (preferably at a scale of 1:250,000) and/or an electronic version of same showing latitude and longitude, scale, OCS protraction areas, OCS blocks, Submerged Lands Act boundary, and specific sample location(s) in latitude(s) and longitude(s) for each of the proposed sample site(s). The map, plat, or chart should be submitted at a sufficient size and scale to make out all details of the activities shown. Label the hardcopy map "Proprietary," if the data are for commercial purposes and are considered proprietary. Along with the hardcopy map, submit the ArcGIS shapefiles (and metadata) on DVD needed to reproduce the map of the proposed sample site(s), including individual site names in the attribute table.

**Section D Proprietary and Additional Information Attachment  
Required for an Application for Geophysical Prospecting Permit or  
Noncommercial Exploration Authorization**

*Label separate attachments as BOEM-0134 Section D Proprietary and Additional Information Attachment.*

1. Detailed narrative, modeling of sound propagation, and visual description of the geophysical energy source(s) and receiver(s)/streamer(s) (receiving array):

Sound sources on the AUV are not high energy geophysical sources.

2. Attach a map view diagram that illustrates vessel(s) source and receiver(s) configuration. Label each vessel indicating its function and include the dimensions of tow fish, hull or davit-mounted instruments, streamer(s), etc. Indicate the number of chase and alternate vessels to be used, if applicable.

3. List each energy source to be used (e.g., chirp profiler, sub bottom profiler, side scan sonar, fathometer, air gun or air gun array(s), towed dipole, etc.). Indicate the source's manufacturer, model, Source Level (SL) in dB re 1µPa @1m in water (RMS) and if applicable, Source Level (SL) in dB re 1µPa @1m in water (Peak to Peak). If the manufacturer does not provide a peak-to-peak level (many side scan sonars, etc.), please enter N/A. Additionally, provide the operational frequency ranges and any operational power settings.

Energy Source	Manufacturer	Model	Array or Airgun Size (cu. in.)	Source Level (SL) in dB re 1µPa @1m in water (RMS)	Source Level (SL) in dB re 1µPa @1m in water (Peak to Peak)	Frequency (Hz-kHz range)	Power Modulation	Pulse Length
Synthetic	Kongsberg	1032	NA	NA	~200	85-115 KHz	FM	8ms
SBP	Edgetech	2205	NA	NA	~194	2-6kHz	FM	20ms

For any geophysical source operating below 180kHz, provide the transmission loss distance from the sound source to the following SPL in RMS dB levels:

dB level	Distance from Source
190 dB	4 metres
180 dB	10 metres
160 dB	36 metres

4. Shot (energy pulse) frequency per linear mile (statute): \_\_\_\_\_
5. Towing depth (ft/m) of the energy source: NA, typical 30m altitude in 5000m depth
6. Towing depth (ft/m) of the receiver(s): Typical 5000m

7. For controlled-source electromagnetic (CSEM), ocean bottom node (OBN), magnetotelluric, and ocean bottom cable (OBC) surveys, describe the node deployment and retrieval procedures. Indicate the location (latitude and longitude coordinates), number, and spacing of any ocean bottom receivers, cables, and anchors. If anchors will not be retrieved, provide the physical composition and rate of decomposition. Location data may be submitted digitally on a DVD (attach separate page if necessary).

8. Navigation/positioning system, and if relevant, method used to position shotpoint locations and or ocean bottom receivers:

**Subsea Inertial Navigation System with USBL Aiding**

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9. Proposed areal extent (blocks) for survey, and total number of line miles proposed for survey:

**As per map Area 1 and 2, Estimated 200 line miles per survey**

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10. Estimated date (month and year) on which final data will be available for all proposed data sets:

**January 2025**

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11. Attach map(s), plat(s), and chart(s) (preferably at a scale of 1:250,000) and/or an electronic version of same showing latitude and longitude, scale, OCS protraction areas, OCS blocks, and Submerged Lands Act boundary. The map, plat, or chart should be submitted at a sufficient size and scale to make out all details of the activities shown. The map should be labeled "Proprietary" if the data are for commercial purposes and are considered proprietary. For 2D data acquisition, provide specific track lines with line identifications with the total number of line miles proposed, or a representative polygon and total number of blocks for 3D surveys. Along with the hardcopy map, submit the ArcGIS shapefiles (and metadata) on DVD needed to reproduce the map for 2D track lines and include individual line names in the attribute table. For 3D surveys, submit the ArcGIS shapefile (and metadata) for the representative polygon.

UNITED STATES  
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**NONEXCLUSIVE USE AGREEMENT FOR SCIENTIFIC RESEARCH  
OR NONCOMMERCIAL EXPLORATION  
ON THE OUTER CONTINENTAL SHELF**

A. State the time and manner in which data and information resulting from the proposed activity will be made available to the public for inspection and reproduction, such time being the earliest practicable time.

Data will be made available in raw format through use of drives delivered to

the care of Micheal Mcdonald, Division of Commerce, American Samoa.

michael.mcdonald@doc.as.gov

B. Deep Sea Vision (applicant) agrees that the data and information resulting from the proposed activity will not be sold or withheld for exclusive use.



(Signature of Applicant)

Craig Wallace

(Print Name of Applicant)

President of Operations

(Title)

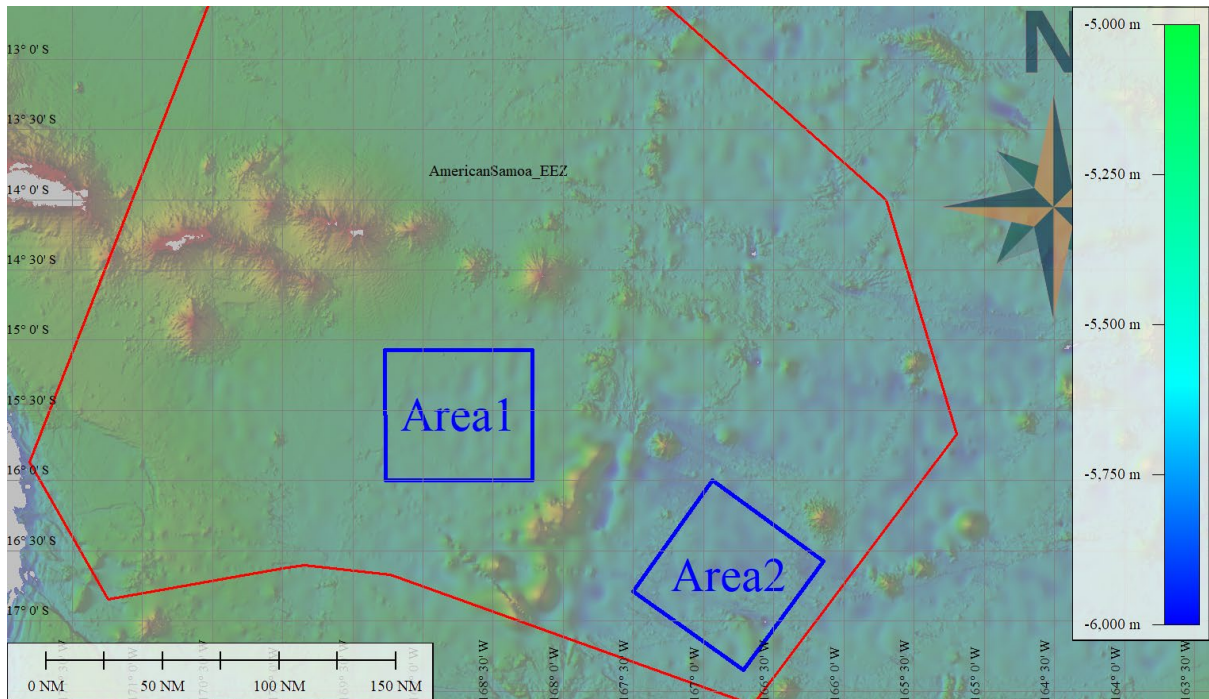
6th November 2-24

(Date)

**Submit:** One original, one copy of the original, one digital copy, and one public copy (all with original signatures). Contact BOEM for further instruction on digital signature applications.

## Outlined Areas for Exploration work with Deep Sea Vision AUV

The map below shows the location of two proposed sites for exploration with the HUGIN 6000 AUV system, Area 1 and 2.



### Area 1 Main Coordinates

-169.3W, -15.07S

-169.3W, -16.0S

-168.2W, -16.0S

-168.2W, -15.07S

### Area 2 Main Coordinates

-166.9W,-16.07S

-166.14W,-16.56S

-166.71W,-17.34S

-167.41W,-16.79S