



Council

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Report and recommendations of the Legal and Technical Commission to the Council of the International Seabed Authority relating to an application for the approval of a plan of work for exploration for cobalt-rich ferromanganese crusts by the Ministry of Natural Resources and Environment of the Russian Federation

I. Introduction

1. On 6 February 2013, the Secretary-General of the International Seabed Authority received an application from the Government of the Russian Federation for approval of a plan of work for exploration for cobalt-rich ferromanganese crusts in the Area. Amendments to the application were received on 29 April 2013. The application was submitted pursuant to the Regulations on Prospecting and Exploration for Cobalt-rich Ferromanganese Crusts in the Area ([ISBA/18/A/11](#), annex) (“the Regulations”). The application covers a total surface area of 6,000 square kilometres, located in the Western Pacific Ocean.

2. In accordance with regulation 22 (c) of the Regulations, by a note verbale dated 7 March 2013, the Secretary-General notified the members of the International Seabed Authority of the receipt of the application and circulated general information concerning the application. The Secretary-General also placed consideration of the application on the agenda of the meeting of the Legal and Technical Commission held from 8 to 15 July 2013.



II. Methodology for consideration of the application by the Legal and Technical Commission

A. General methodology applied by the Commission in consideration of the application

3. In its consideration of the application, the Commission noted that, in keeping with the scheme established in article 6 of annex III to the United Nations Convention on the Law of the Sea, it was first required to make an objective determination as to whether the applicant had fulfilled the requirements contained in the Regulations, particularly with respect to the form of applications; whether the applicant had provided the necessary undertakings and assurances specified in regulation 15; and whether it had the necessary financial and technical capability to carry out the proposed plan of work for exploration. The Commission was then required to determine, in accordance with regulation 23, paragraph 4, whether the proposed plan of work would provide for effective protection of human health and safety and effective protection and preservation of the marine environment and would ensure that installations were not established where interference may be caused to the use of recognized sea lanes essential to international navigation or in areas of intense fishing activity. Regulation 23, paragraph 5, provides that, if the Commission makes the determinations specified in paragraph 3 of regulation 23 and determines that the proposed plan of work for exploration meets the requirements of paragraph 4, the Commission shall recommend approval of the plan of work for exploration to the Council.

4. In considering the proposed plan of work for exploration for cobalt-rich ferromanganese crusts, the Commission took into account the principles, policies and objectives relating to activities in the Area as provided for in Part XI and annex III of the Convention and in the Agreement relating to the implementation of Part XI of the United Nations Convention on the Law of the Sea.

B. Consideration of the application

5. The Commission considered the application in closed meetings on 8, 10, 12 and 15 July 2013, and on 4 February 2014.

6. Prior to commencing a detailed examination of the application, the Commission invited the applicant's designated representative, Orel Alexey Vladimirovitch, Director of the Department of the State Policy and Regulations for Subsurface Management of the Ministry of Natural Resources and Environment of the Russian Federation, accompanied by Andrey Gagelgants, Arsen Daduani, Sergey Dyatchenko, Mikhail Melnikov and Irina Ponomareva, to make a presentation of the application. Members of the Commission then asked questions to clarify certain aspects of the application before convening in closed session to examine the application in detail. Following its initial consideration, the Commission decided to request its Chair to transmit a list of questions to the applicant in writing. The written responses provided by the applicant, which supplemented the equivalent parts of the originally submitted application original, were taken into account by the Commission in its subsequent consideration.

7. On 12 July 2013, the Commission set up a technical working group to assess the potential commercial value of the data in order to draft recommendations on the area to be allocated to the contractor and on the area to become a reserved area. After deliberations, the Commission decided to defer consideration of the application, in particular on the issue of selection of the area to be reserved for the Authority and the area to be allocated to the contractor.

III. Summary of basic information regarding the application

A. Identification of the applicant

8. The name and address of the applicant are as follows:

(a) Name: Ministry of Natural Resources and Environment of the Russian Federation;

(b) Street address: 4/6, Bolshaya Gruzinskaya St., Moscow, 123995 Russian Federation;

(c) Postal address: as above;

(d) Telephone number: +7 (499) 2544800, +7 (499) 2548155, +7 (499) 2547500;

(e) Facsimile number: +7 (499) 2544310, +7 (499) 2546610, +7 (499) 2543361;

(f) E-mail address: admin@mnr.gov.ru; gagel@mnr.gov.ru; arcsor@mnr.gov.ru.

9. The applicant's designated representative is:

(a) Name: Denis G. Khramov, Deputy Minister of Natural Resources and Environment of the Russian Federation;

(b) Street and postal addresses: as above;

(c) Telephone number: +7 (499) 2545647;

(d) Facsimile number: +7 (499) 2544310, +7 (499) 2541675;

(e) E-mail address: dkhramov@mnr.gov.ru.

10. The applicant is a State party to the Convention.

11. The date of deposit by the Russian Federation of the instrument of ratification of the United Nations Convention on the Law of the Sea is 12 March 1997; the date of accession to the Agreement relating to the Implementation of Part XI of the United Nations Convention on the Law of the Sea of 10 December 1982 is 12 March 1997.

B. Area of application

12. The area under application is located within the Magellan Mountains in the Pacific Ocean. It consists of two groups of 150 blocks each, which the applicant named area 1 and area 2. The blocks have a size of 20 km² each and are located over eight seamounts. The blocks are grouped into clusters, each containing 5 contiguous

blocks. Each of the two groups of 150 blocks has a size of 3,000 km² and the total size of the application area is 6,000 km². Each of the two groups is located entirely within a geographical area measuring not more than 550 x 550 kilometres. The coordinates and general location of the area under application are shown in the annex to the present document. This is in compliance with regulation 12.

C. Other information

13. The applicant has previously been awarded a contract with the Authority:

(a) The Ministry of Natural Resources and Environment of the Russian Federation and the Authority signed a contract for exploration for polymetallic sulphides on 29 October 2012;

(b) The date of expiry of the contract is 28 October 2027.

14. The application included a written undertaking dated 7 December 2012 and signed by the designated representative of the applicant in accordance with regulation 15.

15. The applicant has elected to contribute a reserved area in accordance with regulation 17.

16. The applicant has paid a fee of \$500,000 in accordance with regulation 21.

IV. Examination of information and technical data submitted by the applicant

17. The following technical documents and information were provided:

(a) Information relating to the area under application:

(i) Charts of the location and boundaries of the blocks, indicating the two parts of the area under application;

(ii) A list of the geographical coordinates of the blocks under application;

(iii) Information to enable the Council to designate a reserved area based on the estimated commercial value of the two parts of the area under application, including data available to the applicant with respect to both parts of the area under application, including:

a. Charts indicating the thickness of the crusts in the sampling locations and the locations where the parameters of cobalt crusts were measured for each of the seamounts;

b. Results of the assessment of the predicted resources for each of the two areas;

c. Summary map of tonnage and grades of cobalt-rich ferromanganese crusts for all guyots in the application area;

d. Catalogue of coordinates and depths of the dredging and drilling locations and data about the thickness of the crusts and content of their main commercial components;

- e. Catalogue of coordinates of photo and video transects;
- f. Description of the techniques used by the applicant;
- g. Information concerning environmental parameters;
- (b) Certificate of sponsorship;
- (c) Information to enable the Council to determine whether the applicant is financially capable of carrying out the proposed plan of work for exploration;
- (d) Information to enable the Council to determine whether the applicant is technically capable of carrying out the proposed plan of work for exploration;
- (e) Plan of work for exploration;
- (f) Training programme;
- (g) Written undertakings by the applicant;
- (h) A document of 30 November 2012 certifying the undersigned to be authorized to act on behalf of the applicant.

V. Consideration of financial and technical qualifications of the applicant

A. Financial capacity

18. The applicant declared its financial capacity to carry out the proposed plan of work for exploration and fulfilled its financial obligations to the Authority. In evaluating the financial capacity of the applicant, the Commission noted that the applicant provided a financial statement, dated 7 December 2012 and signed by the designated representative, certifying the financial capability of the applicant to implement the proposed plan of work.

B. Technical capacity

19. In evaluating the technical capacity of the applicant, the Commission noted that the applicant can draw upon extensive experience in marine scientific investigations for cobalt-rich ferromanganese crusts in the Area for over 30 years. During this time, the applicant had been organizing regular investigations to study ore potential of the Western Pacific guyots, some of which were included in the area under application. Those had resulted in the collection of information about the geological structure and prospects of the guyots in the Magellan area and in the development and implementation of special techniques and equipments for surveys and samplings.

20. The applicant explained that the exploration activities would take place in three five-year phases of the plan of work. The objective of the first phase was to define priority areas in order to conduct further detailed exploration with a view to demarcating potential cobalt-rich ferromanganese crusts deposits. The second phase would aim at allocating the deposits and crusts reserves which were viable for mining; upon its completion, the applicant planned to conduct a feasibility study to determine the commencement of mining. For the last phase, the objective was to

select sites for potential exploitation, taking into account a number of parameters, such as the seabed gradient, ruggedness, physical obstacles, and physical and mechanical properties of the substrate. The applicant also planned to conduct a feasibility study at the end of the last phase.

21. The applicant also provided information related to the proposed environmental and oceanographic baseline studies in three stages (before, during, and after the test pilot mining) and a preliminary environmental impact assessment of the exploration activities. The applicant stated that the proposed exploration activities would not result in any environmental harm beyond routine influences caused by marine scientific research. The pilot mining anticipated for the later stages of the exploration work was expected to result in a relatively significant environmental impact. However, its intensity was currently unpredictable and would depend on the performance of future mining systems and on the scope of the pilot mining. During the pilot mining, the applicant indicated that it would establish preservation reference zones, pursuant to the Regulations. After the pilot mining, studies would be carried out to evaluate the type and level of the impact on the marine environment, including the identification of the area of substantial impact.

22. The applicant provided information related to its financial and technical ability to respond to any incidents arising out of the implementation of the plan of work which causes damage to the marine environment. The applicant mentioned a specially created reserve fund to cover expenses for the elimination of any harmful effects of such incidences. The applicant also indicated the availability of specialized equipment for the prevention and, if necessary elimination, of harm to the marine environment. Furthermore, the applicant committed to carrying out periodic drills to test measures in order to secure safe operation of vessels and the protection of the marine environment. In addition, the applicant indicated that the use of exploration hardware affecting the seabed benthic communities would be minimized and compliance with environmental safety of the support vessel continuously monitored.

VI. Consideration of data and information submitted for the designation of a reserved area and determination of equal estimated commercial value

23. The applicant indicated the coordinates dividing the area under application into two parts of equal estimated commercial value. The Council, on the recommendation of the Commission, shall designate one of these parts as the area reserved for the Authority. The other part will become the applicant's exploration area. The calculation of the estimated commercial value was done by the applicant in several steps.

A. Methodology used by the applicant for the calculation of the estimated commercial value

24. The applicant provided information on the mineral content of the samples, including cobalt, nickel, and manganese, as well as copper, tellurium, titanium, platinum other metallic and rare earth elements.

B. Summary and conclusions relating to the determination of equal estimated commercial value

25. The data in the two areas (area 1 and area 2) has been analysed and the following observations are made with regard to the tonnage, element composition and grade of the metal ore, and the seafloor morphology:

(a) The available bathymetric data indicates that most of the upper slopes of the seamounts in areas 1 and 2 are similar. However the average water depth of the collected samples in area 1 (2,062.5 metres) is shallower than in area 2 (2,314.16 metres);

(b) Area 1 is a rectangle of 507 x 350 km, comprising exploration 150 blocks of a total of 3,000 km² distributed on four seamounts, and area 2 is a rectangle of 440 x 206 km, comprising exploration 150 blocks of a total of 3,000 km² distributed on four seamounts;

(c) Analyses of the content of manganese, nickel, cobalt, copper and titanium have been performed on all available samples, while a number of the samples (from both areas) have also been analysed for molybdenum, tellurium, titanium, platinum and rare earth elements, providing representative averages for the two areas;

(d) The applicant has presented estimates of the distribution of the thickness of the crust in the two areas based on the measurements from 11 drill cores in area 1 and 12 drill cores in area 2. Based on these thickness estimates and the area as measured for the proposed exploration area, the applicant has calculated the total tonnage of ore (crust) within the two areas. The calculations, based on average grade metal and coefficient utility (percentages) indicate that areas 1 and 2 are similar.

26. In summary, the data and calculations show that the commercial value of the two areas is practically equal. However, the average water depth of the collected samples in area 1 is shallower than in area 2. On that basis the Commission decided to recommend to the Council that area 1 be designated as the area reserved for the Authority.

VII. Consideration of data and information submitted for approval of the plan of work for exploration

27. In accordance with regulation 20 of the Regulations, the application includes the following information for approval of the plan of work for exploration:

(a) A general description and a schedule of the proposed exploration programme, including the programme of activities for the immediate five-year period;

(b) A description of the programme for oceanographic and environmental baseline studies in accordance with the Regulations and any environmental rules, regulations and procedures established by the Authority that would enable an assessment of the potential environmental impact of the proposed exploration activities, including, but not restricted to, the impact on biodiversity, taking into account any recommendations issued by the Legal and Technical Commission;

(c) A preliminary assessment of the possible impact of the proposed exploration activities on the marine environment;

(d) A description of proposed measures for the prevention, reduction and control of pollution and other hazards, as well as possible impacts, to the marine environment;

(e) Data necessary for the Council to make the determination it is required to make in accordance with regulation 13, paragraph 1, of the Regulations;

(f) A schedule of anticipated yearly expenditures in respect of the programme of activities for the immediate five-year period.

VIII. Training programme

28. The applicant stated that, in accordance with regulation 29 and section 8 of annex IV to the Regulations, it would draw up a training programme in collaboration with the Authority, which will be an integral part of the contract. The applicant also provided some information on the kind of opportunities for training, the number of trainees, the dates, schedules and the disciplines for the training programme. The Commission highlighted that in developing the training programme, the applicant and the Secretary-General should ensure that the training programme be in line with the Recommendations for the guidance of contractors and sponsoring States relating to training programmes under plans of work for exploration, as developed by the Commission during the nineteenth session ([ISBA/19/LTC/14](#)).

IX. Conclusion and recommendations

29. Having examined the particulars submitted by the applicant, which are summarized in sections III to VIII above, the Commission is satisfied that the application has been duly submitted in accordance with the Regulations and that the applicant:

(a) Has complied with the provisions of the Regulations;

(b) Has given the undertakings and assurances specified in regulation 15;

(c) Possesses the financial and technical capability to carry out the proposed plan of work for exploration.

30. The Commission states that none of the conditions in regulation 23, paragraph 6, of the Regulations apply.

31. The Commission is satisfied that the proposed plan of work for exploration will:

(a) Provide for effective protection of human health and safety;

(b) Provide for effective protection and preservation of the marine environment;

(c) Ensure that installations are not established where interference may be caused to the use of recognized sea lanes essential to international navigation or in areas of intense fishing activity.

32. Accordingly, pursuant to regulation 23, paragraph 5, of the Regulations, the Commission recommends to the Council approval of the plan of work for exploration submitted by the Ministry of Natural Resources and Environment of the Russian Federation.

33. The Commission also recommends to the Council that it designate area 1 within the application for approval of the plan of work for exploration as the area reserved for the Authority and that it allocate area 2 to the applicant as its exploration area.

Annex I

List of coordinates

List of geographical coordinates of corners of blocks under application

Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
Area 1								
Fedorov Guyot								
ER98	155° 37' 30,0" E	14° 26' 20,0" N	155° 37' 30,0" E	14° 28' 40,0" N	155° 40' 00,0" E	14° 28' 40,0" N	155° 40' 00,0" E	14° 26' 20,0" N
ES99	155° 40' 00,0" E	14° 24' 00,0" N	155° 40' 00,0" E	14° 26' 20,0" N	155° 42' 30,0" E	14° 26' 20,0" N	155° 42' 30,0" E	14° 24' 00,0" N
ET99	155° 42' 30,0" E	14° 24' 00,0" N	155° 42' 30,0" E	14° 26' 20,0" N	155° 45' 00,0" E	14° 26' 20,0" N	155° 45' 00,0" E	14° 24' 00,0" N
EU99	155° 45' 00,0" E	14° 24' 00,0" N	155° 45' 00,0" E	14° 26' 20,0" N	155° 47' 30,0" E	14° 26' 20,0" N	155° 47' 30,0" E	14° 24' 00,0" N
EV99	155° 47' 30,0" E	14° 24' 00,0" N	155° 47' 30,0" E	14° 26' 20,0" N	155° 50' 00,0" E	14° 26' 20,0" N	155° 50' 00,0" E	14° 24' 00,0" N
EW99	155° 50' 00,0" E	14° 24' 00,0" N	155° 50' 00,0" E	14° 26' 20,0" N	155° 52' 30,0" E	14° 26' 20,0" N	155° 52' 30,0" E	14° 24' 00,0" N
EX99	155° 52' 30,0" E	14° 24' 00,0" N	155° 52' 30,0" E	14° 26' 20,0" N	155° 55' 00,0" E	14° 26' 20,0" N	155° 55' 00,0" E	14° 24' 00,0" N
EY100	155° 55' 00,0" E	14° 21' 40,0" N	155° 55' 00,0" E	14° 24' 00,0" N	155° 57' 30,0" E	14° 24' 00,0" N	155° 57' 30,0" E	14° 21' 40,0" N
EZ101	155° 57' 30,0" E	14° 19' 20,0" N	155° 57' 30,0" E	14° 21' 40,0" N	156° 00' 00,0" E	14° 21' 40,0" N	156° 00' 00,0" E	14° 19' 20,0" N
FA101	156° 00' 00,0" E	14° 19' 20,0" N	156° 00' 00,0" E	14° 21' 40,0" N	156° 02' 30,0" E	14° 21' 40,0" N	156° 02' 30,0" E	14° 19' 20,0" N
EV100	155° 47' 30,0" E	14° 21' 40,0" N	155° 47' 30,0" E	14° 24' 00,0" N	155° 50' 00,0" E	14° 24' 00,0" N	155° 50' 00,0" E	14° 21' 40,0" N
EV101	155° 47' 30,0" E	14° 19' 20,0" N	155° 47' 30,0" E	14° 21' 40,0" N	155° 50' 00,0" E	14° 21' 40,0" N	155° 50' 00,0" E	14° 19' 20,0" N
EV102	155° 47' 30,0" E	14° 17' 00,0" N	155° 47' 30,0" E	14° 19' 20,0" N	155° 50' 00,0" E	14° 19' 20,0" N	155° 50' 00,0" E	14° 17' 00,0" N
EW103	155° 50' 00,0" E	14° 14' 40,0" N	155° 50' 00,0" E	14° 17' 00,0" N	155° 52' 30,0" E	14° 17' 00,0" N	155° 52' 30,0" E	14° 14' 40,0" N
EW104	155° 50' 00,0" E	14° 12' 20,0" N	155° 50' 00,0" E	14° 14' 40,0" N	155° 52' 30,0" E	14° 14' 40,0" N	155° 52' 30,0" E	14° 12' 20,0" N
EZ102	155° 57' 30,0" E	14° 17' 00,0" N	155° 57' 30,0" E	14° 19' 20,0" N	156° 00' 00,0" E	14° 19' 20,0" N	156° 00' 00,0" E	14° 17' 00,0" N
FA102	156° 00' 00,0" E	14° 17' 00,0" N	156° 00' 00,0" E	14° 19' 20,0" N	156° 02' 30,0" E	14° 19' 20,0" N	156° 02' 30,0" E	14° 17' 00,0" N
EX103	155° 52' 30,0" E	14° 14' 40,0" N	155° 52' 30,0" E	14° 17' 00,0" N	155° 55' 00,0" E	14° 17' 00,0" N	155° 55' 00,0" E	14° 14' 40,0" N

EY103	155° 55' 00,0" E	14° 14' 40,0" N	155° 55' 00,0" E	14° 17' 00,0" N	155° 57' 30,0" E	14° 17' 00,0" N	155° 57' 30,0" E	14° 14' 40,0" N
EZ103	155° 57' 30,0" E	14° 14' 40,0" N	155° 57' 30,0" E	14° 17' 00,0" N	156° 00' 00,0" E	14° 17' 00,0" N	156° 00' 00,0" E	14° 14' 40,0" N
Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
FB102	156° 02' 30,0" E	14° 17' 00,0" N	156° 02' 30,0" E	14° 19' 20,0" N	156° 05' 00,0" E	14° 19' 20,0" N	156° 05' 00,0" E	14° 17' 00,0" N
FC102	156° 05' 00,0" E	14° 17' 00,0" N	156° 05' 00,0" E	14° 19' 20,0" N	156° 07' 30,0" E	14° 19' 20,0" N	156° 07' 30,0" E	14° 17' 00,0" N
FC103	156° 05' 00,0" E	14° 14' 40,0" N	156° 05' 00,0" E	14° 17' 00,0" N	156° 07' 30,0" E	14° 17' 00,0" N	156° 07' 30,0" E	14° 14' 40,0" N
FD103	156° 07' 30,0" E	14° 14' 40,0" N	156° 07' 30,0" E	14° 17' 00,0" N	156° 10' 00,0" E	14° 17' 00,0" N	156° 10' 00,0" E	14° 14' 40,0" N
FE104	156° 10' 00,0" E	14° 12' 20,0" N	156° 10' 00,0" E	14° 14' 40,0" N	156° 12' 30,0" E	14° 14' 40,0" N	156° 12' 30,0" E	14° 12' 20,0" N
EY104	155° 55' 00,0" E	14° 12' 20,0" N	155° 55' 00,0" E	14° 14' 40,0" N	155° 57' 30,0" E	14° 14' 40,0" N	155° 57' 30,0" E	14° 12' 20,0" N
EZ104	155° 57' 30,0" E	14° 12' 20,0" N	155° 57' 30,0" E	14° 14' 40,0" N	156° 00' 00,0" E	14° 14' 40,0" N	156° 00' 00,0" E	14° 12' 20,0" N
EZ105	155° 57' 30,0" E	14° 10' 00,0" N	155° 57' 30,0" E	14° 12' 20,0" N	156° 00' 00,0" E	14° 12' 20,0" N	156° 00' 00,0" E	14° 10' 00,0" N
FA105	156° 00' 00,0" E	14° 10' 00,0" N	156° 00' 00,0" E	14° 12' 20,0" N	156° 02' 30,0" E	14° 12' 20,0" N	156° 02' 30,0" E	14° 10' 00,0" N
EZ106	155° 57' 30,0" E	14° 07' 40,0" N	155° 57' 30,0" E	14° 10' 00,0" N	156° 00' 00,0" E	14° 10' 00,0" N	156° 00' 00,0" E	14° 07' 40,0" N
EZ107	155° 57' 30,0" E	14° 05' 20,0" N	155° 57' 30,0" E	14° 07' 40,0" N	156° 00' 00,0" E	14° 07' 40,0" N	156° 00' 00,0" E	14° 05' 20,0" N
EZ108	155° 57' 30,0" E	14° 03' 00,0" N	155° 57' 30,0" E	14° 05' 20,0" N	156° 00' 00,0" E	14° 05' 20,0" N	156° 00' 00,0" E	14° 03' 00,0" N
FA107	156° 00' 00,0" E	14° 05' 20,0" N	156° 00' 00,0" E	14° 07' 40,0" N	156° 02' 30,0" E	14° 07' 40,0" N	156° 02' 30,0" E	14° 05' 20,0" N
FA108	156° 00' 00,0" E	14° 03' 00,0" N	156° 00' 00,0" E	14° 05' 20,0" N	156° 02' 30,0" E	14° 05' 20,0" N	156° 02' 30,0" E	14° 03' 00,0" N
FB109	156° 02' 30,0" E	14° 00' 40,0" N	156° 02' 30,0" E	14° 03' 00,0" N	156° 05' 00,0" E	14° 03' 00,0" N	156° 05' 00,0" E	14° 00' 40,0" N
EY108	155° 55' 00,0" E	14° 03' 00,0" N	155° 55' 00,0" E	14° 05' 20,0" N	155° 57' 30,0" E	14° 05' 20,0" N	155° 57' 30,0" E	14° 03' 00,0" N
EY109	155° 55' 00,0" E	14° 00' 40,0" N	155° 55' 00,0" E	14° 03' 00,0" N	155° 57' 30,0" E	14° 03' 00,0" N	155° 57' 30,0" E	14° 00' 40,0" N
EZ109	155° 57' 30,0" E	14° 00' 40,0" N	155° 57' 30,0" E	14° 03' 00,0" N	156° 00' 00,0" E	14° 03' 00,0" N	156° 00' 00,0" E	14° 00' 40,0" N
EZ110	155° 57' 30,0" E	13° 58' 20,0" N	155° 57' 30,0" E	14° 00' 40,0" N	156° 00' 00,0" E	14° 00' 40,0" N	156° 00' 00,0" E	13° 58' 20,0" N
FA110	156° 00' 00,0" E	13° 58' 20,0" N	156° 00' 00,0" E	14° 00' 40,0" N	156° 02' 30,0" E	14° 00' 40,0" N	156° 02' 30,0" E	13° 58' 20,0" N
FB110	156° 02' 30,0" E	13° 58' 20,0" N	156° 02' 30,0" E	14° 00' 40,0" N	156° 05' 00,0" E	14° 00' 40,0" N	156° 05' 00,0" E	13° 58' 20,0" N
FC110	156° 05' 00,0" E	13° 58' 20,0" N	156° 05' 00,0" E	14° 00' 40,0" N	156° 07' 30,0" E	14° 00' 40,0" N	156° 07' 30,0" E	13° 58' 20,0" N
FD111	156° 07' 30,0" E	13° 56' 00,0" N	156° 07' 30,0" E	13° 58' 20,0" N	156° 10' 00,0" E	13° 58' 20,0" N	156° 10' 00,0" E	13° 56' 00,0" N

FE111	156° 10' 00,0" E	13° 56' 00,0" N	156° 10' 00,0" E	13° 58' 20,0" N	156° 12' 30,0" E	13° 58' 20,0" N	156° 12' 30,0" E	13° 56' 00,0" N
FE112	156° 10' 00,0" E	13° 53' 40,0" N	156° 10' 00,0" E	13° 56' 00,0" N	156° 12' 30,0" E	13° 56' 00,0" N	156° 12' 30,0" E	13° 53' 40,0" N
Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
FT99	156° 47' 30,0" E	14° 24' 00,0" N	156° 47' 30,0" E	14° 26' 20,0" N	156° 50' 00,0" E	14° 26' 20,0" N	156° 50' 00,0" E	14° 24' 00,0" N
FR100	156° 42' 30,0" E	14° 21' 40,0" N	156° 42' 30,0" E	14° 24' 00,0" N	156° 45' 00,0" E	14° 24' 00,0" N	156° 45' 00,0" E	14° 21' 40,0" N
FS100	156° 45' 00,0" E	14° 21' 40,0" N	156° 45' 00,0" E	14° 24' 00,0" N	156° 47' 30,0" E	14° 24' 00,0" N	156° 47' 30,0" E	14° 21' 40,0" N
FT100	156° 47' 30,0" E	14° 21' 40,0" N	156° 47' 30,0" E	14° 24' 00,0" N	156° 50' 00,0" E	14° 24' 00,0" N	156° 50' 00,0" E	14° 21' 40,0" N
FR101	156° 42' 30,0" E	14° 19' 20,0" N	156° 42' 30,0" E	14° 21' 40,0" N	156° 45' 00,0" E	14° 21' 40,0" N	156° 45' 00,0" E	14° 19' 20,0" N
FP101	156° 37' 30,0" E	14° 19' 20,0" N	156° 37' 30,0" E	14° 21' 40,0" N	156° 40' 00,0" E	14° 21' 40,0" N	156° 40' 00,0" E	14° 19' 20,0" N
FQ101	156° 40' 00,0" E	14° 19' 20,0" N	156° 40' 00,0" E	14° 21' 40,0" N	156° 42' 30,0" E	14° 21' 40,0" N	156° 42' 30,0" E	14° 19' 20,0" N
FN102	156° 32' 30,0" E	14° 17' 00,0" N	156° 32' 30,0" E	14° 19' 20,0" N	156° 35' 00,0" E	14° 19' 20,0" N	156° 35' 00,0" E	14° 17' 00,0" N
FO102	156° 35' 00,0" E	14° 17' 00,0" N	156° 35' 00,0" E	14° 19' 20,0" N	156° 37' 30,0" E	14° 19' 20,0" N	156° 37' 30,0" E	14° 17' 00,0" N
FP102	156° 37' 30,0" E	14° 17' 00,0" N	156° 37' 30,0" E	14° 19' 20,0" N	156° 40' 00,0" E	14° 19' 20,0" N	156° 40' 00,0" E	14° 17' 00,0" N
FN103	156° 32' 30,0" E	14° 14' 40,0" N	156° 32' 30,0" E	14° 17' 00,0" N	156° 35' 00,0" E	14° 17' 00,0" N	156° 35' 00,0" E	14° 14' 40,0" N
FL104	156° 27' 30,0" E	14° 12' 20,0" N	156° 27' 30,0" E	14° 14' 40,0" N	156° 30' 00,0" E	14° 14' 40,0" N	156° 30' 00,0" E	14° 12' 20,0" N
FM104	156° 30' 00,0" E	14° 12' 20,0" N	156° 30' 00,0" E	14° 14' 40,0" N	156° 32' 30,0" E	14° 14' 40,0" N	156° 32' 30,0" E	14° 12' 20,0" N
FN104	156° 32' 30,0" E	14° 12' 20,0" N	156° 32' 30,0" E	14° 14' 40,0" N	156° 35' 00,0" E	14° 14' 40,0" N	156° 35' 00,0" E	14° 12' 20,0" N
FO104	156° 35' 00,0" E	14° 12' 20,0" N	156° 35' 00,0" E	14° 14' 40,0" N	156° 37' 30,0" E	14° 14' 40,0" N	156° 37' 30,0" E	14° 12' 20,0" N
FN105	156° 32' 30,0" E	14° 10' 00,0" N	156° 32' 30,0" E	14° 12' 20,0" N	156° 35' 00,0" E	14° 12' 20,0" N	156° 35' 00,0" E	14° 10' 00,0" N
FO105	156° 35' 00,0" E	14° 10' 00,0" N	156° 35' 00,0" E	14° 12' 20,0" N	156° 37' 30,0" E	14° 12' 20,0" N	156° 37' 30,0" E	14° 10' 00,0" N
FN106	156° 32' 30,0" E	14° 07' 40,0" N	156° 32' 30,0" E	14° 10' 00,0" N	156° 35' 00,0" E	14° 10' 00,0" N	156° 35' 00,0" E	14° 07' 40,0" N
FN107	156° 32' 30,0" E	14° 05' 20,0" N	156° 32' 30,0" E	14° 07' 40,0" N	156° 35' 00,0" E	14° 07' 40,0" N	156° 35' 00,0" E	14° 05' 20,0" N
FO107	156° 35' 00,0" E	14° 05' 20,0" N	156° 35' 00,0" E	14° 07' 40,0" N	156° 37' 30,0" E	14° 07' 40,0" N	156° 37' 30,0" E	14° 05' 20,0" N
FK105	156° 25' 00,0" E	14° 10' 00,0" N	156° 25' 00,0" E	14° 12' 20,0" N	156° 27' 30,0" E	14° 12' 20,0" N	156° 27' 30,0" E	14° 10' 00,0" N
FL105	156° 27' 30,0" E	14° 10' 00,0" N	156° 27' 30,0" E	14° 12' 20,0" N	156° 30' 00,0" E	14° 12' 20,0" N	156° 30' 00,0" E	14° 10' 00,0" N
FM105	156° 30' 00,0" E	14° 10' 00,0" N	156° 30' 00,0" E	14° 12' 20,0" N	156° 32' 30,0" E	14° 12' 20,0" N	156° 32' 30,0" E	14° 10' 00,0" N

FL106	156° 27' 30,0" E	14° 07' 40,0" N	156° 27' 30,0" E	14° 10' 00,0" N	156° 30' 00,0" E	14° 10' 00,0" N	156° 30' 00,0" E	14° 07' 40,0" N
FM106	156° 30' 00,0" E	14° 07' 40,0" N	156° 30' 00,0" E	14° 10' 00,0" N	156° 32' 30,0" E	14° 10' 00,0" N	156° 32' 30,0" E	14° 07' 40,0" N

Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
FG105	156° 15' 00,0" E	14° 10' 00,0" N	156° 15' 00,0" E	14° 12' 20,0" N	156° 17' 30,0" E	14° 12' 20,0" N	156° 17' 30,0" E	14° 10' 00,0" N
FH105	156° 17' 30,0" E	14° 10' 00,0" N	156° 17' 30,0" E	14° 12' 20,0" N	156° 20' 00,0" E	14° 12' 20,0" N	156° 20' 00,0" E	14° 10' 00,0" N
FI105	156° 20' 00,0" E	14° 10' 00,0" N	156° 20' 00,0" E	14° 12' 20,0" N	156° 22' 30,0" E	14° 12' 20,0" N	156° 22' 30,0" E	14° 10' 00,0" N
FJ105	156° 22' 30,0" E	14° 10' 00,0" N	156° 22' 30,0" E	14° 12' 20,0" N	156° 25' 00,0" E	14° 12' 20,0" N	156° 25' 00,0" E	14° 10' 00,0" N
FJ106	156° 22' 30,0" E	14° 07' 40,0" N	156° 22' 30,0" E	14° 10' 00,0" N	156° 25' 00,0" E	14° 10' 00,0" N	156° 25' 00,0" E	14° 07' 40,0" N
FK106	156° 25' 00,0" E	14° 07' 40,0" N	156° 25' 00,0" E	14° 10' 00,0" N	156° 27' 30,0" E	14° 10' 00,0" N	156° 27' 30,0" E	14° 07' 40,0" N
FK107	156° 25' 00,0" E	14° 05' 20,0" N	156° 25' 00,0" E	14° 07' 40,0" N	156° 27' 30,0" E	14° 07' 40,0" N	156° 27' 30,0" E	14° 05' 20,0" N
FJ108	156° 22' 30,0" E	14° 03' 00,0" N	156° 22' 30,0" E	14° 05' 20,0" N	156° 25' 00,0" E	14° 05' 20,0" N	156° 25' 00,0" E	14° 03' 00,0" N
FI109	156° 20' 00,0" E	14° 00' 40,0" N	156° 20' 00,0" E	14° 03' 00,0" N	156° 22' 30,0" E	14° 03' 00,0" N	156° 22' 30,0" E	14° 00' 40,0" N
FH110	156° 17' 30,0" E	13° 58' 20,0" N	156° 17' 30,0" E	14° 00' 40,0" N	156° 20' 00,0" E	14° 00' 40,0" N	156° 20' 00,0" E	13° 58' 20,0" N
FU100	156° 50' 00,0" E	14° 21' 40,0" N	156° 50' 00,0" E	14° 24' 00,0" N	156° 52' 30,0" E	14° 24' 00,0" N	156° 52' 30,0" E	14° 21' 40,0" N
FU101	156° 50' 00,0" E	14° 19' 20,0" N	156° 50' 00,0" E	14° 21' 40,0" N	156° 52' 30,0" E	14° 21' 40,0" N	156° 52' 30,0" E	14° 19' 20,0" N
FV101	156° 52' 30,0" E	14° 19' 20,0" N	156° 52' 30,0" E	14° 21' 40,0" N	156° 55' 00,0" E	14° 21' 40,0" N	156° 55' 00,0" E	14° 19' 20,0" N
FV102	156° 52' 30,0" E	14° 17' 00,0" N	156° 52' 30,0" E	14° 19' 20,0" N	156° 55' 00,0" E	14° 19' 20,0" N	156° 55' 00,0" E	14° 17' 00,0" N
FW102	156° 55' 00,0" E	14° 17' 00,0" N	156° 55' 00,0" E	14° 19' 20,0" N	156° 57' 30,0" E	14° 19' 20,0" N	156° 57' 30,0" E	14° 17' 00,0" N
FU103	156° 50' 00,0" E	14° 14' 40,0" N	156° 50' 00,0" E	14° 17' 00,0" N	156° 52' 30,0" E	14° 17' 00,0" N	156° 52' 30,0" E	14° 14' 40,0" N
FV103	156° 52' 30,0" E	14° 14' 40,0" N	156° 52' 30,0" E	14° 17' 00,0" N	156° 55' 00,0" E	14° 17' 00,0" N	156° 55' 00,0" E	14° 14' 40,0" N
FS104	156° 45' 00,0" E	14° 12' 20,0" N	156° 45' 00,0" E	14° 14' 40,0" N	156° 47' 30,0" E	14° 14' 40,0" N	156° 47' 30,0" E	14° 12' 20,0" N
FT104	156° 47' 30,0" E	14° 12' 20,0" N	156° 47' 30,0" E	14° 14' 40,0" N	156° 50' 00,0" E	14° 14' 40,0" N	156° 50' 00,0" E	14° 12' 20,0" N
FU104	156° 50' 00,0" E	14° 12' 20,0" N	156° 50' 00,0" E	14° 14' 40,0" N	156° 52' 30,0" E	14° 14' 40,0" N	156° 52' 30,0" E	14° 12' 20,0" N
Gramberg Guyot								
GO107	157° 40' 00,0" E	14° 05' 20,0" N	157° 40' 00,0" E	14° 07' 40,0" N	157° 42' 30,0" E	14° 07' 40,0" N	157° 42' 30,0" E	14° 05' 20,0" N
GM108	157° 35' 00,0" E	14° 03' 00,0" N	157° 35' 00,0" E	14° 05' 20,0" N	157° 37' 30,0" E	14° 05' 20,0" N	157° 37' 30,0" E	14° 03' 00,0" N

GN108	157° 37' 30,0" E	14° 03' 00,0" N	157° 37' 30,0" E	14° 05' 20,0" N	157° 40' 00,0" E	14° 05' 20,0" N	157° 40' 00,0" E	14° 03' 00,0" N
GN109	157° 37' 30,0" E	14° 00' 40,0" N	157° 37' 30,0" E	14° 03' 00,0" N	157° 40' 00,0" E	14° 03' 00,0" N	157° 40' 00,0" E	14° 00' 40,0" N
GN110	157° 37' 30,0" E	13° 58' 20,0" N	157° 37' 30,0" E	14° 00' 40,0" N	157° 40' 00,0" E	14° 00' 40,0" N	157° 40' 00,0" E	13° 58' 20,0" N
Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
GL109	157° 32' 30,0" E	14° 00' 40,0" N	157° 32' 30,0" E	14° 03' 00,0" N	157° 35' 00,0" E	14° 03' 00,0" N	157° 35' 00,0" E	14° 00' 40,0" N
GK110	157° 30' 00,0" E	13° 58' 20,0" N	157° 30' 00,0" E	14° 00' 40,0" N	157° 32' 30,0" E	14° 00' 40,0" N	157° 32' 30,0" E	13° 58' 20,0" N
GK111	157° 30' 00,0" E	13° 56' 00,0" N	157° 30' 00,0" E	13° 58' 20,0" N	157° 32' 30,0" E	13° 58' 20,0" N	157° 32' 30,0" E	13° 56' 00,0" N
GJ112	157° 27' 30,0" E	13° 53' 40,0" N	157° 27' 30,0" E	13° 56' 00,0" N	157° 30' 00,0" E	13° 56' 00,0" N	157° 30' 00,0" E	13° 53' 40,0" N
GJ113	157° 27' 30,0" E	13° 51' 20,0" N	157° 27' 30,0" E	13° 53' 40,0" N	157° 30' 00,0" E	13° 53' 40,0" N	157° 30' 00,0" E	13° 51' 20,0" N
GO110	157° 40' 00,0" E	13° 58' 20,0" N	157° 40' 00,0" E	14° 00' 40,0" N	157° 42' 30,0" E	14° 00' 40,0" N	157° 42' 30,0" E	13° 58' 20,0" N
GO111	157° 40' 00,0" E	13° 56' 00,0" N	157° 40' 00,0" E	13° 58' 20,0" N	157° 42' 30,0" E	13° 58' 20,0" N	157° 42' 30,0" E	13° 56' 00,0" N
GP111	157° 42' 30,0" E	13° 56' 00,0" N	157° 42' 30,0" E	13° 58' 20,0" N	157° 45' 00,0" E	13° 58' 20,0" N	157° 45' 00,0" E	13° 56' 00,0" N
GN112	157° 37' 30,0" E	13° 53' 40,0" N	157° 37' 30,0" E	13° 56' 00,0" N	157° 40' 00,0" E	13° 56' 00,0" N	157° 40' 00,0" E	13° 53' 40,0" N
GN113	157° 37' 30,0" E	13° 51' 20,0" N	157° 37' 30,0" E	13° 53' 40,0" N	157° 40' 00,0" E	13° 53' 40,0" N	157° 40' 00,0" E	13° 51' 20,0" N
GI114	157° 25' 00,0" E	13° 49' 00,0" N	157° 25' 00,0" E	13° 51' 20,0" N	157° 27' 30,0" E	13° 51' 20,0" N	157° 27' 30,0" E	13° 49' 00,0" N
GJ114	157° 27' 30,0" E	13° 49' 00,0" N	157° 27' 30,0" E	13° 51' 20,0" N	157° 30' 00,0" E	13° 51' 20,0" N	157° 30' 00,0" E	13° 49' 00,0" N
GK114	157° 30' 00,0" E	13° 49' 00,0" N	157° 30' 00,0" E	13° 51' 20,0" N	157° 32' 30,0" E	13° 51' 20,0" N	157° 32' 30,0" E	13° 49' 00,0" N
GI115	157° 25' 00,0" E	13° 46' 40,0" N	157° 25' 00,0" E	13° 49' 00,0" N	157° 27' 30,0" E	13° 49' 00,0" N	157° 27' 30,0" E	13° 46' 40,0" N
GH116	157° 22' 30,0" E	13° 44' 20,0" N	157° 22' 30,0" E	13° 46' 40,0" N	157° 25' 00,0" E	13° 46' 40,0" N	157° 25' 00,0" E	13° 44' 20,0" N
GL114	157° 32' 30,0" E	13° 49' 00,0" N	157° 32' 30,0" E	13° 51' 20,0" N	157° 35' 00,0" E	13° 51' 20,0" N	157° 35' 00,0" E	13° 49' 00,0" N
GM114	157° 35' 00,0" E	13° 49' 00,0" N	157° 35' 00,0" E	13° 51' 20,0" N	157° 37' 30,0" E	13° 51' 20,0" N	157° 37' 30,0" E	13° 49' 00,0" N
GN114	157° 37' 30,0" E	13° 49' 00,0" N	157° 37' 30,0" E	13° 51' 20,0" N	157° 40' 00,0" E	13° 51' 20,0" N	157° 40' 00,0" E	13° 49' 00,0" N
GM115	157° 35' 00,0" E	13° 46' 40,0" N	157° 35' 00,0" E	13° 49' 00,0" N	157° 37' 30,0" E	13° 49' 00,0" N	157° 37' 30,0" E	13° 46' 40,0" N
GN115	157° 37' 30,0" E	13° 46' 40,0" N	157° 37' 30,0" E	13° 49' 00,0" N	157° 40' 00,0" E	13° 49' 00,0" N	157° 40' 00,0" E	13° 46' 40,0" N

Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
Zubov Guyot								
IS65	160° 00' 00,0" E	15° 43' 20,0" N	160° 00' 00,0" E	15° 45' 40,0" N	160° 02' 30,0" E	15° 45' 40,0" N	160° 02' 30,0" E	15° 43' 20,0" N
IT65	160° 02' 30,0" E	15° 43' 20,0" N	160° 02' 30,0" E	15° 45' 40,0" N	160° 05' 00,0" E	15° 45' 40,0" N	160° 05' 00,0" E	15° 43' 20,0" N
IU65	160° 05' 00,0" E	15° 43' 20,0" N	160° 05' 00,0" E	15° 45' 40,0" N	160° 07' 30,0" E	15° 45' 40,0" N	160° 07' 30,0" E	15° 43' 20,0" N
IU66	160° 05' 00,0" E	15° 41' 00,0" N	160° 05' 00,0" E	15° 43' 20,0" N	160° 07' 30,0" E	15° 43' 20,0" N	160° 07' 30,0" E	15° 41' 00,0" N
IV66	160° 07' 30,0" E	15° 41' 00,0" N	160° 07' 30,0" E	15° 43' 20,0" N	160° 10' 00,0" E	15° 43' 20,0" N	160° 10' 00,0" E	15° 41' 00,0" N
IQ66	159° 55' 00,0" E	15° 41' 00,0" N	159° 55' 00,0" E	15° 43' 20,0" N	159° 57' 30,0" E	15° 43' 20,0" N	159° 57' 30,0" E	15° 41' 00,0" N
IR66	159° 57' 30,0" E	15° 41' 00,0" N	159° 57' 30,0" E	15° 43' 20,0" N	160° 00' 00,0" E	15° 43' 20,0" N	160° 00' 00,0" E	15° 41' 00,0" N
IS66	160° 00' 00,0" E	15° 41' 00,0" N	160° 00' 00,0" E	15° 43' 20,0" N	160° 02' 30,0" E	15° 43' 20,0" N	160° 02' 30,0" E	15° 41' 00,0" N
IT66	160° 02' 30,0" E	15° 41' 00,0" N	160° 02' 30,0" E	15° 43' 20,0" N	160° 05' 00,0" E	15° 43' 20,0" N	160° 05' 00,0" E	15° 41' 00,0" N
IR67	159° 57' 30,0" E	15° 38' 40,0" N	159° 57' 30,0" E	15° 41' 00,0" N	160° 00' 00,0" E	15° 41' 00,0" N	160° 00' 00,0" E	15° 38' 40,0" N
IS67	160° 00' 00,0" E	15° 38' 40,0" N	160° 00' 00,0" E	15° 41' 00,0" N	160° 02' 30,0" E	15° 41' 00,0" N	160° 02' 30,0" E	15° 38' 40,0" N
IT67	160° 02' 30,0" E	15° 38' 40,0" N	160° 02' 30,0" E	15° 41' 00,0" N	160° 05' 00,0" E	15° 41' 00,0" N	160° 05' 00,0" E	15° 38' 40,0" N
IU67	160° 05' 00,0" E	15° 38' 40,0" N	160° 05' 00,0" E	15° 41' 00,0" N	160° 07' 30,0" E	15° 41' 00,0" N	160° 07' 30,0" E	15° 38' 40,0" N
IV67	160° 07' 30,0" E	15° 38' 40,0" N	160° 07' 30,0" E	15° 41' 00,0" N	160° 10' 00,0" E	15° 41' 00,0" N	160° 10' 00,0" E	15° 38' 40,0" N
IU68	160° 05' 00,0" E	15° 36' 20,0" N	160° 05' 00,0" E	15° 38' 40,0" N	160° 07' 30,0" E	15° 38' 40,0" N	160° 07' 30,0" E	15° 36' 20,0" N
IR68	159° 57' 30,0" E	15° 36' 20,0" N	159° 57' 30,0" E	15° 38' 40,0" N	160° 00' 00,0" E	15° 38' 40,0" N	160° 00' 00,0" E	15° 36' 20,0" N
IS68	160° 00' 00,0" E	15° 36' 20,0" N	160° 00' 00,0" E	15° 38' 40,0" N	160° 02' 30,0" E	15° 38' 40,0" N	160° 02' 30,0" E	15° 36' 20,0" N
IT68	160° 02' 30,0" E	15° 36' 20,0" N	160° 02' 30,0" E	15° 38' 40,0" N	160° 05' 00,0" E	15° 38' 40,0" N	160° 05' 00,0" E	15° 36' 20,0" N
IS69	160° 00' 00,0" E	15° 34' 00,0" N	160° 00' 00,0" E	15° 36' 20,0" N	160° 02' 30,0" E	15° 36' 20,0" N	160° 02' 30,0" E	15° 34' 00,0" N
IT69	160° 02' 30,0" E	15° 34' 00,0" N	160° 02' 30,0" E	15° 36' 20,0" N	160° 05' 00,0" E	15° 36' 20,0" N	160° 05' 00,0" E	15° 34' 00,0" N
Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
Zatonsky Guyot								
GS138	157° 50' 00,0" E	12° 53' 00,0" N	157° 50' 00,0" E	12° 55' 20,0" N	157° 52' 30,0" E	12° 55' 20,0" N	157° 52' 30,0" E	12° 53' 00,0" N
GR139	157° 47' 30,0" E	12° 50' 40,0" N	157° 47' 30,0" E	12° 53' 00,0" N	157° 50' 00,0" E	12° 53' 00,0" N	157° 50' 00,0" E	12° 50' 40,0" N

GS139	157° 50' 00,0" E	12° 50' 40,0" N	157° 50' 00,0" E	12° 53' 00,0" N	157° 52' 30,0" E	12° 53' 00,0" N	157° 52' 30,0" E	12° 50' 40,0" N
GT139	157° 52' 30,0" E	12° 50' 40,0" N	157° 52' 30,0" E	12° 53' 00,0" N	157° 55' 00,0" E	12° 53' 00,0" N	157° 55' 00,0" E	12° 50' 40,0" N
GU140	157° 55' 00,0" E	12° 48' 20,0" N	157° 55' 00,0" E	12° 50' 40,0" N	157° 57' 30,0" E	12° 50' 40,0" N	157° 57' 30,0" E	12° 48' 20,0" N
GQ139	157° 45' 00,0" E	12° 50' 40,0" N	157° 45' 00,0" E	12° 53' 00,0" N	157° 47' 30,0" E	12° 53' 00,0" N	157° 47' 30,0" E	12° 50' 40,0" N
GQ140	157° 45' 00,0" E	12° 48' 20,0" N	157° 45' 00,0" E	12° 50' 40,0" N	157° 47' 30,0" E	12° 50' 40,0" N	157° 47' 30,0" E	12° 48' 20,0" N
GQ141	157° 45' 00,0" E	12° 46' 00,0" N	157° 45' 00,0" E	12° 48' 20,0" N	157° 47' 30,0" E	12° 48' 20,0" N	157° 47' 30,0" E	12° 46' 00,0" N
GR141	157° 47' 30,0" E	12° 46' 00,0" N	157° 47' 30,0" E	12° 48' 20,0" N	157° 50' 00,0" E	12° 48' 20,0" N	157° 50' 00,0" E	12° 46' 00,0" N
GQ142	157° 45' 00,0" E	12° 43' 40,0" N	157° 45' 00,0" E	12° 46' 00,0" N	157° 47' 30,0" E	12° 46' 00,0" N	157° 47' 30,0" E	12° 43' 40,0" N
GT141	157° 52' 30,0" E	12° 46' 00,0" N	157° 52' 30,0" E	12° 48' 20,0" N	157° 55' 00,0" E	12° 48' 20,0" N	157° 55' 00,0" E	12° 46' 00,0" N
GU141	157° 55' 00,0" E	12° 46' 00,0" N	157° 55' 00,0" E	12° 48' 20,0" N	157° 57' 30,0" E	12° 48' 20,0" N	157° 57' 30,0" E	12° 46' 00,0" N
GR142	157° 47' 30,0" E	12° 43' 40,0" N	157° 47' 30,0" E	12° 46' 00,0" N	157° 50' 00,0" E	12° 46' 00,0" N	157° 50' 00,0" E	12° 43' 40,0" N
GS142	157° 50' 00,0" E	12° 43' 40,0" N	157° 50' 00,0" E	12° 46' 00,0" N	157° 52' 30,0" E	12° 46' 00,0" N	157° 52' 30,0" E	12° 43' 40,0" N
GT142	157° 52' 30,0" E	12° 43' 40,0" N	157° 52' 30,0" E	12° 46' 00,0" N	157° 55' 00,0" E	12° 46' 00,0" N	157° 55' 00,0" E	12° 43' 40,0" N

Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
Area 2								
Govorov Guyot								
AI3	150° 55' 00,0" E	18° 08' 00,0" N	150° 55' 00,0" E	18° 10' 20,0" N	150° 57' 30,0" E	18° 10' 20,0" N	150° 57' 30,0" E	18° 08' 00,0" N
AH4	150° 52' 30,0" E	18° 05' 40,0" N	150° 52' 30,0" E	18° 08' 00,0" N	150° 55' 00,0" E	18° 08' 00,0" N	150° 55' 00,0" E	18° 05' 40,0" N
AI4	150° 55' 00,0" E	18° 05' 40,0" N	150° 55' 00,0" E	18° 08' 00,0" N	150° 57' 30,0" E	18° 08' 00,0" N	150° 57' 30,0" E	18° 05' 40,0" N
AG5	150° 50' 00,0" E	18° 03' 20,0" N	150° 50' 00,0" E	18° 05' 40,0" N	150° 52' 30,0" E	18° 05' 40,0" N	150° 52' 30,0" E	18° 03' 20,0" N
AH5	150° 52' 30,0" E	18° 03' 20,0" N	150° 52' 30,0" E	18° 05' 40,0" N	150° 55' 00,0" E	18° 05' 40,0" N	150° 55' 00,0" E	18° 03' 20,0" N
AJ3	150° 57' 30,0" E	18° 08' 00,0" N	150° 57' 30,0" E	18° 10' 20,0" N	151° 00' 00,0" E	18° 10' 20,0" N	151° 00' 00,0" E	18° 08' 00,0" N
AK3	151° 00' 00,0" E	18° 08' 00,0" N	151° 00' 00,0" E	18° 10' 20,0" N	151° 02' 30,0" E	18° 10' 20,0" N	151° 02' 30,0" E	18° 08' 00,0" N
AJ4	150° 57' 30,0" E	18° 05' 40,0" N	150° 57' 30,0" E	18° 08' 00,0" N	151° 00' 00,0" E	18° 08' 00,0" N	151° 00' 00,0" E	18° 05' 40,0" N
AK4	151° 00' 00,0" E	18° 05' 40,0" N	151° 00' 00,0" E	18° 08' 00,0" N	151° 02' 30,0" E	18° 08' 00,0" N	151° 02' 30,0" E	18° 05' 40,0" N
AL4	151° 02' 30,0" E	18° 05' 40,0" N	151° 02' 30,0" E	18° 08' 00,0" N	151° 05' 00,0" E	18° 08' 00,0" N	151° 05' 00,0" E	18° 05' 40,0" N

AM4	151° 05' 00,0" E	18° 05' 40,0" N	151° 05' 00,0" E	18° 08' 00,0" N	151° 07' 30,0" E	18° 08' 00,0" N	151° 07' 30,0" E	18° 05' 40,0" N
AL5	151° 02' 30,0" E	18° 03' 20,0" N	151° 02' 30,0" E	18° 05' 40,0" N	151° 05' 00,0" E	18° 05' 40,0" N	151° 05' 00,0" E	18° 03' 20,0" N
AM5	151° 05' 00,0" E	18° 03' 20,0" N	151° 05' 00,0" E	18° 05' 40,0" N	151° 07' 30,0" E	18° 05' 40,0" N	151° 07' 30,0" E	18° 03' 20,0" N
AN5	151° 07' 30,0" E	18° 03' 20,0" N	151° 07' 30,0" E	18° 05' 40,0" N	151° 10' 00,0" E	18° 05' 40,0" N	151° 10' 00,0" E	18° 03' 20,0" N
AL6	151° 02' 30,0" E	18° 01' 00,0" N	151° 02' 30,0" E	18° 03' 20,0" N	151° 05' 00,0" E	18° 03' 20,0" N	151° 05' 00,0" E	18° 01' 00,0" N
AO5	151° 10' 00,0" E	18° 03' 20,0" N	151° 10' 00,0" E	18° 05' 40,0" N	151° 12' 30,0" E	18° 05' 40,0" N	151° 12' 30,0" E	18° 03' 20,0" N
AP5	151° 12' 30,0" E	18° 03' 20,0" N	151° 12' 30,0" E	18° 05' 40,0" N	151° 15' 00,0" E	18° 05' 40,0" N	151° 15' 00,0" E	18° 03' 20,0" N
AN6	151° 07' 30,0" E	18° 01' 00,0" N	151° 07' 30,0" E	18° 03' 20,0" N	151° 10' 00,0" E	18° 03' 20,0" N	151° 10' 00,0" E	18° 01' 00,0" N
AO6	151° 10' 00,0" E	18° 01' 00,0" N	151° 10' 00,0" E	18° 03' 20,0" N	151° 12' 30,0" E	18° 03' 20,0" N	151° 12' 30,0" E	18° 01' 00,0" N
AO7	151° 10' 00,0" E	17° 58' 40,0" N	151° 10' 00,0" E	18° 01' 00,0" N	151° 12' 30,0" E	18° 01' 00,0" N	151° 12' 30,0" E	17° 58' 40,0" N
AP7	151° 12' 30,0" E	17° 58' 40,0" N	151° 12' 30,0" E	18° 01' 00,0" N	151° 15' 00,0" E	18° 01' 00,0" N	151° 15' 00,0" E	17° 58' 40,0" N
AO8	151° 10' 00,0" E	17° 56' 20,0" N	151° 10' 00,0" E	17° 58' 40,0" N	151° 12' 30,0" E	17° 58' 40,0" N	151° 12' 30,0" E	17° 56' 20,0" N
AP8	151° 12' 30,0" E	17° 56' 20,0" N	151° 12' 30,0" E	17° 58' 40,0" N	151° 15' 00,0" E	17° 58' 40,0" N	151° 15' 00,0" E	17° 56' 20,0" N
AQ8	151° 15' 00,0" E	17° 56' 20,0" N	151° 15' 00,0" E	17° 58' 40,0" N	151° 17' 30,0" E	17° 58' 40,0" N	151° 17' 30,0" E	17° 56' 20,0" N
AQ9	151° 15' 00,0" E	17° 54' 00,0" N	151° 15' 00,0" E	17° 56' 20,0" N	151° 17' 30,0" E	17° 56' 20,0" N	151° 17' 30,0" E	17° 54' 00,0" N
Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
AO9	151° 10' 00,0" E	17° 54' 00,0" N	151° 10' 00,0" E	17° 56' 20,0" N	151° 12' 30,0" E	17° 56' 20,0" N	151° 12' 30,0" E	17° 54' 00,0" N
AP9	151° 12' 30,0" E	17° 54' 00,0" N	151° 12' 30,0" E	17° 56' 20,0" N	151° 15' 00,0" E	17° 56' 20,0" N	151° 15' 00,0" E	17° 54' 00,0" N
AO10	151° 10' 00,0" E	17° 51' 40,0" N	151° 10' 00,0" E	17° 54' 00,0" N	151° 12' 30,0" E	17° 54' 00,0" N	151° 12' 30,0" E	17° 51' 40,0" N
AP10	151° 12' 30,0" E	17° 51' 40,0" N	151° 12' 30,0" E	17° 54' 00,0" N	151° 15' 00,0" E	17° 54' 00,0" N	151° 15' 00,0" E	17° 51' 40,0" N
AP11	151° 12' 30,0" E	17° 49' 20,0" N	151° 12' 30,0" E	17° 51' 40,0" N	151° 15' 00,0" E	17° 51' 40,0" N	151° 15' 00,0" E	17° 49' 20,0" N
AH7	150° 52' 30,0" E	17° 58' 40,0" N	150° 52' 30,0" E	18° 01' 00,0" N	150° 55' 00,0" E	18° 01' 00,0" N	150° 55' 00,0" E	17° 58' 40,0" N
AH8	150° 52' 30,0" E	17° 56' 20,0" N	150° 52' 30,0" E	17° 58' 40,0" N	150° 55' 00,0" E	17° 58' 40,0" N	150° 55' 00,0" E	17° 56' 20,0" N
AH9	150° 52' 30,0" E	17° 54' 00,0" N	150° 52' 30,0" E	17° 56' 20,0" N	150° 55' 00,0" E	17° 56' 20,0" N	150° 55' 00,0" E	17° 54' 00,0" N
AI9	150° 55' 00,0" E	17° 54' 00,0" N	150° 55' 00,0" E	17° 56' 20,0" N	150° 57' 30,0" E	17° 56' 20,0" N	150° 57' 30,0" E	17° 54' 00,0" N
AJ9	150° 57' 30,0" E	17° 54' 00,0" N	150° 57' 30,0" E	17° 56' 20,0" N	151° 00' 00,0" E	17° 56' 20,0" N	151° 00' 00,0" E	17° 54' 00,0" N

AG9	150° 50' 00,0" E	17° 54' 00,0" N	150° 50' 00,0" E	17° 56' 20,0" N	150° 52' 30,0" E	17° 56' 20,0" N	150° 52' 30,0" E	17° 54' 00,0" N
AD10	150° 42' 30,0" E	17° 51' 40,0" N	150° 42' 30,0" E	17° 54' 00,0" N	150° 45' 00,0" E	17° 54' 00,0" N	150° 45' 00,0" E	17° 51' 40,0" N
AE10	150° 45' 00,0" E	17° 51' 40,0" N	150° 45' 00,0" E	17° 54' 00,0" N	150° 47' 30,0" E	17° 54' 00,0" N	150° 47' 30,0" E	17° 51' 40,0" N
AF10	150° 47' 30,0" E	17° 51' 40,0" N	150° 47' 30,0" E	17° 54' 00,0" N	150° 50' 00,0" E	17° 54' 00,0" N	150° 50' 00,0" E	17° 51' 40,0" N
AG10	150° 50' 00,0" E	17° 51' 40,0" N	150° 50' 00,0" E	17° 54' 00,0" N	150° 52' 30,0" E	17° 54' 00,0" N	150° 52' 30,0" E	17° 51' 40,0" N
Z8	150° 32' 30,0" E	17° 56' 20,0" N	150° 32' 30,0" E	17° 58' 40,0" N	150° 35' 00,0" E	17° 58' 40,0" N	150° 35' 00,0" E	17° 56' 20,0" N
AA8	150° 35' 00,0" E	17° 56' 20,0" N	150° 35' 00,0" E	17° 58' 40,0" N	150° 37' 30,0" E	17° 58' 40,0" N	150° 37' 30,0" E	17° 56' 20,0" N
Z9	150° 32' 30,0" E	17° 54' 00,0" N	150° 32' 30,0" E	17° 56' 20,0" N	150° 35' 00,0" E	17° 56' 20,0" N	150° 35' 00,0" E	17° 54' 00,0" N
AB9	150° 37' 30,0" E	17° 54' 00,0" N	150° 37' 30,0" E	17° 56' 20,0" N	150° 40' 00,0" E	17° 56' 20,0" N	150° 40' 00,0" E	17° 54' 00,0" N
AC9	150° 40' 00,0" E	17° 54' 00,0" N	150° 40' 00,0" E	17° 56' 20,0" N	150° 42' 30,0" E	17° 56' 20,0" N	150° 42' 30,0" E	17° 54' 00,0" N
AU15	151° 25' 00,0" E	17° 40' 00,0" N	151° 25' 00,0" E	17° 42' 20,0" N	151° 27' 30,0" E	17° 42' 20,0" N	151° 27' 30,0" E	17° 40' 00,0" N
AV16	151° 27' 30,0" E	17° 37' 40,0" N	151° 27' 30,0" E	17° 40' 00,0" N	151° 30' 00,0" E	17° 40' 00,0" N	151° 30' 00,0" E	17° 37' 40,0" N
AV17	151° 27' 30,0" E	17° 35' 20,0" N	151° 27' 30,0" E	17° 37' 40,0" N	151° 30' 00,0" E	17° 37' 40,0" N	151° 30' 00,0" E	17° 35' 20,0" N
AV18	151° 27' 30,0" E	17° 33' 00,0" N	151° 27' 30,0" E	17° 35' 20,0" N	151° 30' 00,0" E	17° 35' 20,0" N	151° 30' 00,0" E	17° 33' 00,0" N
AW18	151° 30' 00,0" E	17° 33' 00,0" N	151° 30' 00,0" E	17° 35' 20,0" N	151° 32' 30,0" E	17° 35' 20,0" N	151° 32' 30,0" E	17° 33' 00,0" N
Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
AW19	151° 30' 00,0" E	17° 30' 40,0" N	151° 30' 00,0" E	17° 33' 00,0" N	151° 32' 30,0" E	17° 33' 00,0" N	151° 32' 30,0" E	17° 30' 40,0" N
AX19	151° 32' 30,0" E	17° 30' 40,0" N	151° 32' 30,0" E	17° 33' 00,0" N	151° 35' 00,0" E	17° 33' 00,0" N	151° 35' 00,0" E	17° 30' 40,0" N
AY19	151° 35' 00,0" E	17° 30' 40,0" N	151° 35' 00,0" E	17° 33' 00,0" N	151° 37' 30,0" E	17° 33' 00,0" N	151° 37' 30,0" E	17° 30' 40,0" N
AZ19	151° 37' 30,0" E	17° 30' 40,0" N	151° 37' 30,0" E	17° 33' 00,0" N	151° 40' 00,0" E	17° 33' 00,0" N	151° 40' 00,0" E	17° 30' 40,0" N
BA19	151° 40' 00,0" E	17° 30' 40,0" N	151° 40' 00,0" E	17° 33' 00,0" N	151° 42' 30,0" E	17° 33' 00,0" N	151° 42' 30,0" E	17° 30' 40,0" N
Alba Guyot								
DF28	154° 02' 30,0" E	17° 09' 40,0" N	154° 02' 30,0" E	17° 12' 00,0" N	154° 05' 00,0" E	17° 12' 00,0" N	154° 05' 00,0" E	17° 09' 40,0" N
DF29	154° 02' 30,0" E	17° 07' 20,0" N	154° 02' 30,0" E	17° 09' 40,0" N	154° 05' 00,0" E	17° 09' 40,0" N	154° 05' 00,0" E	17° 07' 20,0" N
DF30	154° 02' 30,0" E	17° 05' 00,0" N	154° 02' 30,0" E	17° 07' 20,0" N	154° 05' 00,0" E	17° 07' 20,0" N	154° 05' 00,0" E	17° 05' 00,0" N
DG31	154° 05' 00,0" E	17° 02' 40,0" N	154° 05' 00,0" E	17° 05' 00,0" N	154° 07' 30,0" E	17° 05' 00,0" N	154° 07' 30,0" E	17° 02' 40,0" N
DG32	154° 05' 00,0" E	17° 00' 20,0" N	154° 05' 00,0" E	17° 02' 40,0" N	154° 07' 30,0" E	17° 02' 40,0" N	154° 07' 30,0" E	17° 00' 20,0" N

DG33	154° 05' 00,0" E	16° 58' 00,0" N	154° 05' 00,0" E	17° 00' 20,0" N	154° 07' 30,0" E	17° 00' 20,0" N	154° 07' 30,0" E	16° 58' 00,0" N
DG34	154° 05' 00,0" E	16° 55' 40,0" N	154° 05' 00,0" E	16° 58' 00,0" N	154° 07' 30,0" E	16° 58' 00,0" N	154° 07' 30,0" E	16° 55' 40,0" N
DF35	154° 02' 30,0" E	16° 53' 20,0" N	154° 02' 30,0" E	16° 55' 40,0" N	154° 05' 00,0" E	16° 55' 40,0" N	154° 05' 00,0" E	16° 53' 20,0" N
DE36	154° 00' 00,0" E	16° 51' 00,0" N	154° 00' 00,0" E	16° 53' 20,0" N	154° 02' 30,0" E	16° 53' 20,00" N	154° 02' 30,0" E	16° 51' 00,0" N
DF36	154° 02' 30,0" E	16° 51' 00,0" N	154° 02' 30,0" E	16° 53' 20,0" N	154° 05' 00,0" E	16° 53' 20,0" N	154° 05' 00,0" E	16° 51' 00,0" N
DO32	154° 25' 00,0" E	17° 00' 20,0" N	154° 25' 00,0" E	17° 02' 40,0" N	154° 27' 30,0" E	17° 02' 40,0" N	154° 27' 30,0" E	17° 00' 20,0" N
DO33	154° 25' 00,0" E	16° 58' 00,0" N	154° 25' 00,0" E	17° 00' 20,0" N	154° 27' 30,0" E	17° 00' 20,0" N	154° 27' 30,0" E	16° 58' 00,0" N
DO34	154° 25' 00,0" E	16° 55' 40,0" N	154° 25' 00,0" E	16° 58' 00,0" N	154° 27' 30,0" E	16° 58' 00,0" N	154° 27' 30,0" E	16° 55' 40,0" N
DO35	154° 25' 00,0" E	16° 53' 20,0" N	154° 25' 00,0" E	16° 55' 40,0" N	154° 27' 30,0" E	16° 55' 40,0" N	154° 27' 30,0" E	16° 53' 20,0" N
DO36	154° 25' 00,0" E	16° 51' 00,0" N	154° 25' 00,0" E	16° 53' 20,0" N	154° 27' 30,0" E	16° 53' 20,0" N	154° 27' 30,0" E	16° 51' 00,0" N
Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
DN36	154° 22' 30,0" E	16° 51' 00,0" N	154° 22' 30,0" E	16° 53' 20,0" N	154° 25' 00,0" E	16° 53' 20,0" N	154° 25' 00,0" E	16° 51' 00,0" N
DN37	154° 22' 30,0" E	16° 48' 40,0" N	154° 22' 30,0" E	16° 51' 00,0" N	154° 25' 00,0" E	16° 51' 00,0" N	154° 25' 00,0" E	16° 48' 40,0" N
DO37	154° 25' 00,0" E	16° 48' 40,0" N	154° 25' 00,0" E	16° 51' 00,0" N	154° 27' 30,0" E	16° 51' 00,0" N	154° 27' 30,0" E	16° 48' 40,0" N
DN38	154° 22' 30,0" E	16° 46' 20,0" N	154° 22' 30,0" E	16° 48' 40,0" N	154° 25' 00,0" E	16° 48' 40,0" N	154° 25' 00,0" E	16° 46' 20,0" N
DO39	154° 25' 00,0" E	16° 44' 00,0" N	154° 25' 00,0" E	16° 46' 20,0" N	154° 27' 30,0" E	16° 46' 20,0" N	154° 27' 30,0" E	16° 44' 00,0" N
DP39	154° 27' 30,0" E	16° 44' 00,0" N	154° 27' 30,0" E	16° 46' 20,0" N	154° 30' 00,0" E	16° 46' 20,0" N	154° 30' 00,0" E	16° 44' 00,0" N
DO40	154° 25' 00,0" E	16° 41' 40,0" N	154° 25' 00,0" E	16° 44' 00,0" N	154° 27' 30,0" E	16° 44' 00,0" N	154° 27' 30,0" E	16° 41' 40,0" N
DP40	154° 27' 30,0" E	16° 41' 40,0" N	154° 27' 30,0" E	16° 44' 00,0" N	154° 30' 00,0" E	16° 44' 00,0" N	154° 30' 00,0" E	16° 41' 40,0" N
DO41	154° 25' 00,0" E	16° 39' 20,0" N	154° 25' 00,0" E	16° 41' 40,0" N	154° 27' 30,0" E	16° 41' 40,0" N	154° 27' 30,0" E	16° 39' 20,0" N
DP41	154° 27' 30,0" E	16° 39' 20,0" N	154° 27' 30,0" E	16° 41' 40,0" N	154° 30' 00,0" E	16° 41' 40,0" N	154° 30' 00,0" E	16° 39' 20,0" N
DP42	154° 27' 30,0" E	16° 37' 00,0" N	154° 27' 30,0" E	16° 39' 20,0" N	154° 30' 00,0" E	16° 39' 20,0" N	154° 30' 00,0" E	16° 37' 00,0" N
DP43	154° 27' 30,0" E	16° 34' 40,0" N	154° 27' 30,0" E	16° 37' 00,0" N	154° 30' 00,0" E	16° 37' 00,0" N	154° 30' 00,0" E	16° 34' 40,0" N
DO44	154° 25' 00,0" E	16° 32' 20,0" N	154° 25' 00,0" E	16° 34' 40,0" N	154° 27' 30,0" E	16° 34' 40,0" N	154° 27' 30,0" E	16° 32' 20,0" N
DO45	154° 25' 00,0" E	16° 30' 00,0" N	154° 25' 00,0" E	16° 32' 20,0" N	154° 27' 30,0" E	16° 32' 20,0" N	154° 27' 30,0" E	16° 30' 00,0" N
DO46	154° 25' 00,0" E	16° 27' 40,0" N	154° 25' 00,0" E	16° 30' 00,0" N	154° 27' 30,0" E	16° 30' 00,0" N	154° 27' 30,0" E	16° 27' 40,0" N

DM43	154° 20' 00,0" E	16° 34' 40,0" N	154° 20' 00,0" E	16° 37' 00,0" N	154° 22' 30,0" E	16° 37' 00,0" N	154° 22' 30,0" E	16° 34' 40,0" N
DN43	154° 22' 30,0" E	16° 34' 40,0" N	154° 22' 30,0" E	16° 37' 00,0" N	154° 25' 00,0" E	16° 37' 00,0" N	154° 25' 00,0" E	16° 34' 40,0" N
DM44	154° 20' 00,0" E	16° 32' 20,0" N	154° 20' 00,0" E	16° 34' 40,0" N	154° 22' 30,0" E	16° 34' 40,0" N	154° 22' 30,0" E	16° 32' 20,0" N
DN44	154° 22' 30,0" E	16° 32' 20,0" N	154° 22' 30,0" E	16° 34' 40,0" N	154° 25' 00,0" E	16° 34' 40,0" N	154° 25' 00,0" E	16° 32' 20,0" N
DM45	154° 20' 00,0" E	16° 30' 00,0" N	154° 20' 00,0" E	16° 32' 20,0" N	154° 22' 30,0" E	16° 32' 20,0" N	154° 22' 30,0" E	16° 30' 00,0" N
Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
Kotsebu Guyot								
BW18	152° 35' 00,0" E	17° 33' 00,0" N	152° 35' 00,0" E	17° 35' 20,0" N	152° 37' 30,0" E	17° 35' 20,0" N	152° 37' 30,0" E	17° 33' 00,0" N
BW19	152° 35' 00,0" E	17° 30' 40,0" N	152° 35' 00,0" E	17° 33' 00,0" N	152° 37' 30,0" E	17° 33' 00,0" N	152° 37' 30,0" E	17° 30' 40,0" N
BX19	152° 37' 30,0" E	17° 30' 40,0" N	152° 37' 30,0" E	17° 33' 00,0" N	152° 40' 00,0" E	17° 33' 00,0" N	152° 40' 00,0" E	17° 30' 40,0" N
BX20	152° 37' 30,0" E	17° 28' 20,0" N	152° 37' 30,0" E	17° 30' 40,0" N	152° 40' 00,0" E	17° 30' 40,0" N	152° 40' 00,0" E	17° 28' 20,0" N
BY20	152° 40' 00,0" E	17° 28' 20,0" N	152° 40' 00,0" E	17° 30' 40,0" N	152° 42' 30,0" E	17° 30' 40,0" N	152° 42' 30,0" E	17° 28' 20,0" N
BW20	152° 35' 00,0" E	17° 28' 20,0" N	152° 35' 00,0" E	17° 30' 40,0" N	152° 37' 30,0" E	17° 30' 40,0" N	152° 37' 30,0" E	17° 28' 20,0" N
BW21	152° 35' 00,0" E	17° 26' 00,0" N	152° 35' 00,0" E	17° 28' 20,0" N	152° 37' 30,0" E	17° 28' 20,0" N	152° 37' 30,0" E	17° 26' 00,0" N
BV22	152° 32' 30,0" E	17° 23' 40,0" N	152° 32' 30,0" E	17° 26' 00,0" N	152° 35' 00,0" E	17° 26' 00,0" N	152° 35' 00,0" E	17° 23' 40,0" N
BW22	152° 35' 00,0" E	17° 23' 40,0" N	152° 35' 00,0" E	17° 26' 00,0" N	152° 37' 30,0" E	17° 26' 00,0" N	152° 37' 30,0" E	17° 23' 40,0" N
BV23	152° 32' 30,0" E	17° 21' 20,0" N	152° 32' 30,0" E	17° 23' 40,0" N	152° 35' 00,0" E	17° 23' 40,0" N	152° 35' 00,0" E	17° 21' 20,0" N
CC21	152° 50' 00,0" E	17° 26' 00,0" N	152° 50' 00,0" E	17° 28' 20,0" N	152° 52' 30,0" E	17° 28' 20,0" N	152° 52' 30,0" E	17° 26' 00,0" N
CB22	152° 47' 30,0" E	17° 23' 40,0" N	152° 47' 30,0" E	17° 26' 00,0" N	152° 50' 00,0" E	17° 26' 00,0" N	152° 50' 00,0" E	17° 23' 40,0" N
CC22	152° 50' 00,0" E	17° 23' 40,0" N	152° 50' 00,0" E	17° 26' 00,0" N	152° 52' 30,0" E	17° 26' 00,0" N	152° 52' 30,0" E	17° 23' 40,0" N
BZ22	152° 42' 30,0" E	17° 23' 40,0" N	152° 42' 30,0" E	17° 26' 00,0" N	152° 45' 00,0" E	17° 26' 00,0" N	152° 45' 00,0" E	17° 23' 40,0" N
CA23	152° 45' 00,0" E	17° 21' 20,0" N	152° 45' 00,0" E	17° 23' 40,0" N	152° 47' 30,0" E	17° 23' 40,0" N	152° 47' 30,0" E	17° 21' 20,0" N
BX24	152° 37' 30,0" E	17° 19' 00,0" N	152° 37' 30,0" E	17° 21' 20,0" N	152° 40' 00,0" E	17° 21' 20,0" N	152° 40' 00,0" E	17° 19' 00,0" N
BY24	152° 40' 00,0" E	17° 19' 00,0" N	152° 40' 00,0" E	17° 21' 20,0" N	152° 42' 30,0" E	17° 21' 20,0" N	152° 42' 30,0" E	17° 19' 00,0" N
BZ24	152° 42' 30,0" E	17° 19' 00,0" N	152° 42' 30,0" E	17° 21' 20,0" N	152° 45' 00,0" E	17° 21' 20,0" N	152° 45' 00,0" E	17° 19' 00,0" N
CA24	152° 45' 00,0" E	17° 19' 00,0" N	152° 45' 00,0" E	17° 21' 20,0" N	152° 47' 30,0" E	17° 21' 20,0" N	152° 47' 30,0" E	17° 19' 00,0" N
BW25	152° 35' 00,0" E	17° 16' 40,0" N	152° 35' 00,0" E	17° 19' 00,0" N	152° 37' 30,0" E	17° 19' 00,0" N	152° 37' 30,0" E	17° 16' 40,0" N

Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
CJ20	153° 07' 30,0" E	17° 28' 20,0" N	153° 07' 30,0" E	17° 30' 40,0" N	153° 10' 00,0" E	17° 30' 40,0" N	153° 10' 00,0" E	17° 28' 20,0" N
CI21	153° 05' 00,0" E	17° 26' 00,0" N	153° 05' 00,0" E	17° 28' 20,0" N	153° 07' 30,0" E	17° 28' 20,0" N	153° 07' 30,0" E	17° 26' 00,0" N
CJ21	153° 07' 30,0" E	17° 26' 00,0" N	153° 07' 30,0" E	17° 28' 20,0" N	153° 10' 00,0" E	17° 28' 20,0" N	153° 10' 00,0" E	17° 26' 00,0" N
CK21	153° 10' 00,0" E	17° 26' 00,0" N	153° 10' 00,0" E	17° 28' 20,0" N	153° 12' 30,0" E	17° 28' 20,0" N	153° 12' 30,0" E	17° 26' 00,0" N
CI22	153° 05' 00,0" E	17° 23' 40,0" N	153° 05' 00,0" E	17° 26' 00,0" N	153° 07' 30,0" E	17° 26' 00,0" N	153° 07' 30,0" E	17° 23' 40,0" N
CK20	153° 10' 00,0" E	17° 28' 20,0" N	153° 10' 00,0" E	17° 30' 40,0" N	153° 12' 30,0" E	17° 30' 40,0" N	153° 12' 30,0" E	17° 28' 20,0" N
CL20	153° 12' 30,0" E	17° 28' 20,0" N	153° 12' 30,0" E	17° 30' 40,0" N	153° 15' 00,0" E	17° 30' 40,0" N	153° 15' 00,0" E	17° 28' 20,0" N
CM20	153° 15' 00,0" E	17° 28' 20,0" N	153° 15' 00,0" E	17° 30' 40,0" N	153° 17' 30,0" E	17° 30' 40,0" N	153° 17' 30,0" E	17° 28' 20,0" N
CL21	153° 12' 30,0" E	17° 26' 00,0" N	153° 12' 30,0" E	17° 28' 20,0" N	153° 15' 00,0" E	17° 28' 20,0" N	153° 15' 00,0" E	17° 26' 00,0" N
CL22	153° 12' 30,0" E	17° 23' 40,0" N	153° 12' 30,0" E	17° 26' 00,0" N	153° 15' 00,0" E	17° 26' 00,0" N	153° 15' 00,0" E	17° 23' 40,0" N
CH22	153° 02' 30,0" E	17° 23' 40,0" N	153° 02' 30,0" E	17° 26' 00,0" N	153° 05' 00,0" E	17° 26' 00,0" N	153° 05' 00,0" E	17° 23' 40,0" N
CH23	153° 02' 30,0" E	17° 21' 20,0" N	153° 02' 30,0" E	17° 23' 40,0" N	153° 05' 00,0" E	17° 23' 40,0" N	153° 05' 00,0" E	17° 21' 20,0" N
CI23	153° 05' 00,0" E	17° 21' 20,0" N	153° 05' 00,0" E	17° 23' 40,0" N	153° 07' 30,0" E	17° 23' 40,0" N	153° 07' 30,0" E	17° 21' 20,0" N
CJ23	153° 07' 30,0" E	17° 21' 20,0" N	153° 07' 30,0" E	17° 23' 40,0" N	153° 10' 00,0" E	17° 23' 40,0" N	153° 10' 00,0" E	17° 21' 20,0" N
CK23	153° 10' 00,0" E	17° 21' 20,0" N	153° 10' 00,0" E	17° 23' 40,0" N	153° 12' 30,0" E	17° 23' 40,0" N	153° 12' 30,0" E	17° 21' 20,0" N
CL23	153° 12' 30,0" E	17° 21' 20,0" N	153° 12' 30,0" E	17° 23' 40,0" N	153° 15' 00,0" E	17° 23' 40,0" N	153° 15' 00,0" E	17° 21' 20,0" N
CJ24	153° 07' 30,0" E	17° 19' 00,0" N	153° 07' 30,0" E	17° 21' 20,0" N	153° 10' 00,0" E	17° 21' 20,0" N	153° 10' 00,0" E	17° 19' 00,0" N
CK24	153° 10' 00,0" E	17° 19' 00,0" N	153° 10' 00,0" E	17° 21' 20,0" N	153° 12' 30,0" E	17° 21' 20,0" N	153° 12' 30,0" E	17° 19' 00,0" N
CL24	153° 12' 30,0" E	17° 19' 00,0" N	153° 12' 30,0" E	17° 21' 20,0" N	153° 15' 00,0" E	17° 21' 20,0" N	153° 15' 00,0" E	17° 19' 00,0" N
CL25	153° 12' 30,0" E	17° 16' 40,0" N	153° 12' 30,0" E	17° 19' 00,0" N	153° 15' 00,0" E	17° 19' 00,0" N	153° 15' 00,0" E	17° 16' 40,0" N
Block number	Coordinates of corners of block							
	X ₁	Y ₁	X ₂	Y ₂	X ₃	Y ₃	X ₄	Y ₄
Volcanologist Guyot								
BG5	151° 55' 00,0" E	18° 03' 20,0" N	151° 55' 00,0" E	18° 05' 40,0" N	151° 57' 30,0" E	18° 05' 40,0" N	151° 57' 30,0" E	18° 03' 20,0" N

BG6	151° 55' 00,0" E	18° 01' 00,0" N	151° 55' 00,0" E	18° 03' 20,0" N	151° 57' 30,0" E	18° 03' 20,0" N	151° 57' 30,0" E	18° 01' 00,0" N
BH6	151° 57' 30,0" E	18° 01' 00,0" N	151° 57' 30,0" E	18° 03' 20,0" N	152° 00' 00,0" E	18° 03' 20,0" N	152° 00' 00,0" E	18° 01' 00,0" N
BG7	151° 55' 00,0" E	17° 58' 40,0" N	151° 55' 00,0" E	18° 01' 00,0" N	151° 57' 30,0" E	18° 01' 00,0" N	151° 57' 30,0" E	17° 58' 40,0" N
BH7	151° 57' 30,0" E	17° 58' 40,0" N	151° 57' 30,0" E	18° 01' 00,0" N	152° 00' 00,0" E	18° 01' 00,0" N	152° 00' 00,0" E	17° 58' 40,0" N
BI6	152° 00' 00,0" E	18° 01' 00,0" N	152° 00' 00,0" E	18° 03' 20,0" N	152° 02' 30,0" E	18° 03' 20,0" N	152° 02' 30,0" E	18° 01' 00,0" N
BI7	152° 00' 00,0" E	17° 58' 40,0" N	152° 00' 00,0" E	18° 01' 00,0" N	152° 02' 30,0" E	18° 01' 00,0" N	152° 02' 30,0" E	17° 58' 40,0" N
BJ7	152° 02' 30,0" E	17° 58' 40,0" N	152° 02' 30,0" E	18° 01' 00,0" N	152° 05' 00,0" E	18° 01' 00,0" N	152° 05' 00,0" E	17° 58' 40,0" N
BH8	151° 57' 30,0" E	17° 56' 20,0" N	151° 57' 30,0" E	17° 58' 40,0" N	152° 00' 00,0" E	17° 58' 40,0" N	152° 00' 00,0" E	17° 56' 20,0" N
BI8	152° 00' 00,0" E	17° 56' 20,0" N	152° 00' 00,0" E	17° 58' 40,0" N	152° 02' 30,0" E	17° 58' 40,0" N	152° 02' 30,0" E	17° 56' 20,0" N
BJ6	152° 02' 30,0" E	18° 01' 00,0" N	152° 02' 30,0" E	18° 03' 20,0" N	152° 05' 00,0" E	18° 03' 20,0" N	152° 05' 00,0" E	18° 01' 00,0" N
BK6	152° 05' 00,0" E	18° 01' 00,0" N	152° 05' 00,0" E	18° 03' 20,0" N	152° 07' 30,0" E	18° 03' 20,0" N	152° 07' 30,0" E	18° 01' 00,0" N
BL6	152° 07' 30,0" E	18° 01' 00,0" N	152° 07' 30,0" E	18° 03' 20,0" N	152° 10' 00,0" E	18° 03' 20,0" N	152° 10' 00,0" E	18° 01' 00,0" N
BM6	152° 10' 00,0" E	18° 01' 00,0" N	152° 10' 00,0" E	18° 03' 20,0" N	152° 12' 30,0" E	18° 03' 20,0" N	152° 12' 30,0" E	18° 01' 00,0" N
BM7	152° 10' 00,0" E	17° 58' 40,0" N	152° 10' 00,0" E	18° 01' 00,0" N	152° 12' 30,0" E	18° 01' 00,0" N	152° 12' 30,0" E	17° 58' 40,0" N
BG8	151° 55' 00,0" E	17° 56' 20,0" N	151° 55' 00,0" E	17° 58' 40,0" N	151° 57' 30,0" E	17° 58' 40,0" N	151° 57' 30,0" E	17° 56' 20,0" N
BG9	151° 55' 00,0" E	17° 54' 00,0" N	151° 55' 00,0" E	17° 56' 20,0" N	151° 57' 30,0" E	17° 56' 20,0" N	151° 57' 30,0" E	17° 54' 00,0" N
BH9	151° 57' 30,0" E	17° 54' 00,0" N	151° 57' 30,0" E	17° 56' 20,0" N	152° 00' 00,0" E	17° 56' 20,0" N	152° 00' 00,0" E	17° 54' 00,0" N
BI9	152° 00' 00,0" E	17° 54' 00,0" N	152° 00' 00,0" E	17° 56' 20,0" N	152° 02' 30,0" E	17° 56' 20,0" N	152° 02' 30,0" E	17° 54' 00,0" N
BJ9	152° 02' 30,0" E	17° 54' 00,0" N	152° 02' 30,0" E	17° 56' 20,0" N	152° 05' 00,0" E	17° 56' 20,0" N	152° 05' 00,0" E	17° 54' 00,0" N

Annex II

Map of the general location of the proposed reserved area (area 1) and exploration area (area 2)

