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Report and recommendations to the Council of the International Seabed Authority relating to an application for approval of a plan of work for exploration for polymetallic sulphides by the Government of the Russian Federation

Submitted by the Legal and Technical Commission

I. Introduction

1. On 24 December 2010, the Secretary-General of the International Seabed Authority received an application for the approval of a plan of work for exploration for polymetallic sulphides in the Area. The application was submitted pursuant to the Regulations on prospecting and exploration for polymetallic sulphides in the Area (ISBA/16/A/12/Rev.1, annex) by the Government of the Russian Federation. The area under application consists of 100 blocks measuring approximately 10 kilometres by 10 kilometres each which are grouped into seven clusters, each containing from 8 to 36 blocks. The clusters are not contiguous but proximate and confined within a rectangular area covering 216,622 square kilometres.

2. In accordance with regulation 22 (c) of the Regulations, on 18 January 2011, the Secretary-General notified all members of the Authority of the receipt of the application and circulated information of a general nature concerning the application. In accordance with regulation 23, the Secretary-General further informed the members of the Legal and Technical Commission, by letter dated 19 January 2011, of the receipt of that application and that the application had been placed as an item on the agenda of the Commission at its next meeting.

II. Methodology and 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 annex III, article 6, of 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 and, as applicable, had satisfactorily discharged its obligations under any previous contract with the Authority. The Commission is then required to determine, in accordance with regulation 23 (4) of the Regulations and its procedure, whether the proposed plan of work will provide for effective protection of human health and safety and effective protection and preservation of the marine environment and will 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. Regulation 23 (5) provides that:

If the Commission makes the determinations specified in paragraph 3 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, the Commission had regard to 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 of 10 December 1982, in accordance with regulation 23 (10) of the Regulations.

B. Consideration of the application

5. The Commission considered the application in closed meetings on 8 July 2011.

6. Prior to commencing a detailed examination of the application, the Commission invited the applicant's representative, Sergei Efimovich Donskoi, Deputy Minister, accompanied by Mikhail Sergeev, Chief Geologist of the Polar Marine Geosurvey Expedition, and Georgy Cherkashov, Deputy Director of the VNIIOkeangeologia, 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.

III. Summary of basic information regarding the application

A. Identification of the applicant

7. Name of applicant: Ministry of Natural Resources and Ecology of the Russian Federation.
8. Address of applicant:
 - (a) Street address: Russia, 123995, Moscow, Bolshaya Gruzinskaya Street, 4/6.
 - (b) Postal address: Russia, 123995, Moscow, Bolshaya Gruzinskaya Street, 4/6.
 - (c) Telephone number: 7 499 254 48 00, 7 499 254 01 74, 7 499 254 81 55;
 - (d) Fax number: 7 499 254 43 10, 7 499 254 66 10, 7 499 254 33 61;
 - (e) E-mail address: gageel@mnr.gov.ru, tbykova@mnr.gov.ru.
9. Applicant's designated representative:
 - (a) Sergei Efimovich Donskoi, Deputy Minister for Natural Resources and Ecology.
 - (b) Street address of applicant's designated representative: as above;
 - (c) Postal address: as above;
 - (d) Telephone number: 7 499 254 03 66;
 - (e) Fax number: 7 499 254 43 10, 7 499 254 66 10;
 - (f) E-mail address: sed@mnr.gov.ru.
10. Applicant's place of registration and principal place of business/domicile: Russia, 123995, Moscow, Bolshaya Gruzinskaya Street, 4/6.
11. The applicant is a State party to the Convention.
12. Date of deposit of instrument of ratification by the Russian Federation of the United Nations Convention on the Law of the Sea: 12 March 1997; date of the 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: 12 March 1997.

B. Area of application

13. The application area is located in the central part of the Atlantic Ocean in the axial zone of the Mid-Atlantic Ridge. It includes 100 blocks measuring approximately 10 kilometres by 10 kilometres each but not exceeding 100 square kilometres. The blocks under application are grouped into seven clusters each containing from 8 to 36 blocks. The clusters of blocks of polymetallic sulphides are not contiguous but are proximate and confined within a rectangular area covering 216,622 square kilometres. The longest side of the rectangular area is 897 kilometres. The coordinates and general location of the areas under application are shown in the annex to the present document.

C. Other information

14. Date of receipt of application: 24 December 2010.
15. Previous contracts with the Authority: the applicant has not been previously awarded any contract with the Authority.
16. Undertakings: the applicant attached a written undertaking dated 29 October 2010 and signed by the Deputy Minister, S. E. Donskoi, in compliance with regulation 15 of the Regulations.
17. The applicant elects to offer an equity interest in a joint venture arrangement in accordance with regulation 19.
18. The applicant has paid a fee of \$500,000 for its application in accordance with regulation 21 (1) (a) of the Regulations.

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

19. The following technical documents were submitted in the application:
 - (a) Certificate of sponsorship issued by the applicant;
 - (b) Information relating to the area under application:
 - (i) Chart of the location of the blocks;
 - (ii) A list of the coordinates of the corners of blocks under application;
 - (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) Indicative plan of work for exploration;
 - (f) Training programme;
 - (g) Written undertakings by the applicant;
 - (h) Document designating the Deputy Minister of the Ministry of Natural Resources and Ecology as the representative of the applicant and authorizing him to sign the application for approval of the plan of work for exploration.

V. Consideration of financial and technical qualifications of the applicant

A. Financial capacity

20. In evaluating the financial capacity of the applicant, the Commission noted that the applicant had declared its financial capacity to carry out the proposed plan of work for exploration and to fulfil its financial obligations to the Authority. The Commission was provided with a statement dated 29 October 2010 and signed by

the designated representative of the applicant, certifying that the applicant would have the necessary funds to meet the estimated minimum expenditures under the proposed plan of work and to fulfil its financial obligations.

B. Technical capacity

21. The Commission was provided with technical information in relation to the applicant's experience and skills in the field of scientific research on polymetallic sulphide deposits. The applicant further stated that specialized Russian institutes and the Russian Academy of Sciences had been conducting marine scientific studies of polymetallic sulphides in the Area since 1993. Moreover, in recent years, the applicant itself has carried out studies of the ore-bearing capacity of the axial zone of the Mid-Atlantic Ridge, including the location of the proposed application area, almost every year.

22. The Commission was provided with information related to the prevention, reduction and control of hazards and possible impact to the marine environment. This included the description of a plan for a programme for oceanographic and environmental studies at sites adjacent to the sites of pilot mining on inactive ore sites. In addition, the applicant proposed to conduct environmental studies at active sites inhabited by hydrothermal fauna. This is to ensure that the exploration activities will have minimal impact on the marine environment. It enclosed a plan of action to take necessary measures to prevent, reduce and control pollution and other hazards to the marine environment arising from the exploration activities. It also enclosed a description of a monitoring programme and proposed measures for the prevention, reduction and control of pollution and other hazards, as well as their possible impact, in the marine environment. The applicant also stated that it welcomed the participation of the Authority and the international scientific community in the development of the parameters and guidelines for the establishment of environmental baselines during the exploration phase.

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

23. In accordance with regulation 20 of the Regulations, the applicant submitted 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, such as studies to be undertaken in respect of the environmental, technical, economic and other appropriate factors that must be taken into account in exploration;

(b) An undertaking to provide 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. Such studies would enable an assessment of the potential environmental impact including, but not restricted to, the impact on biodiversity of the proposed exploration activities, 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 impact, to the marine environment;

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

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

24. The Commission was satisfied that the information presented met the requirements of the Regulations and noted that it looked forward to the submission of reports, including relevant data, by the applicant as required by the Regulations and any recommendations for guidance to be issued by the Commission in due course. The Commission also acknowledged with appreciation that, in response to questions by the Commission, the applicant's representatives had indicated their willingness to provide the Authority with access to extensive historical data sets from marine scientific research conducted by the Russian Federation over many years on the Mid-Atlantic Ridge.

VII. Training programme

25. The applicant indicated that, in accordance with regulation 29 and of annex 4, section 8, of the Regulations, the contractor will develop training programmes in cooperation with the Authority and will submit the programmes to the Authority for approval.

VIII. Conclusion and recommendations

26. Having examined the particulars submitted by the applicant, which are summarized in sections III to VII above, the Commission is satisfied that the application has been duly submitted in accordance with the Regulations and that the applicant is a qualified applicant within the meaning of annex III, article 4, of the Convention. The Commission is further satisfied that the applicant:

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

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

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

27. The Commission is satisfied that none of the conditions in regulation 23 (6) of the Regulations apply.

28. With respect to the proposed plan of work for exploration, 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.

29. Accordingly, pursuant to regulation 23 (5), the Commission recommends to the Council that the plan of work for exploration for polymetallic sulphides submitted by the Government of the Russian Federation be approved.

Annex

List of coordinates and map of general location of the area under application

<i>Block number</i>	<i>Longitude</i>	<i>Latitude</i>	<i>Longitude (decimal degrees)</i>	<i>Latitude (decimal degrees)</i>	<i>Area km²</i>
1	45° 43' 22.26" W	20° 49' 24.82" N	-45.72285132	20.82356118	100
	45° 43' 23.82" W	20° 54' 50.08" N	-45.72328349	20.91391182	
	45° 49' 8.22" W	20° 49' 23.26" N	-45.81894965	20.82312901	
	45° 49' 9.98" W	20° 54' 48.52" N	-45.81943926	20.91347761	
2	45° 37' 36.30" W	20° 49' 26.18" N	-45.62675069	20.82393949	100
	45° 37' 37.65" W	20° 54' 51.45" N	-45.62712542	20.91429192	
	45° 43' 22.26" W	20° 49' 24.82" N	-45.72285132	20.82356118	
	45° 43' 23.82" W	20° 54' 50.08" N	-45.72328349	20.91391182	
3	45° 43' 20.72" W	20° 43' 59.55" N	-45.72242145	20.73320958	100
	45° 43' 22.26" W	20° 49' 24.82" N	-45.72285132	20.82356118	
	45° 49' 6.47" W	20° 43' 58.01" N	-45.81846264	20.73277945	
	45° 49' 8.22" W	20° 49' 23.26" N	-45.81894965	20.82312901	
4	45° 37' 34.96" W	20° 44' 0.91" N	-45.62637796	20.7335861	100
	45° 37' 36.30" W	20° 49' 26.18" N	-45.62675069	20.82393949	
	45° 43' 20.72" W	20° 43' 59.55" N	-45.72242145	20.73320958	
	45° 43' 22.26" W	20° 49' 24.82" N	-45.72285132	20.82356118	
5	45° 43' 19.18" W	20° 38' 34.29" N	-45.72199387	20.64285702	100
	45° 43' 20.72" W	20° 43' 59.55" N	-45.72242145	20.73320958	
	45° 49' 4.72" W	20° 38' 32.74" N	-45.81797823	20.64242893	
	45° 49' 6.47" W	20° 43' 58.01" N	-45.81846264	20.73277945	
6	45° 49' 2.99" W	20° 33' 7.48" N	-45.81749642	20.55207746	100
	45° 49' 4.72" W	20° 38' 32.74" N	-45.81797823	20.64242893	
	45° 54' 48.32" W	20° 33' 5.75" N	-45.91342167	20.55159832	
	45° 54' 50.26" W	20° 38' 31.01" N	-45.91396001	20.6419475	
7	45° 43' 17.65" W	20° 33' 9.01" N	-45.72156858	20.55250351	100
	45° 43' 19.18" W	20° 38' 34.29" N	-45.72199387	20.64285702	
	45° 49' 2.99" W	20° 33' 7.48" N	-45.81749642	20.55207746	
	45° 49' 4.72" W	20° 38' 32.74" N	-45.81797823	20.64242893	
8	45° 37' 30.98" W	20° 27' 45.07" N	-45.62527168	20.46252021	100
	45° 37' 32.30" W	20° 33' 10.36" N	-45.62563846	20.55287645	
	45° 43' 16.12" W	20° 27' 43.74" N	-45.72114557	20.46214904	
	45° 43' 17.65" W	20° 33' 9.01" N	-45.72156858	20.55250351	
9	45° 31' 45.82" W	20° 27' 46.22" N	-45.52939581	20.46283852	100
	45° 31' 46.94" W	20° 33' 11.51" N	-45.52970635	20.55319629	

<i>Block number</i>	<i>Longitude</i>	<i>Latitude</i>	<i>Longitude (decimal degrees)</i>	<i>Latitude (decimal degrees)</i>	<i>Area km²</i>
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	45° 37' 32.30" W	20° 33' 10.36" N	-45.62563846	20.55287645	
10	45° 43' 10.11" W	20° 6' 2.60" N	-45.71947625	20.10072176	100
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11	45° 37' 25.77" W	20° 6' 3.91" N	-45.62382425	20.10108582	100
	45° 37' 27.06" W	20° 11' 29.20" N	-45.62418316	20.19144582	
	45° 43' 10.11" W	20° 6' 2.60" N	-45.71947625	20.10072176	
	45° 43' 11.60" W	20° 11' 27.89" N	-45.71989019	20.19107999	
12	45° 31' 41.41" W	20° 6' 5.03" N	-45.52817029	20.10139803	100
	45° 31' 42.51" W	20° 11' 30.33" N	-45.52847418	20.19175955	
	45° 37' 25.77" W	20° 6' 3.91" N	-45.62382425	20.10108582	
	45° 37' 27.06" W	20° 11' 29.20" N	-45.62418316	20.19144582	
13	46° 0' 21.03" W	20° 0' 32.28" N	-46.00584173	20.0089663	100
	46° 0' 23.10" W	20° 5' 57.55" N	-46.00641754	20.09931863	
	46° 6' 5.14" W	20° 0' 30.23" N	-46.10142823	20.00839773	
	46° 6' 7.41" W	20° 5' 55.49" N	-46.10205874	20.09874727	
14	45° 54' 36.91" W	20° 0' 34.14" N	-45.91025209	20.00948331	100
	45° 54' 38.78" W	20° 5' 59.42" N	-45.9107732	20.09983816	
	46° 0' 21.03" W	20° 0' 32.28" N	-46.00584173	20.0089663	
	46° 0' 23.10" W	20° 5' 57.55" N	-46.00641754	20.09931863	
15	45° 43' 10.11" W	20° 6' 2.60" N	-45.71947625	20.10072176	100
	45° 43' 8.63" W	20° 0' 37.31" N	-45.71906457	20.0103626	
	45° 48' 52.77" W	20° 0' 35.82" N	-45.8146596	20.00994874	
	45° 48' 54.45" W	20° 6' 1.10" N	-45.815126	20.10030588	
16	45° 37' 24.48" W	20° 0' 38.61" N	-45.62346729	20.01072488	100
	45° 37' 25.77" W	20° 6' 3.91" N	-45.62382425	20.10108582	
	45° 43' 10.11" W	20° 6' 2.60" N	-45.71947625	20.10072176	
	45° 43' 8.63" W	20° 0' 37.31" N	-45.71906457	20.0103626	
17	45° 31' 40.33" W	20° 0' 39.73" N	-45.52786806	20.01103557	100
	45° 31' 41.41" W	20° 6' 5.03" N	-45.52817029	20.10139803	
	45° 37' 24.48" W	20° 0' 38.61" N	-45.62346729	20.01072488	
	45° 37' 25.77" W	20° 6' 3.91" N	-45.62382425	20.10108582	
18	46° 0' 18.97" W	19° 55' 7.01" N	-46.00526906	19.91861304	100
	46° 0' 21.03" W	20° 0' 32.28" N	-46.00584173	20.0089663	
	46° 6' 2.88" W	19° 55' 4.97" N	-46.10080116	19.91804724	
	46° 6' 5.14" W	20° 0' 30.23" N	-46.10142823	20.00839773	

<i>Block number</i>	<i>Longitude</i>	<i>Latitude</i>	<i>Longitude (decimal degrees)</i>	<i>Latitude (decimal degrees)</i>	<i>Area km²</i>
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	46° 0' 18.97" W	19° 55' 7.01" N	-46.00526906	19.91861304	
	46° 0' 21.03" W	20° 0' 32.28" N	-46.00584173	20.00896663	
20	45° 43' 7.16" W	19° 55' 12.01" N	-45.71865513	19.92000252	100
	45° 43' 8.63" W	20° 0' 37.31" N	-45.71906457	20.0103626	
	45° 48' 51.10" W	19° 55' 10.53" N	-45.81419574	19.91959068	
	45° 48' 52.77" W	20° 0' 35.82" N	-45.8146596	20.00994874	
21	46° 0' 16.92" W	19° 49' 41.73" N	-46.00469952	19.82825884	100
	46° 0' 18.97" W	19° 55' 7.01" N	-46.00526906	19.91861304	
	46° 6' 0.64" W	19° 49' 39.70" N	-46.10017753	19.82769582	
	46° 6' 2.88" W	19° 55' 4.97" N	-46.10080116	19.91804724	
22	45° 54' 33.19" W	19° 49' 43.57" N	-45.90921839	19.8287708	100
	45° 54' 35.04" W	19° 55' 8.86" N	-45.90973382	19.91912752	
	46° 0' 16.92" W	19° 49' 41.73" N	-46.00469952	19.82825884	
	46° 0' 18.97" W	19° 55' 7.01" N	-46.00526906	19.91861304	
23	45° 48' 49.44" W	19° 49' 45.23" N	-45.81373443	19.82923168	100
	45° 48' 51.10" W	19° 55' 10.53" N	-45.81419574	19.91959068	
	45° 54' 33.19" W	19° 49' 43.57" N	-45.90921839	19.8287708	
	45° 54' 35.04" W	19° 55' 8.86" N	-45.90973382	19.91912752	
24	45° 43' 5.69" W	19° 49' 46.71" N	-45.71824793	19.8296415	100
	45° 43' 7.16" W	19° 55' 12.01" N	-45.71865513	19.92000252	
	45° 48' 49.44" W	19° 49' 45.23" N	-45.81373443	19.82923168	
	45° 48' 51.10" W	19° 55' 10.53" N	-45.81419574	19.91959068	
25	45° 54' 31.34" W	19° 44' 18.29" N	-45.90870579	19.73841315	100
	45° 54' 33.19" W	19° 49' 43.57" N	-45.90921839	19.8287708	
	46° 0' 14.88" W	19° 44' 16.45" N	-46.00413311	19.73790371	
	46° 0' 16.92" W	19° 49' 41.73" N	-46.00469952	19.82825884	
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	45° 54' 31.34" W	19° 44' 18.29" N	-45.90870579	19.73841315	
	45° 54' 33.19" W	19° 49' 43.57" N	-45.90921839	19.8287708	
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	46° 32' 34.29" W	18° 2' 7.65" N	-46.54285927	18.03545946	
	46° 38' 11.29" W	17° 56' 39.60" N	-46.63647011	17.94433355	
	46° 38' 14.29" W	18° 2' 4.86" N	-46.63730342	18.03468296	
28	46° 26' 51.62" W	17° 56' 45.00" N	-46.44767323	17.94583243	100
	46° 26' 54.28" W	18° 2' 10.28" N	-46.44841049	18.03618989	

<i>Block number</i>	<i>Longitude</i>	<i>Latitude</i>	<i>Longitude (decimal degrees)</i>	<i>Latitude (decimal degrees)</i>	<i>Area km²</i>
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	46° 32' 34.29" W	18° 2' 7.65" N	-46.54285927	18.03545946	
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	46° 32' 31.47" W	17° 56' 42.38" N	-46.54207397	17.94510591	
	46° 38' 11.29" W	17° 56' 39.60" N	-46.63647011	17.94433355	
	46° 38' 8.31" W	17° 51' 14.34" N	-46.63564169	17.85398327	
30	46° 26' 48.99" W	17° 51' 19.71" N	-46.4469403	17.8554741	100
	46° 26' 51.62" W	17° 56' 45.00" N	-46.44767323	17.94583243	
	46° 32' 28.66" W	17° 51' 17.11" N	-46.54129329	17.85475148	
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	46° 38' 8.31" W	17° 51' 14.34" N	-46.63564169	17.85398327	
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	46° 43' 47.95" W	17° 51' 11.41" N	-46.7299852	17.85316948	
32	46° 26' 46.36" W	17° 45' 54.41" N	-46.44621168	17.76511491	100
	46° 26' 48.99" W	17° 51' 19.71" N	-46.4469403	17.8554741	
	46° 32' 25.86" W	17° 45' 51.83" N	-46.5405172	17.76439618	
	46° 32' 28.66" W	17° 51' 17.11" N	-46.54129329	17.85475148	
33	46° 21' 4.41" W	17° 40' 31.53" N	-46.35122473	17.67542459	100
	46° 21' 6.85" W	17° 45' 56.84" N	-46.35190185	17.76578829	
	46° 26' 43.75" W	17° 40' 29.12" N	-46.44548737	17.67475486	
	46° 26' 46.36" W	17° 45' 54.41" N	-46.44621168	17.76511491	
34	46° 21' 1.99" W	17° 35' 6.22" N	-46.35055163	17.58506004	100
	46° 21' 4.41" W	17° 40' 31.53" N	-46.35122473	17.67542459	
	46° 26' 41.16" W	17° 35' 3.82" N	-46.44476735	17.58439395	
	46° 26' 43.75" W	17° 40' 29.12" N	-46.44548737	17.67475486	
35	46° 20' 59.58" W	17° 29' 40.90" N	-46.34988254	17.49469464	100
	46° 21' 1.99" W	17° 35' 6.22" N	-46.35055163	17.58506004	
	46° 26' 38.59" W	17° 29' 38.52" N	-46.44405162	17.49403219	
	46° 26' 41.16" W	17° 35' 3.82" N	-46.44476735	17.58439395	
36	46° 26' 28.43" W	17° 7' 57.28" N	-46.44123135	17.13257669	100
	46° 26' 30.95" W	17° 13' 22.59" N	-46.44193003	17.22294183	
	46° 32' 6.76" W	17° 7' 54.79" N	-46.53521241	17.13188512	
	46° 32' 9.44" W	17° 13' 20.09" N	-46.53595662	17.22224639	
37	46° 20' 50.09" W	17° 7' 59.61" N	-46.34724604	17.13322462	100
	46° 20' 52.44" W	17° 13' 24.94" N	-46.3478992	17.22359338	
	46° 26' 28.43" W	17° 7' 57.28" N	-46.44123135	17.13257669	
	46° 26' 30.95" W	17° 13' 22.59" N	-46.44193003	17.22294183	

<i>Block number</i>	<i>Longitude</i>	<i>Latitude</i>	<i>Longitude (decimal degrees)</i>	<i>Latitude (decimal degrees)</i>	<i>Area km²</i>
38	46° 26' 25.93" W	17° 2' 31.96" N	-46.4405369	17.04221072	100
	46° 26' 28.43" W	17° 7' 57.28" N	-46.44123135	17.13257669	
	46° 32' 4.10" W	17° 2' 29.48" N	-46.53447272	17.04152301	
	46° 32' 6.76" W	17° 7' 54.79" N	-46.53521241	17.13188512	
39	46° 20' 47.75" W	17° 2' 34.28" N	-46.34659685	17.04285504	100
	46° 20' 50.09" W	17° 7' 59.61" N	-46.34724604	17.13322462	
	46° 26' 25.93" W	17° 2' 31.96" N	-46.4405369	17.04221072	
	46° 26' 28.43" W	17° 7' 57.28" N	-46.44123135	17.13257669	
40	46° 26' 23.45" W	16° 57' 6.64" N	-46.43984667	16.95184392	100
	46° 26' 25.93" W	17° 2' 31.96" N	-46.4405369	17.04221072	
	46° 32' 1.46" W	16° 57' 4.18" N	-46.53373753	16.95116008	
	46° 32' 4.10" W	17° 2' 29.48" N	-46.53447272	17.04152301	
41	46° 26' 20.98" W	16° 51' 41.31" N	-46.43916067	16.8614763	100
	46° 26' 23.45" W	16° 57' 6.64" N	-46.43984667	16.95184392	
	46° 31' 58.82" W	16° 51' 38.87" N	-46.53300683	16.86079631	
	46° 32' 1.46" W	16° 57' 4.18" N	-46.53373753	16.95116008	
42	46° 31' 56.21" W	16° 46' 13.55" N	-46.53228062	16.77043172	100
	46° 31' 58.82" W	16° 51' 38.87" N	-46.53300683	16.86079631	
	46° 37' 33.88" W	16° 46' 10.97" N	-46.62607789	16.76971292	
	46° 37' 36.65" W	16° 51' 36.26" N	-46.62684851	16.86007342	
43	46° 26' 18.52" W	16° 46' 15.99" N	-46.43847887	16.77110785	100
	46° 26' 20.98" W	16° 51' 41.31" N	-46.43916067	16.8614763	
	46° 31' 56.21" W	16° 46' 13.55" N	-46.53228062	16.77043172	
	46° 31' 58.82" W	16° 51' 38.87" N	-46.53300683	16.86079631	
44	46° 31' 53.61" W	16° 40' 48.24" N	-46.53155887	16.6800663	100
	46° 31' 56.21" W	16° 46' 13.55" N	-46.53228062	16.77043172	
	46° 37' 31.12" W	16° 40' 45.67" N	-46.62531201	16.6793516	
	46° 37' 33.88" W	16° 46' 10.97" N	-46.62607789	16.76971292	
45	46° 26' 16.08" W	16° 40' 50.66" N	-46.43780127	16.68073859	100
	46° 26' 18.52" W	16° 46' 15.99" N	-46.43847887	16.77110785	
	46° 31' 53.61" W	16° 40' 48.24" N	-46.53155887	16.6800663	
	46° 31' 56.21" W	16° 46' 13.55" N	-46.53228062	16.77043172	
46	46° 26' 13.66" W	16° 35' 25.33" N	-46.43712787	16.59036851	100
	46° 26' 16.08" W	16° 40' 50.66" N	-46.43780127	16.68073859	
	46° 31' 51.03" W	16° 35' 22.92" N	-46.5308416	16.58970007	
	46° 31' 53.61" W	16° 40' 48.24" N	-46.53155887	16.6800663	
47	46° 31' 48.46" W	16° 29' 57.60" N	-46.53012877	16.49933302	100
	46° 31' 51.03" W	16° 35' 22.92" N	-46.5308416	16.58970007	

<i>Block number</i>	<i>Longitude</i>	<i>Latitude</i>	<i>Longitude (decimal degrees)</i>	<i>Latitude (decimal degrees)</i>	<i>Area km²</i>
	46° 37' 25.66" W	16° 29' 55.06" N	-46.62379446	16.4986265	
	46° 37' 28.38" W	16° 35' 20.36" N	-46.62455087	16.58898946	
48	46° 37' 17.59" W	16° 13' 39.12" N	-46.62155346	16.22753275	100
	46° 37' 20.26" W	16° 19' 4.43" N	-46.62229576	16.31789814	
	46° 42' 54.31" W	16° 13' 36.47" N	-46.71508532	16.22679727	
	46° 42' 57.13" W	16° 19' 1.77" N	-46.71587039	16.31715834	
49	46° 37' 14.94" W	16° 8' 13.80" N	-46.62081585	16.13716657	100
	46° 37' 17.59" W	16° 13' 39.12" N	-46.62155346	16.22753275	
	46° 42' 51.50" W	16° 8' 11.17" N	-46.71430521	16.13643539	
	46° 42' 54.31" W	16° 13' 36.47" N	-46.71508532	16.22679727	
50	46° 37' 12.30" W	16° 2' 48.48" N	-46.62008291	16.04679958	100
	46° 37' 14.94" W	16° 8' 13.80" N	-46.62081585	16.13716657	
	46° 42' 48.71" W	16° 2' 45.86" N	-46.71353005	16.04607272	
	46° 42' 51.50" W	16° 8' 11.17" N	-46.71430521	16.13643539	
51	46° 37' 12.30" W	16° 2' 48.48" N	-46.62008291	16.04679958	100
	46° 37' 9.68" W	15° 57' 23.15" N	-46.61935464	15.9564318	
	46° 42' 45.94" W	15° 57' 20.55" N	-46.71275981	15.95570924	
	46° 42' 48.71" W	16° 2' 45.86" N	-46.71353005	16.04607272	
52	46° 31' 33.40" W	15° 57' 25.61" N	-46.5259448	15.95711389	100
	46° 31' 35.87" W	16° 2' 50.95" N	-46.52663111	16.04748573	
	46° 37' 12.30" W	16° 2' 48.48" N	-46.62008291	16.04679958	
	46° 37' 9.68" W	15° 57' 23.15" N	-46.61935464	15.9564318	
53	46° 37' 7.07" W	15° 51' 57.83" N	-46.61863102	15.86606323	100
	46° 37' 9.68" W	15° 57' 23.15" N	-46.61935464	15.9564318	
	46° 42' 43.18" W	15° 51' 55.24" N	-46.7119945	15.86534498	
	46° 42' 45.94" W	15° 57' 20.55" N	-46.71275981	15.95570924	
54	46° 31' 30.95" W	15° 52' 0.27" N	-46.52526288	15.86674126	100
	46° 31' 33.40" W	15° 57' 25.61" N	-46.5259448	15.95711389	
	46° 37' 7.07" W	15° 51' 57.83" N	-46.61863102	15.86606323	
	46° 37' 9.68" W	15° 57' 23.15" N	-46.61935464	15.9564318	
55	46° 37' 4.48" W	15° 46' 32.50" N	-46.61791204	15.77569388	100
	46° 37' 7.07" W	15° 51' 57.83" N	-46.61863102	15.86606323	
	46° 42' 40.44" W	15° 46' 29.93" N	-46.71123411	15.77497992	
	46° 42' 43.18" W	15° 51' 55.24" N	-46.7119945	15.86534498	
56	46° 31' 28.51" W	15° 46' 34.92" N	-46.52458534	15.77636785	100
	46° 31' 30.95" W	15° 52' 0.27" N	-46.52526288	15.86674126	
	46° 37' 4.48" W	15° 46' 32.50" N	-46.61791204	15.77569388	
	46° 37' 7.07" W	15° 51' 57.83" N	-46.61863102	15.86606323	

<i>Block number</i>	<i>Longitude</i>	<i>Latitude</i>	<i>Longitude (decimal degrees)</i>	<i>Latitude (decimal degrees)</i>	<i>Area km²</i>
57	44° 50' 4.50" W	14° 58' 37.23" N	-44.83458295	14.97700737	100
	44° 50' 4.75" W	14° 53' 11.74" N	-44.83465211	14.88659493	
	44° 55' 39.32" W	14° 58' 37.40" N	-44.92758961	14.97705587	
	44° 55' 39.43" W	14° 53' 11.92" N	-44.92761989	14.88664311	
58	44° 55' 39.43" W	14° 53' 11.92" N	-44.92761989	14.88664311	100
	44° 55' 39.54" W	14° 47' 46.43" N	-44.92764996	14.79622965	
	45° 1' 14.09" W	14° 47' 46.46" N	-45.02057932	14.79624008	
	45° 1' 14.12" W	14° 53' 11.95" N	-45.02058787	14.88665361	
59	44° 50' 4.75" W	14° 53' 11.74" N	-44.83465211	14.88659493	100
	44° 50' 4.99" W	14° 47' 46.25" N	-44.8347208	14.79618177	
	44° 55' 39.43" W	14° 53' 11.92" N	-44.92761989	14.88664311	
	44° 55' 39.54" W	14° 47' 46.43" N	-44.92764996	14.79622965	
60	45° 1' 14.05" W	14° 42' 20.97" N	-45.02057082	14.70582584	100
	45° 1' 14.09" W	14° 47' 46.46" N	-45.02057932	14.79624008	
	45° 6' 48.46" W	14° 42' 20.88" N	-45.11346176	14.705799	
	45° 6' 48.63" W	14° 47' 46.37" N	-45.11350862	14.79621306	
61	44° 55' 39.54" W	14° 47' 46.43" N	-44.92764996	14.79622965	100
	44° 55' 39.65" W	14° 42' 20.94" N	-44.92767983	14.70581548	
	45° 1' 14.05" W	14° 42' 20.97" N	-45.02057082	14.70582584	
	45° 1' 14.09" W	14° 47' 46.46" N	-45.02057932	14.79624008	
62	44° 50' 4.99" W	14° 47' 46.25" N	-44.8347208	14.79618177	100
	44° 50' 5.24" W	14° 42' 20.76" N	-44.83478903	14.7057679	
	44° 55' 39.54" W	14° 47' 46.43" N	-44.92764996	14.79622965	
	44° 55' 39.65" W	14° 42' 20.94" N	-44.92767983	14.70581548	
63	44° 55' 39.65" W	14° 42' 20.94" N	-44.92767983	14.70581548	100
	44° 55' 39.75" W	14° 36' 55.44" N	-44.92770949	14.6154006	
	45° 1' 14.02" W	14° 36' 55.48" N	-45.02056238	14.6154109	
	45° 1' 14.05" W	14° 42' 20.97" N	-45.02057082	14.70582584	
64	44° 50' 5.24" W	14° 42' 20.76" N	-44.83478903	14.7057679	100
	44° 50' 5.48" W	14° 36' 55.27" N	-44.83485679	14.61535333	
	44° 55' 39.65" W	14° 42' 20.94" N	-44.92767983	14.70581548	
	44° 55' 39.75" W	14° 36' 55.44" N	-44.92770949	14.6154006	
65	44° 55' 40.58" W	13° 53' 31.40" N	-44.92793951	13.89205672	100
	44° 55' 40.68" W	13° 48' 5.89" N	-44.92796736	13.80163569	
	45° 1' 13.76" W	13° 48' 5.92" N	-45.02048903	13.80164539	
	45° 1' 13.79" W	13° 53' 31.44" N	-45.02049696	13.89206649	
66	44° 50' 7.38" W	13° 53' 31.24" N	-44.83538227	13.89201188	100
	44° 50' 7.61" W	13° 48' 5.73" N	-44.83544589	13.80159115	

<i>Block number</i>	<i>Longitude</i>	<i>Latitude</i>	<i>Longitude (decimal degrees)</i>	<i>Latitude (decimal degrees)</i>	<i>Area km²</i>
	44° 55' 40.58" W	13° 53' 31.40" N	-44.92793951	13.89205672	
	44° 55' 40.68" W	13° 48' 5.89" N	-44.92796736	13.80163569	
67	44° 55' 40.68" W	13° 48' 5.89" N	-44.92796736	13.80163569	100
	44° 55' 40.78" W	13° 42' 40.37" N	-44.92799501	13.71121399	
	45° 1' 13.73" W	13° 42' 40.41" N	-45.02048117	13.71122363	
	45° 1' 13.76" W	13° 48' 5.92" N	-45.02048903	13.80164539	
68	44° 50' 7.61" W	13° 48' 5.73" N	-44.83544589	13.80159115	100
	44° 50' 7.83" W	13° 42' 40.21" N	-44.83550905	13.71116976	
	44° 55' 40.68" W	13° 48' 5.89" N	-44.92796736	13.80163569	
	44° 55' 40.78" W	13° 42' 40.37" N	-44.92799501	13.71121399	
69	44° 50' 7.83" W	13° 42' 40.21" N	-44.83550905	13.71116976	100
	44° 50' 8.06" W	13° 37' 14.69" N	-44.83557176	13.6207477	
	44° 55' 40.78" W	13° 42' 40.37" N	-44.92799501	13.71121399	
	44° 55' 40.88" W	13° 37' 14.85" N	-44.92802246	13.62079163	
70	44° 44' 34.88" W	13° 42' 39.93" N	-44.74302355	13.71109093	100
	44° 44' 35.24" W	13° 37' 14.41" N	-44.74312151	13.62066941	
	44° 50' 7.83" W	13° 42' 40.21" N	-44.83550905	13.71116976	
	44° 50' 8.06" W	13° 37' 14.69" N	-44.83557176	13.6207477	
71	45° 1' 13.68" W	13° 31' 49.36" N	-45.02046561	13.53037812	100
	45° 1' 13.70" W	13° 37' 14.88" N	-45.02047336	13.6208012	
	45° 6' 46.37" W	13° 31' 49.27" N	-45.11288145	13.53035351	
	45° 6' 46.53" W	13° 37' 14.80" N	-45.11292421	13.62077642	
72	44° 55' 40.88" W	13° 37' 14.85" N	-44.92802246	13.62079163	100
	44° 55' 40.98" W	13° 31' 49.33" N	-44.92804971	13.53036862	
	45° 1' 13.68" W	13° 31' 49.36" N	-45.02046561	13.53037812	
	45° 1' 13.70" W	13° 37' 14.88" N	-45.02047336	13.6208012	
73	44° 50' 8.06" W	13° 37' 14.69" N	-44.83557176	13.6207477	100
	44° 50' 8.28" W	13° 31' 49.17" N	-44.83563401	13.53032499	
	44° 55' 40.88" W	13° 37' 14.85" N	-44.92802246	13.62079163	
	44° 55' 40.98" W	13° 31' 49.33" N	-44.92804971	13.53036862	
74	44° 44' 35.24" W	13° 37' 14.41" N	-44.74312151	13.62066941	100
	44° 44' 35.59" W	13° 31' 48.89" N	-44.74321877	13.53024724	
	44° 50' 8.06" W	13° 37' 14.69" N	-44.83557176	13.6207477	
	44° 50' 8.28" W	13° 31' 49.17" N	-44.83563401	13.53032499	
75	45° 1' 13.65" W	13° 26' 23.84" N	-45.02045792	13.43995439	100
	45° 1' 13.68" W	13° 31' 49.36" N	-45.02046561	13.53037812	
	45° 6' 46.22" W	13° 26' 23.75" N	-45.11283901	13.43992994	
	45° 6' 46.37" W	13° 31' 49.27" N	-45.11288145	13.53035351	

<i>Block number</i>	<i>Longitude</i>	<i>Latitude</i>	<i>Longitude (decimal degrees)</i>	<i>Latitude (decimal degrees)</i>	<i>Area km²</i>
76	44° 55' 40.98" W	13° 31' 49.33" N	-44.92804971	13.53036862	100
	44° 55' 41.08" W	13° 26' 23.80" N	-44.92807676	13.43994495	
	45° 1' 13.65" W	13° 26' 23.84" N	-45.02045792	13.43995439	
	45° 1' 13.68" W	13° 31' 49.36" N	-45.02046561	13.53037812	
77	44° 50' 8.28" W	13° 31' 49.17" N	-44.83563401	13.53032499	100
	44° 50' 8.50" W	13° 26' 23.65" N	-44.83569581	13.43990163	
	44° 55' 40.98" W	13° 31' 49.33" N	-44.92804971	13.53036862	
	44° 55' 41.08" W	13° 26' 23.80" N	-44.92807676	13.43994495	
78	45° 1' 13.62" W	13° 20' 58.31" N	-45.02045028	13.34953001	100
	45° 1' 13.65" W	13° 26' 23.84" N	-45.02045792	13.43995439	
	45° 6' 46.07" W	13° 20' 58.22" N	-45.11279688	13.34950573	
	45° 6' 46.22" W	13° 26' 23.75" N	-45.11283901	13.43992994	
79	44° 55' 41.08" W	13° 26' 23.80" N	-44.92807676	13.43994495	100
	44° 55' 41.17" W	13° 20' 58.27" N	-44.92810362	13.34952064	
	45° 1' 13.62" W	13° 20' 58.31" N	-45.02045028	13.34953001	
	45° 1' 13.65" W	13° 26' 23.84" N	-45.02045792	13.43995439	
80	44° 50' 8.50" W	13° 26' 23.65" N	-44.83569581	13.43990163	100
	44° 50' 8.73" W	13° 20' 58.12" N	-44.83575716	13.34947761	
	44° 55' 41.08" W	13° 26' 23.80" N	-44.92807676	13.43994495	
	44° 55' 41.17" W	13° 20' 58.27" N	-44.92810362	13.34952064	
81	45° 1' 13.59" W	13° 15' 32.78" N	-45.0204427	13.25910499	100
	45° 1' 13.62" W	13° 20' 58.31" N	-45.02045028	13.34953001	
	45° 6' 45.92" W	13° 15' 32.69" N	-45.11275506	13.25908088	
	45° 6' 46.07" W	13° 20' 58.22" N	-45.11279688	13.34950573	
82	44° 55' 41.17" W	13° 20' 58.27" N	-44.92810362	13.34952064	100
	44° 55' 41.27" W	13° 15' 32.74" N	-44.92813028	13.25909568	
	45° 1' 13.59" W	13° 15' 32.78" N	-45.0204427	13.25910499	
	45° 1' 13.62" W	13° 20' 58.31" N	-45.02045028	13.34953001	
83	44° 50' 8.73" W	13° 20' 58.12" N	-44.83575716	13.34947761	100
	44° 50' 8.94" W	13° 15' 32.59" N	-44.83581805	13.25905296	
	44° 55' 41.17" W	13° 20' 58.27" N	-44.92810362	13.34952064	
	44° 55' 41.27" W	13° 15' 32.74" N	-44.92813028	13.25909568	
84	45° 1' 13.57" W	13° 10' 7.25" N	-45.02043517	13.16867932	100
	45° 1' 13.59" W	13° 15' 32.78" N	-45.0204427	13.25910499	
	45° 6' 45.77" W	13° 10' 7.16" N	-45.11271355	13.16865539	
	45° 6' 45.92" W	13° 15' 32.69" N	-45.11275506	13.25908088	
85	44° 55' 41.27" W	13° 15' 32.74" N	-44.92813028	13.25909568	100
	44° 55' 41.36" W	13° 10' 7.21" N	-44.92815673	13.16867008	

<i>Block number</i>	<i>Longitude</i>	<i>Latitude</i>	<i>Longitude (decimal degrees)</i>	<i>Latitude (decimal degrees)</i>	<i>Area km²</i>
	45° 1' 13.57" W	13° 10' 7.25" N	-45.02043517	13.16867932	
	45° 1' 13.59" W	13° 15' 32.78" N	-45.0204427	13.25910499	
86	44° 50' 8.94" W	13° 15' 32.59" N	-44.83581805	13.25905296	100
	44° 50' 9.16" W	13° 10' 7.06" N	-44.8358785	13.16862766	
	44° 55' 41.27" W	13° 15' 32.74" N	-44.92813028	13.25909568	
	44° 55' 41.36" W	13° 10' 7.21" N	-44.92815673	13.16867008	
87	44° 44' 36.62" W	13° 15' 32.32" N	-44.74350628	13.25897682	100
	44° 44' 36.96" W	13° 10' 6.79" N	-44.74360071	13.16855206	
	44° 50' 8.94" W	13° 15' 32.59" N	-44.83581805	13.25905296	
	44° 50' 9.16" W	13° 10' 7.06" N	-44.8358785	13.16862766	
88	44° 39' 4.30" W	13° 15' 31.92" N	-44.65119522	13.25886727	100
	44° 39' 4.77" W	13° 10' 6.40" N	-44.65132363	13.16844329	
	44° 44' 36.62" W	13° 15' 32.32" N	-44.74350628	13.25897682	
	44° 44' 36.96" W	13° 10' 6.79" N	-44.74360071	13.16855206	
89	44° 55' 41.36" W	13° 10' 7.21" N	-44.92815673	13.16867008	100
	44° 55' 41.46" W	13° 4' 41.68" N	-44.928183	13.07824385	
	45° 1' 13.54" W	13° 4' 41.71" N	-45.0204277	13.07825302	
	45° 1' 13.57" W	13° 10' 7.25" N	-45.02043517	13.16867932	
90	44° 50' 9.16" W	13° 10' 7.06" N	-44.8358785	13.16862766	100
	44° 50' 9.38" W	13° 4' 41.53" N	-44.83593849	13.07820173	
	44° 55' 41.36" W	13° 10' 7.21" N	-44.92815673	13.16867008	
	44° 55' 41.46" W	13° 4' 41.68" N	-44.928183	13.07824385	
91	44° 44' 36.96" W	13° 10' 6.79" N	-44.74360071	13.16855206	100
	44° 44' 37.30" W	13° 4' 41.26" N	-44.74369444	13.07812666	
	44° 50' 9.16" W	13° 10' 7.06" N	-44.8358785	13.16862766	
	44° 50' 9.38" W	13° 4' 41.53" N	-44.83593849	13.07820173	
92	44° 39' 4.77" W	13° 10' 6.40" N	-44.65132363	13.16844329	100
	44° 39' 5.22" W	13° 4' 40.87" N	-44.65145108	13.07801866	
	44° 44' 36.96" W	13° 10' 6.79" N	-44.74360071	13.16855206	
	44° 44' 37.30" W	13° 4' 41.26" N	-44.74369444	13.07812666	
93	44° 55' 41.46" W	13° 4' 41.68" N	-44.928183	13.07824385	100
	44° 55' 41.55" W	12° 59' 16.14" N	-44.92820906	12.98781698	
	45° 1' 13.51" W	12° 59' 16.17" N	-45.02042029	12.98782609	
	45° 1' 13.54" W	13° 4' 41.71" N	-45.0204277	13.07825302	
94	44° 50' 9.38" W	13° 4' 41.53" N	-44.83593849	13.07820173	100
	44° 50' 9.59" W	12° 59' 15.99" N	-44.83599803	12.98777516	
	44° 55' 41.46" W	13° 4' 41.68" N	-44.928183	13.07824385	
	44° 55' 41.55" W	12° 59' 16.14" N	-44.92820906	12.98781698	

<i>Block number</i>	<i>Longitude</i>	<i>Latitude</i>	<i>Longitude (decimal degrees)</i>	<i>Latitude (decimal degrees)</i>	<i>Area km²</i>
95	44° 44' 37.30" W	13° 4' 41.26" N	-44.74369444	13.07812666	100
	44° 44' 37.63" W	12° 59' 15.72" N	-44.74378746	12.98770064	
	44° 50' 9.38" W	13° 4' 41.53" N	-44.83593849	13.07820173	
	44° 50' 9.59" W	12° 59' 15.99" N	-44.83599803	12.98777516	
96	44° 39' 5.22" W	13° 4' 40.87" N	-44.65145108	13.07801866	100
	44° 39' 5.68" W	12° 59' 15.34" N	-44.65157758	12.9875934	
	44° 44' 37.30" W	13° 4' 41.26" N	-44.74369444	13.07812666	
	44° 44' 37.63" W	12° 59' 15.72" N	-44.74378746	12.98770064	
97	44° 55' 41.55" W	12° 59' 16.14" N	-44.92820906	12.98781698	100
	44° 55' 41.65" W	12° 53' 50.60" N	-44.92823493	12.89738948	
	45° 1' 13.49" W	12° 53' 50.63" N	-45.02041293	12.89739853	
	45° 1' 13.51" W	12° 59' 16.17" N	-45.02042029	12.98782609	
98	44° 50' 9.59" W	12° 59' 15.99" N	-44.83599803	12.98777516	100
	44° 50' 9.81" W	12° 53' 50.45" N	-44.83605713	12.89734797	
	44° 55' 41.55" W	12° 59' 16.14" N	-44.92820906	12.98781698	
	44° 55' 41.65" W	12° 53' 50.60" N	-44.92823493	12.89738948	
99	44° 44' 37.63" W	12° 59' 15.72" N	-44.74378746	12.98770064	100
	44° 44' 37.97" W	12° 53' 50.19" N	-44.74387978	12.89727398	
	44° 50' 9.59" W	12° 59' 15.99" N	-44.83599803	12.98777516	
	44° 50' 9.81" W	12° 53' 50.45" N	-44.83605713	12.89734797	
100	44° 44' 37.97" W	12° 53' 50.19" N	-44.74387978	12.89727398	100
	44° 44' 38.30" W	12° 48' 24.65" N	-44.7439714	12.80684669	
	44° 50' 10.02" W	12° 48' 24.91" N	-44.83611578	12.80692015	
	44° 50' 9.81" W	12° 53' 50.45" N	-44.83605713	12.89734797	

