



# HELLENIC NOTICES TO MARINERS

Monthly Edition 6

30<sup>th</sup> June 2024

Notices from 97 up to 115

---

## CONTENTS

---

	<b>Page</b>
<b>I</b> Index of Notices to Mariners	3
<b>II</b> Publication List	5
<b>III</b> Hellenic Notices to Mariners. Updates to Nautical Charts	6
<b>IV</b> Updates to Hellenic List of Lights	10
<b>V</b> Updates to Hellenic Sailing Directions	11
<b>VI</b> Updates to Hellenic Nautical Publications	14
<b>VII</b> Navwarn NAVAREA III	15

---

**Post:** HYDROGRAPHIC SERVICE  
SAFETY OF NAVIGATION DIVISION  
TGN 1040, ATHENS

**Phone:** (+30) 210 655 1772  
(+30) 210 655 1806

**e-mail:** [nasf\\_hnhs@navy.mil.gr](mailto:nasf_hnhs@navy.mil.gr)

**Web:** [www.hnhs.gr](http://www.hnhs.gr)

Captain I. Asteríou HN  
Director

The information provided with the notices to mariners is related to nautical charts and nautical publications issued by the H.N.H.S and must be depicted in its nautical charts and other navigational publications.

The geographic positions referred to in this publication are related to the largest - scale chart, unless stated otherwise.

The limits of sectors and of arcs of visibility, and the alignment of direction lights and leading lights, are given **as seen by an observer from seaward**.

**All bearings refer to the true compass and are measured clockwise from 000° to 359°.**

Responsibility for publication of Annual Notices to Mariners and Monthly Volumes is undertaken by the Safety of Navigation Division of the HNHS.

Mariners are kindly requested to immediately notify the Hellenic Navy Hydrographic Service (T.G.N 1040 Tel: (+30) 210 655 1771, in case they discover either new or possible navigational dangers.

Unlit or unreliable lights must be reported immediately to: Lighthouse Authorities 18510 PIRAEUS.

In addition to postal methods the following communications methods are also available.

Tel: (+30) 210 458 1508, e-mail: [yf\\_epix@navy.mil.gr](mailto:yf_epix@navy.mil.gr) with notification to the Hydrographic Service. This kind of information is crucial and contributes to safety of navigation.

Notices, NAVTEX messages, Navwarns to mariners, Weather bulletins (METEO) and Bulletin messages for leisure boats, are available on [www.hnhs.gr](http://www.hnhs.gr).

Users can supply the Annual Notice to Mariners as well as the monthly edition (not free of charge) as it is defined in the Nautical Publications of the Hellenic Navy Hydrographic Service.

I

**INDEX OF NOTICES TO MARINERS (NtMs)  
AFFECTING NAUTICAL CHARTS AND PUBLICATIONS**

Notice No.	Page	Chart No. - Nautical Publication
<b>97</b>	5	Chart: <b>INT 3735 443</b> New Chart
<b>98</b>	6	Chart: <b>2131</b>
<b>99</b>	6	Chart: <b>22 INT 3418</b>
<b>100</b>	6	Chart: <b>22 INT 3418</b>
<b>101</b>	7	Chart: <b>43 INT 3700</b>
<b>102</b>	7	Chart: <b>412/2</b>
<b>103</b>	8	Chart: <b>444</b>
<b>104</b>	8	Chart: <b>31 INT 3704</b>
<b>105</b>	8	Chart: <b>INT 3773 311/1 WGS84</b>
<b>106</b>	9	Chart: <b>321/1 INT 3777</b>
<b>107</b>	9	Chart: <b>453</b>
<b>108</b>	10	List of Lights
<b>109</b>	11	Pilot Vol. A´
<b>110</b>	11	Pilot Vol. B´
<b>111</b>	11	Pilot Vol. C´
<b>112</b>	12	Pilot Vol. C´
<b>113</b>	12	Pilot Vol. D´
<b>114</b>	12	Pilot Vol. D´
<b>115</b>	14	Catalogue of Nautical Charts & Nautical Publications

## INDEX OF CHARTS AND PUBLICATIONS AFFECTED

Chart No. - Nautical Publication	Notice
Chart: <b>22 INT 3418</b>	<b>99, 100</b>
Chart: <b>31 INT 3704</b>	<b>104</b>
Chart: <b>43 INT 3700</b>	<b>101</b>
Chart: <b>INT 3773 311/1 WGS84</b>	<b>105</b>
Chart: <b>321/1 INT 3777</b>	<b>106</b>
Chart: <b>412/2</b>	<b>102</b>
Chart: <b>INT 3735 443</b> New Chart	<b>97</b>
Chart: <b>444</b>	<b>103</b>
Chart: <b>453</b>	<b>107</b>
Chart: <b>2131</b>	<b>98</b>
List of Lights	<b>108</b>
Pilot Vol. A'	<b>109</b>
Pilot Vol. B'	<b>110</b>
Pilot Vol. C'	<b>111</b>
Pilot Vol. D'	<b>112</b>
Pilot Vol. D'	<b>113</b>
Pilot Vol. D'	<b>114</b>
Catalogue of Nautical Charts & Nautical Publications	<b>115</b>

## II

Notice No. 97/2024

**MEDITERRANEAN SEA - New Chart/ New Edition - Permanently Withdrawn of Hellenic Chart.**

1. Published and available, the follow New Hellenic Chart, in **WGS-84**:

<b>Chart No.</b>	<b>Title of Chart</b>	<b>Scale 1:</b>	<b>Edition</b>
<b>443</b> <b>INT 3735</b> <b>WGS 84</b>	KRÍTI I - EAST CENTRAL PART (WGS-84)	100,000	May. 2024

2. Hellenic chart Permanently Withdrawn:

<b>Chart No.</b>	<b>Title of Chart</b>	<b>Scale 1:</b>	<b>Edition/ N. Edition</b>
<b>443</b>	KRÍTI I - EAST CENTRAL PART	100,000	Aug. 1998

(Information: HNHS)

### III

**Notice No. 98/2024**

**MEDITERRANEAN SEA - HELLÁS - Íónio Sea - Amvrakikós Kólpos - Órmos Kopráinis - Wreck.**

Insert:  , in position: 39° 02' 08" N - 021° 07' 03" E.

**Chart: 2131 "AMVRAKIKÓS GULF"** [*previous update 142/2023*]

(Information: Préveza Port Authorities)

**Notice No. 99/2024**

**MEDITERRANEAN SEA - HELLÁS - Íónio Sea - Messiniakós Kólpos - Aipeía Messínis - Limeniskos Ag. Andréas - Development - Legend.**

Insert: "Εκτελούνται έργα (2024)", in position centred on:

36° 51' 54" N - 021° 55' 26" E.

**Chart: 22 INT 3418** [*previous update 211/2023*]

(Information: ERTEKA Co)

**Notice No. 100/2024**

**MEDITERRANEAN SEA - HELLÁS - South Íónio Pélagos - Submarine Cable.**

Insert submarine cable:  , joining:

1. 35° 53' 47,7" N - 020° 27' 00,0" E (**W** chart limit)
2. 35° 47' 15,9" N - 020° 38' 23,5" E
3. 35° 45' 18,0" N - 020° 46' 10,8" E
4. 35° 46' 11,3" N - 020° 54' 19,1" E
5. 35° 45' 13,9" N - 020° 59' 21,1" E
6. 35° 45' 00,0" N - 020° 59' 58,0" E (**S** chart limit)

**Chart: 22 INT 3418** [*previous update 99/2024*]

(Information: HNHS)

### III

#### Notice No. 101/2024

#### MEDITERRANEAN SEA - HELLÁS - Nótio Kritikó Pélagos - Submarine Cable.

Insert submarine cable:  , joining:

1. 34° 57' 10,1" N - 022° 28' 00,0" E (*W chart limit*)
2. 34° 54' 45,0" N - 022° 36' 00,0" E
3. 34° 38' 54,3" N - 023° 30' 00,0" E
4. 34° 36' 26,5" N - 023° 37' 05,8" E
5. 34° 29' 23,9" N - 023° 52' 17,7" E
6. 34° 26' 58,5" N - 023° 59' 30,6" E
7. 34° 26' 58,3" N - 024° 03' 18,0" E
8. 34° 28' 52,3" N - 024° 08' 45,8" E
9. 34° 28' 45,4" N - 024° 12' 47,0" E
10. 34° 25' 00,0" N - 024° 22' 18,9" E (*S chart limit*)

Chart: **43 INT 3700** [previous update 69/2024]

(Information: HNHS)

#### Notice No. 102/2024

#### MEDITERRANEAN SEA - HELLÁS - Saronikós Kólpos - Órmos Keratsini - New Chart's Limit.

1. Delete plan limits of permanently withdrawn chart «**145**», «PEIRAIÁS HARBOUR AND ITS SECONDARY PORTS» between the parallels:

37° 57' 52" N - 37° 55' 55" E

and the meridians:

023° 35' 35" E - 023° 36' 50" E.

2. Delete Chart number «**145**» in lower left corner of plan.

3. Insert, the new chart limits: «**INT 3762 412/11**» between the parallels:

37° 57' 47,7" N - 37° 55' 19,9" N

and the meridians:

023° 34' 09,3" E - 023° 36' 50" E.

4. Insert with magenta colour, the new chart number «**INT 3762 412/11**» at the lower left corner of the frame.

Chart: **412/2** [previous update 196/2023]

(Information: HNHS)

### III

#### Notice No. 103/2024

#### MEDITERRANEAN SEA - HELLÁS - Nísos Kriti - East Coasts - Wreck.

Relative Navwarn 1446/2023


Insert: , in position: 35° 07' 49" N - 026° 17' 07" E.

Chart: 444 [*previous update 20/2024*]

(Information: Siteía Port Authorities)

#### Notice No. 104/2024

#### MEDITERRANEAN SEA - HELLÁS - Aigaío Sea - Thermaïkós Kólpos Approaches - Paralía Platamóna - Legend.

Insert: «*Εκτελούνται έργα (2024)*», in position centred on:  
39° 59' 50" N - 022° 36' 59" E.

Chart: 31 INT 3704 [*previous update 138/2022*]

(Information: Thessaloníki Port Authorities)

#### Notice No. 105/2024

#### MEDITERRANEAN SEA - HELLÁS - Thermaïkós Kólpos - Órmos Thessaloníkis - Foul.

Relative Navwarn 1689/2023

Insert:  Αλυσίδα PA, in position: 37° 46' 52" N - 023° 32' 26" E.

Chart: INT 3773 311/1 [*previous update 167/2023*] WGS 84 DATUM

(Information: Thessaloníki Port Authorities)



### III

#### Notice No. 106/2024

**MEDITERRANEAN SEA - HELLÁS - Trakikó Sea - Kólpos Kaválas - Néa Karváli - Órmos Váltos - Less Water Area - Legend.**

Relative Navwarn 393/2024

1. Insert, maritime limit, pecked line, joining:

- a. 40° 57' 27.8" N - 024° 30' 25.4" E (shore)
- b. 40° 57' 33.3" N - 024° 30' 38.2" E
- c. 40° 57' 30.1" N - 024° 30' 41.1" E
- d. 40° 57' 24.1" N - 024° 30' 28.8" E
- e. 40° 57' 27.8" N - 024° 30' 25.4" E (shore)

2. Insert legend: «*Less water reported (2024)*», (a)-(e) above.

3. Insert legend: «*Less water reported (2024)*»,  
centred on: 40° 57' 30" N - 024° 30' 36" E.

**Chart: 321/1 INT 3777 «KAVÁLA GULF AND PORTS»** (plan B ANCHORAGES OF NEA KARVÁLI) (1, 2), **321/1 INT 3777 «KAVÁLA GULF AND PORTS»** (3) [*previous update 76/2024*]

(Information: HNHS)

#### Notice No. 107/2024

**MEDITERRANEAN SEA - HELLÁS - Aigaío Sea - Dodekánisa - Nísos Ródos - SE coasts - Fish Haven.**

Relative Navwarn 1680/2023

Insert the accompanying block, centred on: 35° 55' 00" N - 027° 51' 00" E.

**Chart: 453** [*previous update 76/2023*]

(Information: HNHS)

# IV

## GUIDELINES FOR CORRECTIONS TO THE LIST OF LIGHTS (Edition 2021)

1. The amendments (changes, additions, deletions) to the List of Lights publication are included in volume No IV of the monthly editions of Notices to Mariners and are given in columns, as follows:

**a. First Column:** The number of the Hellenic List of Lights (light number) which is affected by the amendments is shown. If the number shown does not exist in the List of lights, then it is a new one and its characteristics must be recorded in the corresponding column of the List of Lights, between the ΑΕΦ.

**b. Other Columns:**

(1) The columns that are not affected are marked with two dashes (--). Data in the columns that are affected should be written down, deleting all old data at the same time.

(2) Instructions for special cases (deleting columns or all columns of a cancelled light) are given in *italics*.

2. It is recommended to record small amendments by hand addition of a new “ΑΕΦ” or larger amendments should be cut out and pasted on the List of Lights.

3. Reference for the record of the monthly corrections is written in the following table.

### UPDATES TO LIST OF LIGHTS

#### Notice No. 108/2024

1	2	3	4	5	6	7	8
4495	--	--	37 44.59 23 32.42	--	-	-	--
<i>N 4153</i>	--	Mole. Head		Fl R 2s 0.3+ <u>1.7</u> =2s		Metal framework with gallery, metal column and red band. Fig. 21	
5681	-- --	-- --	38 45.57 22 51.68	--	6	3	--
<i>N4418.5</i>	-- --	-- --		F G		Metal column with green band. Fig. 22	Delete
7668	-- --	-- --	37 45.29 26 58.55	--	-	-	--
<i>N4667.05</i>							

# V

## UPDATES TO SAILING DIRECTIONS

Notice No. 109/2024

**PILOT A´ (1<sup>ST</sup> EDITION 2015) - MEDITERRANEAN SEA - HELLÁS - Íónio Sea - Messiniakós Kólpos - Aipeía Messínis - Limenískos Ág. Andréas - Development.**

**Paragraph 2.268, Page 58**

**line R 36 Add:** "Caution advice due to development works in progress 2024, to protect the coast (construction of groyne & submerged breakwater). The works are carried out up to a distance of approximately 300 meters off the coast. Two (2) groynes and four (4) detached submerged breakwaters are being constructed. The heads of the two (2) groynes marked by temporary flashing yellow lights in the following positions: a. 36° 52' 24.8" N - 21° 55' 24.7" E, b. 36° 51' 46.2" N - 21° 55' 24.4" E, **WGS84**. The three detached submerged breakwaters, with dimensions 90×15 meters, are 45 meters apart and are marked by temporary flashing yellow lights at the positions: a. 36° 52' 04.1" N - 21° 55' 25.3" E, b. 36° 51' 58.5" N - 21° 55' 24.1" E, c. 36° 51' 53.1" N - 21° 55' 22.0" E, **WGS84**. The fourth with the same dimensions is located approximately 600 meters SSW of the third submerged breakwater at position: 36° 51' 33.7" N - 21° 55' 30.9" E, **WGS84**."

(Information: ERTEKA Co)

Notice No. 110/2024

**PILOT B´ (E´ EDITION 2019) - MEDITERRANEAN SEA - HELLÁS - Aigaío Sea - Saronikós Kólpos - Liménas Peiraiá - Pilot Update.**

The above notice to mariners concerns the sailing direction Vol. B´ which is only available in Greek language.

(Information: HNHS)

Notice No. 111/2024

**PILOT C´ (1<sup>ST</sup> EDITION 2011) - MEDITERRANEAN SEA - HELLÁS - Aigaío Sea - Thermaikós Kólpos Approaches - Paralía Platamóna - Development.**

**Paragraph 7.46, line L 51.**

**Add:** «Caution advice due to development works in progress 2024, (construction of submerged breakwater) in Paralía Platamóna area. The works in progress extend at a distance until 120 metres offshore. The works are delimited by the points: a. 39° 59'

## V

38,2" N - 022° 37' 19,6" E, b. 39° 59' 41,1" N - 022° 37' 22,6" E, c. 40° 00' 00,5" N - 022° 36' 41,0" E, d. 40° 00' 00,1" N - 022° 36' 35,6" E, [WGS84](#).»

(Information: Thessaloníki Port Authorities)

**Notice No. 112/2024**

**PILOT C´ (1<sup>ST</sup> EDITION 2011) - MEDITERRANEAN SEA - HELLÁS - Thermaikós Kólpos - Órmos Thessaloníkis - Foul.**

***Paragraph 7.87, Page 297***

***line L 43 Add:*** "Foul ground is located a short distance **W** of the outer limit, of the anchorage area, at approximately position: 40° 36.1' N - 022° 55.12' E, [WGS84](#). The foul ground shall consist of an anchor and chain."

(Information: Thessaloníki Port Authorities)

**Notice No. 113/2024**

**PILOT D´ (1<sup>ST</sup> EDITION 2010) - MEDITERRANEAN SEA - HELLÁS - Trakikó Sea - Kólpos Kaválas - Néa Karváli - Órmos Váltos - Less Water Area.**

***Paragraph 2.77, Page 21***

***line R 2 After:*** "than 2 m.", ***Add:*** "**Caution is required** because depths smaller than those indicated in the chart 321/1 [INT 3777](#) located in the area front of the fishing shelter. The limits area are indicated in the chart 321/1 [INT 3777](#)."

(Information: HNHS)

**Notice No. 114/2024**

**PILOT D´ (1<sup>ST</sup> EDITION 2010) - MEDITERRANEAN SEA - HELLÁS - Aigaío Sea - Dodekánisa - Nísos Ródos - SE coasts - Fish Haven.**

***Paragraph 7.433, Page 235***

***line L 56 Add:*** "**Caution advice** because a fish haven has been established at a distance 0.5 nm almost S of cape Ístros and has dimensions 250 × 150m.

## V

The limits of fish haven are marked by four (4) conical yellow light buoys which have a yellow X topmark and transmit flashing yellow light.”

(Information: HNHS)

## VI

### Notice No. 115/2024

### MEDITERRANEAN SEA - HELLÁS - New Edition, Chart Permanently Withdrawn - Catalogue of Nautical Charts and Nautical Publications Update - (16<sup>th</sup> Edition 2019).

The catalogue of Nautical Charts & Nautical Publications should be corrected as follow:

1. *Page: 37*

- a. Add in column of chart No. «443»

#### Chart No.

443 (INT 3735)

- b. Add in column INTERNATIONAL CHARTS between the chart No. «INT 3734 423 & INT 3736 424» the New Chart.

INT No. - NAT No.	Page
-------------------	------

INT 3735 443	44, 45
--------------	--------

2. *Page: 44*

- a. In “Diagram” delete the plan and number of chart “443”.

- b. Add the New chart between the parallels:

37° 47.25' N - 35° 44.23' N

and the meridians:

24° 43.39' E - 25° 32.84' E.

- c. In the lower right plan limit add the New chart No. 443.

*Page: 45*

1. Complete the column of chart No. «443» as follow.

Chart No.	INT	Title of Chart	Scale	Publication	New Edition
443	3735	KRÍTI - EAST CENTRAL PART (WGS-84)	100 000	2024	-

(Information: HNHS)

## VII

**Navigational Warnings for Mediterranean - Black Sea (area III)  
in force from from June 18th 2024 to June 25th 2024  
Relative Navwarn 13/2024**

### TELEMARTES

#### SECTION A

NAVAREA III Warnings originated from June 18th 2024 to June 25th 2024:

0074/24 BLACK SEA

1.- DRILLING OPERATIONS BY FATIH (IMO 9503770. MMSI 271046008)  
AND SUPPORTED BY ALTAN, KUTSI ILHAN AND MURUVVET ILHAN;  
DAYS 20 JUN24 TO 03 AUG24; IN AREA BOUNDED BY:

42 49.77 N 031 07.28 E

42 51.77 N 031 07.23 E

42 51.82 N 031 09.95 E

42 49.82 N 031 10.00 E

10 NM WIDE BERTH REQUESTED.

CANCEL THIS MSG 032059 UTC AUG24.

2. CANCEL NAVAREA III 0053-24 AND THIS PARAGRAPH.

0075/24 MEDITERRANEAN SEA, BLACK SEA AND AZOV SE

NAVAREA III WARNINGS IN FORCE ON 25 JUN24 AT 0600 UTC.

2022: 0092, 0122, 0124.

2023: 0097.

2024: 0029, 0034, 0041, 0042, 0049, 0058, 0066, 0069, 0071, 0074, 0075.

1.- ONLY THOSE LESS THAN 42 DAYS OLD ARE DAILY BROADCASTED  
ON SAFETYNET AND SAFETYCAST AT 1200 UTC AND 2359 UTC.

2.- ALL NAVAREA III WARNINGS IN FORCE ARE AVAILABLE ON THE  
WEB-SITE

[https://armada.defensa.gob.es/ihm/Aplicaciones/Navareas/Index\\_Navareas\\_xml\\_en.html](https://armada.defensa.gob.es/ihm/Aplicaciones/Navareas/Index_Navareas_xml_en.html)

3.- NEW NAVAREA III WARNINGS ARE ALSO PRINTED IN THE WEEKLY  
EDITION OF SPANISH NOTICES TO MARINERS (SECTION 5).

4.- CANCEL THIS MESSAGE ON 012359 UTC JUL24.

## VII

### SECTION B

Summary of drilling rigs updated to NAVAREA III 0075/24 warning.  
Mediterranean Sea S/SE.

MARIDIVE 520	31-24,0N	030-12,3E
SNEFERU	31-26,2N	032-58,0E
P. Fouad	31-30,9N	032-31,6E
SCARABEO 6	31-36,0N	030-00,1E
ATWOOD AURORA	31-36,3N	030-04,7E
ENSCO DS-6	31-36,6N	029-50,3E
Karous	31-37,8N	032-14,1E
MARI-B	31-44,9N	034-18,3E
JP BUSSEL	31-46,1N	031-20,6E
TEMSAH SE-1	31-48,4N	031-18,4E
Senefru	31-48,9N	030-56,1E
ROSETTA 1	31-50,8N	030-31,2E
MAERSK GUARDIN	31-50,8N	030-38,5E
OCEAN LEXINGTON	31-53,2N	031-53,4E
EI QAHER-2	31-54,3N	031-54,0E
Adryatic 4	31-55,5N	032-31,3E
MAERSK DISCOVERER	32-03,3N	032-18,7E
DISCOVERER AMERICAS	32-15,5N	028-38,7E
ATWOOD BEACOM	32-53,8N	035-01,1E
PRIDE NORTH AMERICA	33-00,3N	033-43,3E
STENA DRILL MAX	33-13,5N	034-17,3E
DIDON	33-47,4N	011-53,0E
HASDRUBAL	34-08,9N	011-36,6E
MISKAR	34-22,4N	011-52,0E
IMO 9705093	35-22,5N	030-06,0E
HALK EL MENZEL	35-55,6N	011-33,7E

#### Adriatic Sea-Ionian Sea.

Aquila 2	40-55,8N	018-19,6E
Bonaccia	43-35,5N	014-21,5E
ANNALISA	44-10,2N	013-06,8E
Steward	44-12,8N	012-46,5E
Annabella	44-13,7N	013-04,7E
Morena I	44-13,8N	012-28,9E
IMO: 8752154; MMSI: 576622000	44-18,2N	012-38,4E
IKA-A	44-21,5N	013-29,3E
IMO: 8768476; MMSI: 577386000	44-26,3N	012-25,3E
IDA-B	44-26,8N	013-29,1E
Armida 1	44-28,5N	012-26,9E



## VII

Tea	44-30,0N	013-01,1E
IRINA	44-31,7N	013-22,8E
IMO 8752283	44-38,1N	013-12,4E
Ana	44-41,0N	013-16,1E
Ivana B	44-41,2N	013-13,1E
VESNA	44-41,2N	013-19,1E
Ivana E	44-44,7N	013-14,8E
IVANA D	44-47,1N	013-15,8E
IZABELA SOUTH	44-57,5N	013-09,1E
OCEAN KING	44-58,5N	013-08,0E
IZABELA NORTH	44-58,8N	013-07,8E
Azov Sea-Black Sea		
IMO 9503770. MMSI 271046008	42-50,7N	031-08,7E
IMO 9503768 MMSI 271046765	42-51,4N	031-16,0E
IMO 9541203, MMSI 271047822	42-51,5N	031-14,4E
GLOBETROTTER 2	43-04,1N	029-28,6E
DEEPWATER CHAMPION	43-52,1N	030-45,6E
SATURN	44-04,1N	029-58,0E
ANA	44-04,3N	029-58,2E
URANUS	44-10,4N	030-08,2E
TAVRIDA	45-21,4N	030-54,2E
B-312	45-34,2N	032-47,3E
UKRAINE (B-319)	45-35,4N	032-42,8E
NUMBER 11	45-40,5N	031-41,1E
SIVASH	45-42,4N	031-52,6E
NUMBER 10	45-42,7N	031-51,5E
Geolog-1	46-31,8N	037-01,0E

ISSN: 2653-9209