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BUREAU GRAVIMÉTRIQUE INTERNATIONAL

BULLETIN D'INFORMATION

N° 82

Juin 1998

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31401 TOULOUSE CEDEX 4
FRANCE

INFORMATIONS for CONTRIBUTORS

Contributors should follow as closely as possible the rules below :

Manuscripts should be typed (single spaced), on one side of plain paper 21 cm x 29,7 cm with a 2 cm margin on the left and right hand sides as well as on the bottom, and with a 3 cm margin at the top (as indicated by the frame drawn on this page).

NOTA : ***The publisher welcomes the manuscripts which have been prepared using WORD 6 for Macintosh and also accepts ASCII files on diskettes 3"5.***

Title of paper. Titles should be carefully worded to include only key words.

Abstract. The abstract of a paper should be informative rather than descriptive. It is not a table of contents. The abstract should be suitable for separate publication and should include all words useful for indexing. Its length should be limited to one typescript page.

Footnotes. Because footnotes are distracting, they should be avoided as much as possible.

Mathematics. For papers with complicated notation, a list of symbols and their definitions should be provided as an appendix. Symbols that must be handwritten should be identified by notes in the margin. Ample space (1.9 cm above and below) should be allowed around equations so that type can be marked for the printer. Where an accent or underscore has been used to designate a special type face (e.g., boldface for vectors, script for transforms, sans serif for tensors), the type should be specified by a note in a margin. Bars cannot be set over superscripts or extended over more than one character. Therefore angle brackets are preferable to accents over characters. Care should be taken to distinguish between the letter O and zero, the letter l and the number one, kappa and k, mu and the letter u, nu and v, eta and n, also subscripts and superscripts should be clearly noted and easily distinguished. Unusual symbols should be avoided.

Acknowledgements. Only significant contributions by professional colleagues, financial support, or institutional sponsorship should be included in acknowledgements.

References. A complete and accurate list of references is of major importance in review papers. All listed references should be cited in text. A complete reference to a periodical gives author (s), title of article, name of journal, volume number, initial and final page numbers (or statement "in press"), and year published. A reference to an article in a book, pages cited, publisher's location, and year published. When a paper presented at a meeting is referenced, the location, dates, and sponsor of the meeting should be given. References to foreign works should indicate whether the original or a translation is cited. Unpublished communications can be referred to in text but should not be listed. Page numbers should be included in reference citations following direct quotations in text. If the same information have been published in more than one place, give the most accessible reference ; e.g. a textbook is preferable to a journal, a journal is preferable to a technical report.

Table. Tables are numbered serially with Arabic numerals, in the order of their citation in text. Each table should have a title, and each column, including the first, should have a heading. Column headings should be arranged to that their relation to the data is clear.

Footnotes for the tables should appear below the final double rule and should be indicated by a, b, c, etc. Each table should be arranged to that their relation to the data is clear.

Illustrations. Original drawings of sharply focused glossy prints should be supplied, with two clear Xerox copies of each for the reviewers. Maximum size for figure copy is (25.4 x 40.6 cm). After reduction to printed page size, the smallest lettering or symbol on a figure should not be less than 0.1 cm high ; the largest should not exceed 0.3 cm. All figures should be cited in text and numbered in the order of citation. Figure legends should be submitted together on one or more sheets, not separately with the figures.

Mailing. Typescripts should be packaged in stout padded or stiff containers ; figure copy should be protected with stiff cardboard.

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BUREAU GRAVIMÉTRIQUE INTERNATIONAL

Toulouse

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INTERNAL MATTERS

GENERAL INFORMATION

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1. HOW TO OBTAIN THE BULLETIN

The Bulletin d'Information of the Bureau Gravimétrique International is issued twice a year, generally at the end of June and end of December.

The Bulletin contains general information on the community, on the Bureau itself. It informs about the data available, about new data sets...

It also contains contributing papers in the field of gravimetry, which are of technical character. More scientifically oriented contributions should better be submitted to appropriate existing journals.

Communications presented at general meeting, workshops, symposia, dealing with gravimetry (e.g. IGC, S.S.G.'s,...) are published in the Bulletin when appropriate - at least by abstract.

Once every four years, an issue contains the National Reports as presented at the International Gravity Commission meeting. Special issues may also appear (once every two years) which contain the full catalogue of the holdings.

About three hundred individuals and institutions presently receive the Bulletin.

You may :

- either request a given bulletin, by its number (81 have been issued as of December 31, 1997 but numbers 2,16, 18,19 are out of print).

- or subscribe for regularly receiving the two bulletins per year (the special issues are obtained at additional cost).

Requests should be sent to:

Mrs. Nicole LESTIEU
CNES/BGI
18, Avenue Edouard Belin
31401 TOULOUSE CEDEX 4 - FRANCE

Bulletins are sent on an exchange basis (free of charge) to individuals, institutions which currently provide informations, data to the Bureau. For other cases, the price of each issue is 75 FF.

2. HOW TO REQUEST DATA

2.1. Stations descriptions Diagrams for Reference, Base Stations (including IGSN 71's)

Request them by number, area, country, city name or any combination of these.

When we have no diagram for a given request, but have the knowledge that it exists in another center, we shall in most cases forward the request to this center or/and tell the inquiring person to contact the center.

Do not wait until the last moment (e.g. when you depart for a cruise) for asking us the information you need: station diagrams can only reach you by mail, in many cases.

2.2. G-Value at Base Stations

Treated as above.

2.3. Mean Anomalies, Mean Geoid Heights, Mean Values of Topography

The geographic area must be specified (polygon). According to the data set required, the request may be forwarded in some cases to the agency which computed the set.

2.4. Gravity Maps

Request them by number (from the catalogue), area, country, type (free-air, Bouguer...), scale, author, or any combination of these.

Whenever available in stock, copies will be sent without extra charges (with respect to usual cost - see § 3.3.2.). If not, two procedures can be used:

- we can make (poor quality) black and white (or ozalide-type) copies at low cost,

- color copies can be made (at high cost) if the user wishes so (after we obtain the authorization of the editor).

The cost will depend on the map, type of work, size, etc... In both cases, the user will also be asked to send his request to the editor of the map before we proceed to copying.

2.5. Gravity Measurements

2.5.1. CD-Roms

The non confidential data, which have been validated by various procedures are available on two CD-ROMs.
The price of these is :

- *800 (Eight hundred) French francs for individual scientists, universities and research laboratories or groups working in geodesy or geophysics.*
- *3000 (Three thousand) French francs for all other users.*

Most essential quantities are given, in a compressed format. The package includes a user's guide and software to retrieve data according to the area, the source code, the country.

2.5.2. Data stored in the general data base

BGI is now using the ORACLE Data Base Management System. One implication is that data are stored in only one format (though different for land and marine data), and that archive files do not exist anymore.

There are two distinct formats for land or sea gravity data, respectively EOL and EOS.

EOL
LAND DATA FORMAT
RECORD DESCRIPTION
126 characters

Col.			
	1-8	B.G.I. source number	(8 char.)
	9-16	Latitude (unit : 0.00001 degree)	(8 char.)
	17-25	Longitude (unit : 0.00001 degree)	(9 char.)
	26-27	Accuracy of position	(2 char.)
		The site of the gravity measurements is defined in a circle of radius R 0 = no information 1 - R <= 5 Meters 2 = 5 < R <= 20 M (approximately 0'01) 3 = 20 < R <= 100 M 4 = 100 < R <= 200 M (approximately 0'1) 5 = 200 < R <= 500 M 6 = 500 < R <= 1000 M 7 = 1000 < R <= 2000 M (approximately 1') 8 = 2000 < R <= 5000 M 9 = 5000 M < R 10...	
	28-29	System of positioning	(2 char.)
		0 = no information 1 = topographical map 2 = trigonometric positioning 3 = satellite	
	30	Type of observation	(1 char.)
		1 = current observation of detail or other observations of a 3rd or 4th order network 2 = observation of a 2nd order national network 3 = observation of a 1st order national network 4 = observation being part of a nation calibration line 5 = coastal ordinary observation (Harbour, Bay, Sea-side...) 6 = harbour base station	
	31-38	Elevation of the station (unit : centimeter)	(8 char.)
	39-40	Elevation type	(2 char.)
		1 = Land 2 = Subsurface 3 = Lake surface (above sea level) 4 = Lake bottom (above sea level) 5 = Lake bottom (below sea level) 6 = Lake surface (above sea level with lake bottom below sea level) 7 = Lake surface (below sea level) 8 = Lake bottom (surface below sea level) 9 = Ice cap (bottom below sea level) 10 = Ice cap (bottom above sea level) 11 = Ice cap (no information about ice thickness)	
	41-42	Accuracy of elevation	(2 char.)
		0 = no information 1 = E <= 0.02 M 2 = .02 < E <= 0.1 M 3 = .1 < E <= 1 4 = 1 < E <= 2 5 = 2 < E <= 5 6 = 5 < E <= 10 7 = 10 < E <= 20 8 = 20 < E <= 50 9 = 50 < E <= 100 10 = E superior to 100 M	
	43-44	Determination of the elevation	(2 char.)
		0 = no information 1 = geometrical levelling (bench mark) 2 = barometrical levelling 3 = trigonometric levelling 4 = data obtained from topographical map 5 = data directly appreciated from the mean sea level 6 = data measured by the depression of the horizon 7 = satellite	
	45-52	Supplemental elevation (unit : centimeter)	(8 char.)
	53-61	**Observed gravity** (unit : microgal)	(9 char.)

62-67	**Free air anomaly** (0.01 mgal)	(6 char.)
68-73	**Bouguer anomaly** (0.01 mgal)	(6 char.)
	Simple Bouguer anomaly with a mean density of 2.67. No terrain correction	
74-76	Estimation standard deviation free-air anomaly (0.1 mgal)	(3 char.)
77-79	Estimation standard deviation bouguer anomaly (0.1 mgal)	(3 char.)
80-85	**Terrain correction** (0.01 mgal)	(6 char.)
	computed according to the next mentioned radius & density	
86-87	Information about terrain correction	(2 char.)
	0 = no topographic correction	
	1 = tc computed for a radius of 5 km (zone H)	
	2 = tc computed for a radius of 30 km (zone L)	
	3 = tc computed for a radius of 100 km (zone N)	
	4 = tc computed for a radius of 167 km (zone 02)	
	11 = tc computed from 1 km to 167 km	
	12 = tc computed from 2.3 km to 167 km	
	13 = tc computed from 5.2 km to 167 km	
	14 =tc (unknown radius)	
	15 = tc computed to zone M (58.8 km)	
	16 = tc computed to zone G (3.5 km)	
	17 = tc computed to zone K (18.8 km)	
	25 = tc computed to 48.6 km on a curved Earth	
	26 = tc computed to 64. km on a curved Earth	
88-91	Density used for terrain correction	(4 char.)
92-93	Accuracy of gravity	(2 char.)
	0 = no information	
	1 = E <= 0.01 mgal	
	2 = .01 < E <= 0.05 mgal	
	3 = .05 < E <= 0.1 mgal	
	4 = 0.1 < E <= 0.5 mgal	
	5 = 0.5 < E <= 1. mgal	
	6 = 1. < E <= 3. mgal	
	7 = 3. < E <= 5. mgal	
	8 = 5. < E <= 10 mgal	
	9 = 10. < E <= 15. mgal	
	10 = 15. < E <= 20. mgal	
	11 = 20. < E mgal	
94-99	Correction of observed gravity (unit : microgal)	(6 char.)
100-105	**Reference station**	(6 char.)
	This station is the base station (BGI number) to which the concerned station is referred	
106-108	Apparatus used for the measurement of G	(3 char.)
	0.. no information	
	1.. pendulum apparatus before 1960	
	2.. latest pendulum apparatus (after 1960)	
	3.. gravimeters for ground measurements in which the variations of G are equilibrated of detected using the following methods :	
	30 = torsion balance (Thyssen...)	
	31 = elastic rod	
	32 = bifilar system	
	34 = Boliden (Sweden)	
	4.. Metal spring gravimeters for ground measurements	
	41 = Frost	
	42 = Askania (GS-4-9-11-12), Graf	
	43 = Gulf, Hoyt (helical spring)	
	44 = North American	
	45 = Western	
	47 = Lacoste-Romberg	
	48 = Lacoste-Romberg, Model D (microgravimeter)	

5.. Quartz spring gravimeter for ground measurements
51 = Norgaard
52 = GAE-3
53 = Worden ordinary
54 = Worden (additional thermostat
55 = Worden worldwide
56 = Cak
57 = Canadian gravity meter, sharpe
58 = GAG-2
59 = SCINTREX CG2
6.. Gravimeters for under water measurements (at the bottom of the sea or of a lake)
60 = Gulf
62 = Western
63 = North American
64 = Lacoste-Romberg

109-111	**Country code** (BGI)	(3 char.)
112	**Confidentiality**	(1 char.)
	0 = without restriction	
	.....1 = with authorization	
	2 = classified	
113	**Validity**	(1 char.)
	0 = no validation	
	1 = good	
	2 = doubtful	
	3 = lapsed	
114-120	Numbering of the station (original)	(7 char.)
121-126	Sequence number	(6 char.)

EOS
SEA DATA FORMAT
RECORD DESCRIPTION
146 characters

Col.			
	1-8	**B.G.I.** source number	(8 char.)
	9-16	**Latitude** (unit : 0.00001 degree)	(8 char.)
	17-25	**Longitude** (unit : 0.00001 degree)	(9 char.)
	26-27	Accuracy of position	(2 char.)
		The site of the gravity measurements is defined in a circle of radius R 0 = no information 1 - R <= 5 Meters 2 = 5 < R <= 20 M (approximately 0'01) 3 = 20 < R <= 100 M 4 = 100 < R <= 200 M (approximately 0'1) 5 = 200 < R <= 500 M 6 = 500 < R <= 1000 M 7 = 1000 < R <= 2000 M (approximately 1') 8 = 2000 < R <= 5000 M 9 = 5000 M < R 10...	
	28-29	System of positioning 0 = no information 1 = Decca 2 = visual observation 3 = radar 4 = loran A 5 = loran C 6 = omega or VLF 7 = satellite 8 = solar/stellar (with sextant)	(2 char.)
	30	Type of observation 1 = individual observation at sea 2 = mean observation at sea obtained from a continuous recording	(1 char.)
	31-38	**Elevation of the station** (unit : centimeter)	(8 char.)
	39-40	Elevation type 1 = ocean surface 2 = ocean submerged 3 = ocean bottom	(2 char.)
	41-42	Accuracy of elevation 0 = no information 1 = E <= 0.02 Meter 2 = .02 < E <= 0.1 M 3 = .1 < E <= 1 4 = 1 < E <= 2 5 = 2 < E <= 5 6 = 5 < E <= 10 7 = 10 < E <= 20 8 = 20 < E <= 50 9 = 50 < E <= 100 10 = E superior to 100 Meters	(2 char.)
	43-44	Determination of the elevation 0 = no information 1 = depth obtained with a cable (meters) 2 = manometer depth 3 = corrected acoustic depth (corrected from Mathew's tables, 1939) 4 = acoustic depth without correction obtained with sound speed 1500 M/sec. (or 820 fathom/sec) 5 = acoustic depth obtained with sound speed 1463 M/sec (800 fathom/sec) 6 = depth interpolated on a magnetic record 7 = depth interpolated on a chart	(2 char.)
	45-52	Supplemental elevation	(8 char.)
	53-61	**Observed gravity** (unit : microgal)	(9 char.)
	62-67	**Free air anomaly** (0.01 mgal)	(6 char.)
	68-73	**Bouguer anomaly** (0.01 mgal) Simple Bouguer anomaly with a mean density of 2.67. No terrain correction	(6 char.)
	74-76	Estimation standard deviation free-air anomaly (0.1 mgal)	(3 char.)

77-79	Estimation standard deviation bouguer anomaly (0.1 mgal)	(3 char.)
80-85	**Terrain correction** (0.01 mgal) *computed according to the next mentioned radius & density*	(6 char.)
86-87	Information about terrain correction 0 = no topographic correction 1 = tc computed for a radius of 5 km (zone H) 2 = tc computed for a radius of 30 km (zone L) 3 = tc computed for a radius of 100 km (zone N) 4 = tc computed for a radius of 167 km (zone 02) 11 = tc computed from 1 km to 167 km 12 = tc computed from 2.3 km to 167 km 13 = tc computed from 5.2 km to 167 km 14 =tc (unknown radius) 15 = tc computed to zone M (58.8 km) 16 = tc computed to zone G (3.5 km) 17 = tc computed to zone K (18.8 km) 25 = tc computed to 48.6 km on a curved Earth 26 = tc computed to 64. km on a curved Earth	(2 char.)
88-91	Density used for terrain correction	(4 char.)
92-93	Mathew's zone *when the depth is not corrected depth, this information is necessary. For example : zone 50* *for the Eastern Mediterranean Sea*	(2 char.)
94-95	Accuracy of gravity 0 = no information 1 = E <= 0.01 mgal 2 = .01 < E <= 0.05 mgal 3 = .05 < E <= 0.1 mgal 4 = 0.1 < E <= 0.5 mgal 5 = 0.5 < E <= 1. mgal 6 = 1. < E <= 3. mgal 7 = 3. < E <= 5. mgal 8 = 5. < E <= 10. mgal 9 = 10. < E <= 15. mgal 10 = 15 < E <= 20. mgal 11 = 20. < E mgal	(2 char.)
96-101	Correction of observed gravity (unit : microgal)	(6 char.)
102-110	Date of observation *in Julian day - 2 400 000 (unit : 1/10 000 of day)*	(9 char.)
111-113	Velocity of the ship (0.1 knot)	(3 char.)
114-118	Eötvös correction (0.1 mgal)	(5 char.)
119-121	**Country code** (BGI)	(3 char.)
122	**Confidentiality** 0 = without restriction 1 = with authorization 2 = classified	(1 char.)
123	**Validity** 0 = no validation 1 = good 2 = doubtful 3 = lapsed	(1 char.)
124-130	Numbering of the station (original)	(7 char.)
131-136	**Sequence number**	(6 char.)
137-139	**Leg number**	(3 char.)
140-145	**Reference station**	(6 char.)

Whenever given, the theoretical gravity (γ_o), free-air anomaly (FA), Bouguer anomaly (BO) are computed in the 1967 geodetic reference system.

The approximation of the closed form of the 1967 gravity formula is used for theoretical gravity at sea level :

$$\gamma_o = 978031.85 * \quad [\, 1 + 0.005278895 * \sin^2(\phi) + 0.000023462 * \sin^4(\phi)\,] \text{ , mgals}$$

where ϕ is the geographic latitude.

The formulas used in computing FA and BO are summarized below.

Formulas used in computing free-air and Bouguer anomalies

Symbols used :

g	*: observed value of gravity*
γ	*: theoretical value of gravity (on the ellipsoid)*
Γ	*: vertical gradient of gravity (approximated by 0.3086 mgal/meter)*
H	*: elevation of the physical surface of the land, lake or glacier (H = o at sea surface), positive upward*
D_1	*: depth of water, or ice, positive downward*
D_2	*: depth of a gravimeter measuring in a mine, in a lake, or in an ocean, counted from the surface , positive downward*
G	*: gravitational constant ($667.2\ 10^{-13}\ m^3\ kg^{-1}\ s^{-2}$) $\Rightarrow k = 2\,\pi\,G$*
ρc	*: mean density of the Earth's crust (taken as 2670 kg m^{-3})*
ρ_w^f	*: density of fresh water (1000 kg m^{-3})*
ρ_w^s	*: density of salted water (1027 kg m^{-3})*
ρi	*: density of ice (917 kg m^{-3})*
FA	*: free-air anomaly*
BO	*: Bouguer anomaly*

Formulas :

* *FA : The principle is to compare the gravity of the Earth at its surface with the normal gravity, which first requires in some cases to derive the surface value from the measured value. Then, and until now, FA is the difference between this Earth's gravity value reduced to the geoid and the normal gravity γ_o computed on the reference ellipsoid (classical concept). The more modern concept *, in which the gravity anomaly is the difference between the gravity at the surface point and the normal (ellipsoidal) gravity on the telluroid corresponding point may be adopted in the future depending on other major changes in the BGI data base and data management system.*

* *BO : The basic principle is to remove from the surface gravity the gravitational attraction of one (or several) infinite plate (s) with density depending on where the plate is with respect to the geoid. The conventional computation of BO assumes that parts below the geoid are to be filled with crustal material of density ρ_c and that the parts above the geoid have the density of the existing material (which is removed).*

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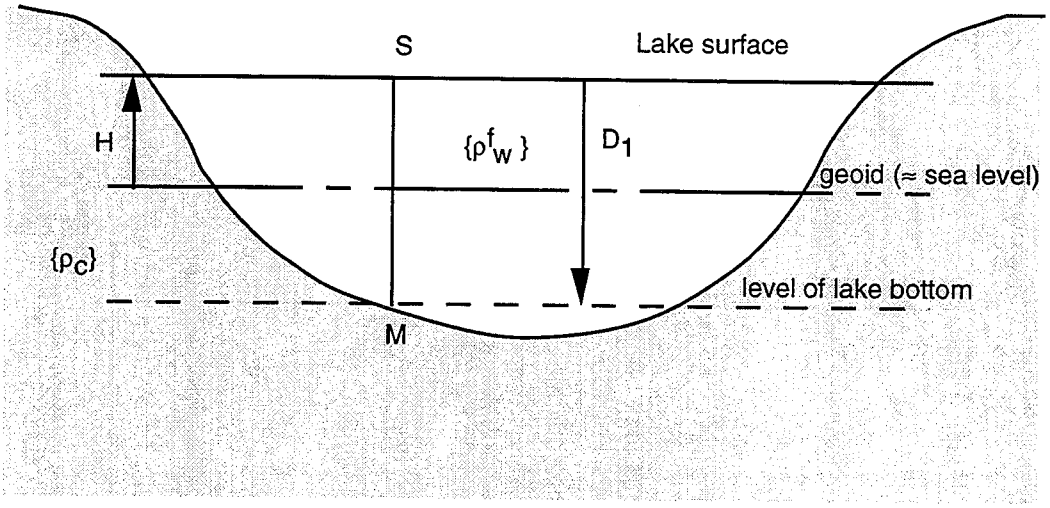
* cf. "On the definition and numerical computation of free air gravity anomalies", by H.G. Wenzel. Bulletin d'Information, BGI, n° 64, pp. 23-40, June 1989.

For example, if a measurement g_M is taken at the bottom of a lake, with the bottom being below sea level, we have :



$g_S = g_M + 2\,k\,\rho_w^f\,D_1 - \Gamma D_1$
$\Rightarrow FA = g_S + \Gamma H - \gamma_O$

Removing the (actual or virtual) topographic masses as said above, we find :

$$\begin{aligned}\delta g_s &= g_s - k\,\rho_w^f\,D_1 + k\,\rho_c(D_1 - H)\\ &= g_s - k\,\rho_w^f\,[H + (D_1 - H)] + k\,\rho_c\,(D_1 - H)\\ &= g_s - k\,\rho_w^f\,H + k\,(\rho_c - \rho_w^f)(D_1 - H)\end{aligned}$$

$$\Rightarrow \quad BO = \delta g_s + \Gamma\,H - \gamma_o$$

The table below covers most frequent cases. It is an update of the list of formulas published before.

It may be noted that, although some formulas look different, they give the same results. For instance BO (C) and BO (D) are identical since :

$$\begin{aligned}-k\,\rho_i H + k(\rho_c - \rho_i)(D_1 - H) &\equiv -k\,\rho_i(H - D_1 + D_1) - k(\rho_c - \rho_i)(H - D_1)\\ &\equiv -k\,\rho_i\,D_1 - k\,\rho_c(H - D_1)\end{aligned}$$

Similarly, BO (6), BO (7) and BO (8) are identical.

Elev. Type	Situation	Formulas
1	Land Observation-surface	$FA = g + \Gamma H - \gamma_o$
		$BO = FA - k \rho_c H$
2	Land Observation-subsurface	$FA = g + 2 k \rho_c D_2 + \Gamma (H - D_2) - \gamma_o$
		$BO = FA - k \rho_c H$
3	Ocean Surface	$FA = g - \gamma_o$
		$BO = FA + k (\rho_c - \rho_w^s) D_1$
4	Ocean submerged	$FA = g + (2 k \rho_w^s - \Gamma) D_2 - \gamma_o$
		$BO = FA + k (\rho_c - \rho_w^s) D_1$
5	Ocean bottom	$FA = g + (2 k \rho_w^s - \Gamma) D_1 - \gamma_o$
		$BO = FA + k (\rho_c - \rho_w^s) D_1$
6	Lake surface above sea level	$FA = g + \Gamma H - \gamma_o$
	with bottom above sea level	$BO = FA - k \rho_w^f D_1 - k \rho_c (H - D_1)$
7	Lake bottom, above sea level	$FA = g + 2 k \rho_w^f D_1 + \Gamma (H - D_1) - \gamma_o$
		$BO = FA - k \rho_w^f D_1 - k \rho_c (H - D_1)$
8	Lake bottom, below sea level	$FA = g + 2 k \rho_w^f D_1 + \Gamma (H - D_1) - \gamma_o$
		$BO = FA - k \rho_w^f H + k (\rho_c - \rho_w^f) (D_1 - H)$
9	Lake surface above sea level	$FA = g + \Gamma H - \gamma_o$
	with bottom below sea level	$BO = FA - k \rho_w^f H + k (\rho_c - \rho_w^f) (D_1 - H)$
A	Lake surface, below sea level (here $H < o$)	$FA = g + \Gamma H - \gamma_o$
		$BO = FA - k \rho_c H + k (\rho_c - \rho_w^f) D_1$
B	Lake bottom, with surface below sea level ($H < o$)	$FA = g + (2 k \rho_w^f - \Gamma) D_1 + \Gamma H - \gamma_o$
		$BO = FA - k \rho_c H + k (\rho_c - \rho_w^f) D_1$
C	Ice cap surface, with bottom below sea level	$FA = g + \Gamma H - \gamma_o$
		$BO = FA - k \rho_i H + k (\rho_c - \rho_i) (D_1 - H)$
D	Ice cap surface, with bottom above sea level	$FA = g + \Gamma H - \gamma_o$
		$BO = FA - k \rho_i D_1 - k \rho_c (H - D_1)$

All requests for data must be sent to :

Mr. Gilles BALMA
Bureau Gravimétrique International
18, Avenue E. Belin - 31401 Toulouse Cedex 4 - France
E-mail : Gilles.Balma@cnes.fr

In case of a request made by telephone, it should be followed by a confirmation letter, or fax. Except in particular case (massive data retrieval, holidays...) requests are satisfied within one month following the reception of the written confirmation, or information are given concerning the problems encountered.

If not specified, the data will be written as tarfiles on DAT cartridge (4 mm). for large amounts of data, or on diskette in the case of small files. The exact physical format will be indicated in each case. Also a FTP anonymous service is available on our computer center.

3. USUAL SERVICES BGI CAN PROVIDE

The list below is not restrictive and other services (massive retrieval, special evaluation and products...) may be provided upon request.

The costs of the services listed below are a revision of the charging policy established in 1981 (and revised in 1989) in view of the categories of users : (1) contributors of measurements and scientists, (2) other individuals and private companies.

The prices given below are in French Francs. They have been effective on January 1, 1992 and may be revised periodically.

3.1. Charging Policy for Data Contributors and Scientists

For these users and until further notice, - and within the limitation of our in house budget, we shall only charge the incremental cost of the services provided. In all other cases, a different charging policy might be applied.

However, and at the discretion of the Director of B.G.I., some of the services listed below may be provided free of charge upon request, to major data contributors, individuals working in universities, especially students ...

3.1.1. Digital Data Retrieval

. on CD-Roms : see 2.5.1.
. on one of the following media :
** printout ..... 2 F/100 lines*
** diskette..... 25 F per diskette (minimum charge : 50 F-*
** magnetic tape ..... 2 F per 100 records*
+ 100 F per DAT cartridge
(if the tape is not to be returned)

. minimum charge : 100 F

. maximum number of points : 100 000 ; massive data retrieval (in one or several batches) will be processed and charged on a case by case basis.

3.1.2. Data Coverage Plots : in Black and White, with Detailed Indices

. 20°x20° blocks, as shown on the next pages (maps 1 and 2) : 400 F each set.

. For any specified area (rectangular configurations delimited by meridians and parallels) : 1 F per degree square : 100 F minimum charge (at any scale, within a maximum plot size of : 90 cm x 180 cm).

. For area inside polygon : same prices as above, counting the area of the minimum rectangle comprising the polygon.

3.1.3. Data Screening

(Selection of one point per specified unit area, in decimal degrees of latitude and longitude, i.e. selection of first data point encountered in each mesh area).

. 5 F/100 points to be screened.

. 100 F minimum charge.

3.1.4. Gridding

(Interpolation at regular intervals Δ in longitude and Δ' in latitude - in decimal degrees) :

. 10 F/($\Delta\Delta'$) per degree square

. minimum charge : 150 F

. maximum area : 40° x 40°

3.1.5. Contour Maps of Bouguer or Free-Air Anomalies

At a specified contour interval Δ (1, 2, 5,... mgal), on a given projection :
10 F/Δ per degree square, plus the cost of gridding (see 3.4) after agreement on grid stepsizes. (at any scale, within a maximum map size for : 90 cm x 180 cm).

. 250 F minimum charge

. maximum area : 40° x 40°

3.1.6. Computation of Mean Gravity Anomalies

(Free-air, Bouguer, isostatic) over Δ xΔ' area : 10F/ΔΔ' per degree square.

. minimum charge : 150 F

. maximum area : 40°x40°

3.2. Charging Policy for Other Individuals or Private Companies

3.2.1. Digital Data Retrieval

. on CD-Roms : see 2.5.1.

. 1 F per measurement for non commercial use (guaranteed by signed agreement), 5 F per measurement in other cases (direct or indirect commercial use - e.g. in case of use for gridding and/or maps to be sold or distributed by the buyer in any project with commercial application). Minimum charge : 500 F

3.2.2. Data Coverage Plots, in Black and White, with Detailed Indices

. 2 F per degree square ; 100 F minimum charge. (maximum plot size = 90 cm x 180 cm)

. For area inside polygon : same price as above, counting the area of the smallest rectangle comprising ihe polygon.

3.2.3. Data Screening

. 1 F per screened point for non commercial use (guaranteed by signed agreement), 5 F per screened point in other cases (cf. 3.2.1.).

. 500 F minimum charge

3.2.4. Gridding

Same as 3.1.4.

3.2.5. Contour Maps of Bouguer or Free-Air Anomalies

Same as 3.1.5.

3.2.6. Computation of Mean Gravity Anomalies

Same as 3.1.6.

3.3. Gravity Maps

The pricing policy is the same for all categories of users

3.3.1. Catalogue of all Gravity Maps

Printout : 200 F
DAT cartrdige (4 mm) 100 F

3.2.2. Maps

. Gravity anomaly maps (excluding those listed below) : 100 F each

. Special maps :

Mean Altitude Maps

FRANCE	*(1: 600 000)*	*1948*	*6 sheets*	*65 FF the set*
WESTERN EUROPE	*(1:2 000 000)*	*1948*	*1 sheet*	*55 FF*
NORTH AFRICA	*(1:2 000 000)*	*1950*	*2 sheets*	*60 FF the set*
MADAGASCAR	*(1:1 000 000)*	*1955*	*3 sheets*	*55 FF the set*
MADAGASCAR	*(1:2 000 000)*	*1956*	*1 sheet*	*60 FF*

Maps of Gravity Anomalies

NORTHERN FRANCE	*Isostatic anomalies*	*(1:1 000 000)*	*1954*	*55 FF*
SOUTHERN FRANCE	*Isostatic anomalies Airy 50*	*(1:1 000 000)*	*1954*	*55 FF*
EUROPE-NORTH AFRICA	*Mean Free air anomalies*	*(1:1 000 000)*	*1973*	*90 FF*

World Maps of Anomalies (with text)

PARIS-AMSTERDAM	*Bouguer anomalies*	*(1:1 000 000)*	*1959-60*	*65 FF*
BERLIN-VIENNA	*Bouguer anomalies*	*(1:1 000 000)*	*1962-63*	*55 FF*
BUDAPEST-OSLO	*Bouguer anomalies*	*(1:1 000 000)*	*1964-65*	*65 FF*
LAGHOUAT-RABAT	*Bouguer anomalies*	*(1:1 000 000)*	*1970*	*65 FF*
EUROPE-AFRICA	*Bouguer Anomalies*	*(1:10 000 000)*	*1975*	*180 FF with text* *120 FF without text*
EUROPE-AFRICA	*Bouguer anomalies-Airy 30*	*(1:10 000 000)*	*1962*	*65 FF*

Charts of Recent Sea Gravity Tracks and Surveys (1:36 000 000)

CRUISES prior to	*1970*	*65 FF*
CRUISES	*1970-1975*	*65 FF*
CRUISES	*1975-1977*	*65 FF*

Miscellaneous

CATALOGUE OF ALL GRAVITY MAPS

listing	*200 FF*
tape	*300 FF*

THE UNIFICATION OF THE GRAVITY NETS OF AFRICA

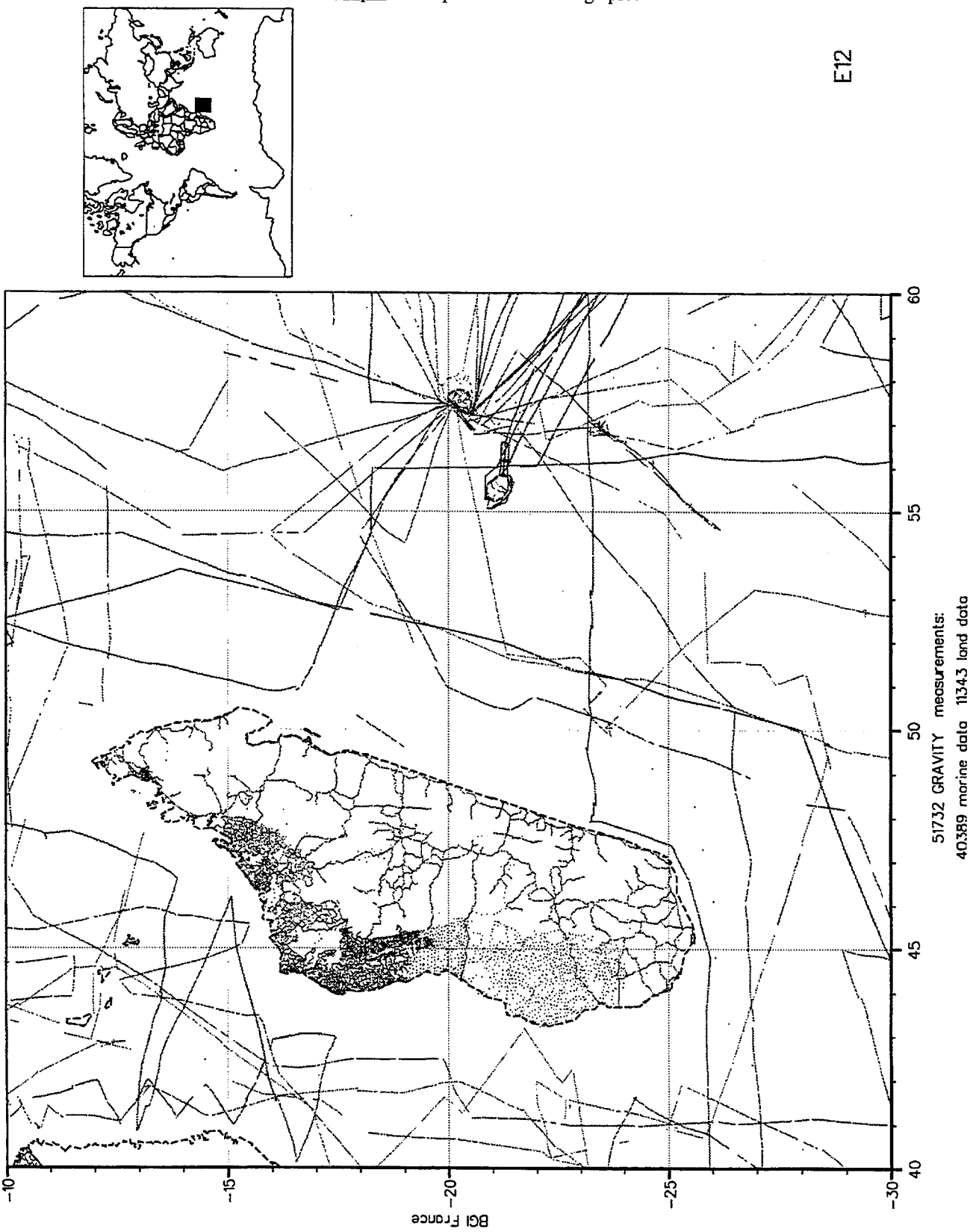
(Vol. 1 and 2) *1979* *150 FF*

. Black and white copy of maps : 150 F per copy

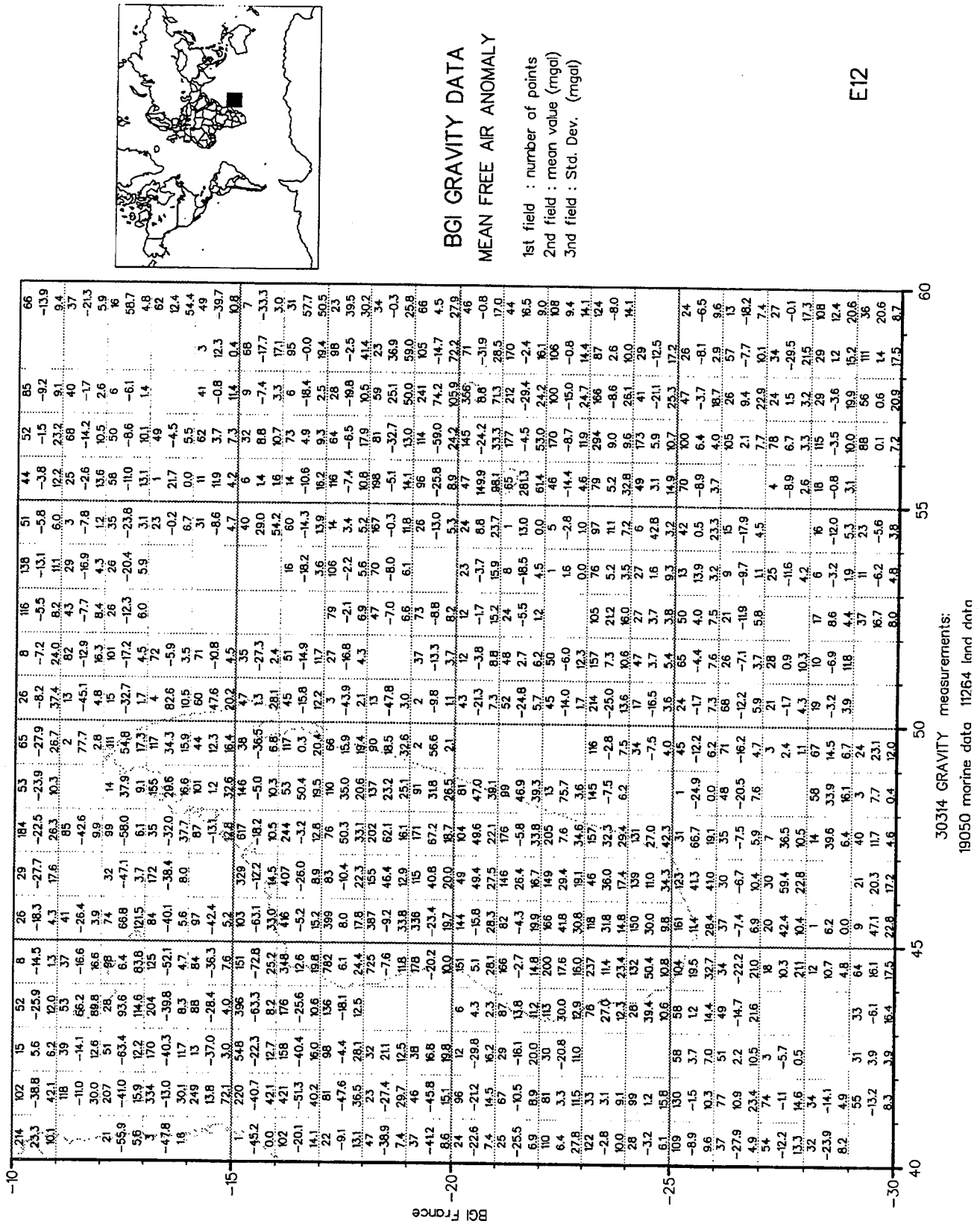
. Colour copy : price according to specifications of request.

Mailing charges will be added for air-mail parcels when "Air-Mail" is requested)

Map 1. Example of data coverage plot



Map 2. Example of detailed index (Data coverage corresponding to Map 1)



4. PROVIDING DATA TO B.G.I.

4.1. Essential Quantities and Information for Gravity Data Submission

1. Position of the site :

- *latitude, longitude (to the best possible accuracy),*
- *elevation or depth :*
  *. for land data : elevation of the site (on the physical surface of the Earth) **
  . for water stations : water depth.

*2. Measured (observed) gravity, corrected to eliminate the periodic gravitational effects of the Sun and Moon, and the instrument drift ***

3. Reference (base) station (s) used. For each reference station (a site occupied in the survey where a previously determined gravity value is available and used to help establish datum and scale for the survey), give name, reference station number (if known), brief description of location of site, and the reference gravity value used for that station. Give the datum of the reference value ; example : IGSN 71.

4.2. Optional Information

The information listed below would be useful, if available. However, none of this information is mandatory.

. Instrumental accuracy :

- *identify gravimeter (s) used in the survey. Give manufacturer, model, and serial number, calibration factor (s) used, and method of determining the calibration factor (s).*

- *give estimate of the accuracy of measured (observed) gravity. Explain how accuracy value was determined.*

. Positioning accuracy :

- *identify method used to determine the position of each gravity measurement site.*

- *estimate accuracy of gravity station positions. Explain how estimate was obtained.*

- *identify the method used to determine the elevation of each gravity measurement site.*

- *estimate accuracy of elevation. Explain how estimate was obtained. Provide supplementary information, for elevation with respect to the Earth's surface or for water depth, when appropriate.*

. Miscellaneous information :

- *general description of the survey.*
  date of survey : organization and/or party conducting survey.
- *if appropriate : name of ship, identification of cruise.*
- *if possible, Eötvös correction for marine data.*

. Terrain correction

Please provide brief description of method used, specify : radius of area included in computation, rock density factor used and whether or not Bullard's term (curvature correction) has been applied.

---

* Give supplementary elevation data for measurements made on towers, on upper floor of buildings, inside of mines or tunnels, atop glacial ice. When applicable, specify whether gravity value applied to actual measurement site or it has been reduced to the Earth's physical surface (surface topography or water surface)
Also give depth of actual measurement site below the water surface for underwater measurements.

** For marine gravity stations, gravity value should be corrected to eliminate effects of ship motion, or this effect should be provided and clearly explained.

. Isostatic gravity

Please specify type of isostatic anomaly computed.
Example : Airy-Heiskanen, T = 30 km.

. Description of geological setting of each site

4.3. Formats

Actually, any format is acceptable as soon as the essential quantities listed in 4.1. are present, and provided that the contributor gives satisfactory explanations in order to interpret his data properly.

The contributor may use the EOL and/or EOS formats as described above, or if he wishes so, the BGI Official Data Exchange Format established by BRGM in 1976 : "Progress Report for the Creation of a Worldwide Gravimetric Data Bank", published in BGI Bull. Info, n° 39, and recalled in Bulletin n° 50 (pages 112-113).

If magnetifc tapes are used, contributors are kindly asked to use 1600 bpi, unlabelled tapes (if possible), with no password, and formatted records of possibly fixed length and a fixed blocksize, too. Tapes are returned whenever specified, as soon as they are copied

PART II

BIBLIOGRAPHY

We give hereafter the complete list of all papers, meeting and workshop reports, which have been published in the Bulletin d'Information since its beginning (May 1960).

We thought that some of this material would be of interest : most facts get diluted in our memories as time flyes and one has a tendency to re-invent the wheel from time to time !

The file printed here is part of the general bibliographic file which is maintained at BGI. It can be obtained on request.

G. Balmino

Bulletin n°1 **01-MAY-60** **ref.: 8534**
LISTE BIBLIOGRAPHIQUE CONCERNANT LES QUESTIONS DE PESANTEUR
Anonymous

Bulletin n°1 **01-MAY-60** **ref.: 8535**
RECENT INFORMATIONS RECEIVED AT BGI SINCE MAY 1961 UNTIL MARCH 1962
Anonymous

Bulletin n° 3 **01-APR-62** **ref.: 8532**
LISTE BIBLIOGRAPHIQUE DU BGI CONCERNANT LES QUESTIONS DE PESANTEUR
Anonymous

Bulletin n° 3 **01-APR-62** **ref.: 8533**
SUMMARY OF MEETINGS HELD IN 1961 - INFORMATIONS RECEIVED AT BGI SINCE MARCH 1961
Anonymous

Bulletin n° 4 **01-JAN-63** **ref.: 8511**
RESOLUTIONS - IVTH IGC MEETING HELD IN PARIS, 10-15 SEPTEMBER, 1962 (FRANCE)
Anonymous

Bulletin n° 4 **01-JAN-63** **ref.: 8512**
VARIATION SECULAIRE DE LA PESANTEUR - THE POTSDAM "G" VALUE & THE DISPLACEMENT OF THE EARTH'S CORE
BARTA G.

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BARTA G.

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RAMSAYER K.

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TENGSTROM E.

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KARNICK H.

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RICE D.

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KNEISSL M.

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XIIIEME ASSEMBLEE GENERALE DE L'UGGI, BERKELEY, 19-31 AOUT 1963 (USA)
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COMOLET-TIRMAN

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TALWANI M.

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CONSTANTINESCU L.

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TENGSTROM E.

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BOULANGER YU. D., PELLINEN L. P.

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Anonymous

Bulletin n° 16 **01-JUN-67** **ref.: 8445**
STATIONS GRAVIMETRIQUES - REMARQUES RELATIVES AU BGI BULL. D'INF. NR. 15 (BELGIQUE, DANEMARK, ESPAGNE, FRANCE, PORTUGAL, SUEDE, SUISSE)
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Bulletin n° 16 **01-JUN-67** **ref.: 8444**
STATIONS GRAVIMETRIQUES - CARTE 6: EMPLACEMENTS MADRID - BARAJAS
Anonymous

Bulletin n° 16 **01-JUN-67** **ref.: 8448**
GRAVITY MEASUREMENTS AT SEA - BIBLIOGRAPHY - APPARATUS
Anonymous

Bulletin n° 16 **01-JUN-67** **ref.: 8450**
GRAVITY MEASUREMENTS AT SEA - CHART 5: LAMONT GEOL. OBS. - VEMA CRUISES (1960-1965) - CONRAD CRUISES (1963-1964)
Anonymous

Bulletin n° 16 **01-JUN-67** **ref.: 8452**
GRAVITY MEASUREMENTS AT SEA - CHART 3: O.R.S., JAPAN (CRUISES 1964-1965 (2))
Anonymous

Bulletin n° 16 **01-JUN-67** **ref.: 8454**
GRAVITY MEASUREMENTS AT SEA - CHART 1: O.G.S., TRIESTE (CRUISES 1964-1966)
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Bulletin n° 16 **01-JUN-67** **ref.: 8455**
GRAVITY MEASUREMENTS AT SEA - 1-A) ADDITIONAL INFORMATION TO BULLETIN NR. 14 (AUSTRALIA, ITALIA, JAPAN, UNITED STATES)
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Bulletin n° 16 **01-JUN-67** **ref.: 8453**
GRAVITY MEASUREMENTS AT SEA - CHART 2: O.R.S., JAPAN (CRUISES 1963-1964 & 1964-1965 (1))
Anonymous

Bulletin n° 16 **01-JUN-67** **ref.: 8451**
GRAVITY MEASUREMENTS AT SEA - CHART 4: G.S.I., JAPAN (CRUISES 1965-1966)
Anonymous

Bulletin n° 16 **01-JUN-67** **ref.: 8449**
GRAVITY MEASUREMENTS AT SEA - FIRST MARINE GEODESY SYMPOSIUM (SEPTEMBER 28-30, 1966) - RESOLUTION
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Bulletin n° 16 **01-JUN-67** **ref.: 8446**
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Bulletin n° 17 **01-DEC-67** **ref.: 8426**
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Bulletin n° 17 **01-DEC-67** **ref.: 8429**
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Bulletin n° 17 **01-DEC-67** **ref.: 8434**
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Bulletin n° 17 **01-DEC-67** **ref.: 8438**
ABSOLUTE GRAVITY MEASUREMENTS - GENERAL REPORT, S.S.G. 4.18
COOK A. H.

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ABSOLUTE GRAVITY MEASUREMENTS - COMPLIMENTARY INFORMATION ON MEASUREMENTS
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Bulletin n° 17 **01-DEC-67** **ref.: 8436**
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GRAVIMETRICAL TEST-WORK - REPORT ON THE CONTINUATION OF THE S.C. "GRAVIMETRICAL TEST-WORK" IN THE ITALIAN WESTALPS
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Bulletin n° 18 **01-MAR-68** **ref.: 8425**
GRAVITY MEASUREMENTS AT SEA - AN ANALYSIS OF THE ERRORS IN GRAVITY MEASUREMENTS AT SEA
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GRAVITY MEASUREMENTS AT SEA - PROGRESS IN SURFACE SHIP GRAVITY MEASUREMENTS AT LAMONT GEOLOGICAL OBSERVATORY
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LISTE DES PUBLICATIONS RECUES AU BGI DE OCTOBRE 1967 A SEPTEMBRE 1968 CONCERNANT LES QUESTIONS DE PESANTEUR
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Bulletin n° 19 **01-DEC-68** **ref.: 8416**
GRAVITY MEASUREMENTS AT SEA - DETAILS SUR LE GEOIDE (EUROPE CENTRALE), B.G.I., CARTE DU GEOIDE
BGI

Bulletin n° 19 **01-DEC-68** **ref.: 8418**
GRAVITY MEASUREMENTS AT SEA - GRAVITY MEASUREMENTS ON THE CONTINENTAL SHELF OF SURINAM
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GRAVITY MEASUREMENTS AT SEA - REPORT ON THE TRIALS OF THE ASKANIA SEA GRAVIMETER TYPE GSS-2 NR. 11 IN R.R.S., JOHN MURRAY, JULY 1967
DAY G. A.

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GRAVITY MEASUREMENTS AT SEA - BILAN DE L'EMPLOI D'UN GRAVIMETRE SUR UN NAVIRE DE SURFACE
GROUCHINSKY Y. P.

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MORELLI C.

Bulletin n° 19 **01-DEC-68** **ref.: 8420**
INFORMATIONS - ADOPTION PAR LE B.I.P.M. DE LA VALEUR DE G ABSOLUE
TERRIEN M.

Bulletin n° 20 **01-MAR-69** **ref.: 8409**
LISTE DES PUBLICATIONS RECUES AU BGI DE OCTOBRE 1968 A MAI 1969 CONCERNANT LES QUESTIONS DE PESANTEUR
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Bulletin n° 20 **01-MAR-69** **ref.: 8410**
A SUPERCONDUCTING GRAVIMETER
PROTHERO W. A., GOODKIND J. M. JR

Bulletin n° 20 **01-MAR-69** **ref.: 8411**
TRAVAUX EN ARGENTINE - DETERMINATION DE LA PESANTEUR AU SOMMET DE LA MONTAGNE "ACONCAGUA" (6.959,6 M).
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COMMISSION GRAVIMETRIQUE INTERNATIONALE - MEETING IN PARIS, SEPTEMBER 1970, FRANCE - ANNOUNCEMENT
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Bulletin n° 20 **01-MAR-69** **ref.: 8413**
LES RECHERCHES GRAVIMETRIQUES ET MAGNETIQUES DE LA STRUCTURE DES OCEANS
GAINANOV A. G.

Bulletin n° 20 **01-MAR-69** **ref.: 8412**
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Bulletin n° 21 **01-NOV-69** **ref.: 8406**
QUELQUES FONCTIONS ALEATOIRES UTILISEES EN GRAVIMETRIE ET LEURS PROPRIETES
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Bulletin n° 21 **01-NOV-69** **ref.: 8407**
ESTIMATION DES ANOMALIES INCONNUES A L'AIDE D'UN MODELE STOCHASTIQUE
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Bulletin n° 22 **01-MAR-70** **ref.: 8401**
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Bulletin n° 22 **01-MAR-70** **ref.: 8402**
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Bulletin n° 22 **01-MAR-70** **ref.: 8403**
MESURES ABSOLUES DE LA PESANTEUR - DERNIERS RESULTATS AU BIPM, SEVRES - RESULTATS DE L'EQUIPE FALLER - NOUVEAU GRAVIMETRE PORTATIF
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Bulletin n° 23 **01-JUN-70** **ref.: 8397**
STATIONS GRAVIMETRIQUES: NOUVELLES STATIONS GRAVIMETRIQUES - REPERTOIRE DES STATIONS GRAVIMETRIQUES - STATIONS DE REFERENCE ET DE CONTROLE UTILISEES PAR PAYS
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Bulletin n° 23 **01-JUN-70** **ref.: 8398**
PAPERS TO BE PRESENTED AT THE VITH IGC MEETING TO BE HELD IN PARIS, SEPTEMBER 7-11, 1970, (FRANCE)

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Bulletin n° 23 **01-JUN-70** **ref.: 8400**
RECTIFICATIF CONCERNANT LES CARTES DE MESURES EN MER (BGI BULLETIN D'INFORMATION NR. 22, MARS 1970, HORS TEXTE)
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LISTE DES PUBLICATIONS RECUES AU BGI DE MARS A JUIN 1970 CONCERNANT LES QUESTIONS DE PESANTEUR
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Bulletin n° 24 **01-NOV-70** **ref.: 8384**
MEASUREMENTS OF VERTICAL GRAVITY GRADIENT
GROTEN E.

Bulletin n° 24 **01-NOV-70** **ref.: 8386**
SPECIAL TECHNIQUES OF GRAVITY MEASUREMENTS - PRELIMINARY REPORT (ANNEXE III-1)
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Bulletin n° 24 **01-NOV-70** **ref.: 8387**
SPECIAL TECHNIQUES OF GRAVITY MEASUREMENTS - PAPERS PRESENTED OR DISTRIBUTED AT THE MEETING
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ABSOLUTE MEASUREMENTS - PAPERS PRESENTED OR DISTRIBUTED AT THE MEETING - SPECIAL STUDY GROUP NR. 4-88
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Bulletin n° 24 **01-NOV-70** **ref.: 8391**
ABSOLUTE MEASUREMENTS - CHOICE OF ABSOLUTE GRAVITY STATIONS - SPECIAL STUDY GROUP NR. 4-88
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Bulletin n° 24 **01-NOV-70** **ref.: 8393**
VITH MEETING OF THE I.G.C., PARIS, SEPTEMBER 7-11, 1970 (FRANCE) - RESOLUTIONS (FRENCH & ENGLISH TEXT)
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BUCK R. J., TANNER J. G., MCCONNELL R. K.

Bulletin n° 24 **01-NOV-70** **ref.: 8396**
VITH I.G.C., PARIS, 7-11 SEPTEMBER, 1970, LISTE DES PARTICIPANTS, PROGRAMME, ORDRE DU JOUR ET SEANCE D'OUVERTURE
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ABSOLUTE MEASUREMENTS - RECENT DETERMINATION OR UNDER PREPARATION - SPECIAL STUDY GROUP NR. 4-88
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Bulletin n° 24 **01-NOV-70** **ref.: 8390**
ABSOLUTE MEASUREMENTS - ON THE REFERENCE GEODETIC SYSTEM (1967) - SPECIAL STUDY GROUP NR. 4-88
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Bulletin n° 24 **01-NOV-70** **ref.: 8388**
SPECIAL TECHNIQUES OF GRAVITY MEASUREMENTS, SPECIAL STUDY GROUP NR. 4-88
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Bulletin n° 25 **01-MAR-71** **ref.: 8380**
LISTE DES PUBLICATIONS RECUES AU BGI DE JUILLET A SEPTEMBRE 1970
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Bulletin n° 25 **01-MAR-71** **ref.: 8381**
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Bulletin n° 25 **01-MAR-71** **ref.: 8382**
COMPTE-RENDU OF THE INTERNATIONAL GRAVITY COMMISSION (CONTINUATION) - SEPTEMBER 7-11, 1970, PARIS (FRANCE)-QUESTIONS 1,3,8, PUBLISHED IN BGI BULL. INF. NR. 24.
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Bulletin n° 26 **01-JUN-71** **ref.: 8375**
LISTE DES PUBLICATIONS RECUES AU BGI DE OCTOBRE 1970 A JANVIER 1971 CONCERNANT LES QUESTIONS DE PESANTEUR
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Bulletin n° 26 **01-JUN-71** **ref.: 8376**
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Bulletin n° 26 **01-JUN-71** **ref.: 8378**
EQUAL-AREA BLOCKS
LAGRULA J.

Bulletin n° 26 **01-JUN-71** **ref.: 8377**
GRAVITY BASE VALUES IN TAHITI
HAWORTH R. T.

Bulletin n° 26 **01-JUN-71** **ref.: 8379**
RAPPORT SUR LES TRAVAUX GRAVIMETRIQUES EFFECTUES EN U.R.S.S. EN 1965 - 1969, PRESENTE A LA COMMISSION GRAVIMETRIQUE INTERNATIONALE, SEPTEMBRE, 1970, PARIS.
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Bulletin n° 27 **01-NOV-71** **ref.: 8367**
REPORT OF THE SPECIAL STUDY GROUP NR. 4.21 ON "SPECIAL TECHNIQUES OF GRAVITY MEASUREMENTS" (ABSTRACT)
HONKASALO T.

Bulletin n° 27 **01-NOV-71** **ref.: 8369**
THE INTERNATIONAL GRAVITY STANDARDIZATION NET 1971 (IGSN 71)
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Bulletin n° 27 **01-NOV-71** **ref.: 8368**
UNE TENDANCE DE LA VARIATION DE LA PESANTEUR OBSERVEE AU B.I.P.M., SEVRES, FRANCE
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Bulletin n° 27 **01-NOV-71** **ref.: 8370**
LIST OF SOME PAPERS READ OR DISTRIBUTED AT THE GENERAL ASSEMBLY, OF INTEREST FOR GRAVIMETRISTS
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Bulletin n° 27 **01-NOV-71** **ref.: 8373**
DECISIONS CONCERNING THE SECTION III "GRAVIMETRY" (OLD SECTION IV)
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Bulletin n° 27 **01-NOV-71** **ref.: 8371**
PROCEEDINGS OF THE MEETINGS OF SECTION IV OF THE I.A.G. "GRAVIMETRY"
HONKASALO T.

Bulletin n° 28 **01-MAR-72** **ref.: 8356**
LISTE DES PUBLICATIONS RECUES AU BGI DE FEVRIER A AOUT 1971 CONCERNANT LES QUESTIONS DE PESANTEUR
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Bulletin n° 28 **01-MAR-72** **ref.: 8357**
THE THREE CATEGORIES OF BOUGUER OR ISOSTATIC ANOMALIES
LAGRULA J.

Bulletin n° 28 **01-MAR-72** **ref.: 8359**
INTERPRETATION OF THE GEOID SHAPE
BARTA G.

Bulletin n° 28 **01-MAR-72** **ref.: 8358**
ON THE DEPENDENCY OF A SHARP GRAVIMETER SCALE FACTOR ON THE ALTITUDE OF OBSERVATION POINTS
BOULANGER YU. D., KOZYAKOVA K. Y., RUKAVISHNIKOV R. B.

Bulletin n° 28 **01-MAR-72** **ref.: 8362**
GRAVITY SURVEY IN NORWAY
Anonymous

Bulletin n° 28 **01-MAR-72** **ref.: 8364**
REPORT ON THE SYMPOSIUM ON COASTAL GEODESY
SIGL R.

Bulletin n° 28 **01-MAR-72** **ref.: 8365**
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Bulletin n° 28 **01-MAR-72** **ref.: 8363**
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Bulletin n° 28 **01-MAR-72** **ref.: 8361**
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Bulletin n° 28 **01-MAR-72** **ref.: 8360**
NEW GRAVITY POINT AT SCHIPHOL, NETHERLANDS
STRANG VAN HEES G. L.

Bulletin n° 29 **01-JUL-72** **ref.: 8347**
LISTE DES PUBLICATIONS RECUES AU BGI DE SEPTEMBRE 1971 A MAI 1972 CONCERNANT LES QUESTIONS DE PESANTEUR
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Bulletin n° 29 **01-JUL-72** **ref.: 8348**
MISE AU POINT CONCERNANT LES METHODES D'EXTRAPOLATION STATISTIQUES DES DONNEES GRAVIMETRIQUES
LEBART L.

Bulletin n° 29 **01-JUL-72** **ref.: 8349**
EQUAL AREA BLOCKS: A PRACTICAL SOLUTION FOR THE SPHERE & THE ELLIPSOID
LAGRULA J., LUBART J. M.

Bulletin n° 29 **01-JUL-72** **ref.: 8350**
CARTE D'ANOMALIES A L'AIR-LIBRE PAR 5 DEGRES X 5 DEGRES
CORON S.

Bulletin n° 29 **01-JUL-72** **ref.: 8354**
GENERAL BIBLIOGRAPHY OF THE EARTH TIDES
MELCHIOR P.

Bulletin n° 29 **01-JUL-72** **ref.: 8355**
MEETING ON THE FURTHER DEVELOPMENT OF THE IGSN 71 AND THE SECULAR VARIATIONS OF GRAVITY
BOULANGER YU. D., HONKASALO T.

Bulletin n° 29 **01-JUL-72** **ref.: 8353**
A DETERMINATION OF THE VELOCITY OF LIGHT USING THE TWIN SUPERHETERODYNE PRINCIPLE
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Bulletin n° 29 **01-JUL-72** **ref.: 8352**
AN INSTRUMENT FOR A DETERMINATION OF THE WAVE-VELOCITY OF LIGHT
BJERHAMMAR A.

Bulletin n° 29 **01-JUL-72** **ref.: 8351**
GRAVITY STATION : AMSTERDAM-AIRPORT-SCHIPHOL
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Bulletin n° 30 **01-NOV-72** **ref.: 8343**
LISTE DES PUBLICATIONS RECUES AU BGI DE MARS A JUILLET 1972 CONCERNANT LES QUESTIONS DE PESANTEUR
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Bulletin n° 30 **01-NOV-72** **ref.: 8344**
UN PROCEDE D'INTERPOLATION DES ANOMALIES DE G ET DES CALCULS DES DEVIATIONS GRAVIMETRIQUES DE LA VERTICALE DANS LA REGION DES ALPES OCCIDENTALES
ARONOV V. I., GORDIN V. M.

Bulletin n° 30 **01-NOV-72** **ref.: 8346**
ALTERATIONS AT THE IGSN 71 GRAVITY STATION HANNOVER, IGB NR. 21629 J, M.
TORGE W.

Bulletin n° 30 **01-NOV-72** **ref.: 8345**
CALCUL DES DEVIATIONS GRAVIMETRIQUES DE LA VERTICALE DANS "L'APPROXIMATION DU ZERO" POUR LA REGION DES ALPES OCCIDENTALES
OSTACH O. M., PELLINEN L. P.

Bulletin n° 31 **01-MAR-73** **ref.: 8337**
LISTE DES PUBLICATIONS RECUES AU BGI DE AOUT A JANVIER 1973 CONCERNANT LES QUESTIONS DE PESANTEUR
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Bulletin n° 31 **01-MAR-73** **ref.: 8338**
SUR LES ANOMALIES MOYENNES DE LA PESANTEUR, TESTS ET RESULTATS - ANOMALIES A L'AIR LIBRE 1 DEGRE X 1 DEGRE
CORON S.

Bulletin n° 31 **01-MAR-73** **ref.: 8339**
NEW GRAVITY STATIONS AT THE RHEIN-MAIN-AIRPORT, FRANKFURT/MAIN
GERSTENECKER G.

Bulletin n° 31 **01-MAR-73** **ref.: 8342**
SOME TEXTS CONCERNING THE ORGANIZATION OF THE INTERNATIONAL GRAVITY BUREAU AND THE INTERNATIONAL GRAVITY COMMISSION
Anonymous

Bulletin n° 31 **01-MAR-73** **ref.: 8341**
SCIENTIFIC BILAN OF THE INTERNATIONAL GRAVITY BUREAU
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Bulletin n° 31 **01-MAR-73** **ref.: 8340**
RESEAU GRAVIMETRIQUE INTERNATIONAL UNIFIE 1971 (RECOMMANDATION)
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Bulletin n° 32 **01-JUN-73** **ref.: 8335**
LISTE DES PUBLICATIONS RECUES AU BGI DE FEVRIER A MAI 1973 CONCERNANT LES QUESTIONS DE PESANTEUR
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Bulletin n° 32 **01-JUN-73** **ref.: 8336**
CORRECTIONS ISOSTATIQUES POUR LA REGION DE LA MEDITERRANEE OCCIDENTALE (AITY, 20 ET 30 KM)
BOUVET J., LUBART J. M.

Bulletin n° 33 **01-NOV-73** **ref.: 8333**
LISTE DES CARTES D'ANOMALIES DE BOUGUER (CARTOTHEQUE BGI)
BOUVET J.

Bulletin n° 33 **01-NOV-73** **ref.: 8334**
THEORY OF THE EARTH'S GRAVITY FIELD (INFORMATION)
PICK M., PICHA J., VYSKOCIL V.

Bulletin n° 34 **01-FEB-74** **ref.: 8324**
LISTE DES PUBLICATIONS RECUES AU BGI DE JUIN A SEPTEMBRE 1973 CONCERNANT LES QUESTIONS DE PESANTEUR
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Bulletin n° 34 **01-FEB-74** **ref.: 8325**
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Bulletin n° 34 **01-FEB-74** **ref.: 8327**
DETERMINATION OF GRAVITATIONAL ACCELERATION AT CAIRO
BOULANGER YU. D., GUSEV N. A., SLIVIN YU. A., HEIFETZ M. E., SCHEGLOV S. N.

Bulletin n° 34 **01-FEB-74** **ref.: 8326**
GRAVITY CONNECTION : POTSDAM - TOKYO.
BOULANGER YU. D., GUSEV N. A., SLIVIN YU. A.

Bulletin n° 34 **01-FEB-74** **ref.: 8330**
LIST OF BOUGUER ANOMALIES MAPS PUBLISHED IN BGI BULLETIN D'INFORMATION NR. 33 (NOVEMBER 1973), COMPLEMENTS & ERRATA
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Bulletin n° 34 **01-FEB-74** **ref.: 8332**
INTERNATIONAL GRAVITY COMMISSION
Anonymous

Bulletin n° 34 **01-FEB-74** **ref.: 8331**
THE INTERNATIONAL GRAVITY STANDARDIZATION NETWORK 1971 - PUBLICATION SPECIALE DE L'ASSOCIATION INTERNATIONALE DE GEODESIE (AIG) - ABSTRACT
MORELLI C., GANTAR C., HONKASALO T., MCCONNEL R. K., TANNER J. G., SZABO B., UOTILA U., WHALEN C. T.

Bulletin n° 34 **01-FEB-74** **ref.: 8329**
PROJECTS OF GRAVITY SURVEYS AT SEA
Anonymous

Bulletin n° 34 **01-FEB-74** **ref.: 8328**
DETERMINATION OF GRAVITATIONAL ACCELERATION AT MOSCOW (LEDOVO), MURMANSK, ODESSA & NAKHODKA
BOULANGER YU. D., GUSEV N. A., LOKHOV V. V., SLIVIN YU. A., HEIFETZ M. E., SHCHEGLOV S. N.

Bulletin n° 35 **01-NOV-74** **ref.: 8304**
LISTE DES PUBLICATIONS RECUES AU BGI DE OCTOBRE A DECEMBRE 1973
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Bulletin n° 35 **01-NOV-74** **ref.: 8305**
PROPOSAL FOR THE RE-ORGANIZATION OF THE INTERNATIONAL GRAVITY COMMISSION (APPENDIX)
MORELLI C.

Bulletin n° 35 **01-NOV-74** **ref.: 8307**
GRAVITY MEASUREMENTS AT SEA, SPECIAL STUDY GROUP NR. 3.20, LIST OF ALL MEMBERS
Anonymous

Bulletin n° 35 **01-NOV-74** **ref.: 8306**
THE INTERNATIONAL GRAVTY BUREAU
CORON S.

Bulletin n° 35 **01-NOV-74** **ref.: 8310**
THE GRAVITY FIELD OF ISLAND ARC - TRENCH SYSTEMS: SOME NEW RESULTS AND THEIR IMPLICATIONS
FLEISCHER U.

Bulletin n° 35 **01-NOV-74** **ref.: 8312**
GRAVITY MEASUREMENTS AT SEA, SPECIAL STUDY GROUP NR. 3.20
Anonymous

Bulletin n° 35 **01-NOV-74** **ref.: 8314**
REPORT ON ABSOLUTE MEASUREMENTS OF GRAVITY
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Bulletin n° 35 **01-NOV-74** **ref.: 8316**
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RECENT PUBLICATION : "THE GEOPHYSICS OF THE PACIFIC OCEAN BASIN & ITS MARGIN". A VOLUME IN THE HONOR OF G. P. WOOLLARD - AGU, GEOPHYS..MONOGRAPH 19, 480P., 1976
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Bulletin n° 40 **01-MAY-77** **ref.: 8262**
PHYSICAL INTERPRETATION OF GRAVITY ANOMALIES - STATUS REPORT ON ACTIVITIES OF SGG 5:46, FEBRUARY, 1976 TO MARCH 1977
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Bulletin n° 44 **01-MAY-79** **ref.: 8241**
HIGH PRECISION GRAVITY MEASUREMENTS FOR STUDYING THE SECULAR VARIATIONS OF GRAVITY IN FENNOSCANDIA
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MORELLI C. (CHAIRMAN)

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SAKUMA A. (CHAIRMAN)

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BOULANGER YU. D.

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BOULANGER YU. D., ARNAUTOV G. P., SCHEGLOV S. N.

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GOGUEL J.

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COMPARISON OF FIVE LACOSTE-ROMBERG GRAVITY METERS ON THE BELGIAN GRAVITY NETWORK
POITEVIN C., DUCARME B.

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BOEDECKER G.

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JEUDY L. M. A.

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CURRENT OBSERVATIONS OF GRAVITY VARIATIONS & VERTICAL CRUSTAL MOVEMENTS DURING THE RECENT RIFTING PROCESS IN NORTHERN ICELAND
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BECKER M.

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LOCAL GRAVITY CHANGES AT THE ASHKHABAD GEODYNAMIC TEST-AREA (ABSTRACT)
BOULANGER YU. D., GAIPOV B. N., DEMIANOVA, KUZMIN YU. O., KURBANOV M. K., MARAKHOVSKAYA L. A., CHELPANOV S. S.

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LAMBERT A., LIARD J. O.

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SPACE-TIME REPRESENTATION OF THE GRAVITY FIELD (ABSTRACT)
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INTRODUCTION TO THE PROBLEMS OF HIGH-PRECISION GRAVIMETRY
GROTEN E.

Bulletin n° 49 **01-DEC-81** **ref.: 8206**
THE JILA ABSOLUTE GRAVIMETER (PAPER NOT SENT ON TIME)
FALLER J. E., RINKER L., ZUMBERGE M. A.

Bulletin n° 49 **01-DEC-81** **ref.: 8204**
ON NON-TIDAL GRAVITY VARIATIONS
BOULANGER YU. D.

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ABSOLUTE MEASUREMENTS WITH THE IMGC TRANSPORTABLE GRAVITY METER WITHIN 1979 & 1981
ALASIA F., CANNIZO L., CERUTTI G., MARSON I.

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ABSOLUTE & RELATIVE GRAVITY MEASUREMENTS IN SWITZERLAND WITH SPECIAL EMPHASIS ON A NEW SWISS NATIONAL GRAVITY NET
FISHER W., KAHLE H.-G., MARSON I.

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CALIBRATION OF LACOSTE-ROMBERG GRAVITY METERS MODEL G & D
KANNGIESER E., TORGE W.

Bulletin n° 49 **01-DEC-81** **ref.: 8200**
A MODEL FOR STUDYING TEMPERATURE EFFECTS ON LACOSTE-ROMBERG GRAVIMETERS
GERSTENECKER C.

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BECKER M.

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GROTEN E.

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Bulletin n° 51 **01-DEC-82** **ref.: 8182**
SCALE CORRECTIONS OF QUARTZ ASTATIZED GRAVITY METERS
RUKAVISHNIKOV R. B., KOZYAKOVA K. YA.

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ABSOLUTE GRAVITY MEASUREMENTS IN SINGAPORE IN 1982
BOULANGER YU. D.,ARNAUTOV G.,KALISH E., STUS YU.,TARASJUK V.,SCHEGLOV S.

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A TREATMENT OF GRAVIMETERS CALIBRATION WITH SIMULTANEOUS ESTIMATING OF SCALE CORRECTIONS
BOYARSKY E. A., AFANASYEVA L. V.

Bulletin n° 51 **01-DEC-82** **ref.: 8183**
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PARIISKY N.

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Bulletin n° 52 **01-JUN-83** **ref.: 8171**
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