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1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

When printing, special settings may be required to make the text box appear on the printed output.

Version	Date	Person	Page	Description of Change
01				
02				

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM:

http://nssdc.gsfc.nasa.gov/nmc/

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

a. Associated Documents

To find associated documents you will need to know the document ID number and then click here.

http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/

b. Core Catalog Materials

COSMOS 49

MAGNETOMETER DATA, TAPE

64-069A-01D

THIS DATA SET HAS BEEN RESTORED. IT ORIGINALLY CONTAINED ONE 7-TRACK, 556 BPI TAPE WRITTEN IN BCD. THERE IS ONE RESTORED TAPE WRITTEN IN ASCII. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS CREATED ON AN IBM 360 COMPUTER AND WAS RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIME SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR005731	DS005731	D008038	1	10/24/64 - 11/03/64

64-069A-01D

COSMOS 49, MAGNETOMETER

556 BPI, 7 track, BCD, 1 file, IBM 360

D-08038 C-05818

10/24/64 - 11/03/64

The coefficient set used in the model may be found in the card cabinet in the GEOS room.

BCD TAPE FORMAT

CHARACTER	FORMAT	DESCRIPTION
1	11	Detector 1 or 2
2-3	12	Day of month
4-5	12	Month
6-10	15	Measurement #
11-12	12	Hour
12-13	12	Minute
14-18	F5.1	Altitude
19=24	F6.2	Latitude
25-30	F6,2	Longitude
31-35	15	F1 - measured field strength
36-40	15	F2 - Computed field strength
41-45	15	F = F2-F2
46-80		Blanks

This is one logical record, there are 30 logical records per physical

Tape is 7 track, 556 BPI, BCD, 1 file, Tape was created on IBM 360 The coefficient set used in the model may be found in the GEOS room. MEMORANDUM

ro: J. Johns

FROM: J. King

SUBJ: Disposition of data sets 64-069A-01B and -01C

Following the oral recommendation of Dr. J. Cain, eliminate from the NSSDC data holdings the two tapes which constitute data sets 61-069A-01B and 64-069A-01C. New data set 64-069A-01D will contain all the data found in data sets 01B and 01C, but in a better ordered, less error-plagued tape.

J. King

March 3, 1972

To: Data Repository

From: ADP Services

Subject: Releasing of D and C tapes.

Please release tapes D-04942 and D-00667 and their associated C tapes from the NSSDC tape library.

Space Physics Division Goddard Space Flight Center January 14, 1971

Derivation of COSMOS-49 (12/70) Model Ron Sweeney

A new mathematical model has been derived for the quiet time Cosmos-49 magnetic field data of November and December, 1964. This model was created by fitting the Cosmos-49 data using the method of least squares, (Cain et.al., 1967) with a series of 120 internal spherical harmonic coefficients. The final RNS difference of this fit was 164.

The procedure used to create this coefficient set was basically threefold. First, we fit all of the Cosmos-49 data with 80 spherical harmonic coefficients (n=m=8), using the GSFC (12/66) coefficient set as an initial estimate to the data. The resulting RMS difference after two iterations was 72γ .

Secondly, using the output coefficients of the first analysis as input, we fit the Cosmos-49 data with three different sets of spherical harmonics = $n^* = 9$, 10, and 11. Only data within 100y of the field values computed from the input coefficient set for each iteration were fit. The RMS differences after three iterations were 21y,019y, and 18y for $n^* = 9$, 10, and 11 respectively. After examining the residual distributions of the fitted data versus the three resultant field models, we selected the 143 coefficients (n = m = 11) as the most realistic of the three models. We then created a Cosmos-49 data tape which contained only those data with residuals within 70y of this model.

Finally, we fit all of this fixed Cosmos-49 data set (16,659 points) with spherical harmonic coefficients for $n^*=9$, 10, and 11. After three iterations the RYS of these fits was 19 γ , 16 γ , and 15 γ for $n^*=9$, 10, and 11 respectively. The distribution of the absolute residuals of this fixed data set from each of the resulting three models is as follows:

n	100 90	0 80	70	6	0	50	40	30	20	10	0
9	3	11	33	91	175	378	1042	2541	5088	7297	
10	0	0	25	63	107	179	633	2058	5125	8467	
11	0										

We chose the middle model (n=m=10) as being sufficiently representative of this data set since the added 23 coefficients did not reduce the RMS residual appreciably.

The symbol n^ is used here to denote the maximum degree \underline{n} and order \underline{n} of the spherical harmonic expansion used. Since g_0 is taken as zero, the number of coefficients is given by (n^*) (n^*+2) . Thus $n^*=10$ corresponds to 120 coefficients.

REFERENCES

Cain, Joseph C., Shirley J. Hendricks, Robert A. Langel, and William V. Hudson,
A proposed model for the International Geomagnetic Reference Field - 1965,
J. Geomag. Geoelec., 19, 335-355, 1967.

CATALOG OF MEASURED AND CALCULATED VALUES OF THE STRESS MODULUS OF THE GEOMAGNETIC FIELD ALONG THE ORBIT OF THE COSMOS-49. SATELLITE

Part 1

From No. 1 to No. 6205

24 October-4 November, 1964

Sh. Sh. Dolginov, V. N. Nalivayko, et al Editor: V. P. Orlov

Institute of Terrestrial Magnetism, the lonosphere and Propagation of Radio Waves, Academy of Sciences USSR, Moscow 1967

11.4 SI-3028 proc 519

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Catalog of Measured and Calculated Values of the Stress Modulus of the Geomagnetic Field Along the Orbit of the Cosmos-49 Satellite
Part 1. From No. 1 to No. 6205,
24 October-4 November, 1964
Sh. Sh. Dolginov, V. N. Nalivayko et al.
Editor V. P. Orlov
Institute of Terrestrial Magnetism, the lonosphere and Propagation of Radio Waves, Academy of Sciences USSR, Moscow 1967

Annotation

The catalog of measured and calculated values of magnetic field intensity modulus (T) along the orbit of the satellite Cosmos-49 contains 17,489 measurements performed during November of 1964. The catalog consists of three parts. In the first part a brief text is presented, describing the measurements themselves, their processing, certain results and the content of the numerical tables. The first portion includes 6205 measurements. The second and third portions include only a description of the content of the tables and the tables themselves.

In the period from 24 October to 3 November 1964, measurements of the magnetic field of the earth were performed using absolute proton magnetometers in the Cosmos-49 satellite. These measurements were a part of the Soviet national program in the plan for world magnetic surveying.

1. Orbit and Magnetic Surveying

The satellite was placed in orbit at an angle of 49° to the plane of the equator. The distance from the surface of the earth at apogee was about 484 km, at perigee about 265 km. The rotation period around the earth was 91.83 min. The period of operation of the scientific apparatus on the flight was 11 days. Due to differences

in the periods of rotation of the earth and the satellite and the asphericity of the earth, causing a shift of the orbit to the west at a rate of about 45° per day, during this eleven-day period the satellite performed even surveys over the surface bounded by latitudes #49°, making up 75% of the surface of the earth.

An idea of the density of the survey net is given by Figure 1. This figure shows the flight trajectories at intervals of approximately 20 revolutions. The dots correspond to points where T was measured, the solid lines are flight sectors for which for various reasons no measurements were made. Figure 1 gives a good representation of the survey density along the orbits, but the number of orbits was actually approximately twenty times greater.

2. Nature of Primary Magnetometric Information

The Cosmos-49 satellite carried two proton magnetometers, which were operated ilternately, with their transducer sections oriented at an angle of 90°. A skeletal diagram and description of the principle of operation of the proton magnetometers are presented in [1]. The accuracy of measurement using these proton magnetometers was 2 gammas. We present below a brief description of the cycle of operation of measurements of the magnetic field with the proton magnetometers, which is required in a wislussion of the accuracy of the experimental material.

Upon receipt of an external command from the precision on-board time programming device, the polarization current was connected to magnetometer 1 for time $\rm t_1$ = 1.92 sec, after which the winding of the transducer was connected to the amplifier input. After a certain delay (t = 0.18) the search for the optimal-signal range was begun. Depending on the field intensity and the preceding reading, search time $\rm t_3$ varied between 0 and 650 msec. After the logic circuits of the magnetometer established the presence of an optimal signal, the signal search was halted and the actual

measurement process was begun, which continued, depending on the field intensity present, from 0.2 to 0.6 sec (t_4) . The indications of the frequency meter were retained for 8 sec, the time necessary to record the measured values in the on-board memory device.

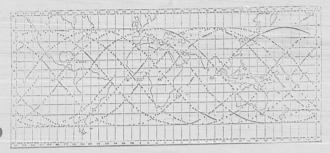


Figure 1

The scientific information was recorded as eight voltage levels varying between 0 and 6 volts. The information from one measurement (an octal number) consisted of six digits taken from the six photo units. The frequency meter measured the number of pulses N of the quartz magnetometer generator developed in time T, equal to 512 cycles of nuclear precession. In order to determine number N, the indications of the magnetometer were translated from octal code to decimal code.

The operation of calculation of T was performed using an M-20 computer:

T = 12025.25 (100000 +Af)

where Δf is the temperature correction of the frequency of the crystal oscillator in the magnetometers;

N is the number of pulses, as mentioned above.

The memory device could store the information for up to 800 minutes. The information was recalled from storage on command from the earth as the satellite flew over the receiving stations.

The time programmer turned on the magnetometers in a 65.53-sec of cycle, alternately at intervals of 32.76 seconds. Also, the time programmer created on-board timing signals. Correlation of on-board time to absolute time was performed by comparing the on-board time signals in the reproduction mode with signals recorded during direct transmission. The above listed information processing steps produced a catalog of measured values of T of the geomagnetic field, correlated to Moscow time. The Moscow time of the moment of measurement was determined using the formula

$$t_{Mosc} = t + (n - 1)\Delta t + T_{inst}$$

where t_{MOSC} is the Moscow time of the first minute time signal;

At is the repetition period of the timer signals in seconds;

 $T_{\mbox{\scriptsize inst}}$ is the time correction required to consider the internal operating cycle of the magnetometer.

As was noted above, $T_{\rm inst}$ includes some uncertainty, since the value of search time t_3 is not precisely known. If in place of the precise value of $T_{\rm inst}$ we consider the mean value, the maximum error might be ± 0.28 sec. Measurement time t_4 can be determined accurately, i.e. the field measured is known. However, the mean time was used in processing. These inaccuracies could lead to an error in time correlation of ± 0.5 sec.

In the final analysis, it was necessary to know the coordinates ϕ , λ , and h of the satellite at the moment of measurement of the field. In order to produce these values, the catalog of orbits of the Cosmos-49 satellite can be used. The catalog contained values of h in meters, ϕ and λ in degrees and fractions of a degree for whole minutes (at intervals of one minute) of Moscow time. The geodesic coordinates and altitude of the satellite were calculated relative to a biaxial ellipsoid with the following characteristics: large half axis $\overline{a}=6378.178$ km, compression a=0.00355258918. The maximum error in determination of the coordinates of the Cosmos-49 satellite was one kilometer of altitude h, three kilometers along the trajectory and one kilometer in the direction of a plane perpendicular to the orbit. Determination of the coordinates at the moment of measurement was performed by the method of interpolation using the quadratic formula. This operation was performed using the Ural-2 computer; the error of the process of interpolation was an order of agnitude less than the error involved in the process of output the coordinates.

3. Analytic Geomagnetic Field

Since for most investigations which include a program of scientific processing of the results of magnetic measurements performed by satellite it is necessary to use some variant of analytic representation of the geomagnetic field, this catalog includes calculated values of the scalar quantity T_{theor} along the orbit at the points of measurement of the field by the instruments of the satellite. The theoretical field was calculated using the coefficients of spherical harmonic analysis of world magnetic maps of the 1960 epoch, composed at the Leningrad department of IZMIRAN [Institute of Geomagnetism, the Ionosphere and Propagation of Radio Waves, Academy of Sciences USSR]. The analysis [2] was performed for a spherical earth using n = 6, m = 6, i.e. considering 48 coefficients. In order to produce T_{theor},

the values of the northern and eastern components were calculated for the coefficients g_n^m , h_n^m , values of the vertical coefficients using the coefficients j_n^m , k_n^m (Table 1). All coefficients up to n=3 and m=3 were corrected for the secular variation using the data of analyses of the secular variation for 1955-1960 [3].

Coefficients of Spherical Harmonic Analysis Used in Calculation of Ttheo

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9							0							
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173			16	12	4	83	+			1	1	1	- 123	
••		0	01	200	N	10	0		10	10	5	60	2	4
1		21	29	13	82	16.0			436	-90	479	133	-20	
	-	1		1							1			
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		tes	ni	10	4	in	to		-	gu	*	4		
	1	1	1							1				

Table 1. Coefficients of Spherical Harmonic Analysis Used in Calculation of Ttheor

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,	T	- 3047	- 210		du				581					
1	2	- 161	292	166					- I98	27				
1	3	II9	- 194	129	84				- 43	20	- I6			
	4	96	. 82	47	36	31		1	- I4	-3I	- I	-24		
	5	- 19	35	25	- 3	- 17	-5		1 2	12	- 7	-II	7	
	6	. 6	0	- I	-28	I	-I	-IO	- 3	IS	3	- I	-1	- I
					1m							Kn		
!	T	6076	436						-IISI					
-	2-	468	-906	- 490					+ 592	- 59				
	3	- 443	+795	514	-335				166	- 74	71			
1	4	- 507	-398		183	-I3I			6I	+142_	II	104		
	5	+ 143	-207	- 137	23	TOI	45		_ 8	- 7I	50	. 69	-64	
1	6	- 70	- 50	- I8	I64	- 13	- 2	48	23	- 72	- 39	24	- 5	~13

variation using the data of analyses of the secular variation for 1955-1960 [3].

All coefficients

up to n

3 and m =

3 were corrected for the

secular

the values of the northern and eastern components were calculated for the coeffi-

 $\boldsymbol{h}_{n}^{\text{m}},$ values of the vertical coefficients using the coefficients

4. Testing of Initial and Calculated Values

Both the measured and the calculated values of T could contain errors. Improper measurement of T could occur in case of unfavorable positions of the axis of either transducer relative to the geomagnetic field. Although the magnetometer circuit forbids the performance of measurements with these positions, still, under boundary conditions, i.e. when the signal is not so slight as to be forbidden, false readings could be made. As a rule, false readings were easy to detect, since they differed sharply from neighboring values of field gradients. For testing purposes, graphs were constructed and the readings indicating sharp field gradients were easily recognized.

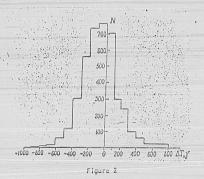
After the theoretical fields along the trajectory and the differences ΔT between measured and calculated field values were calculated, the graphs of ΔT allowed testing to be performed more easily, using the same criteria -- absence of sharp field gradients at the altitude of the satellite flight path. Subsequently, some of the readings which had been discarded can be subjected to additional filtration upon comparison with the effects in a variable field.

More detailed analysis of the value and geographic distribution of ΔT [4] allowed us to make the following conclusions:

- 1) over most of the area of the earth's surface which was investigated, the values of ΔT are less than 200 gamma; the areas of larger values (500-600 gamma) represent large scale anomalies. Our attention was drawn to the tendency of areas of ΔT to correspond with the world ocean, for which the world maps are less accurate.
 - 2) there is no relationship between distribution of values of T and $\Delta T.$
- 5) the dimensions and distribution of regions with large ΔT are such that the field of T should be described by low order harmonics.

Figure 2 shows a histogram of the distribution of ΔT from [4]. In correspondence with this histogram, made up on the basis of 4,000 values of ΔT, the algebraic mean

value of ΔT (excess of negative ΔT over positive) is -60 gamma, the arithmetic mean is ±184 gamma. These values of ΔT are rather characteristic for the entire set of measurements on board Cosmos-49.



The results of the primary processing are presented in the form of a numerical catalog and set of graphics.

5. Description of Catalog

Due to the large volume of information produced from Cosmos-49 (17300 measurements), the catalog is divided into three parts. The first part contains this text plus the first 6,000 measurements.

The second part is a description of the catalog, plus measurements from 6,000 to 12,000; the third part consists of another description and measurements from 12,000 to 17,300.

The catalog consists of eight columns:

- 1. The ordinal number of the measurement.
- Moscow time in hours and minutes. The moments of time are rounded off to the even minutes in correspondence with the time base of standard magnetograms (20 mm-60 min).
 - 3. Height h, at which the measurement was performed, in kilometers.
- 4-5. The geographical coordinates down to 0.01°. Northern and southern latitudes are distinguished by their sign, longitudes are measured from Greenwich, always east.
 - 6. The measured value of intensity modulus T in gammas.
 - 7. The theoretical (calculated) value of intensity modulus in gammas.
 - s. The difference $\Delta T = t_{meas} t_{theor}$ in gammas.

Columns 1 and 8 require additional explanation.

For technical reasons, the processing of experimental material was performed first for the measurements made by the first instrument, then by the second. The machine carried 360 measurements at one time. In order to simplify composition of the overall numeration of the catalog, the numbers were given out in the following order: ~560 measurements of the first instrument, then ~360 measurements over the same trajectory interval and the same time interval by the second instrument. The next numbers cover the following trajectory-time segment for the first instrument, etc. Changes of instruments and dates are indicated. The distribution of ordinal numbers by instruments is given preceding the numerical tables in each portion of the catalog.

Column 8 gives the difference between $T_{\rm meas}$ and $T_{\rm theor}$. This difference was produced using values of $T_{\rm meas}$ and $T_{\rm theor}$ which had not been rounded off, and may

differ by one gamma from the values produced directly from catalog data.

6. Set of Graphs of AT

Based on the catalog, a set of graphs of ΔT , ϕ and h as a function of λ has been produced for all revolutions from 1 to 163. The beginning of a revolution was considered to be the moment when the satellite intersected the plane of the equator moving from south to north. The relationship between the beginning of a revolution and the catalog number is given in Table II. In those cases when no measurements were made near the equator, a dash is placed in the column "according to catalog." The instrument used to make the measurement taken as the first for the revolution is shown after the hyphen. A reduced sample of one such graph is shown on Figure 3.

Photo copies of the set of illustrations in natural size can be ordered from IZMIRAN. The basis of the composition of the graphs was the fact that each 77 revolutions, the trajectories of the satellite had corresponding values of ϕ and λ ; revolution 79 had similar ϕ and λ to revolution 2, revolution 80 to revolution 3, etc., although there was considerable change in the altitude due to orbital deformation. Since altitude changes have little influence on $\Delta T_{\bf i}$ and $\Delta T_{\bf i}$, 77, these "paired" revolutions could be considered repetitions. The "paired" orbits, their ϕ , λ and h are shown on one sheet of the graph set and are accompanied by curves for dT = $\Delta T_{\bf i}$ - $\Delta T_{\bf i}$ + 77 and ΔH = $H_{\bf i}$ - $H_{\bf i}$ - $T_{\bf i}$

The values of dT depend on:

- 1. The error in determination of coordinates.
- 2. The difference in the magnetic activity and local time, i.e. the varying influence of external field sources. Therefore, it can be considered that the value of dT characterizes the summary uncertainty of the measured values of T resulting from field sources within the earth.

Table 11. Ordinal Number of Revolutions of Flight of Cosmos-49 and Corresponding

Catalog Numbers

Revolution	Catalog			Revolution	Catalog	
	227	30-П .	3322	58-Ⅱ	5642	
2-11		31-11	. 3385	59-I	5701	
3-11	238	• 32		. 60-1	5766	
4	*	33.	10 10 10 10	6I-I	5832	
* 5-II	316	34-I	3573	1, 62		
6-1	380	35	1 - 124	65-1	6258	
7-I	450	36		. 64.	-	
8-I	520	37-X	.3832	65-I	6500	
· 9-I	589	38-I	3895	66-I	6564 .	
10-11	1175	39-I	3956	67-□	688I ·	
II-I	936	40-I	4013	68-II	6943	
12-1	1029		401	69	-	
13-1	1085	- AI		70	-	
I4-II	1425	42	1	71-I	7136	
I5-I	1477	43	-	72-II	7462	
. 16-I	1536	: 44-I	4248		1406	
17-1	1601	45-∏	4507	- 73		
IS-I	. I668 '	. 46		74	7889	
19-1	1968	47-I	4420 .	75-Ⅱ		
20-1	2034	48		76-Ⅱ	7950	
21-I	2095	49	-	77-I	8012	
22-11	2426	50-1	4670	78-1	8074	
23-I	2485	5I-I	4729	. 79-I	8134	
	2105	52-I	4785	1-03	8202	
24		53-II	5085	SI-I	8240	
25	2642	7 . 54-I	5174	82-I	8534	
26-I		. 55-I	5212	83-I	8602	
27-I	2692	56-II	- 5534	84-I ·	8659	
28-11	. 3197	57	-			
. 29-II :	3265	: 51				

Note: I, II mean first and second instruments.

Table II continued. Ordinal Number of Revolutions of Flight of Cosmos-49 and Corresponding Catalog Numbers

Revolution	Catalog	Revolution	Catalog numbers	Revolution	Catalog	
		. IIS	-	139		
85-1	8715	113		I40-I	14833	
86	"\	114-1	11693	141	-	
87-I	9068	115-1	11861	I42-I.	15073	
88		116-11	12170	I43-I	15360	
89-II	9627	117		. I44-I.	15414	
90-∏	9684	118		I45-I	15461	
91-11	9740 .	119		*I46		
92-11	9783	120 -	X	- 147 -	-	
. 93-11	9846	121-11	12746	I48-II	15629	
94-11	10166	122-11	12815	149-П	15691	
95-17	10224	. 123	TEOLY	150	-	
96-11	10268		12936	151	-	
97-11	10311	. 124-I	75330	152-1	16276	
98-1	10372	, 125		I53-N	16072	
99-I	10/30	- 126	******	I54-I .	I6384	
100-I	10496	127-1	13117	155-II	16445	
TOI-I	10525	I28-I	13436	156-II	16503	
102	-	129-I	13505	157-1	16720	
103-I	10878	130-П	13938	158-II	16576	
10/-11	11183	• 131-П	. 14002	159-1	16636	
105-1	· 10999	132-П	14070	160-II	16878	
106-1	11061	133-11	14133	I6I-I	17173	
107-II	II497	134		162-II	17238	
108-I	11428	. 135-П	14517 .		17306	
109		136-П	I4579 .	163-1	1,500	
IIO	- 1	137-11	14639			
III-I	II60I	I38-I	14698			
777-7		the state of the state of	Carlos Carlos			

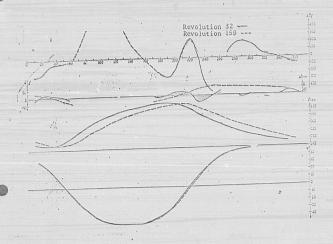


Figure 3

7. Map of Residual Field T at Altitude h = 400 km

The results of measurements made on the Cosmos-49 satellite were also summarized in the form of a map of the residual field of modulus T. This map was made on the basis of 4,000 measurements of T performed at various altitudes and corrected to an altitude of 400 km according to the gradients $\partial T/\partial h$, calculated from the spherical harmonic coefficients (see Table I). The values of the field of homogeneous magnetization for the same altitude were subtracted from the values of T_{400} , i.e. the field

of the first harmonic term was subtracted. Tree is shown on Figure 4. The distribution of Tree (figure 4) at the altitude of the Cosmos-49 retains all the primary features of the residual field at the surface of the earth: the centers of the world anomalies, the areas of large gradients both retain the same geographic distribution.

A comparison of T_{res} at 400 km and on the surface of the earth is presented below:

Longitude of	λ = 102°	Northern hemi λ = 190°	sphere $\lambda = 270^{\circ}$	Southern hemisphe $\lambda = 135^{\circ}$
epicenter of anomaly				
h In km	0 400	0 400	0 400	0 400 II200 8800
Tres	15300 11300	-2300 -1400	6100 3900	11200 0000
	- T		. 41-	

The lack of change in the position of the world anomalies when the distance from the surface of the earth is increased indicates the correctness of approximating their fields by radial dipoles located at great depths (MacNish, Rancorn, Aldridge, Pudovkin, et al.). The decrease in intensity of $T_{\rm res}$ at 400 km altitude corresponds to a location of the dipoles approximating the world anomalies a. the boundary of the core or near it (at depths of 2000-4000 km), which confirms the evaluations of Aldridge, made using surface data alone.

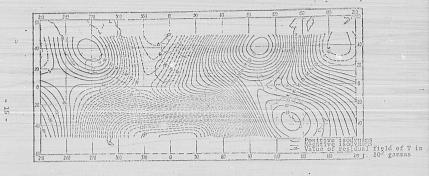


Figure 4

8. Spherical Analysis of Modulus T

The observations of modulus T made on the Cosmos-49 satel to were used to calculate the coefficients of spherical harmonic analysis by the method described in [5] and [6]. The analysis was performed for two samples of 4,000 measurement points each with a spherical harmonic series length n=9 and m=9 [7]. The mean square error in the reproduction of measured values of T was ± 15 gamma, although in the polar areas the error would be greater.

The coefficients produced (see Table III) can be used for calculation of the field in near earth space or can be used as an analytical representation of the world magnetic maps and maps of the "normal" field, but cannot be used to give information on regional anomalies.

9. Personnel

The program, technical assignment for the experiment and technical assignment for development of the measuring apparatus were made up by Candidate of Physical and Mathematical Sciences Sh. Sh. Dolginov and Senior Engineer of the Magnetic Laboratory of TEMERAN V. I. Nalivayko.

The magnetometric apparatus of Cosmos-49 was developed and prepared by the team of P.O. Box 244, Kiev, Sovnarkhoz, consisting of M. M. Chinchevoy, Zh. Dazhuk, E. A. Bulychev, G. V. Drov, B. G. Tavrovskiy, O. G. Nagasnik and T. Ya. Bezmen, under the leadership of M. M. Chinchevoy. Independent tests of the magnetometric apparatus, adjustment of the apparatus and geophysical correlation, as well as tests of all on-board equipment as assembled were performed by: M. M. Chinchevoy, V. I. Nalivayko, Sh. Sh. Dolginov and A. V. Tyurmin.

Decoding of satellite data and composition of the initial catalog of measured values of T correlated to absolute time were performed by a team at the Computations

Burcau of Box No. 2286 and by IZMIRAN, consisting of scientific workers R. Z. Brodskaya, G. N. Zlotyn, I. N. Kiknadze, A. R. Freydin and laboratory assistants:
R. D. Kutnetsova, I. P. Ivchenko, N. Yu. Protenko, V. N. Fursenko, T. D. Grishina and A. K. Pozorova. Primary processing of the experimental data, the composition of this catalog and graph set were performed by teams from the Constant Field Laboratory, the Computations Department and Magnetic Laboratory of IZMIRAN consisting of scientific colleagues: N. V. Adam, L. O. Tyurmina, T. N. Cherevko, N. A. Zhuravleva, L. V. Konovalova, and laboratory assistants: Z. F. Agafonnikova, T. N. Baranova, V. V. Blinova, T. D. Grishina, L. V. Kurakova, I. P. Ivchenko, Ye. Ye. Kanonidi, A. I. Tereshchenko, L. I. Ulanova and O. A. Krutikhovskaya, under the leadership of Doctor of Physical and Mathematical Sciences N. P. Ben'kova.

Editor -- Dr. of Physical and Mathematical Sciences V. P. Orlov

Table III. Coefficients Calculated from Measurements on Cosmos-49

72-772	977	h m	72-772	977	h n
T-0	-30362	-	7-0	+64	
I-I	-2149	+5707	7-I	-55	73
2-0	-1625	-	7-2	+4:	-27
2-I	+3000	-2013	7-3	+3	-I4
2-2	+1552	+ 204	7-4	-19	+12
3-0	+1297		. 7-5	- 8	+31
3-I	-2033	- 392 .	7-6	+13	-16
3-2	+1289	+ 264	7-7	-10	-13
3-3	+ 758	- 228	8-0	+16	
4-0	+ 976	-	. 8-I	+10	+4
4-I	+ 814	+ 138	8-2	- 9	-22 .
4-2	+ 486	- 308	8-3	-10	+ 2
4-3	- 388	- 2	8-4	- 6	-II
4-4	+ 266	- 174	8-5	+18	-2.
5-0	- 242	**	. 8-6	. +8	+26
S-I	+ 344	- 6	8-7	+16	-10
5-2	+ 262	+ 102	8-8	+8	- 8
5-3	- 5	- 99	9-0	0	-
5-4	- 174	→ I05	. 9-I	+5	-3I
5-5	- 42	+ 52	9-2	+12	+4
6-0	+ 62	* 60	9-3	-14	+13
6-I	+ 68	± 78	9-4	+10	- 2
6-2	+ 6	+ III2	9-5	+2 .	-6
6-3	- 226	+ 76	9-6	.0	+6
6-4	+ 2	- 58	9-7	+4	+9
6-5	- 20	4.5	9-8	+ 4	- 2
6-6	- 160	- 30	9-9	42	+1
0-0	- 100				

Note: Coefficients calculated for spheroidal earth.

BIBLIOGRAPHY

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Part I From No. 1 to No. 6205 .

Table Distribution of Catalog Numbers by Dates and Instruments

Instru- Date ment 1:	Numbers of points	Time .	Instru- Date ment II	Point numbers	Time
. 24/X	I-190	07 16-13 42	24/X	191-352	07 18- 13 44
	353-653	13 44-20 18		654-912	IS 44-20 I6
24-25/X	913-1167	20 18-02 52	24-25/X	II68-I437	20 18- 02 50
25/X	I438-1690	03 02-09 38	25/1	1691-1945	02 54-09 38
	1946-2216	09 38-16 12		2217-2480	09 38-16 10
	2481-2703	16 16-22 46		2704-2898	16 12-22 42
25-26/1	2900-3148	23 02-05 18	25-26/X	3149-3417	22 45-03 18
26/X	3418-3599	05 20-09 52	26/X	3600-376I	05 20-09 52
	3762-4013	II 56-I8 20		4014-4247	II 56-I8 20
26-27/X	4248-4443	00 30-05 40	27/1	4444-4637	-00 30-05 38
27/1	4638-4884	03 52-15 20		4885-5134	08 54-15 26
	5135-5396	I5 26-21 50 ·		5397-5645	15 26-22 00
27-28/X	5646-5927	21 54-04 24	27-28/X	5928-6205	22 00-04 26
15. 4					

Point Time Height num- hr min in km Tomeas Totheor

Instrument | 24 October

CBI								
T	07	06	282,5	+21,24	102,95	38402	38392	, + IO
2		06	287,I	+18,07	105,93	06962	26930	+ 32
3		20	292,2	+14,86	108,78	35794	35692	+102
4		22	297,9	+11,61	111,50	34922	3476I .	+160
5		22	304,I	+ 8,33	114,21	34476	34200	+276
6		24	310,8	+ 5,04	116,84	34322	34037	+284
7		24	317,9	+ 1,74	119,43	34582	34275	+307
8		26	325,4	- 1,55	122,00	35192	94880	+311
9		26	933,3	4,83	124,58	36113	35802	+311
TO		28	341,5	- 8,10	127,18	37255	36968	+286
II .		30	358,5	-14,53	132,51	39985	39730	+254
12		30	367,3	-17,68	135,28	41399	41174	+225
13		32	376,I	-20,77	138,15	42771	4257I	+200
14		34	385,0	-23,80	141,15	44024	43868	+155
15		36	402,6	-29,59	147,59	46101	4602I	+IIO
16		38	419,5	+34,94	154,80	475II	47466	+ 44
17		38	427,6	-37,41	158,76	47922	47915	+ 7
18		40	435,4	-39,71	162,98	48148	48189	- 4I
19		40	442,7	-41,82	167,50	48212	48296	- 85
20		42	449,7	-43,71	172,30	48108	48246	-139

CATALOG OF MEASURED AND CALCULATED VALUES OF GEOMAGNETIC FIELD INTENSITY MODULUS ALONG ORBIT OF SATELLITE COSMOS-49

Part II

From No. 6206 to No. 12336

24 October-4 November 1964

Sh. Sh. Dolginov, V. N. Nalivayko, et al Editor: V. P. Orlov

institute of Terrestrial Magnetism, the lonosphere and Propagation of Radio Waves, Academy of Sciences USSR, Moscow, 1967

Explanation of Numerical Tables of Catalog

- 1. Ordinal number of measurement
- Moscow time in hours and minutes. Moments of time rounded off to even minutes in correspondence with time scale of standard magnetograms (20 mm-60 min).
 - 3. Height h, at which measurement was performed, in kilometers.
- 4-5. Geographical coordinates to 0.01°. North and south latitudes distinguished by sign, longitude, from Greenwich, always east.
 - 6. Measured value of intensity modulus T in gammas.
 - 7. Theoretical (calculated) values of intensity modulus in gammas.
 - 8. Difference $\Delta T = T_{meas} T_{theor}$ in gammas.

For technical reasons, processing of the experimental material was done first for measurements made by the first instrument, then by the second. 360 measurements were put in the machine simultaneously. In order to simplify composition of the overall numeration of the catalog, the numbers were given in the following order: ~360 measurements by the first instrument, then ~360 measurements, covering the same interval of trajectory and time, by the second instrument. Subsequently, the next numbers were assigned for the next segment of the trajectory by the first instrument, etc. Changes of instruments and dates are indicated. The distribution of ordinal numbers by instruments is given before the numerical tables in each portion of the catalor.

Column 8 shows the difference between T_{meas} and T_{theor}. It was produced using values of T_{meas} and T_{theor} which had not been rounded off, and may differ by one gamma from the data produced directly from the catalog.

Table
Distribution of Catalog Numbers by Dates and Instruments

nstru- D	ate	Nur	bers		Tim	e		Instru- ment II	Date	Number poin			TIm	le ·	
						•									
	28/X	6209 -	6345	04	24 -	07	28		. 58\X	6346	6467	0	4 28	8-07	28
1		: 6468 -	674I	07	52 -	I4	IO.			6742 -	6982	.0	7 52	2-14	IO
		6984 -	7247	14	10 -	20	40			7248 -	7498	. I	4 I	0-20	44
2	8-29/X	7499	7763	20	44 -	03	IS.		28-29/X	7764	8026	2	0 45	5-03	I8
	29/X	8027 -	8274	.03	18 -	09	52		29/X	. 8275	8522	0	3 18	8-09	52
1 11.7		8524	8753	10	20	I6	22			8755 -	8990	. 0	9 51	1-I6	20
		8991 -	9068	16	28 -	I8	16			9069 -	9137	I	6 28	8-18	16
		9138	9245	. 18	22 -	21	18			9246 -	9356	. 1	8 2	2-21	14
. 2	9-30/X	9357 -	9626	21	20 -	03.	54		29-30/X	9627 -	9863	2	I 20	0-03	54
1 3	2/0	9864 -	IOISS	03	56	10	28		: 30/X	10123 -1	0347	0	3 56	6-IO	28
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		10809 -	11072	17	02 -	23	36			11073 -1	1325	· I	7 08	2-23	36
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	. 207 K		22	305,6	+48,60	40,77	43418	43633	-215
1 1	208 ^N		24	299.8	+49.04	47,08	44399	44668	-269
	200		24	294,4	+49,II	53,48	45432	45700	-268
	210	04		280,4	+47,04	72,13	47950	48255	-305
	SII		28	276.5	445,65	77,89	48439	48702	-263
	515	04	30 '	273,2	+43,95	83,34	48633	45337	204
	213 .	04	32	270,3	+41,99	88,46	48480	48613.	-104
	214	04	36	264,6 -	+32,03	105,71	44082	44120	-38
	215	04	36	264,7	+29,16	109,35	42321	42331	-10
	216	04	38	265,4	+26,18	112,76	40467	40449	+18
	217	04	40	268,8	+19,96	119,06	36976	36850	+126
	218	04	40	271,5	.+16,76	121,99	35554	35351	+202
	219	04	42	274,8	+13,51	124,82	34474	34178	+295
	220	04	44	278,8	+10,23	127,56	33773	33399	+374
	221	04	44.	283,3	+ 6,92	130,24	33495	3305I	+443
	222	04	46 .	288,5	+ 3,60	132,86	3364I	33140	+500
	223	04	46	294,2.	+ 0,28	135,47	34159	33638	+521
	224	-04	48	300,5	- 3,03	138,06	35000	34489	+511
	225	04	48	307,3	- 6,34	140,67	36115	35618	+496
	226	04	50	314,5	- 9,62	143,31	37407	. 3694I	+465
	227	04	50 .	322,I	-12.87	146,00	38777	38368	+408

Note: $^{\rm XX}$ points with numbers 6206-6209 [Part II] correspond to numbers 5924-5927 [Part II].

CATALOG OF MEASURED AND CALCULATED VALUES OF GEOMAGNETIC FIELD INTENSITY MODULUS ALONG ORBIT OF SATELLITE COSMOS-49

Part III

From No. 12337 to No. 17489

24 October-4 November 1964

Sh. Sh. Dolginov, V. N. Nalivayko, et al Editor: V. P. Orlov

Institute of Terrestrial Magnetism, the lonsophere and
Propagation of Radio Waves,
Academy of Sciences USSR, Moscow 1967

Explanation of Numerical Tables of Catalog

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- Moscow time in hours and minutes. Moments of time rounded off to even minutes in correspondence with time scale of standard magnetograms (20 mm-60 min).
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Column 8 shows the difference between T_{meas} and T_{theor} . It was produced using values of T_{meas} and T_{theor} which had not been rounded off, and may differ by one gamma from the data produced directly from the catalog.

Table

Distribution of Catalog Numbers by Dates and Instruments

ment 1:	points	me	ne ii	Humbers	
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31, X-1, X1 1-X1 1, X1-2, X1 2-X1 2-3-X1 3-X1	12337-12624 12883-13147 13394-13567 13721-13937 14193-14473 14745-14947 15115-15553 15993-1595 15992-16240 16492-16684 16884-71726 17395-17439	19 12-01 46" 01 38-03 12 08 05-12 02 12 12-18 22 18 40-01 14 01 14-07 48 07 48-14 20 14 26-20 58 20 58-03 30 03 30-10 04 10 04-16 38 16 38-17 48	31,X-1,X1 1-X1 . / 1-2-X1 2-X1 2-3-X1	12625-12882 -13148-13393 -13568-13720 13938-14192 14475-14744 14948-15114 15356-15592 15776-15991 16241-16491 16685-16883 17127-17394 17440-17489	19 ³ 12 ² 01 ³ 46 ²⁷ . 01 39-08 12 08 06-12 02 12 06-18 20 18 40-01 14 01 14-07 AS 07 50-14 22 14 22-20 58 20 58-08 30 03 03-10 02 10 08-16 38 16 38-17 48

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. 3	15	19	22	417,9	+22,78	95,16	36523	36574.	- 52
::3	7	19	22	411,4	+25,73	98,22	37993	. 37995	- 3
3	18	19	24	404,6	+28,60	101,44	39433	39460	- 28
3	9	19	26	397,8	÷31,38	104,87	40895	40891	+ 3
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35	I	19	30	361.7	+43,2I	125,99	44967	45161	-195

+46,46 +47,65 131,16 44930 45161 -231

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12410 17 438427.6-37.41158.764752247920 2 12410 18 440435.4-39.71162.98421484814 12410 18 440435.4-39.71162.98421484814 127.440439.1-49.79165.214819346193 - 2	ENGIN 240
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3 2 12410 22 444462-1-46-74182-8947458474-99 -3 22410 210 446470-0-	
48.25191.354667646643 33 22410 211 446474.55-88.86197.274594945933 16 8	•
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1 311170,901282468,5-120,53 76.66383513 288,19 79.993860738815 -12 0 9 311173501286476. 1 311170,921256471.1-22.45 86.12389423 20.99 87.833379138814 -23 0 149 1 311170,941288472 2 311173631258472,0-14.95 93.01376333	1301 -10 1 31117091125840946 16-23,93 84.6235993391 2 311173621288472 11-16.45 91.7038014380 7656 -23	2 311173691254409.1-26.80 81.563898 9-25.35 83.13391139018 -7 pin -26 2 3111736112564 1 31117.931258471.9-19.47 88.973875 0-17.99 77.323832738350 -23 2 3111736413 0471.5-11.87 95.623677	71.6- RLC 93861	10, LENGTH 2401
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1 311170,891252465,5-20.93 76.66383513 28.19 79.993860738815 -12 0 9 2 311173501256470. 1 311170,921256471.1-22.45 86.12389423 20.99 87.533679138814 -23 0 149 1 311170,941258472 2 311173631258472.0-14.55 93.01376333 13.39 94.343722437231 -7 2 -7 2 3111736513 2476	13e1 -10 1 311179911250409 8 1 23 94 84 823599339 2 311173621258472 1 1 16 4 91 70 90 10 386 2 5 117 99 13 6471 1 311179913 6471 1 -8 75 98 165577135	2 311173591254409.1-26.80 81.563898 9-25.35 83.133901139018 -7 919 -26 2 3111735112564 1 31117.931258471.9-19.47 88.973875 9-17.99 90.323832738350 -23 923 -3 1 111709513 4 2 3111736413 0471.5-11.87 95.623677 1-10.29 96.913628436287 -3 792 -21 1 3111709713 24	71.6- REC 93861 71.8- 93678	10. LENGTH 2401
1 311170,801282465,5-10.53 76.66383513 28.19 79.993860738815 -12 0 9 2 311173601286470. 1 311170,921256471.1-22.45 86.12389423 20.99 87.533679138814 -23 0 149 1 311170,941288472 2 311173631258472.0-14.55 93.01276333 13.99 94.342722437231 -7 2 -7 2 3111736613 2470 2 2111736613 2469.1 -5.62100.66346773	13e1 -10 1 311179911250409 8 1 23 94 84 823599339 2 311173621258472 1 1 16 4 91 70 90 10 386 2 5 117 99 13 6471 1 311179913 6471 1 -8 75 98 165577135	2 311173591254409.1-26.80 81.563898 9-25.35 83.133901139018 -7 919 -26 2 3111735112564 1 31117.931258471.9-19.47 88.973875 9-17.99 90.323832738350 -23 923 -3 1 111709513 4 2 3111736413 0471.5-11.87 95.623677 1-10.29 96.913628436287 -3 792 -21 1 3111709713 24	71.6- REC 93861 71.8- 93678	10, LENGTH 2401
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