755 001

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OPEN FILE

EXPLORATION LICENCE 32/86 - ST PATRICKS RIVER

ANNUAL REPORT : YEAR 1

(20 August, 1987 - 19 August, 1988)

MINES DEPARTMENT

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V. HOFTO

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88-2841

CONTENTS

	PAGE
TENEMENT INFORMATION	1
EXPLORATION PHILOSOPHY AND OBJECTIVES	1
SUMMARY OF WORK COMPLETED IN YEAR 1	1
REGIONAL SURVEYS	1
CONCLUSIONS & RECOMMENDATIONS	4
PROPOSED FUTURE EXPLORATION	4

LOCATED DATA TAPE AND FORMAT HELD IN RECORDS UNTIL REPORT RELEASED TO OPEN FILE

LIST OF FIGURES

PAGE

Figure 1. EL 32/86 Location Map 2

LIST OF APPENDICES

Appendix 1. Aeromagnetic and Radiometric Survey
- a Flight Path Map
- b Magnetic Intensity
- c Potassium Count
- d Thorium Count
- e Uranium Count
- f Total Count

Appendix 2. Magnetic Intensity and Radiometric Counts by Flight Line

a	Line 20020	h	Line 20060
b	Line 20021	i	Line 20070
ci	Line 20030	j	Line 20071
cii	Line 20030	k	Line 20080
d	Line 20031	l	Line 20081
ei	Line 20040	m	Line 20090
eii	Line 20040	n	Line 20091
f	Line 20050	o	Line 20101
g	Line 20051	p	Line 20110

Appendix 3. Magnetic Intensity and Radiometric Counts by Flight Line at 1:250,000 horizontal scale

a	Line 20020	j	Line 20071
b	Line 20021	k	Line 20080
c	Line 20030	l	Line 20081
d	Line 20031	m	Line 20090
e	Line 20040	n	Line 20091
f	Line 20050	o	Line 20101
g	Line 20051	p	Line 20110
h	Line 20060		
i	Line 20070		

Appendix 4. Contractor's Report on the Airborne Geophysical Survey.

Appendix 5. 1:250,000 Geological Map of the Launceston Sheet Showing Magnetic Intensity and Total Radiometric Counts Related to Zones of Gold Workings

TENEMENT INFORMATION

EL 32/86 is a 63 km^2 tenement in the St Patricks River area, NE Tasmania (Figure 1). The licence was granted on 10 August 1987 for a licence year covering the period 20 August 1987 to 19 August 1988.

The licence is owned 100% by Aureole N.L. On 11 September 1987 Aureole entered into an agreement with Star Mining and Exploration Company Pty. Ltd. whereby Aureole acquired the licence from Starmec. A notification of transfer has been lodged with the Director of Mines.

EXPLORATION PHILOSOPHY AND OBJECTIVES

The primary objective is to explore for open cuttable gold mineralisation in quartz veins, stockwork and the country rocks. Secondary objectives include exploration for underground mining of gold mineralisation in quartz veins and possible alluvial potential.

SUMMARY OF WORK COMPLETED IN YEAR 1

Aureole N.L. and Placeco Australia Pty. Ltd. are related companies and together hold five ELs in the NE Tasmanian gold province. A decision was made to explore the ELs individually or in groups in such a way that the collective techniques might prove best-suited to exploring for gold throughout the area as a whole.

Accordingly, close-spaced low altitude aeromagnetic and radiometric surveys were conducted on ELs 27 and 34/86 with a view to identifying mineralised fault and fracture zones within the Mathinna Group. On EL 35/86 detailed mapping and assaying of the old workings was undertaken to analyse the geometry of the mined vein and to investigate whether or not the adjacent country rock was mineralised. It was decided on ELs 31 and 32/86 to link the workings on these ELs by way of a low altitude aeromagnetic and radiometric survey to all the major old gold workings in NE Tasmania. It was hoped that the deposits might have a geophysical signature or at least groups of mines might be located on similar geophysical trends.

REGIONAL SURVEYS

Appendix 1a shows the flight path of the airborne magnetic and radiometric survey. The specifications of the survey are detailed in the contractor's report (Appendix 4). The survey was flown between 60 and 100m giving detailed profiles through all the major workings. It was intended that another ENE trending line be flown from west of Beaconsfield, almost parallel with the coast, crossing the old Lyndhurst and Gladstone workings, to the coast at Boulder Point. It was also intended to extend Line 20060 to St Helens, but, in both instances, foul weather persisted and these have been postponed until another survey is undertaken elsewhere on the company's licences.

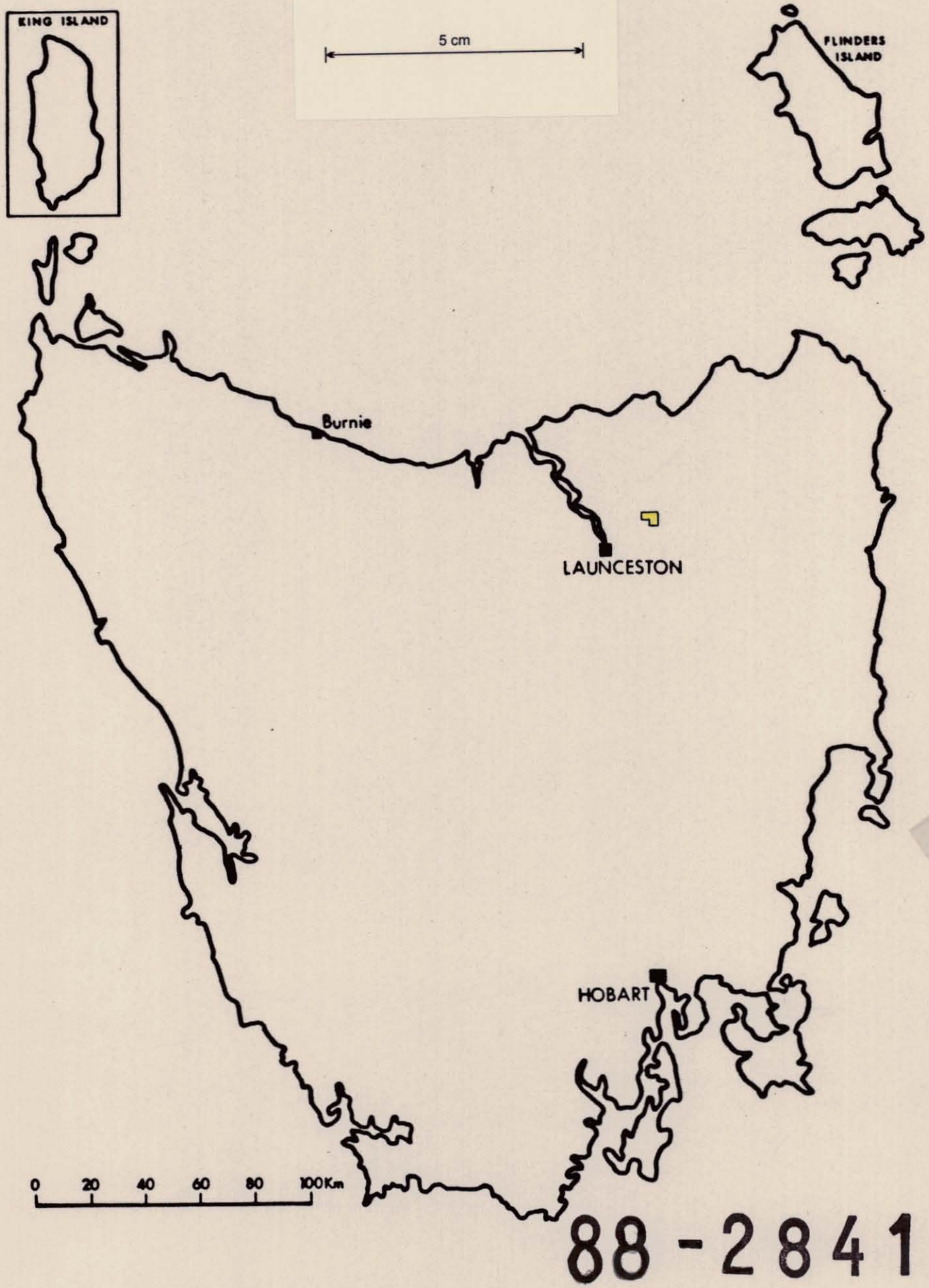

Figure 1. Location Map - EL 32/86, St Patricks River.

The other appendices under Appendix 1 show the individual profiles for each recorded entity on the same 1:250,000 base. These maps allow gross correlations from one profile to the next and gross regional trends to be established.

The profiles are presented in Appendix 2 by flight line. These profiles record the basic data and would be essential for detailed analyses.

It was found useful to re-order the profiles, alter scales in some instances, and record all profiles by flight line number on a single sheet at 1:250,000. These profiles are shown in Appendix 3.

A paper print is provided of all appendices and a reproducable sepia copy of all appendices is here submitted in conjunction with the annual report for EL 31/86.

Correlation of the major features on the magnetic intensity and total radiometric count profiles is shown on Figure 5. These gross trends show a distinct parallelism with the old gold workings. It must be noted that a detailed examination of the individual profiles will be undertaken in the second permit year in order to extract further information. However, some regional correlation and comments can be made.

The most noticeable features on the magnetic intensity profiles is the marked change in slope along the Lisle - Golconda - St Patricks - Burns Creek trend. To the east the profiles typically reduce slowly in intensity eastwards. A marked high occurs 2 to 3 km east of the low trend which is some 3 to 5 km east of the workings. To the west of the low the profiles are still "seeing" the granodiorite as evidenced in outcrop data near Burns Creek. However, the magnetic intensity is somewhat lower and does not uniformly increase or decrease westwards.

The radiometric boundaries towards the Mathinna - Mangana - Lyndhurst trend show considerable persistence, again in a NNW direction. Considerably more can be gained on the composition of the various granites and granodiorites by comparison of relative abundances of the radiometric minerals.

A careful analysis of the individual profiles is not going to expose a "universal" geophysical indicator of gold mineralisation but important regional data have been gained. The Glen and St Patricks River lie on seperate trends, both trends become more northerly, as does the outcrop of the granodiorite, towards Golconda and Lisle. This change is a noticeable departure from the NNW trend in the Mathinna Group towards The Glen - Lefroy which lies on a seperate radiometric trend. It is tempting to relate gold mineralisation to this local edge in the granodiorite and to imply that the common east to west veining of the NNW trends is an expression of sinistral motion along the latter, possibly caused by emplacement of the granodiorite. On the other hand, these NNW trends might be indicating structural control over mineralisation which could pre-date the granodiorite.

Certainly the magnetic high is consistently east of the Lisle - Burns Creek trend and no magnetic signature is related to the major Lyndhurst - Mathinna - Mangana trend. Interestingly, wherever large outcrops of Mathinna are preserved, there is some gold mineralisation often on east-west zones which can generally be related to NNW trends.

CONCLUSIONS AND RECOMMENDATIONS

While more regional analysis of the airborne magnetic and radiometric profiles will enhance our knowledge of the the possible controls of granodiorite bodies and/or earlier structural control over mineralisation, detailed profile analysis could be holding valuable data of exploration importance.

PROPOSED FUTURE EXPLORATION

Detailed interpretation of airborne magnetic and radiometric profile analyses will be undertaken in year 2 as well as mapping and assaying of the old workings.

146°45'
147°00'
147°15'
147°30'
147°45'
148°00'
148°15'
148°30'

5475000
5450000
5425000
5400000

41°00'
41°15'

475000
500000
525000
550000
575000
600000
625000

FLIGHT PATH MAP

Job 2052
Area NE TASMANIA
Scale 1 : 250000
Sheet AREA-2

APPENDIX 1a

88-2841

755008

5 cm

008

146°45'
147°00'
147°15'
147°30'
147°45'
148°00'
148°15'
148°30'

5475000
5450000
5425000
5400000

41°00'
41°15'
41°30'

20030
20040
20050
20060
20070
20071
20080
20081
20090
20091
20101
20110

475000
500000
525000
550000
575000
600000
625000

MAGNETIC INTENSITY

Job 2052
Area NE TASMANIA
Scale 1 : 250000
Sheet AREA-2

5 cm

APPENDIX 1b

88-2841

755009

009

146°45'
147°00'
147°15'
147°30'
147°45'
148°00'
148°15'
148°30'

5475000
5450000
5425000
5400000

41°00'
41°15'
41°30'

20030
20031
20040
20050
20051
20060
20070
20071
20080
20081
20090
20091
20101
20110

475000
500000
525000
550000
575000
600000
625000

POTASSIUM COUNT

Job 2052
Area NE TASMANIA
Scale 1 : 250000
Sheet AREA-2

755010

5 cm

APPENDIX 1c

88-2841

010

146°45'
147°00'
147°15'
147°30'
147°45'
148°00'
148°15'
148°30'

5475000
5450000
5425000
5400000

41°00'
41°15'
41°30'

20031
20040
20030
20050
20051
20060
20080
20071
20070
20081
20090
20101
20110

475000
500000
525000
550000
575000
600000
625000

THORIUM COUNT

755011

Job 2052
Area NE TASMANIA
Scale 1 : 250000
Sheet AREA-2

5 cm

APPENDIX 1d

88-2841

7583

146°45'
147°00'
147°15'
147°30'
147°45'
148°00'
148°15'
148°30'

5475000
5450000
5425000
5400000

41°00'
41°15'
41°30'

475000
500000
525000
550000
575000
600000
625000

URANIUM
COUNT

Job 2052
Area NE TASMANIA
Scale 1 : 250000
Sheet AREA-2

5 cm

APPENDIX 1e

88-2841

755012

7585

146°45'
147°00'
147°15'
147°30'
147°45'
148°00'
148°15'
148°30'

5475000
5450000
5425000
5400000

41°00'
41°15'
41°30'

475000
500000
525000
550000
575000
600000
625000

TOTAL RADIOMETRIC COUNT

Job 2052
Area NE TASMANIA
Scale 1 : 250000 755013
Sheet AREA-2

APPENDIX 1f

88-2841

7584

88-28411
755014

APPENDIX 2a

line	20020	job	2052
flight	5	area	NE TASMANIA
direction	1	batch	1
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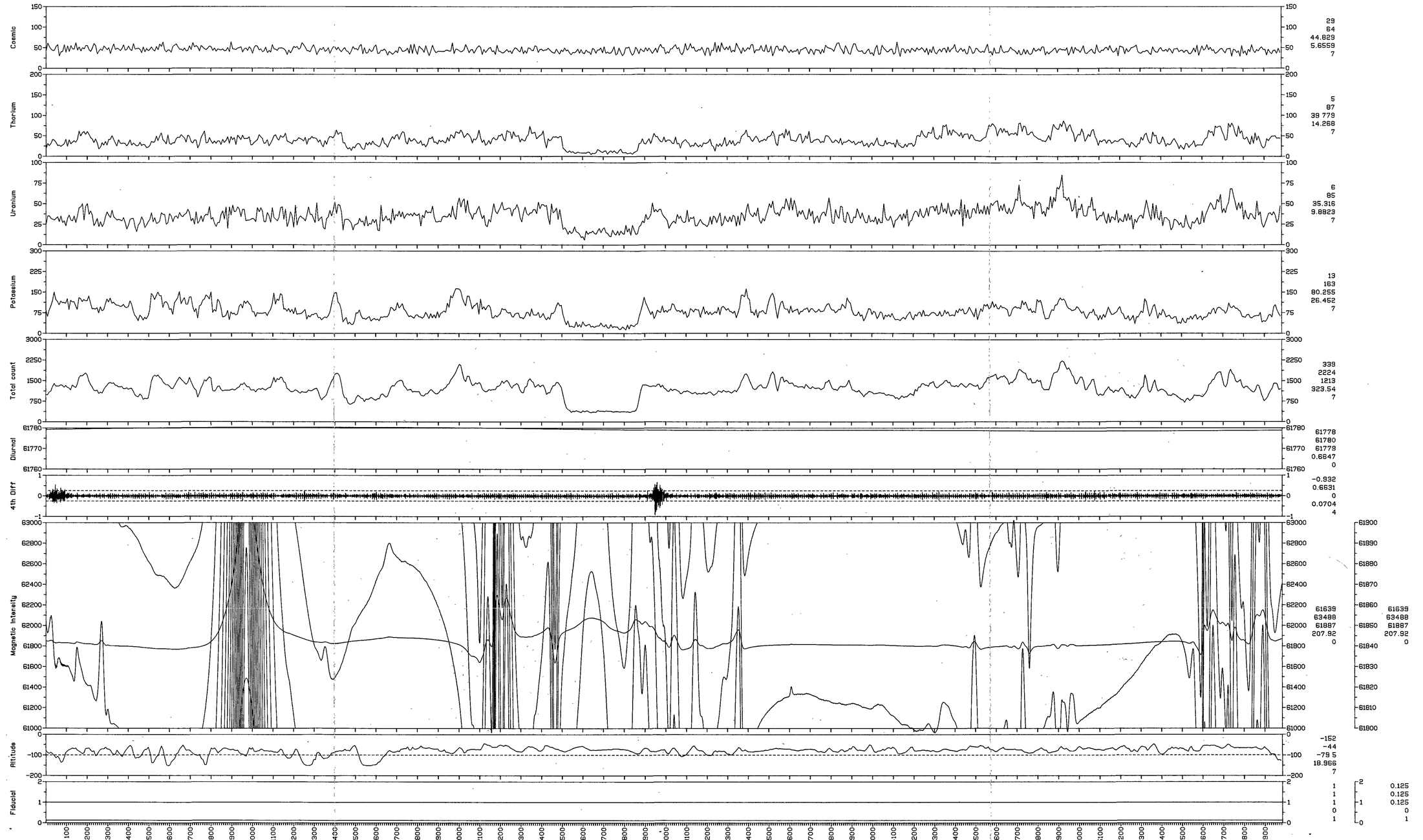
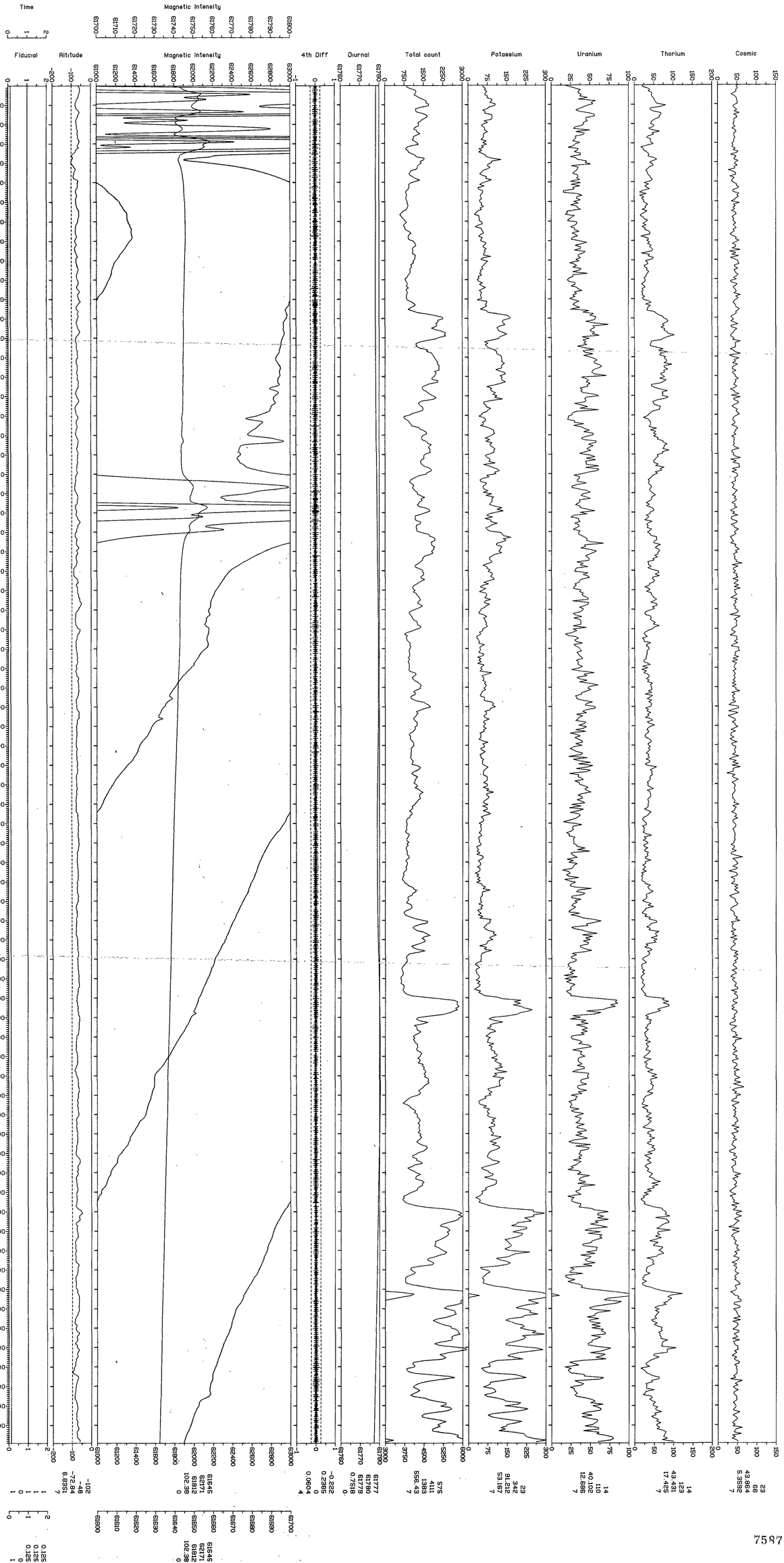
time flown	04:14:47	time	14:39:14
	04:27:14.88		
fiducial	1		5984



88-2841 755015

APPENDIX 2b

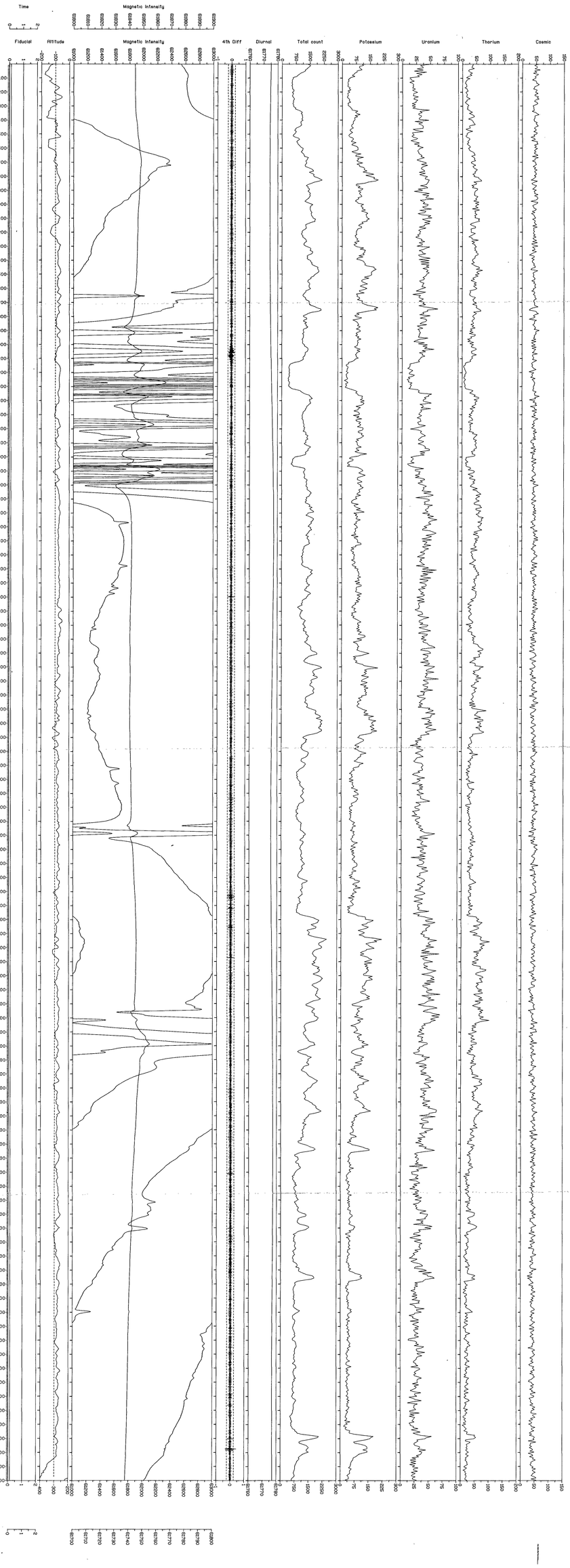
line	20021	job	2052
flight	5	area	NE TASMANIA
direction	1	batch	1
date flown	26oct87	date	21jan88
time flown	04:31:20 04:45:53 87	time	15:43:31
fiducial	1 6992		



88-2841 755016

APPENDIX 2ci

ne	20030	job	2052
flight	5	area	NE TASMANIA
direction	1	batch	1
date flown	26oct87	date	21jan88
time flown	00:40:26 01:05:24.87	time	17:05:34
fiducial	1 11992		

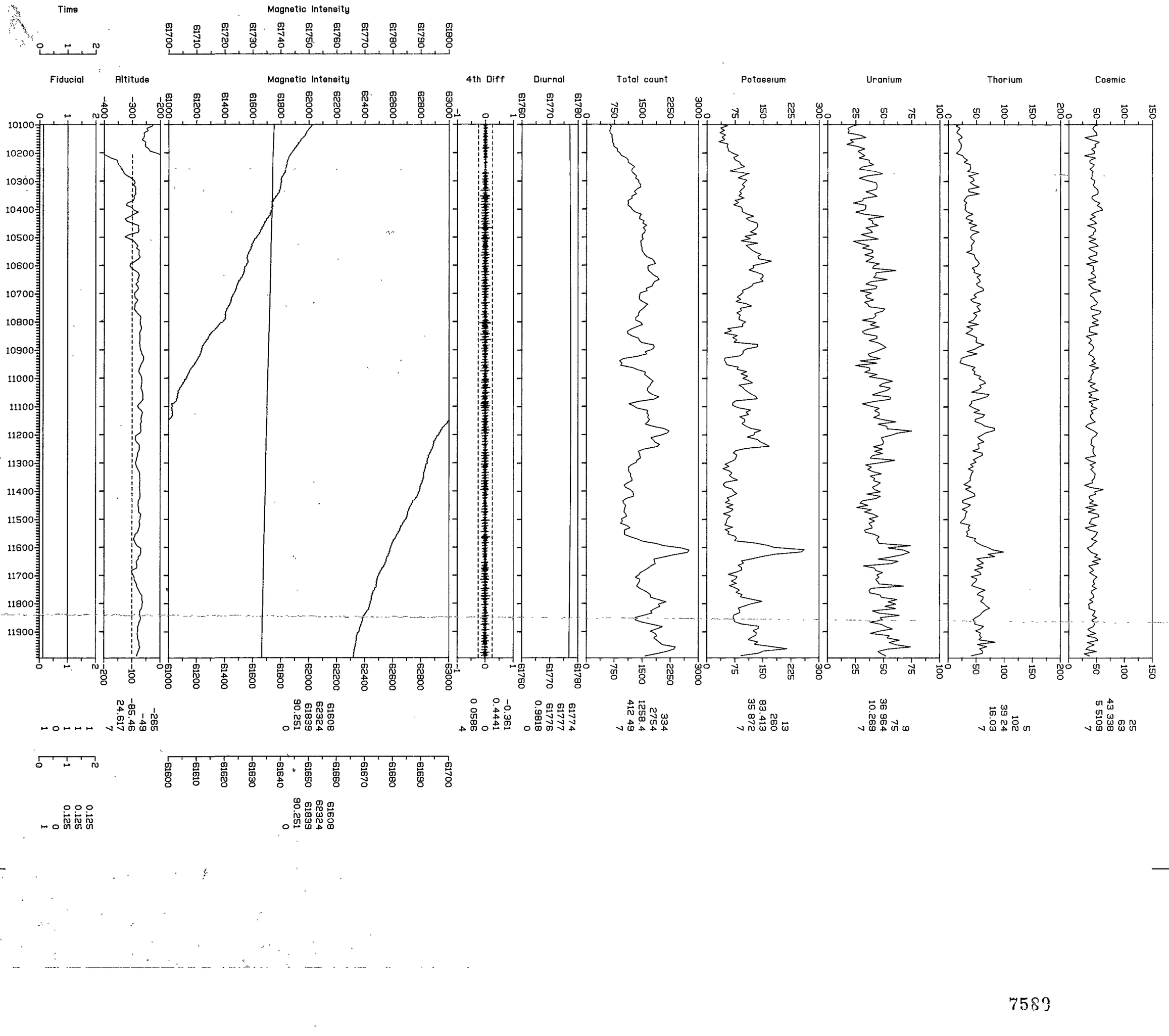


755017

88-2841

APPENDIX 2cii

line	20030	
flight	5	
direction	1	
date flown	26oct87	
time flown	00:40:26	01:05:24.87
fiducial	1	11992



7589

88-2841

APPENDIX 2d

75501S

line	20031		job	2052
flight	5		area	NE TASMANIA
direction	1		batch	1
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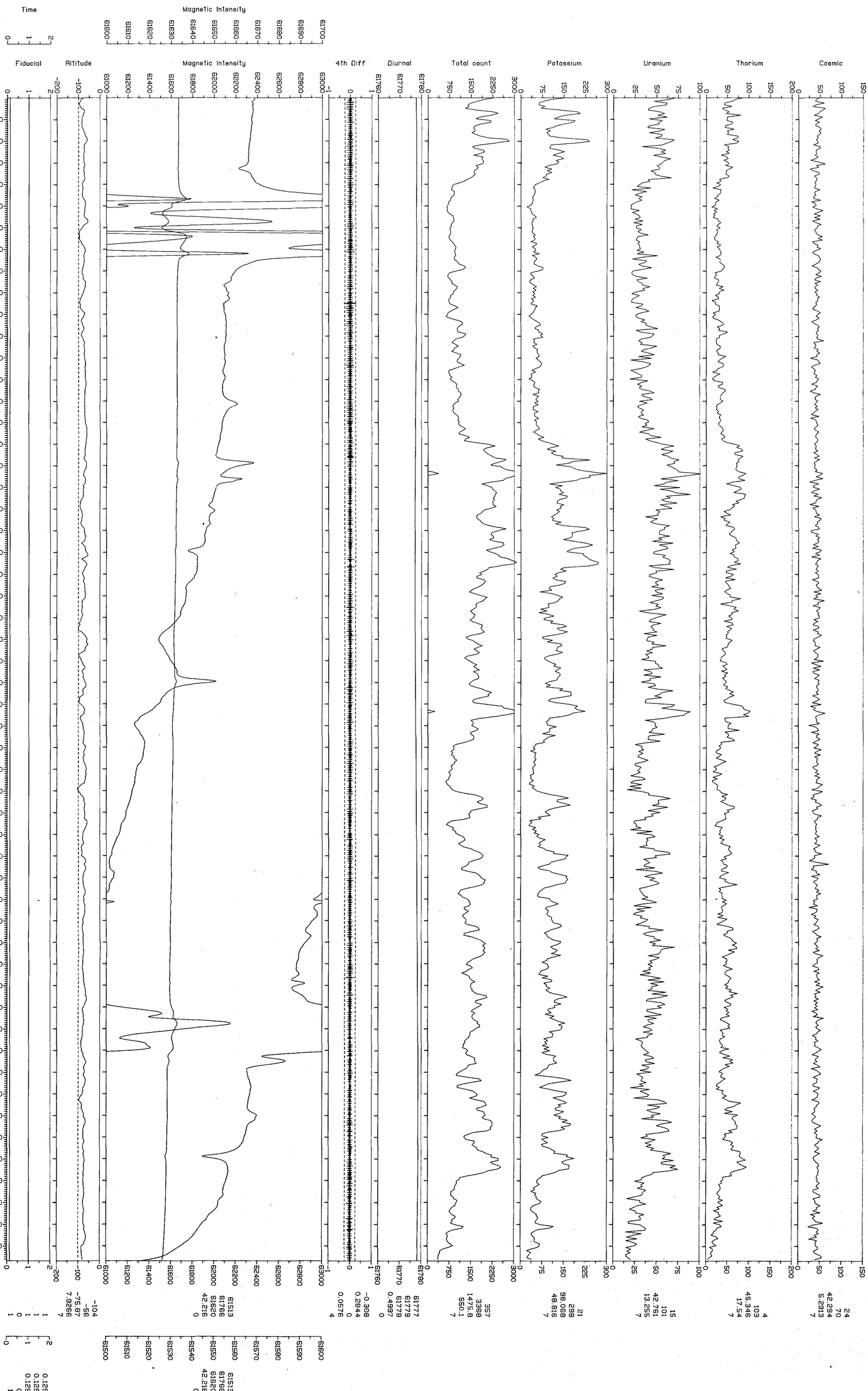
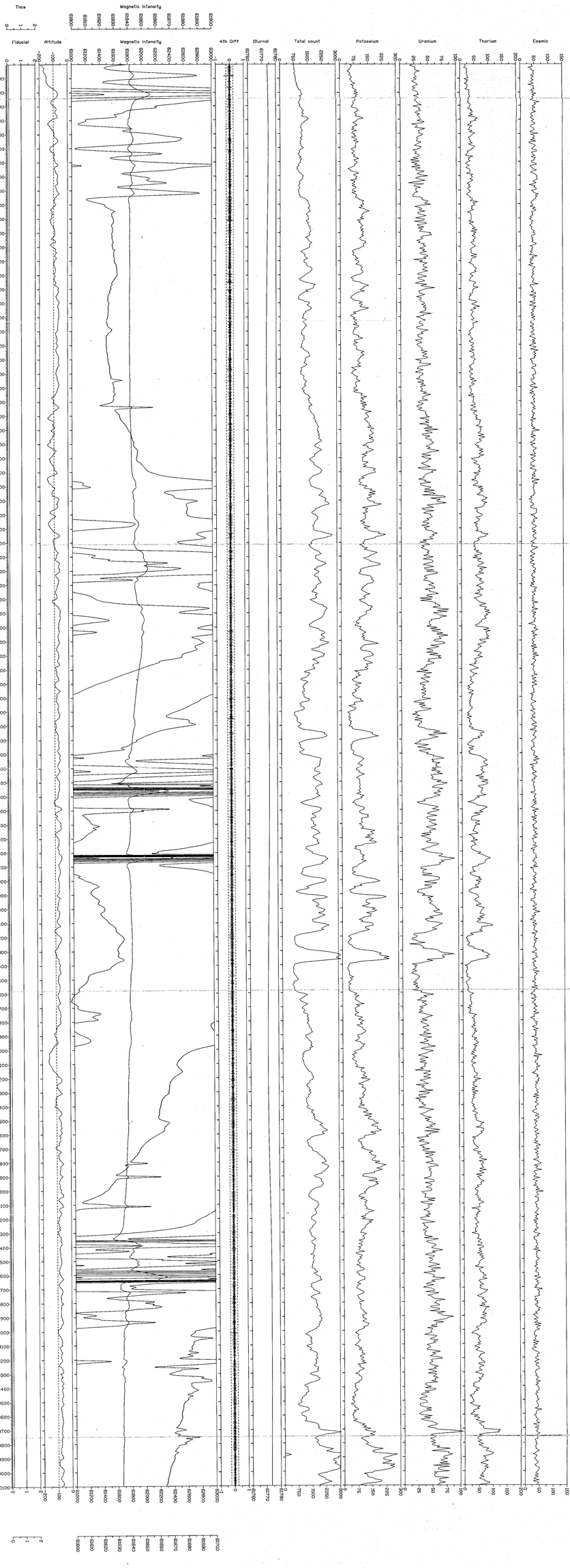
time flown	01:08:15	01:19:25.87	time	18:35:32
fiducial	1	5368		



7590

APPENDIX 2ei

line	20040	job	2052
flight	5	area	NE TASMANIA
direction	1	batch	1
date flown	25oct87	date	21jan88
time flown	23:37:46 24:07:00.87	time	19:29:47
fiducial	1 14040		

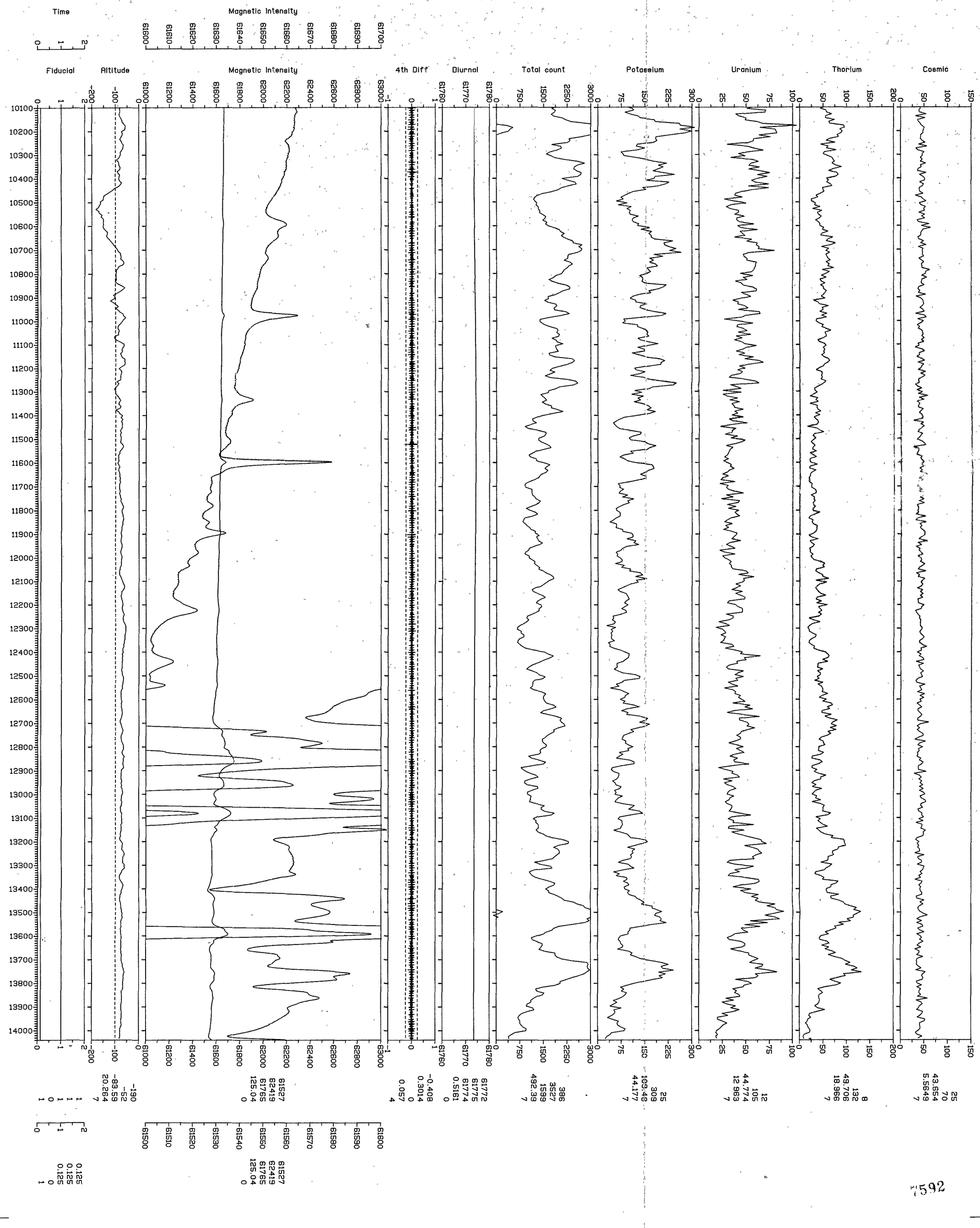


88-2841

755090

APPENDIX 2eii

line	20040	
flight	5	
direction	1	
date flown	25oct87	
time flown	23:37:46	24:07:00.87
fiducial	1	14040

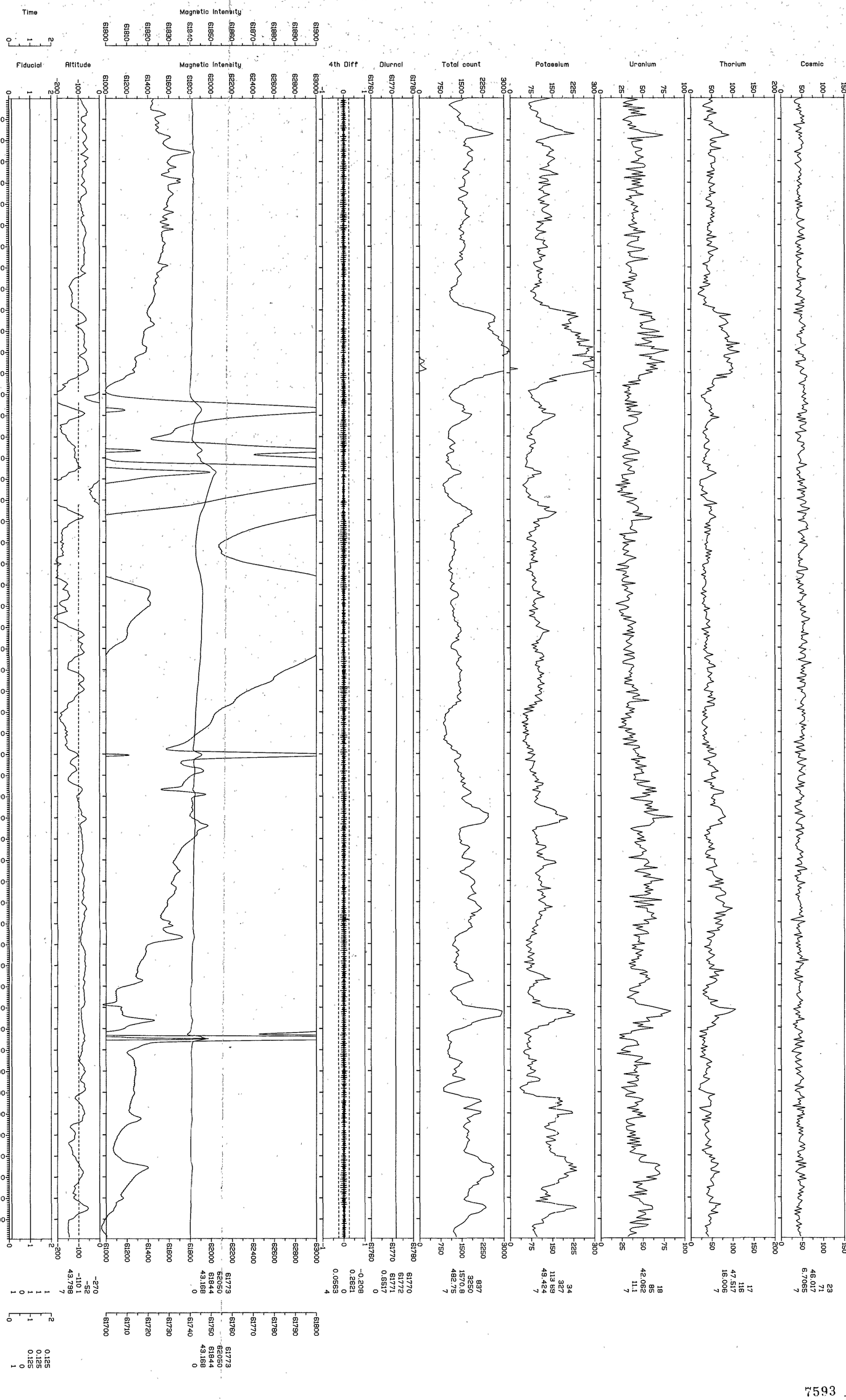


88-2841

755021

APPENDIX 2f

line	20050	job	2052
flight	5	area	NE TASMANIA
direction	1	batch	1
date flown	25oct87	date	21jan88
time flown	23:00:29 23:11:42.88	time	20:26:49
fiducial	1 5392		



88-2841

755022

APPENDIX 2g

line	20051		job	2052
flight	5		area	NE TASMANIA
direction	1		batch	1
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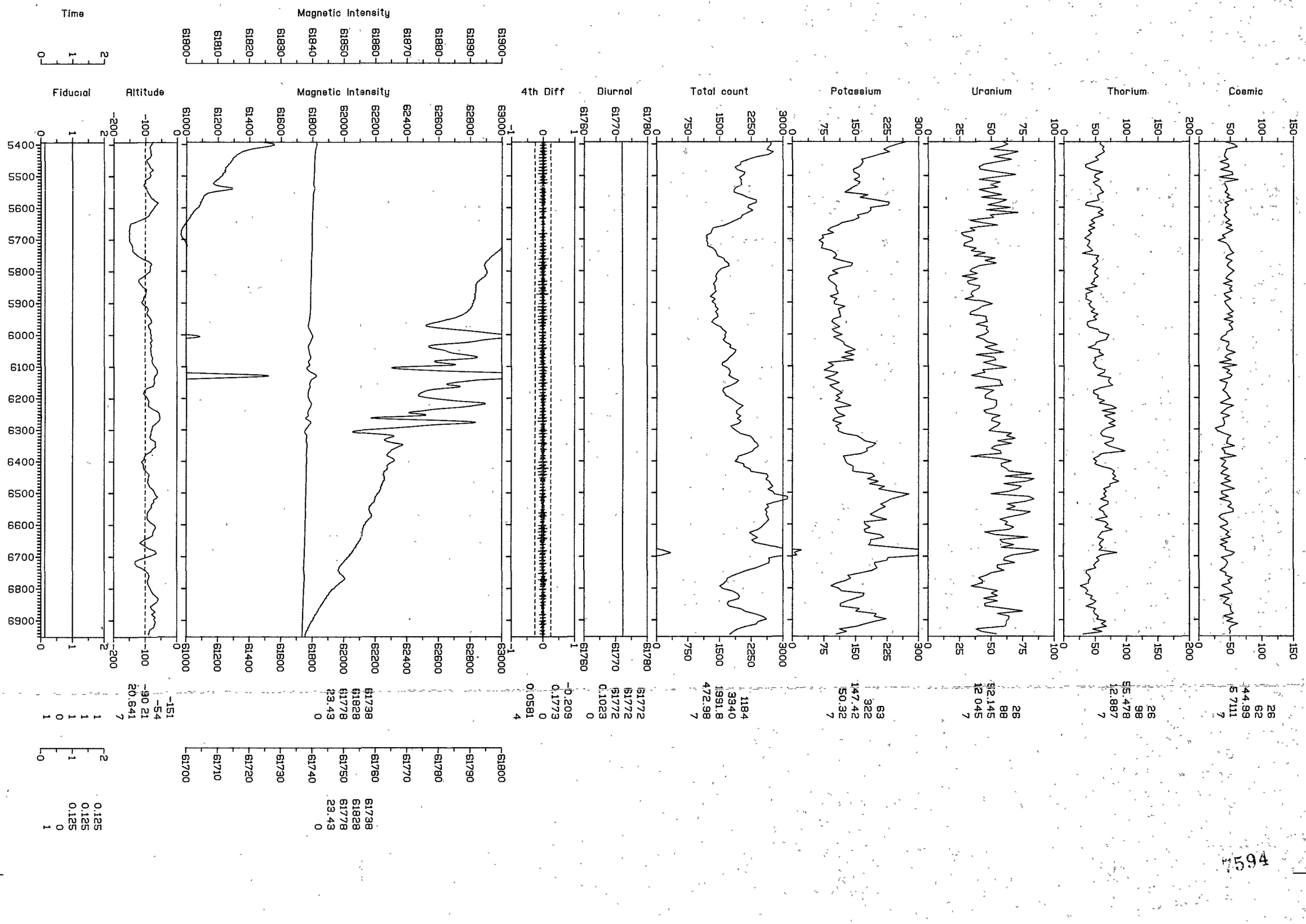
time flown	23:14:03	23:17:17.88	time	20 50 47
fiducial	5393	6952		



88-2841

755023

APPENDIX 2h :

line	20060		job	2052
flight	5		area	NE TASMANIA
direction	1		batch	1
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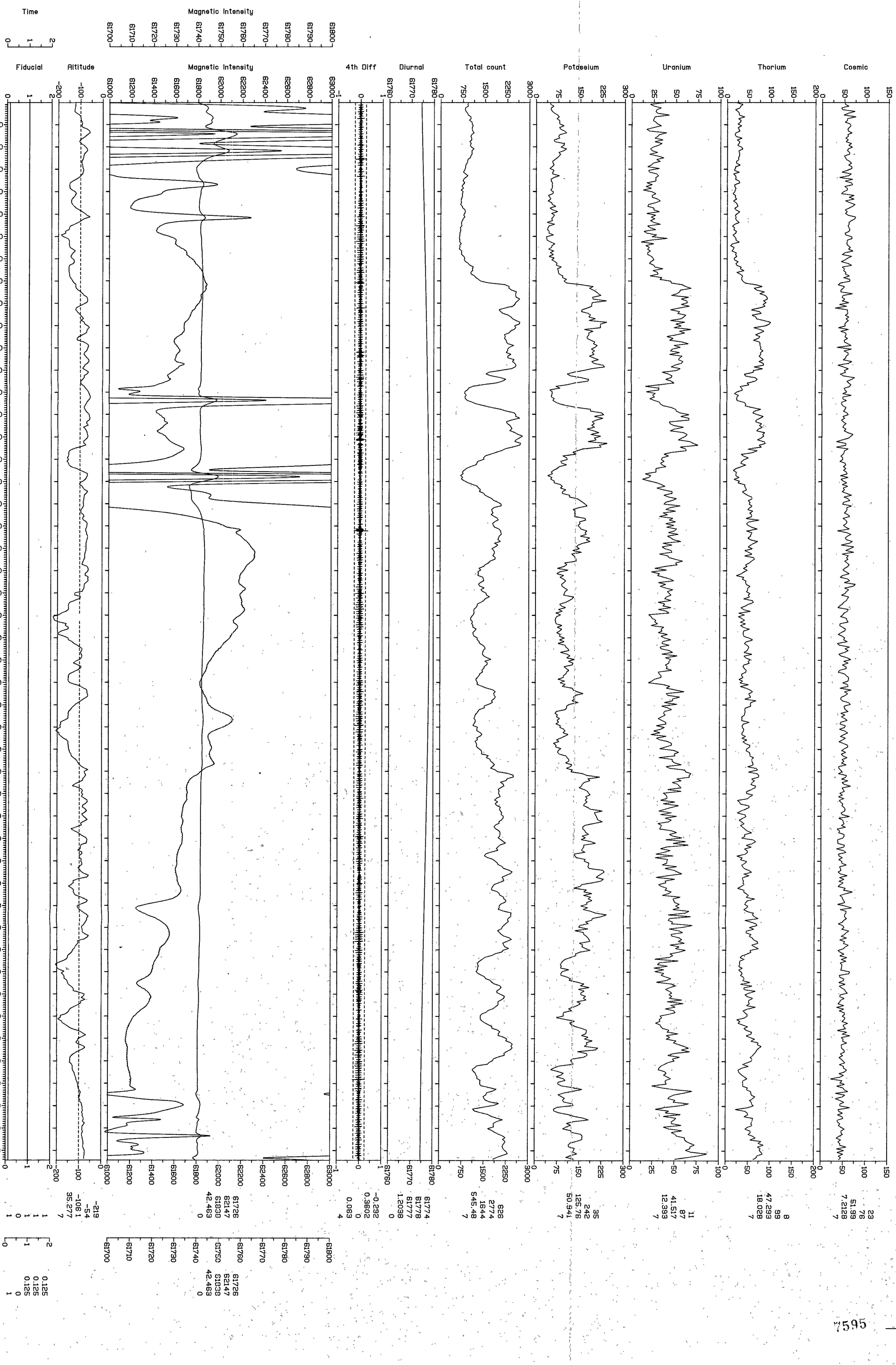
time flown	03:42:32	03:52:24 87	time	21:11:02
fiducial	1	4744		



88-2841

755024

APPENDIX 2i

line	20070		job	2052
flight	4		area	NE TASMANIA
direction	1		batch	1
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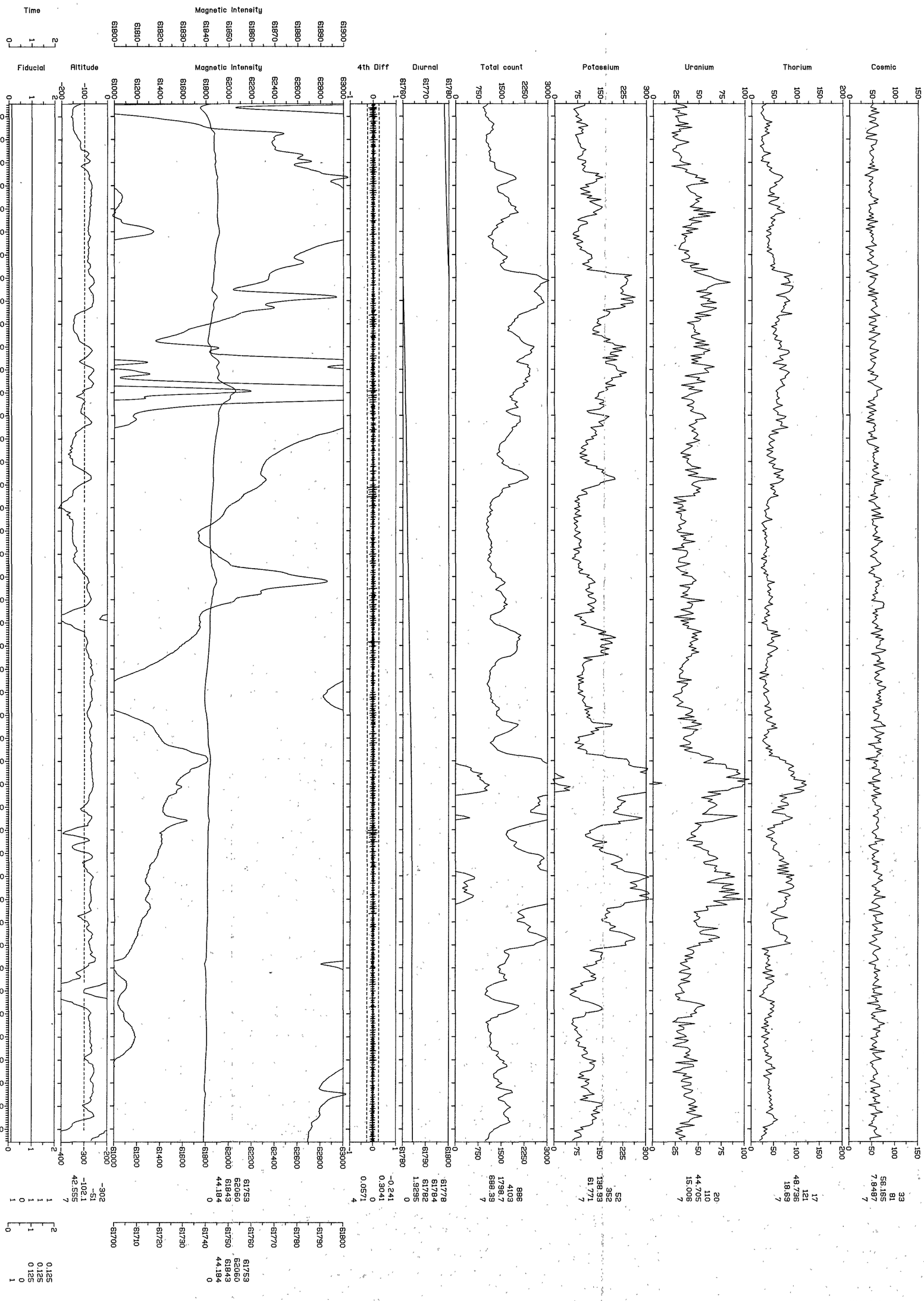
time flown	03:40:00	03:49:23.87	time	21:49:51
fiducial	2345	6856		

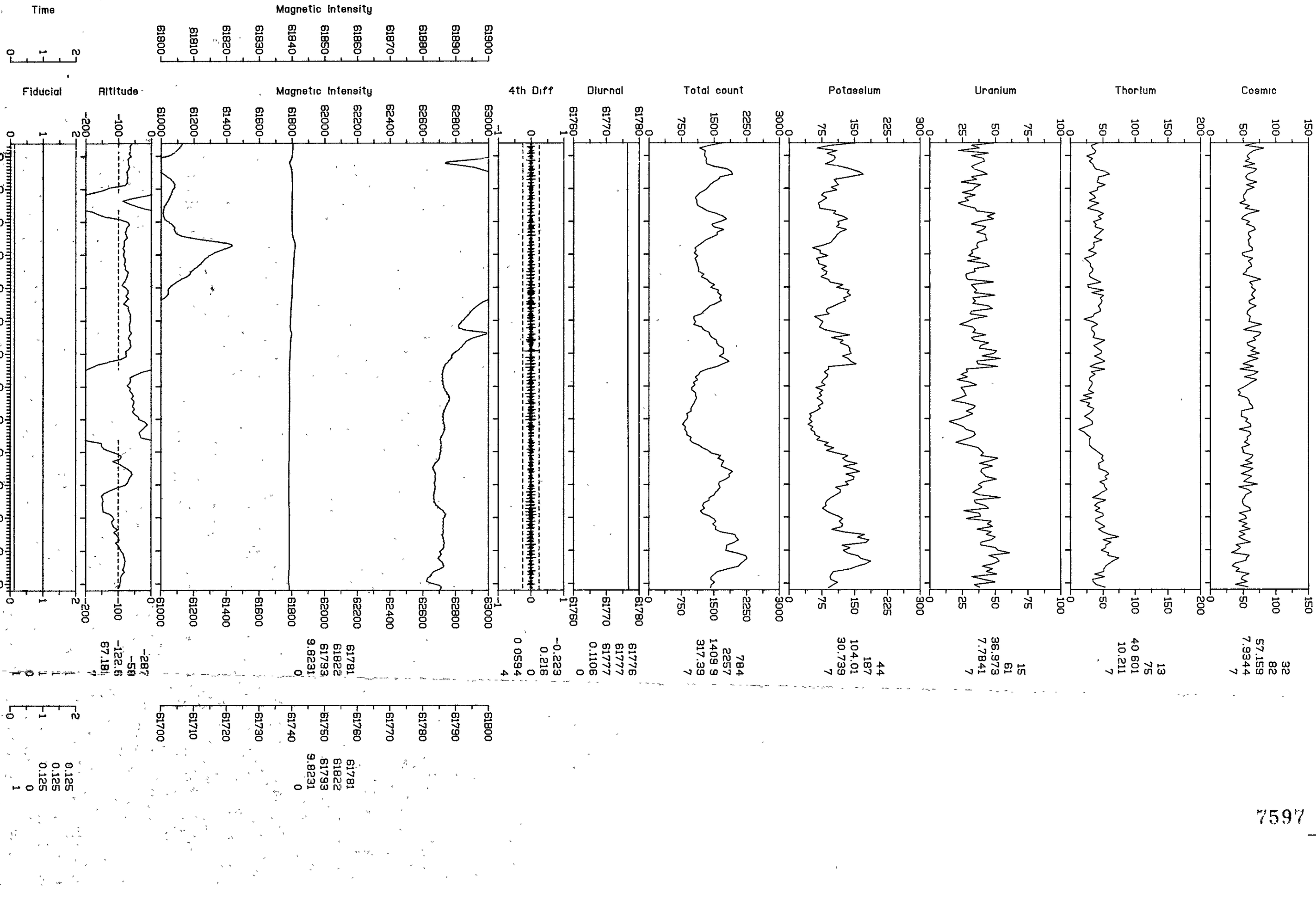


88-2841

755025

APPENDIX 2j

line	20071		job	2052
flight	5		area	NE TASMANIA
direction	1		batch	1
date flown	26oct87		date	21jan88
time flown	03:26:16	03:29:05.87	time	22:20:21
fiducial	5561	6920		



89-2841

755026

APPENDIX 2k

line	20080		job	2052
flight	4		area	NE TASMANIA
direction	1		batch	1
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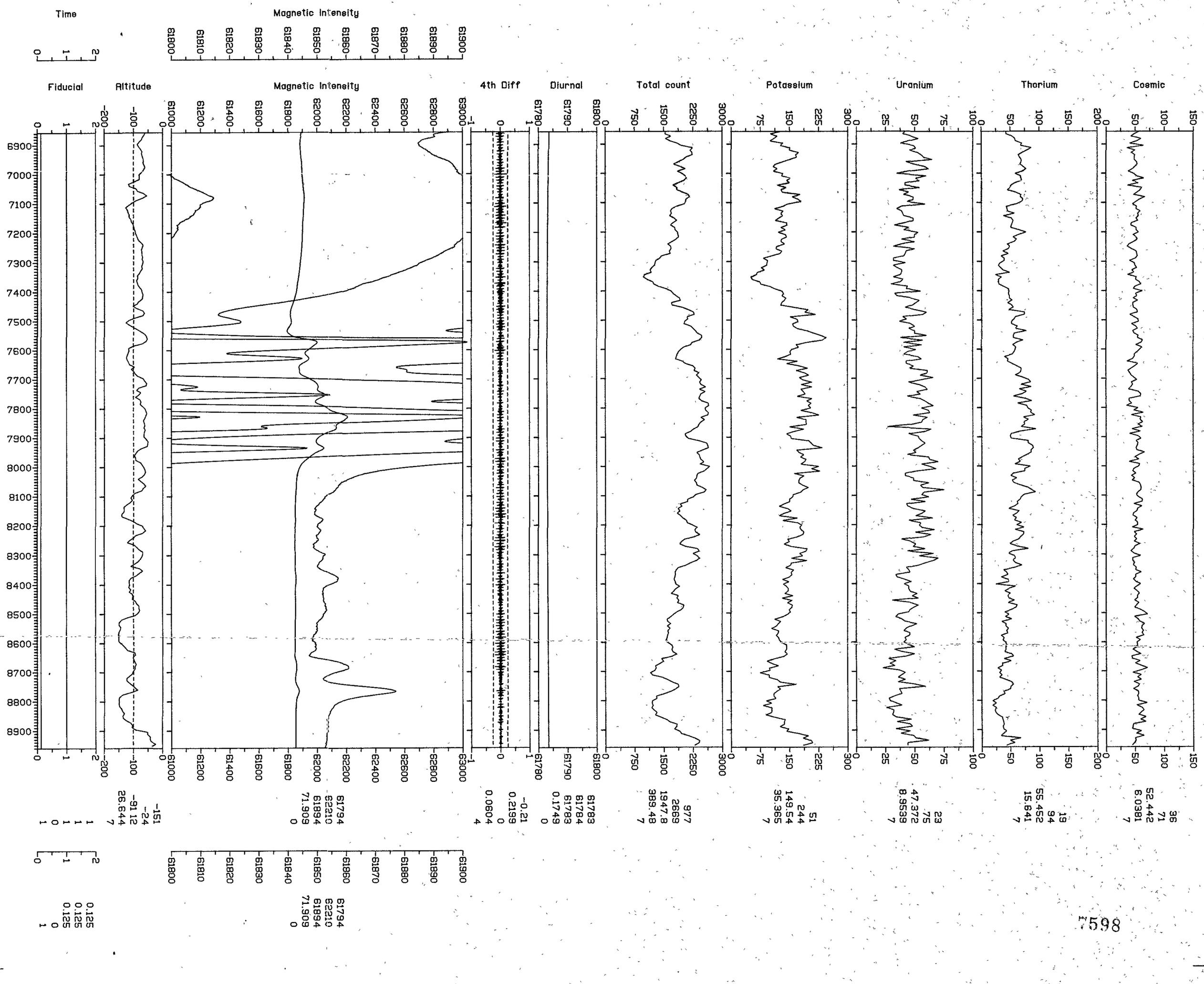
time flown	04:00:55	04:05:17.88	time	22:39:16
fiducial	6857	8960		



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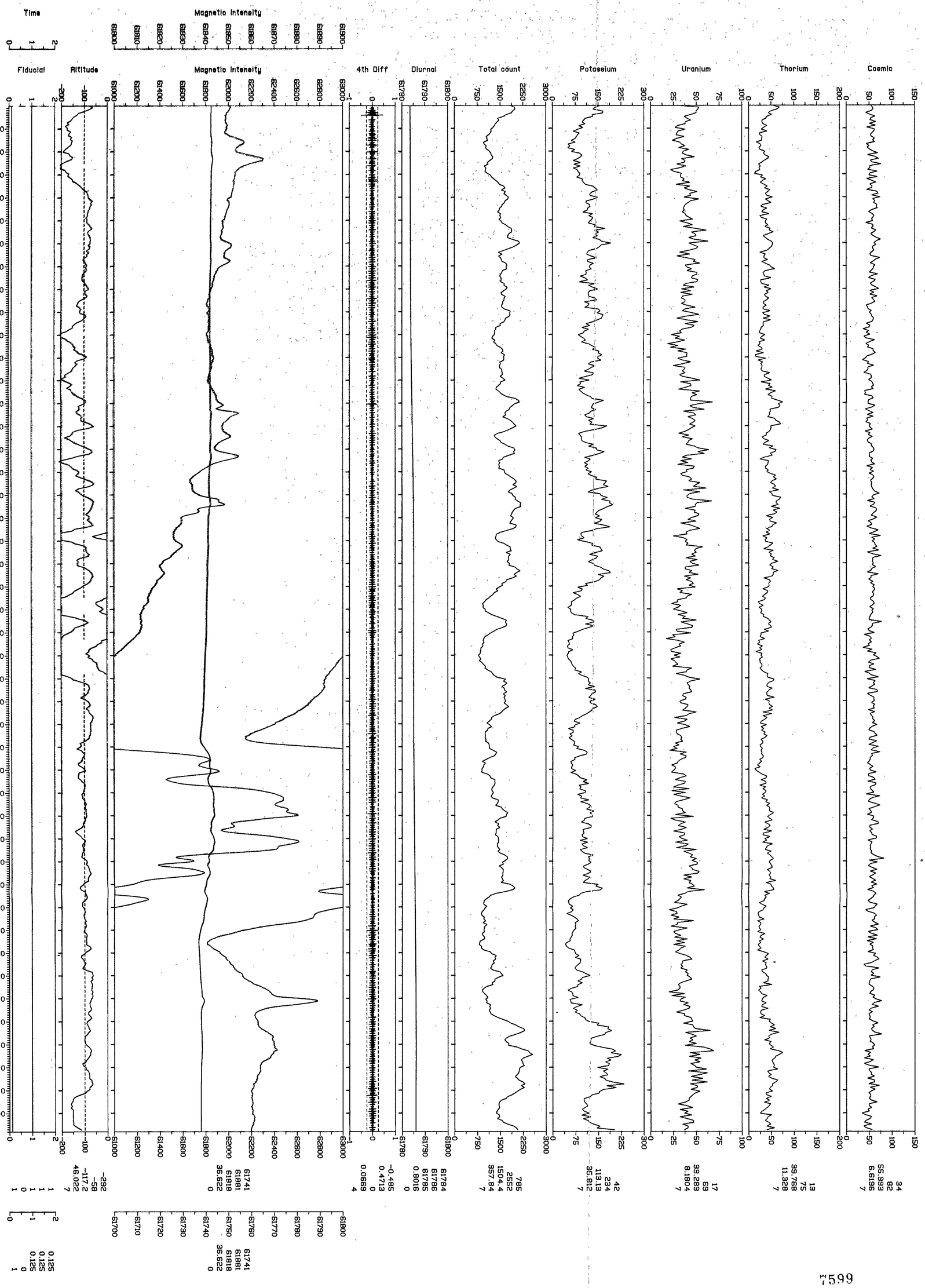
APPENDIX 2(

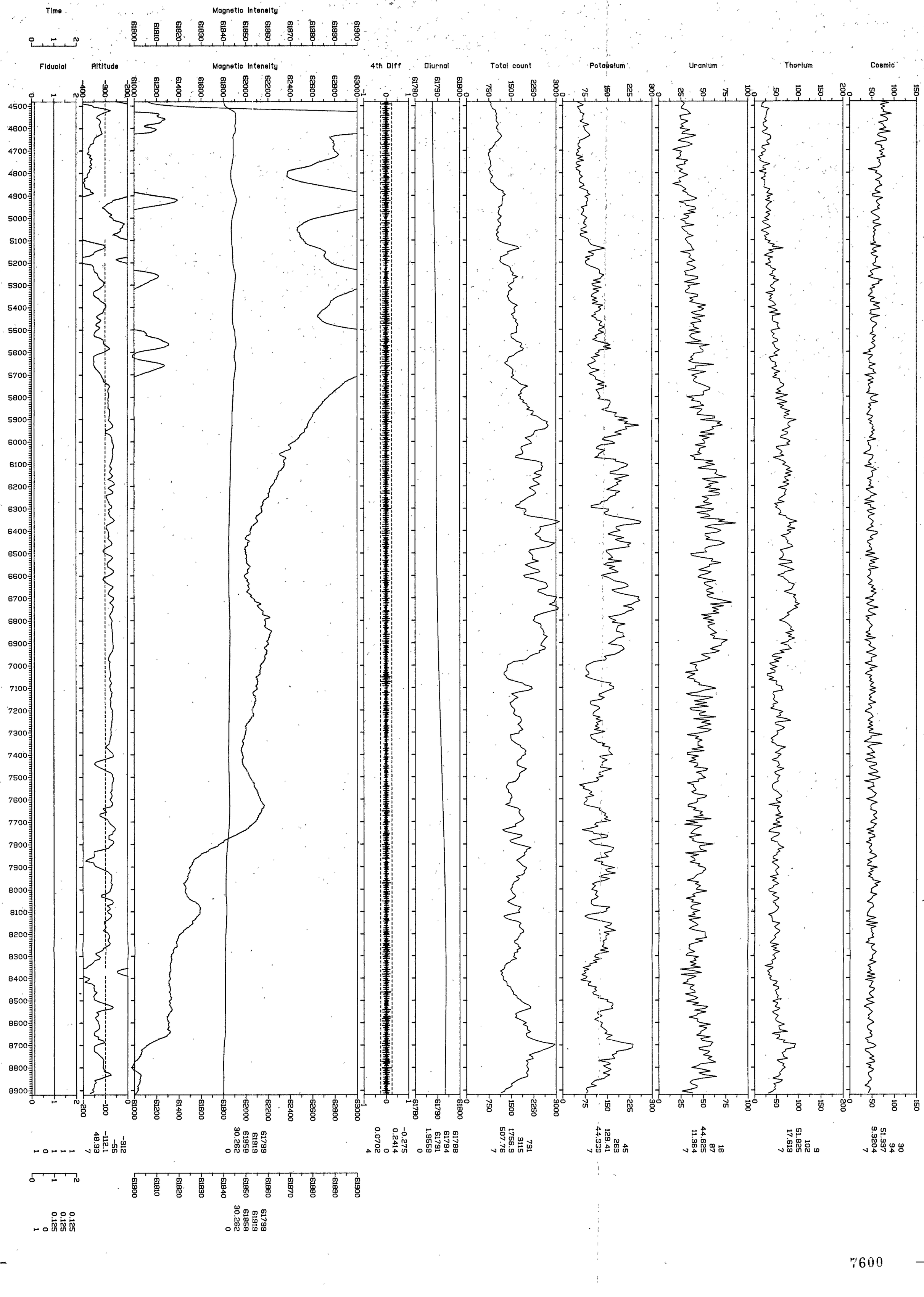
line	20081	job	2052
flight	4	area	NE TASMANIA
direction	1	batch	1
date flown	25oct87	date	21jan88
time flown	04:07:16 04:16:35.88	time	23:02:25
fiducial	1 4480		



88-2841

APPENDIX 2m

	line	20090		job	2052
	flight	4		area	NE TASMANIA
755028	direction	1		batch	1
	date flown	25oct87		date	21jan88
	time flown	04:29:09	04:38:23.87	time	23:31:08
	fiducial	4481	8920		

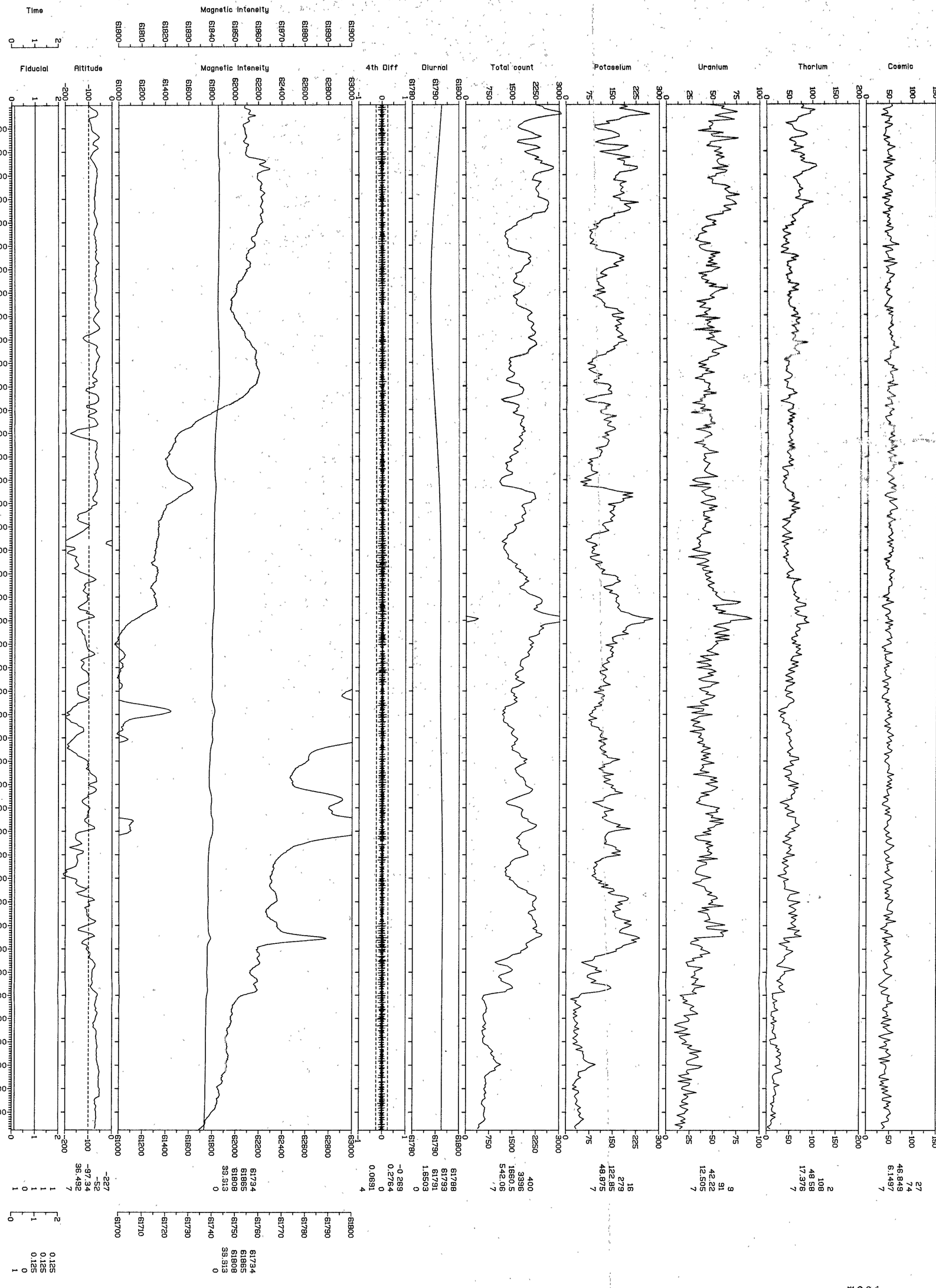


88-2841

APPENDIX 2n

755029

line	20091	job	2052
flight	4	area	NE TASMANIA
direction	1	batch	1
date flown	25oct87	date	21jan88
time flown	04:44:51 04:53:57.87	time	23:57:14
fiducial	1 4376		

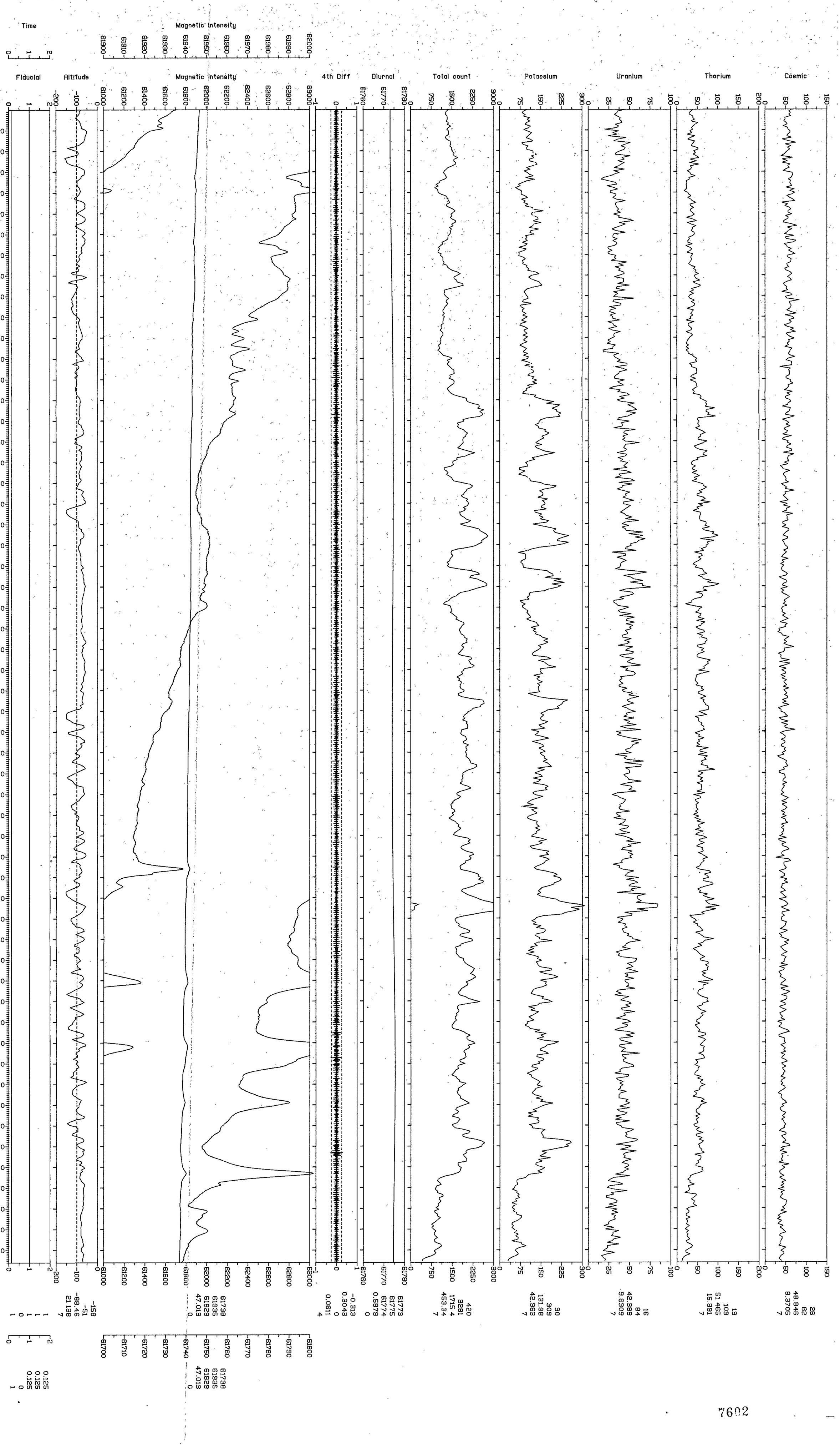


7691

88-2841

755030 APPENDIX 2o

line	20101		job	2052
flight	5		area	NE TASMANIA
direction	1		batch	1
date flown	26oct87		date	22jan88
time flown	02:56:50	03:08:24.87	time	00:23:34
fiducial	1	5560		



88-2841

APPENDIX 2p

line	20110	job	2052
flight	4	area	NE TASMANIA
direction	1	batch	1
date flown	25oct87	date	22jan88
time flown	05:41 50 05:55 34.87	time	00:52:38
fiducial	1 6600		

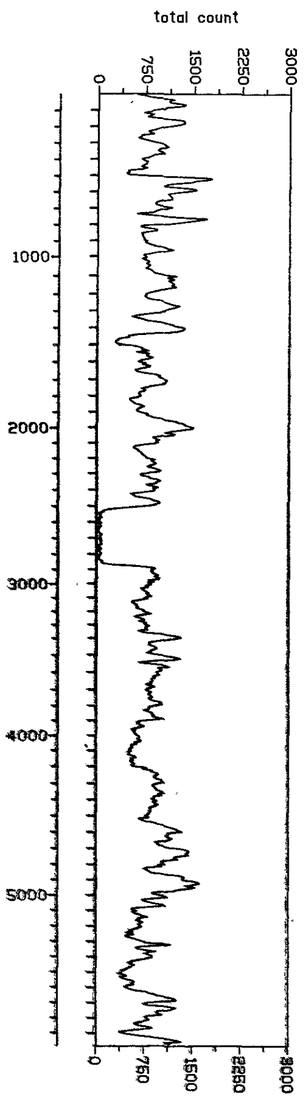
75503

88-2841

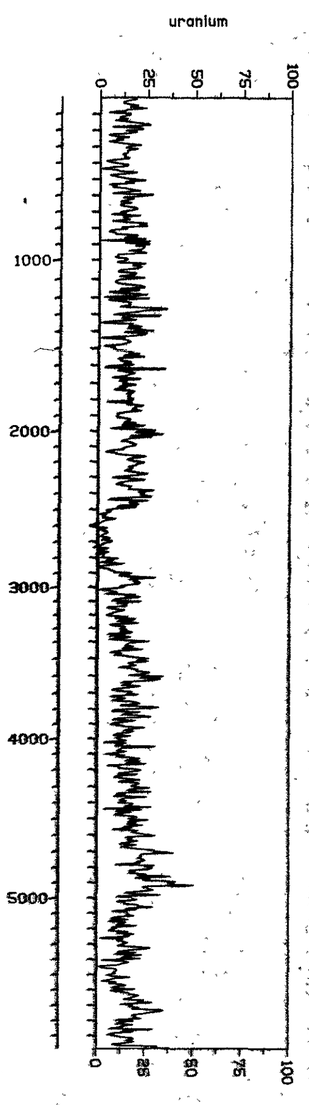
APPENDIX 3a

755032

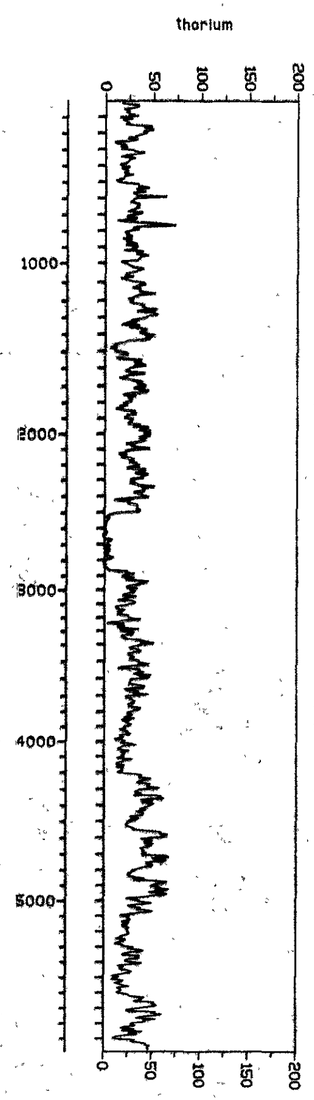
line 20020
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 1 5984



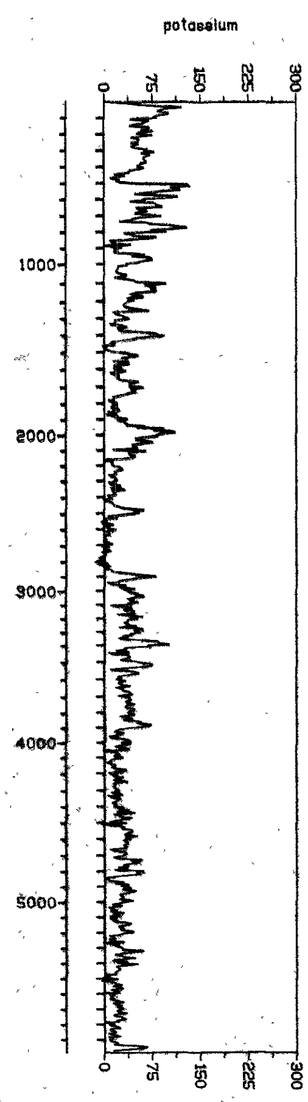
line 20020
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 1 5984



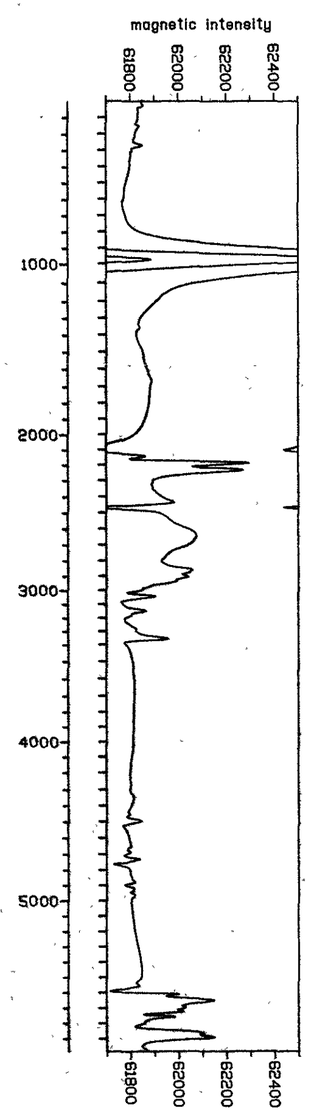
line 20020
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 1 5984



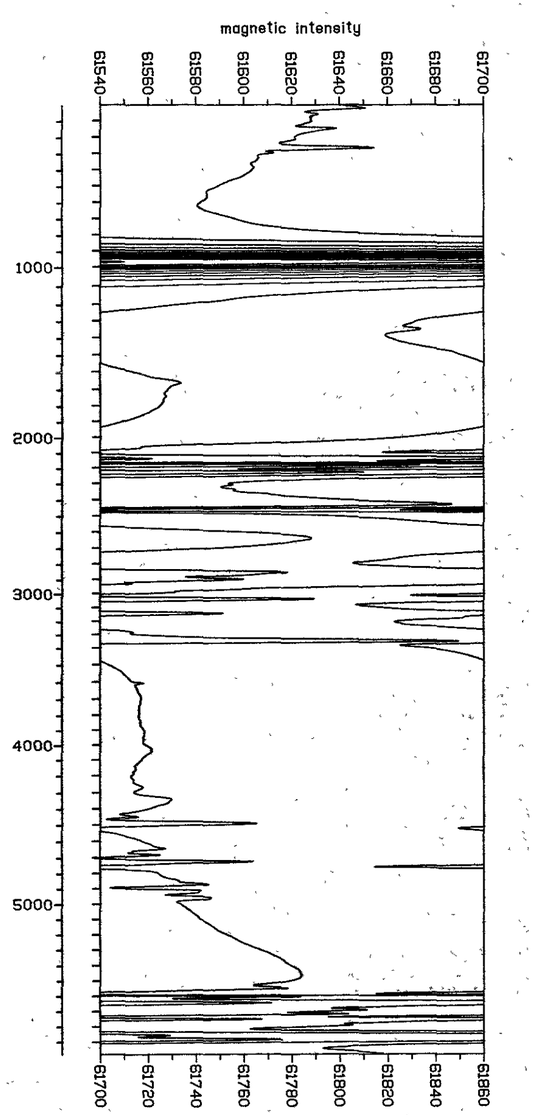
line 20020
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 1 5984



line 20020
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 1 5984



line 20020
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 1 5984



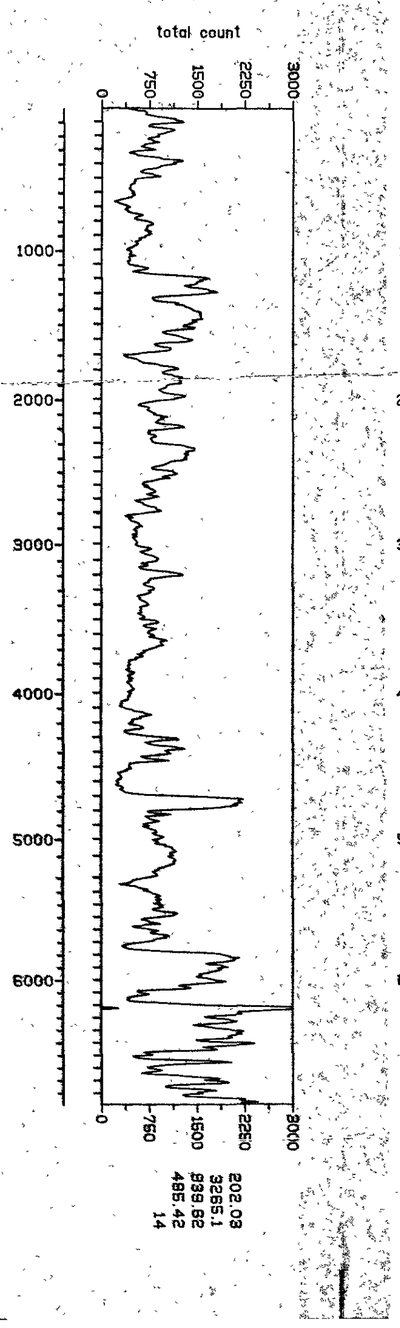
7604

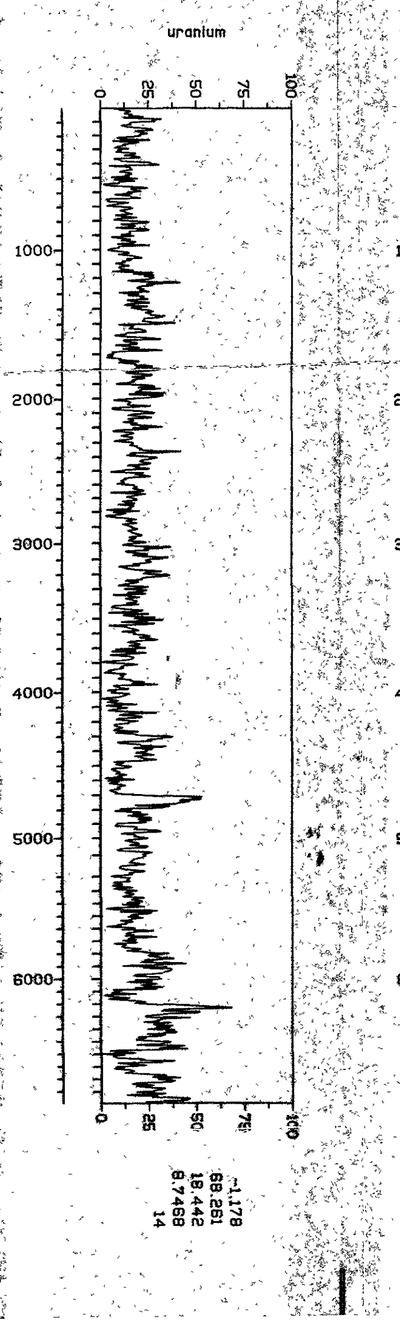
88-2841

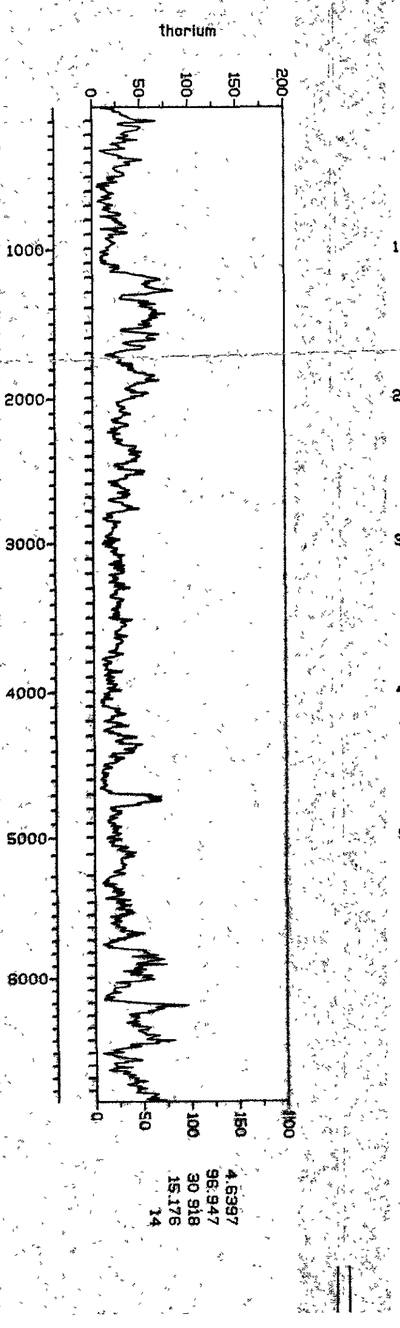
APPENDIX 3b

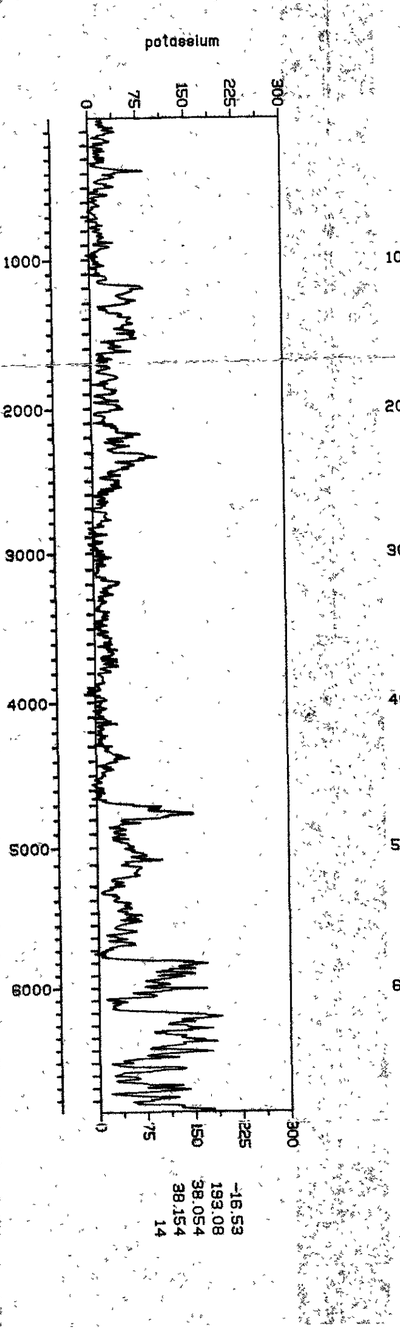
755033

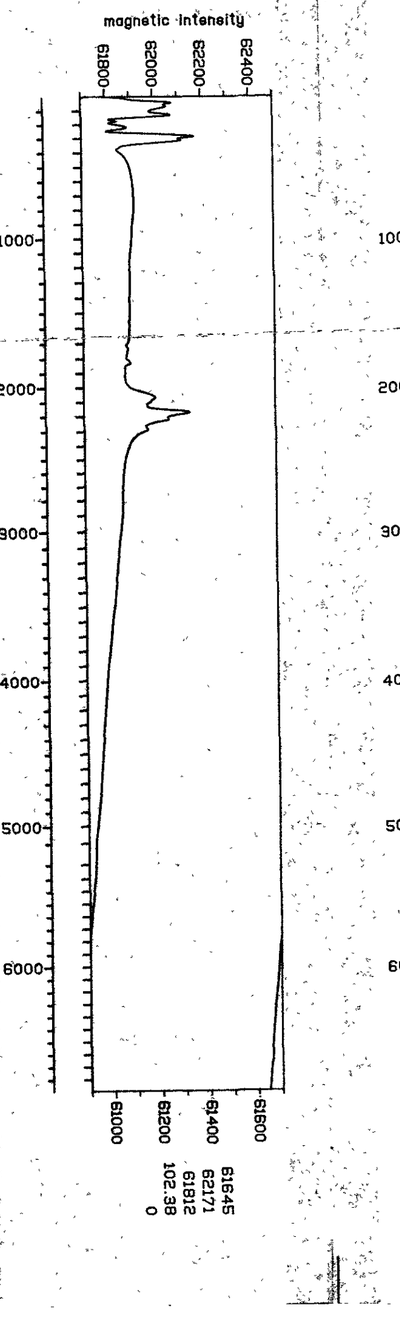
line 20021
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 1 6992

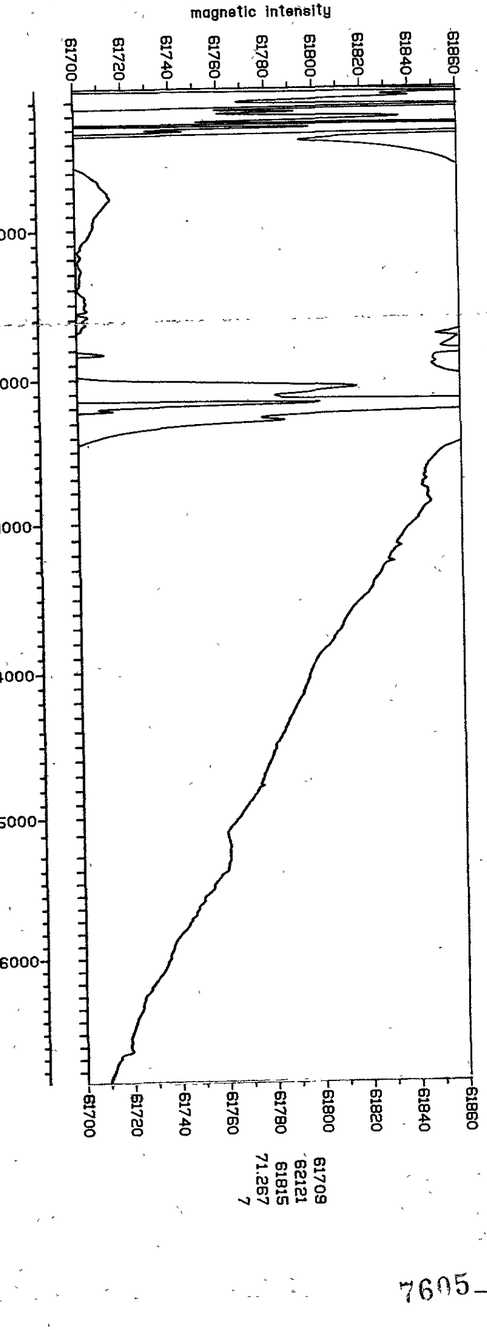










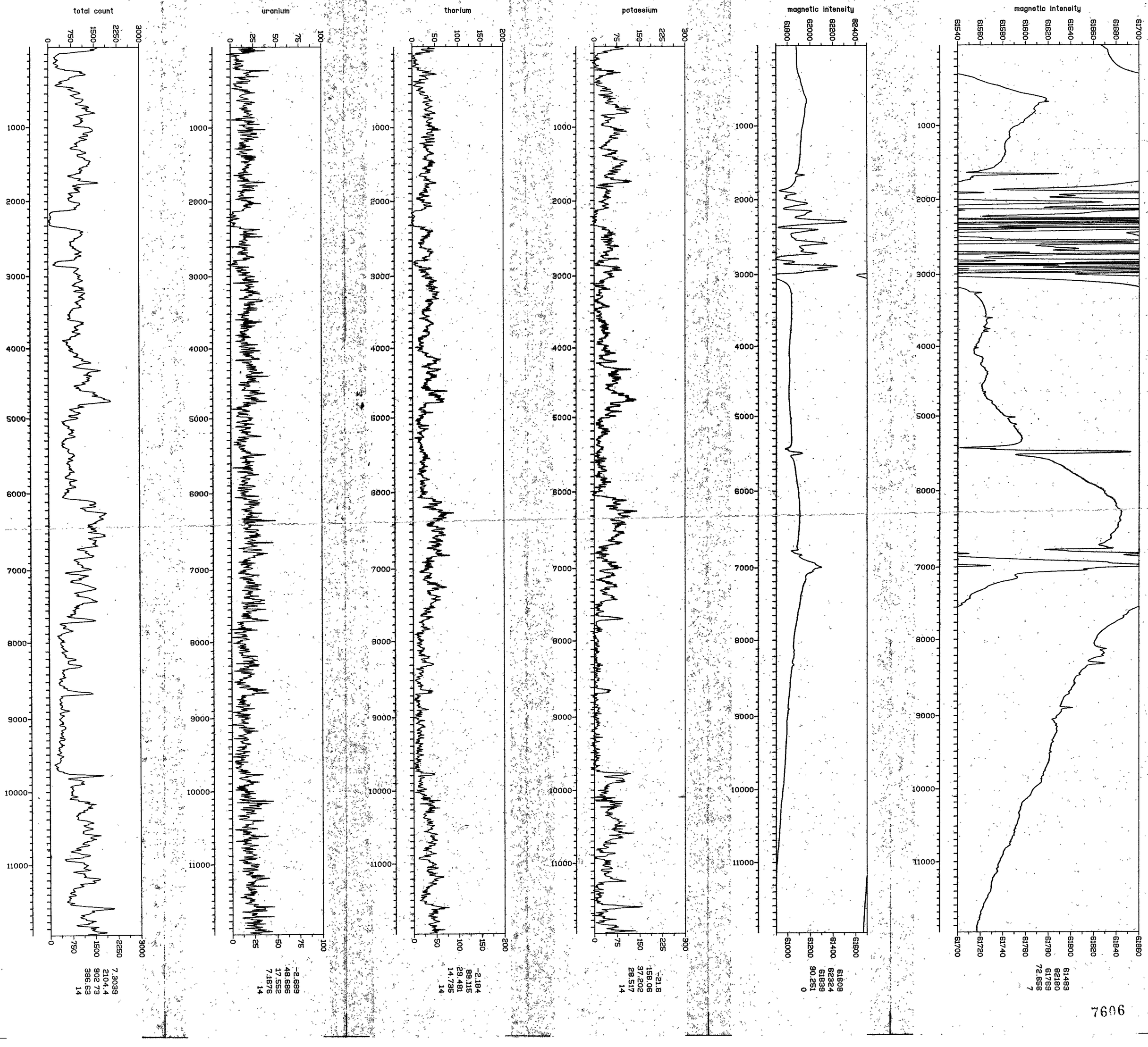


88-2841

APPENDIX 3c

755034

line	20030
flight	5
job	2052
date flown	26oct87
area	NE TASMANIA
fiducial	1 11992



7606

88-2841

APPENDIX 3d

755035

line	20031
flight	5
job	2052
date flown	26oct87
area	NE TASMANIA
fiducial	1 5368

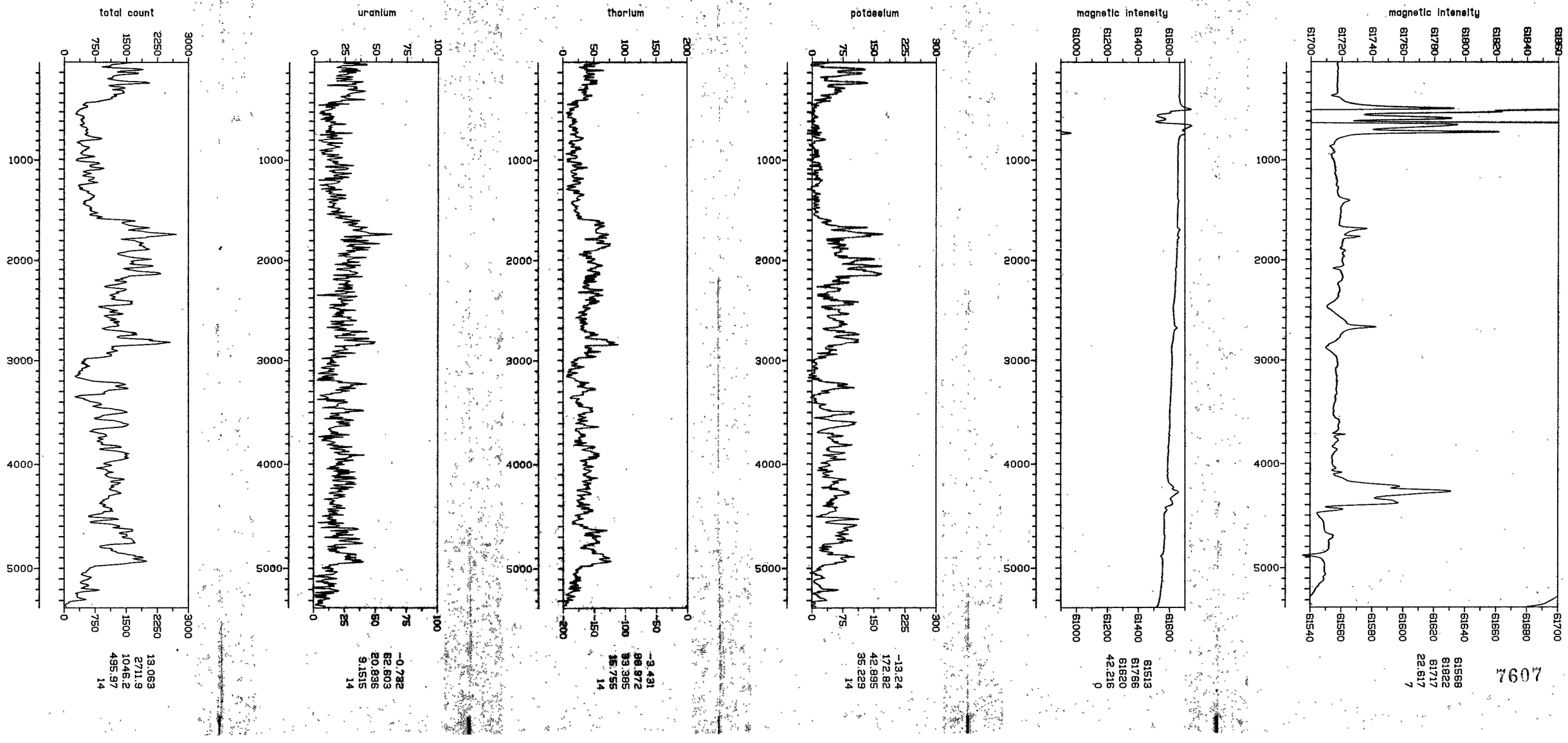
line	20031
flight	5
job	2052
date flown	26oct87
area	NE TASMANIA
fiducial	1 5368

line	20031
flight	5
job	2052
date flown	26oct87
area	NE TASMANIA
fiducial	1 5368

line	20031
flight	5
job	2052
date flown	26oct87
area	NE TASMANIA
fiducial	1 5368

line	20031
flight	5
job	2052
date flown	26oct87
area	NE TASMANIA
fiducial	1 5368

line	20031
flight	5
job	2052
date flown	26oct87
area	NE TASMANIA
fiducial	1 5368



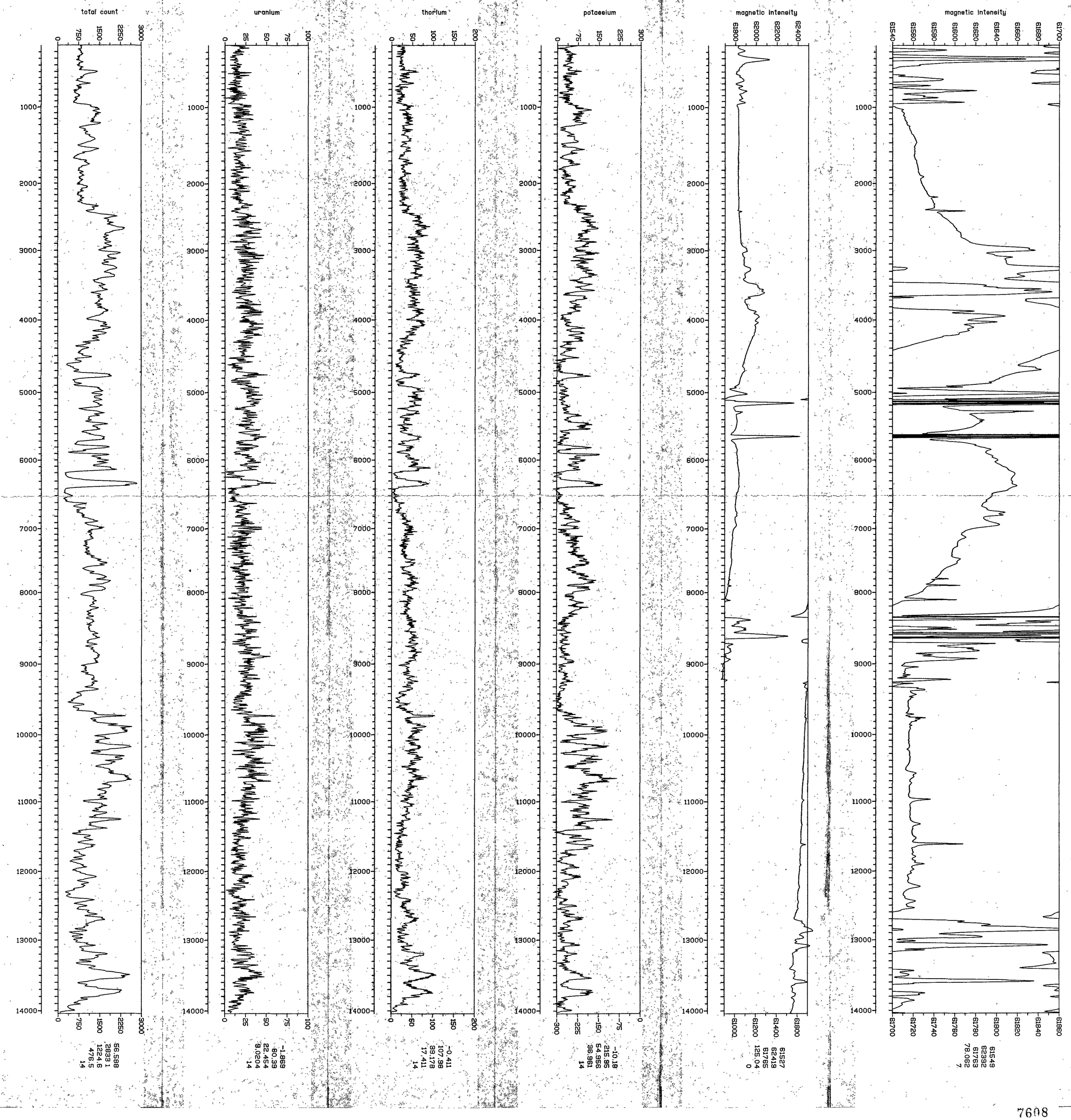
7607

88-2841

APPENDIX 3e

755036

line	20040
flight	5
job	2052
date flown	25oct87
area	NE TASMANIA
fiducial	1 14040

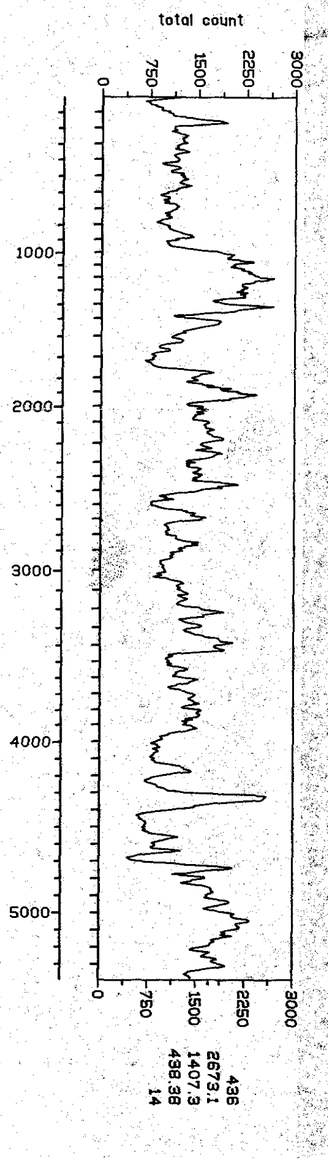


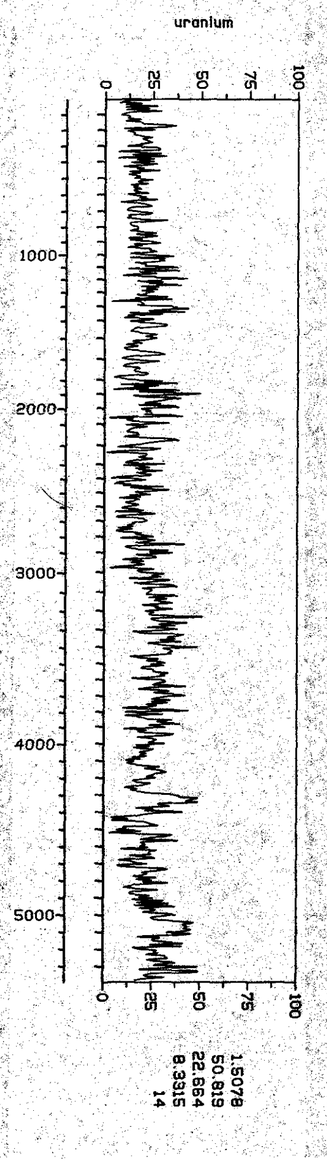
88-2841

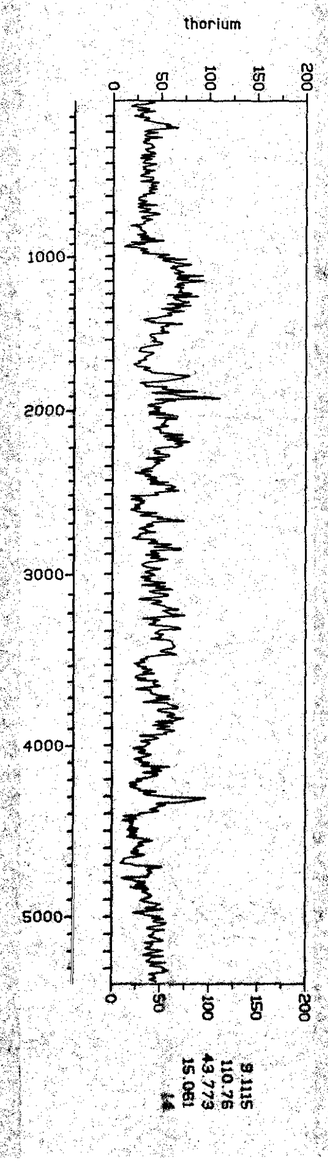
APPENDIX 3f

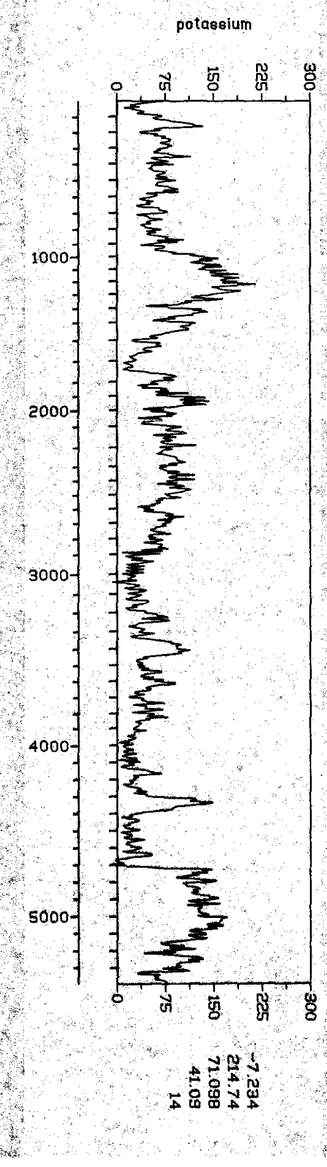
755037

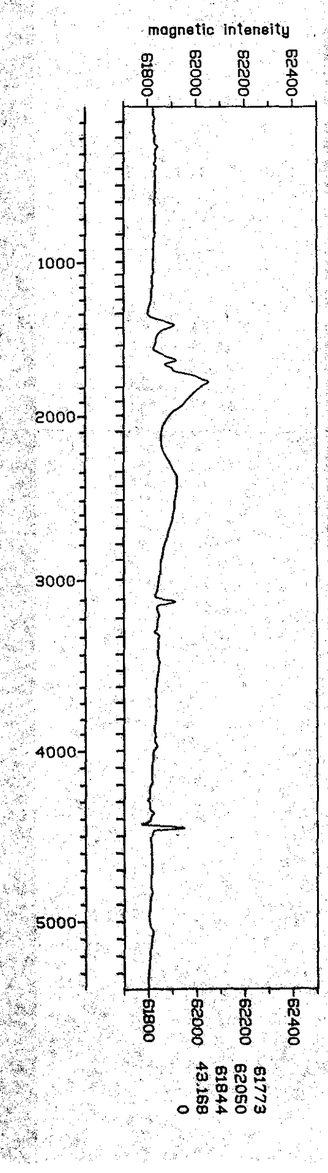
line	20050
flight	5
job	2052
date flown	25oct87
area	NE TASMANIA
fiducial	1 5392

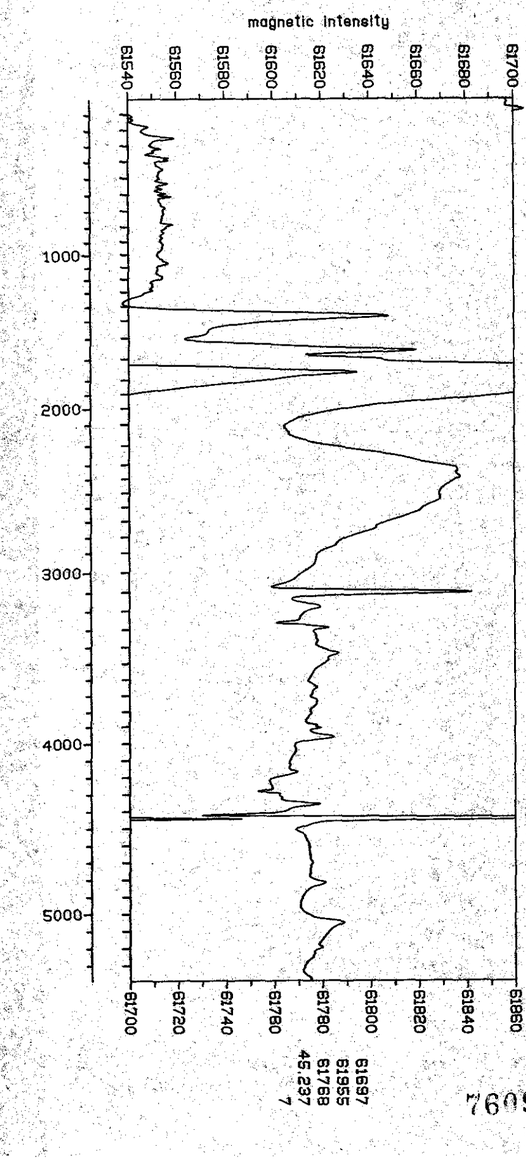












88-2841

APPENDIX 3g

755038

line 20051
flight 5
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 5393 6952

line 20051
flight 5
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 5393 6952

line 20051
flight 5
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 5393 6952

line 20051
flight 5
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 5393 6952

line 20051
flight 5
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 5393 6952

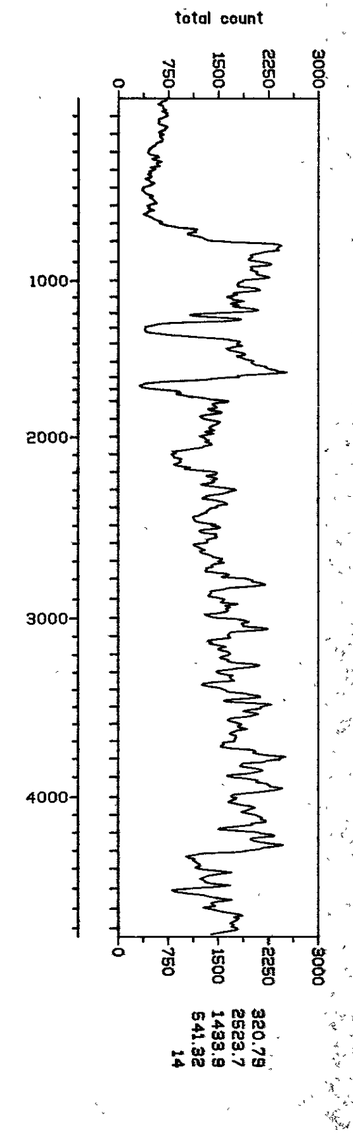
line 20051
flight 5
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 5393 6952

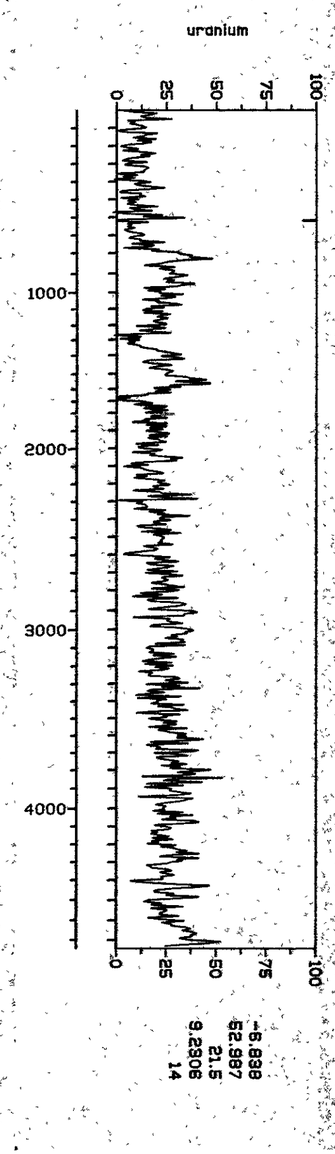
88-2841

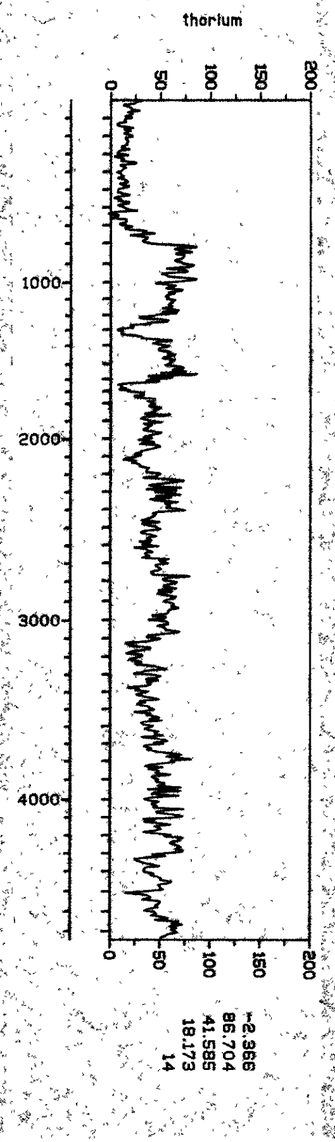
APPENDIX 3h

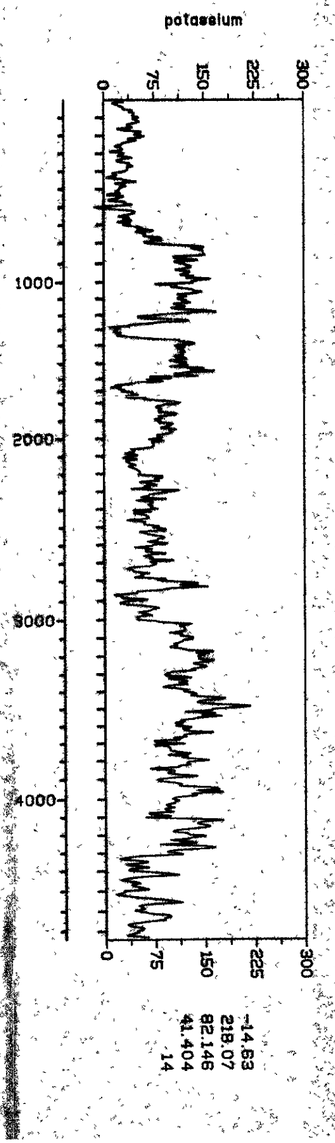
755039

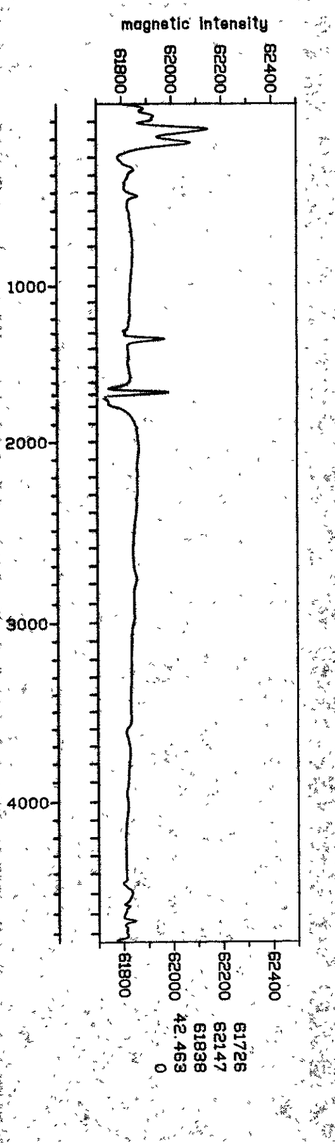
line	20060
flight	5
job	2052
date flown	26oct87
area	NE TASMANIA
fiducial	1 4744

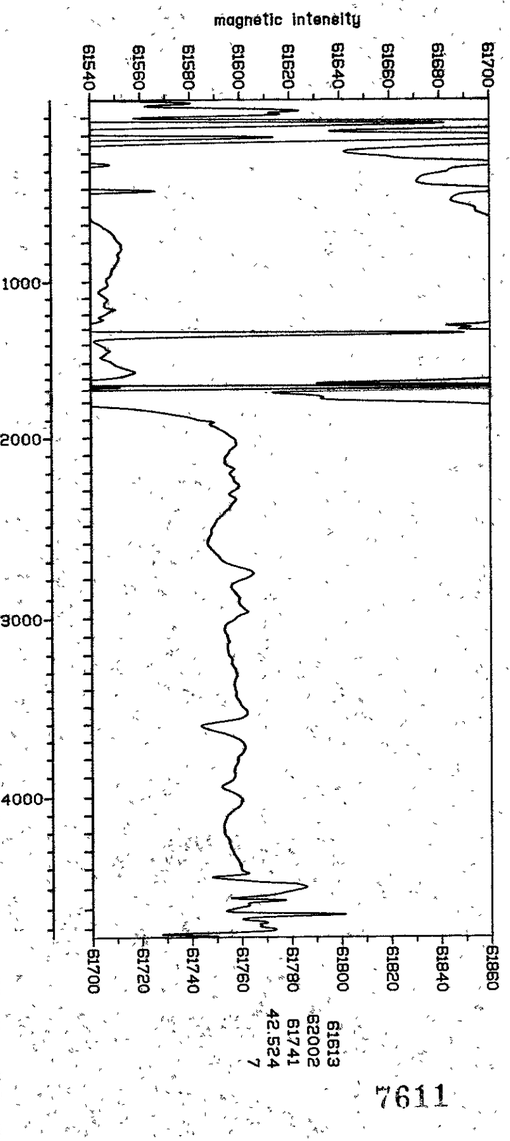












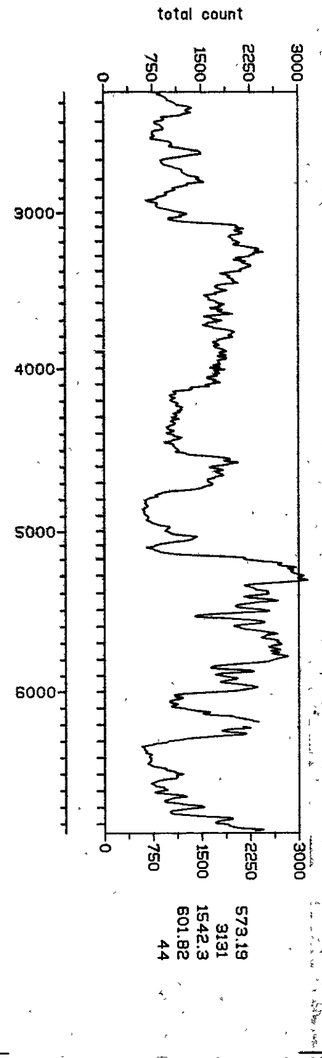
7611

88-2841

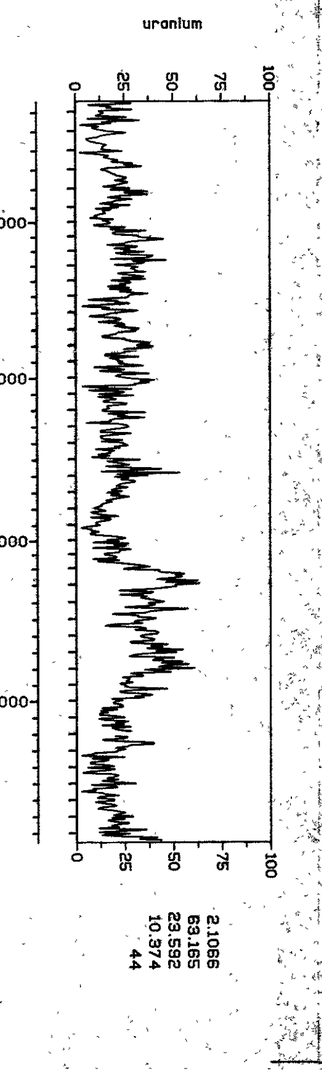
APPENDIX 3i

755040

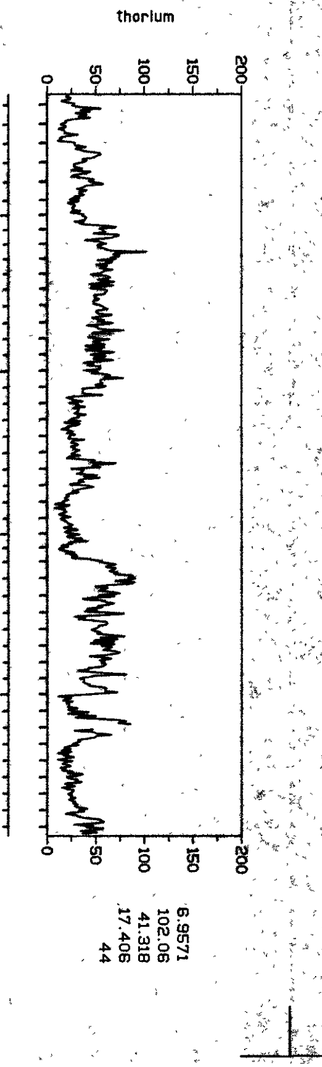
line 20070
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 2345 6856



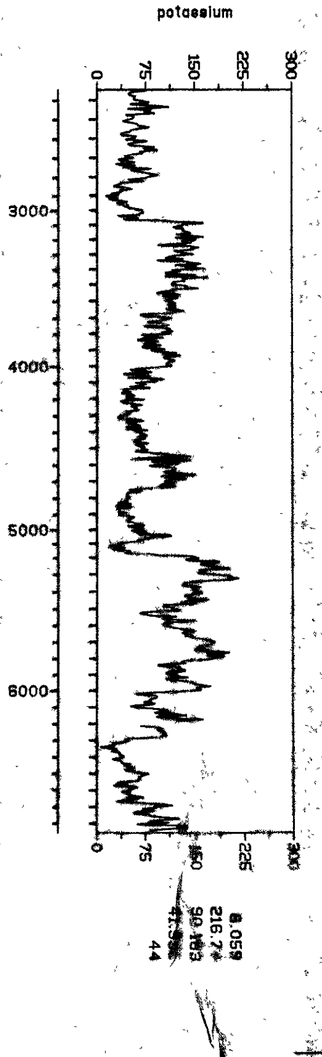
line 20070
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 2345 6856



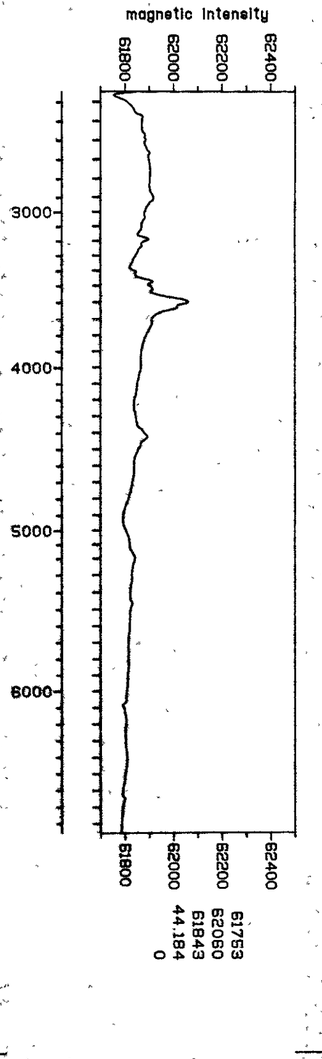
line 20070
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 2345 6856



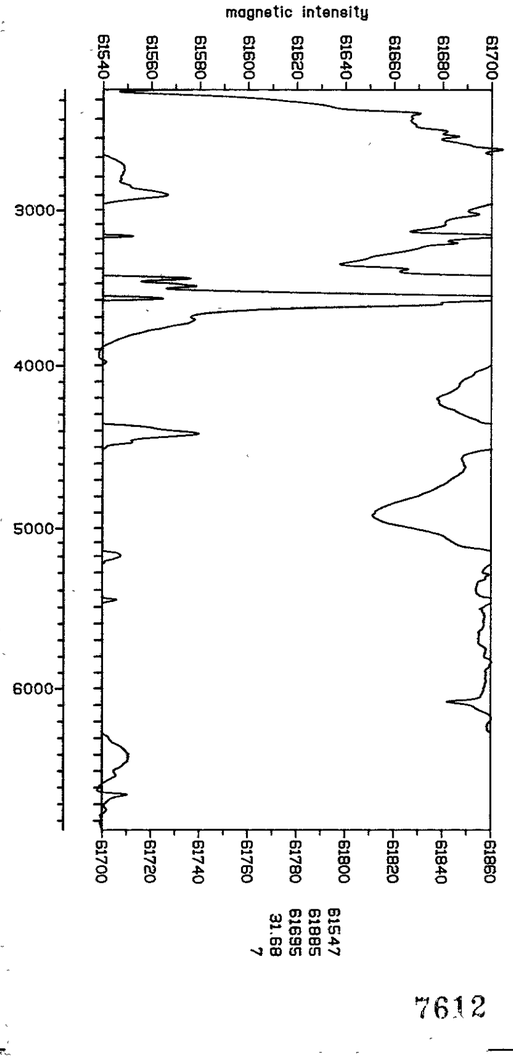
line 20070
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 2345 6856



line 20070
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 2345 6856



line 20070
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 2345 6856



line 20071
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 5561 6920

line 20071
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 5561 6920

line 20071
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 5561 6920

line 20071
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 5561 6920

line 20071
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 5561 6920

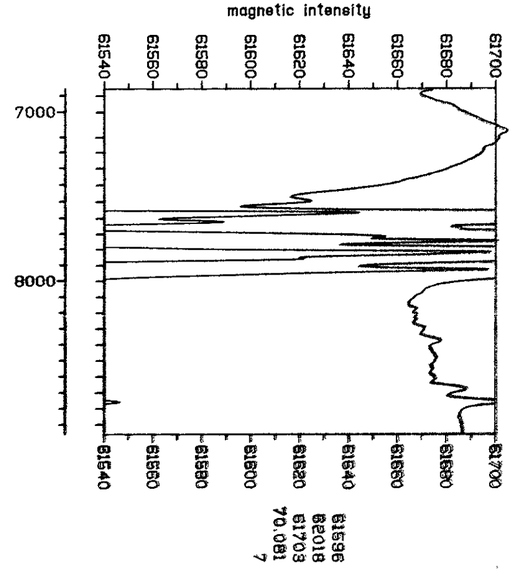
line 20071
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 5561 6920

88-2841

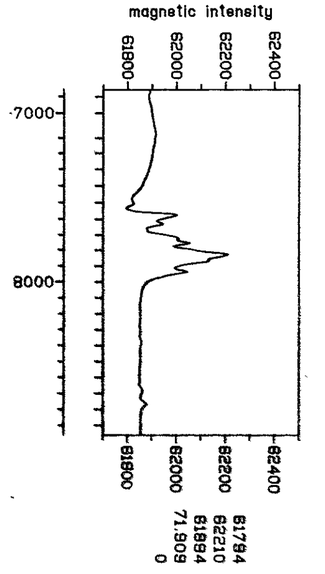
APPENDIX 3k

755042

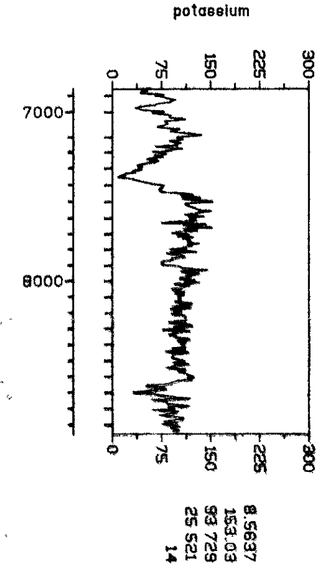
line	20080
flight	4
job	2052
date flown	25oct87
area	NE TASMANIA
fiducial	6857 8960



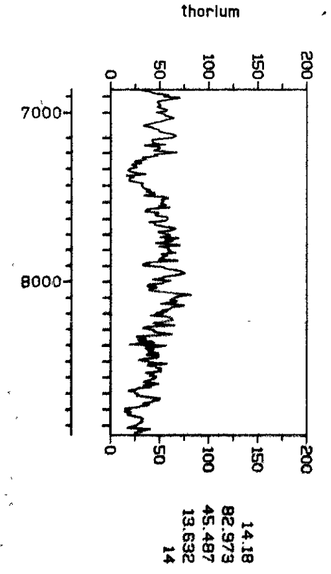
line	20080
flight	4
job	2052
date flown	25oct87
area	NE TASMANIA
fiducial	6857 8960



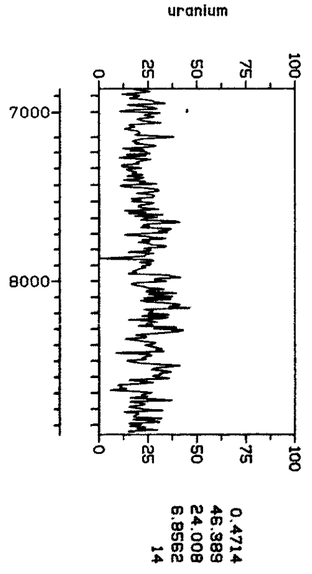
line	20080
flight	4
job	2052
date flown	25oct87
area	NE TASMANIA
fiducial	6857 8960



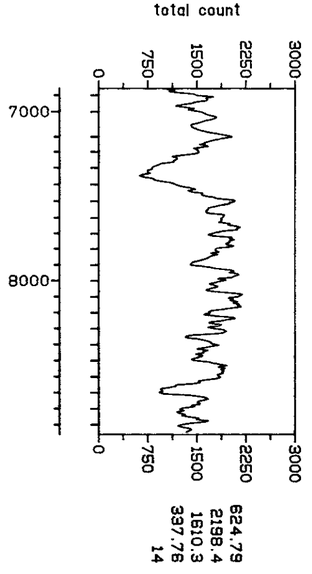
line	20080
flight	4
job	2052
date flown	25oct87
area	NE TASMANIA
fiducial	6857 8960



line	20080
flight	4
job	2052
date flown	25oct87
area	NE TASMANIA
fiducial	6857 8960



line	20080
flight	4
job	2052
date flown	25oct87
area	NE TASMANIA
fiducial	6857 8960



7614

88-2841

APPENDIX 3(

755043

line	20081
flight	4
job	2052
date flown	25oct87
area	NE TASMANIA
fiducial	1 4480

line 20081
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 1 4480

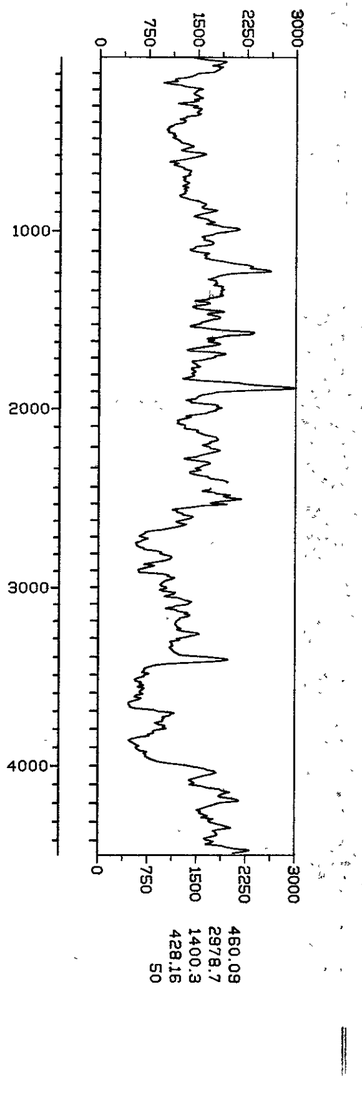
line 20081
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 1 4480

line 20081
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 1 4480

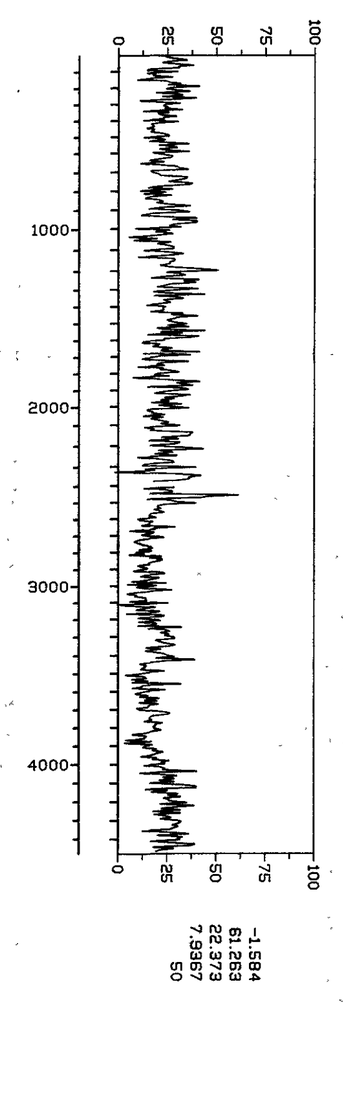
line 20081
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 1 4480

line 20081
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 1 4480

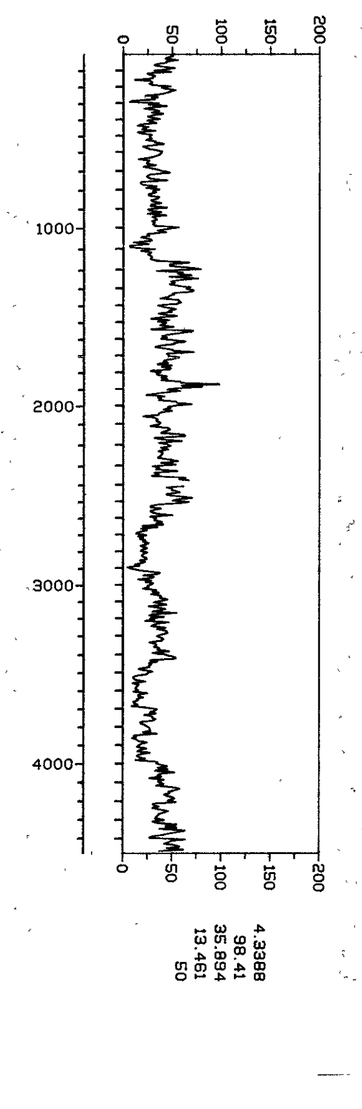
total count



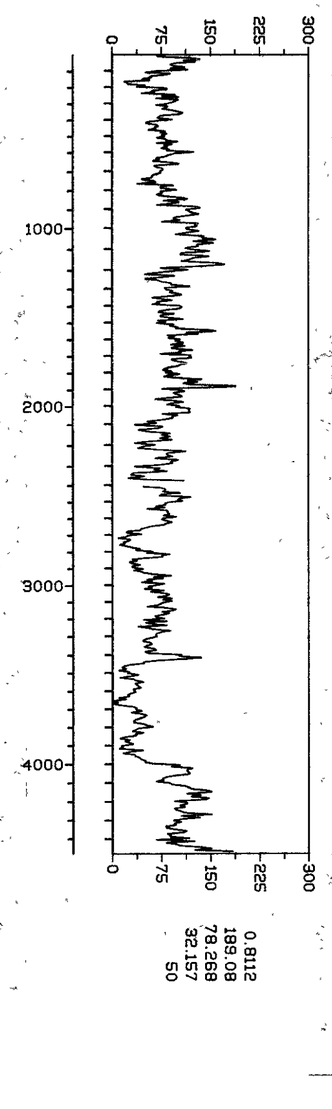
uranium



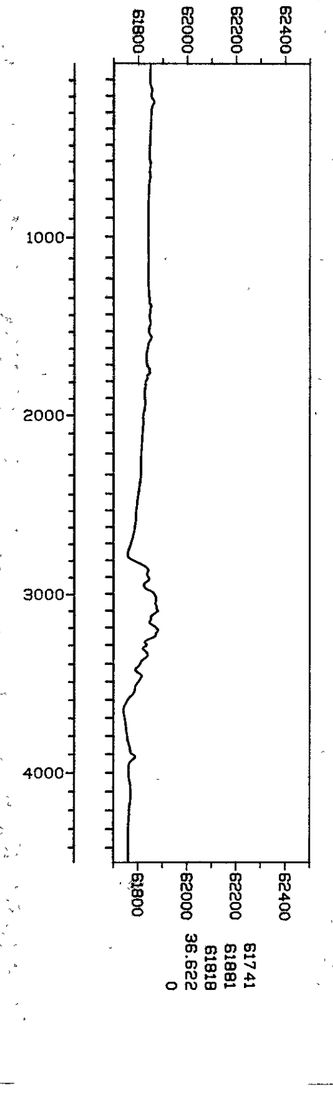
thorium



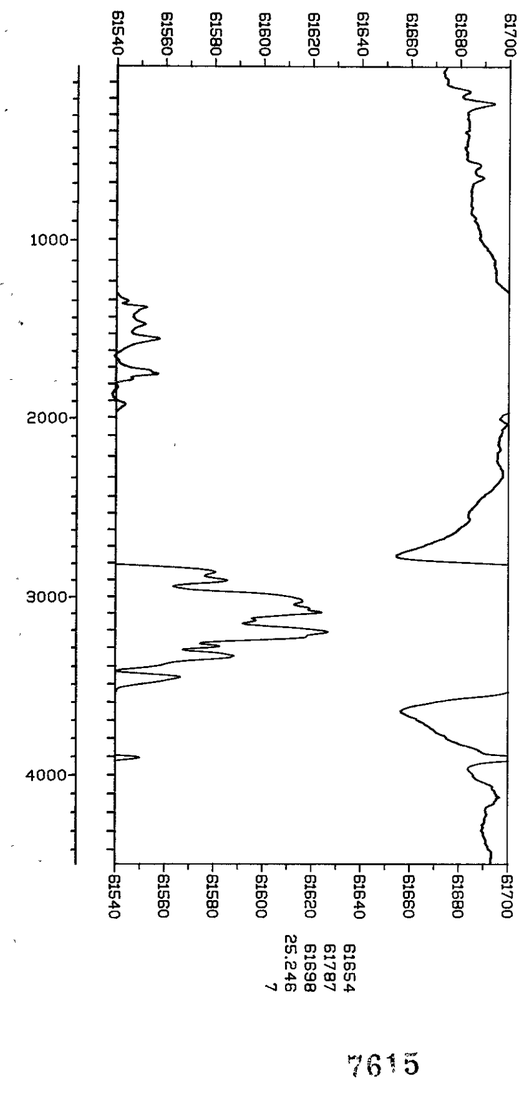
potassium



magnetic intensity



magnetic intensity



7615

line	20090
flight	4
job	2052
date flown	25oct87
area	NE TASMANIA
fiducial	4481 8920

line 20090
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 4481 8920

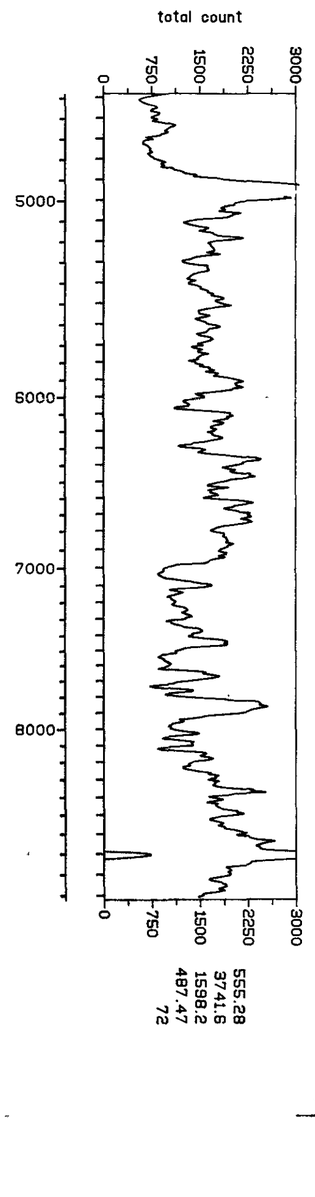
line 20090
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 4481 8920

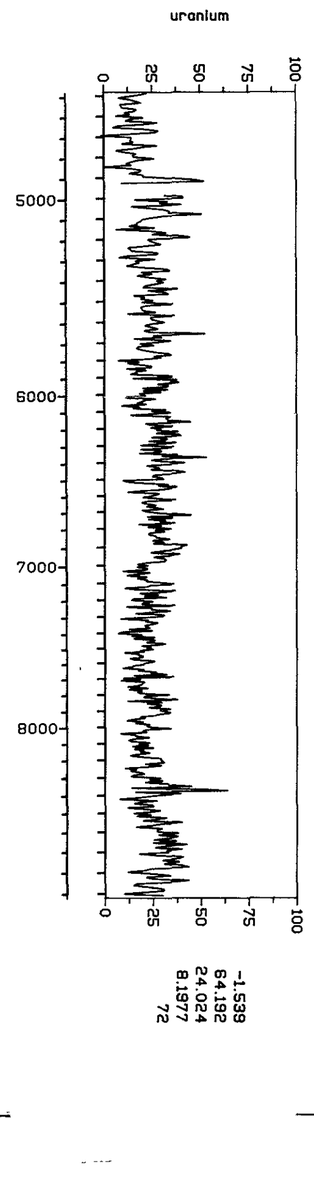
line 20090
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 4481 8920

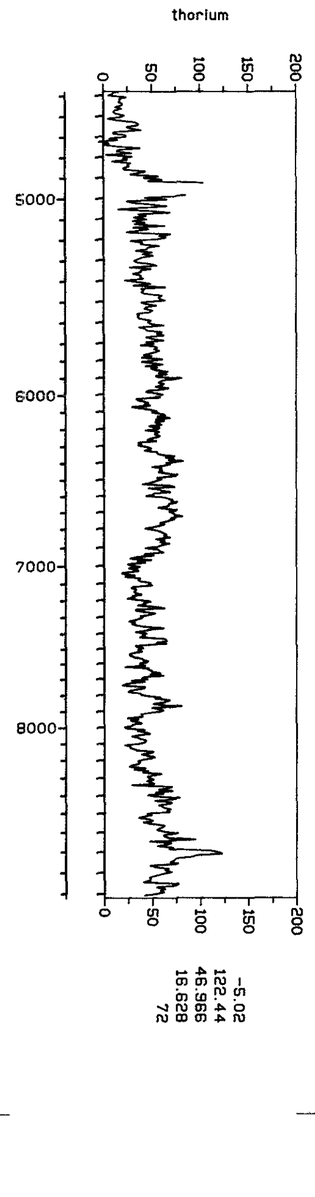
line 20090
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 4481 8920

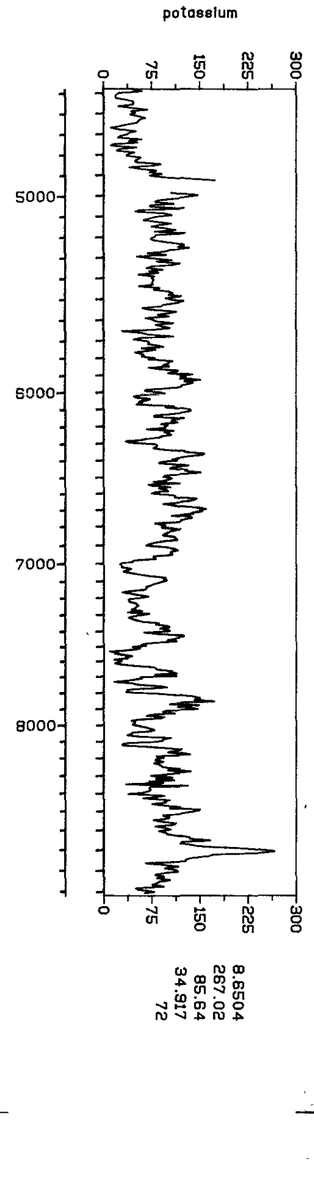
line 20090
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 4481 8920

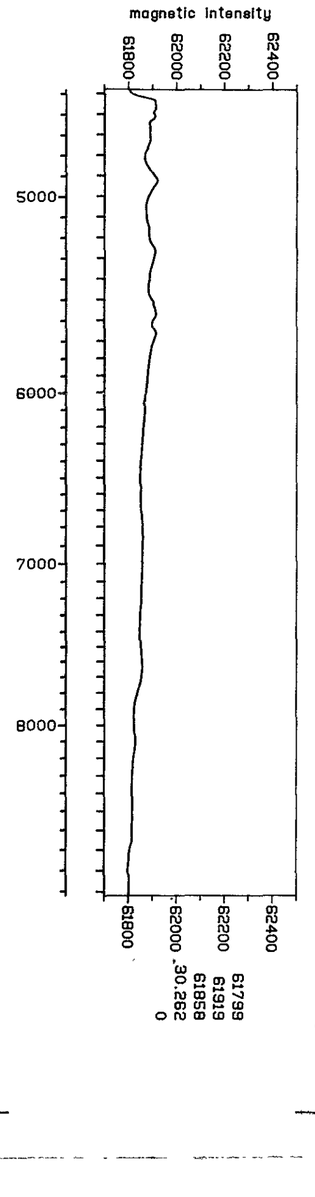
755044

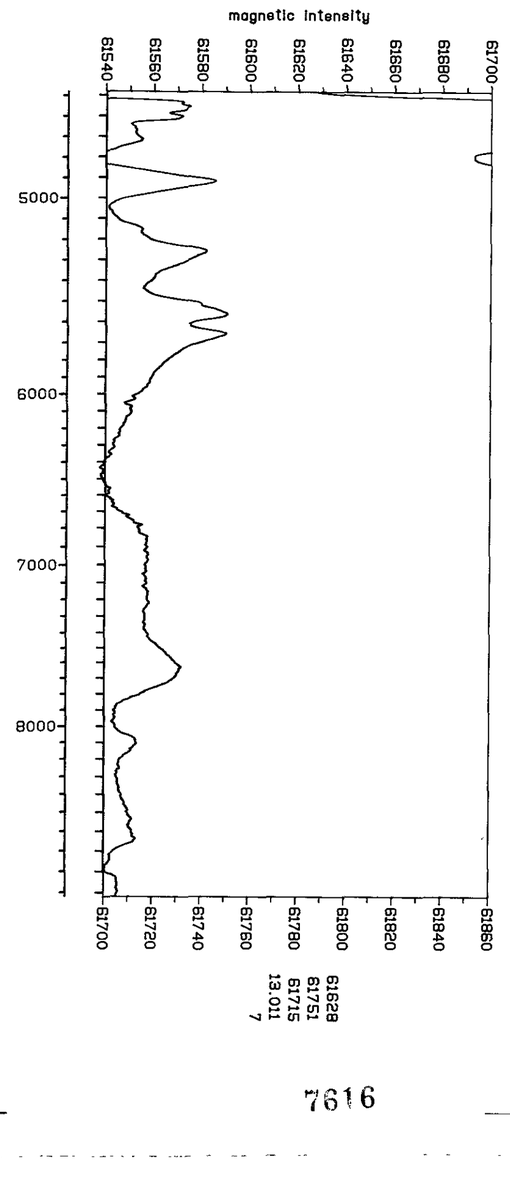










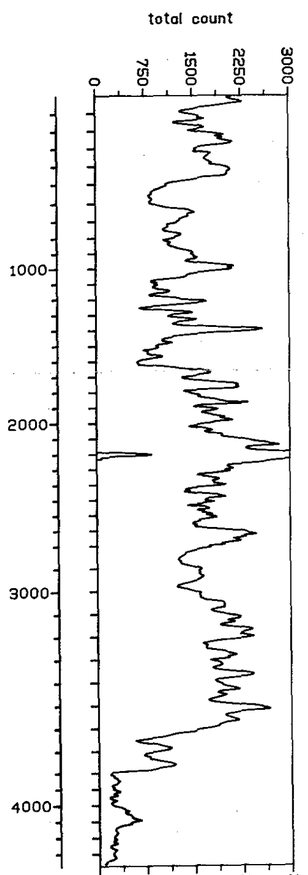


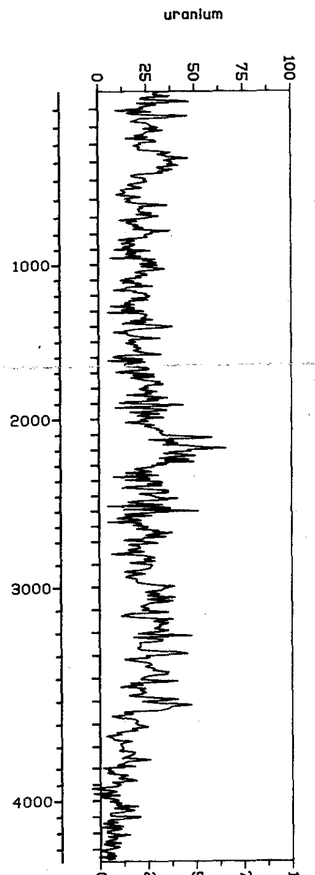
88-2841

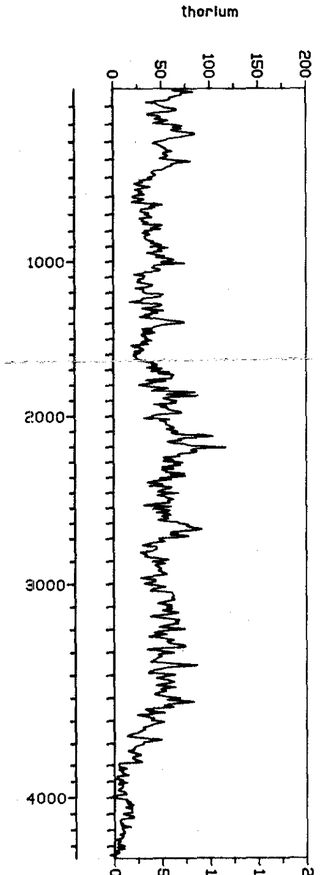
APPENDIX 3n

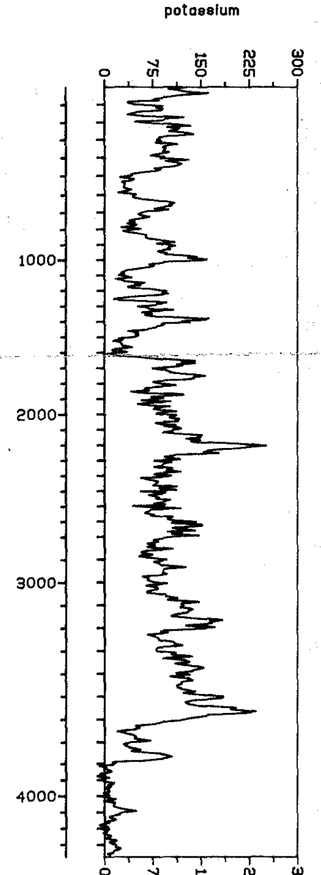
755045

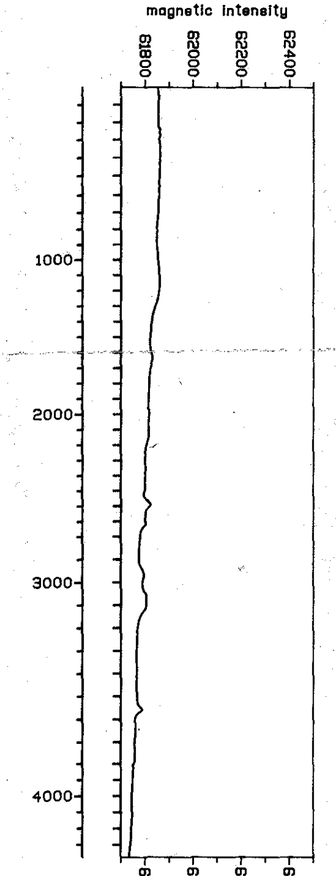
line	20091
flight	4
job	2052
date flown	25oct87
area	NE TASMANIA
fiducial	1 4376



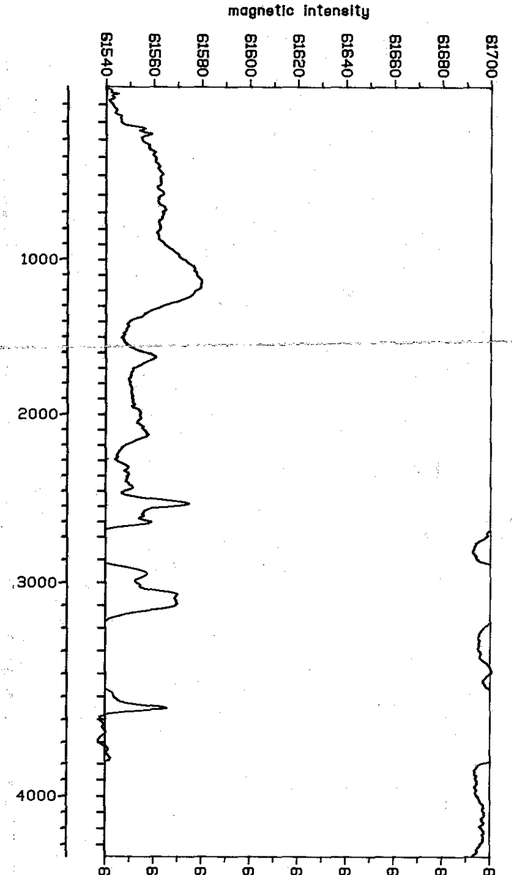








line	20091
flight	4
job	2052
date flown	25oct87
area	NE TASMANIA
fiducial	1 4376



7617

88-2841

APPENDIX 3o

line 20101
flight 5
job 2052
date flown 26oct87
area NE TASMANIA
fiducial 1 5560

total count

0 750 1500 2250 3000

1000 2000 3000 4000 5000

93.153
2705.5
1382.2
485
14

uranium

0 25 50 75 100

1000 2000 3000 4000 5000

-1.613
54.969
20.044
7.6068
14

thorium

0 50 100 150 200

1000 2000 3000 4000 5000

4.4912
101.02
42.231
16.044
14

potassium

0 75 150 225 300

1000 2000 3000 4000 5000

1.9786
204.3
80.583
36.201
14

magnetic intensity

61800 62000 62200 62400

1000 2000 3000 4000 5000

61738
61935
61829
47.013
0

magnetic intensity

61700 61720 61740 61760 61780 61800 61820 61840 61860

1000 2000 3000 4000 5000

61686
61743
61706
9.6589
7

61540 61560 61580 61600 61620 61640 61660 61680 61700

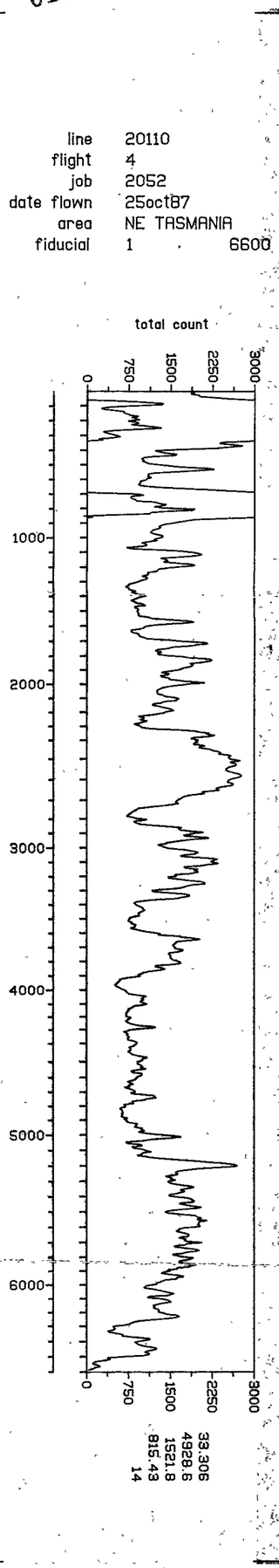
013

88-2841

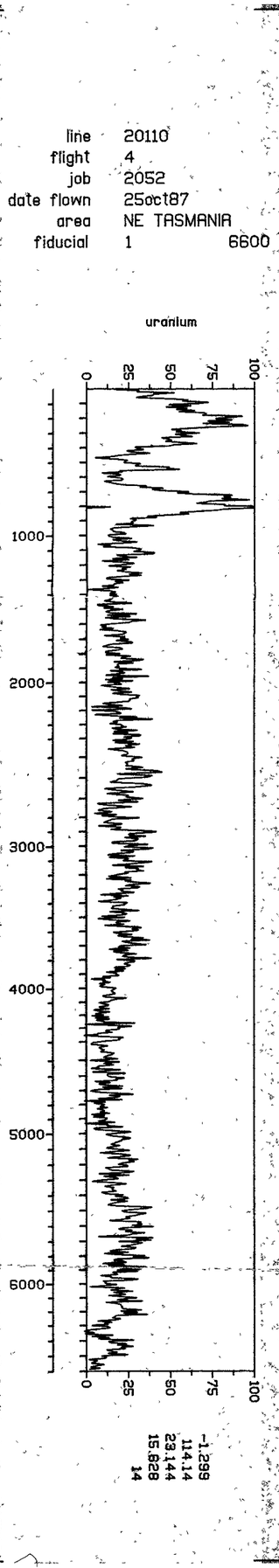
755047

APPENDIX 3p

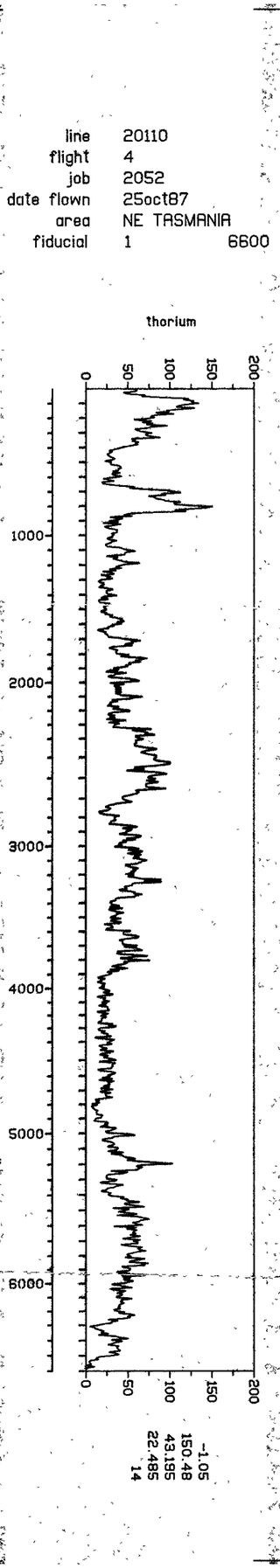
line 20110
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 1 6600



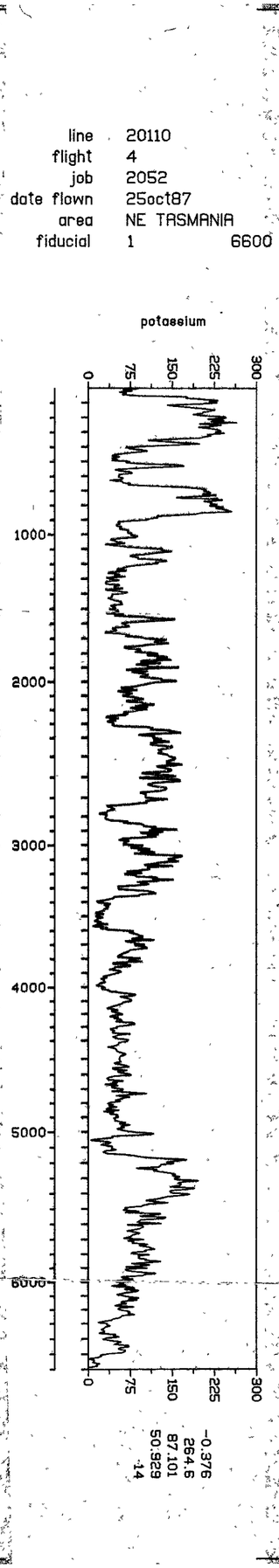
line 20110
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 1 6600



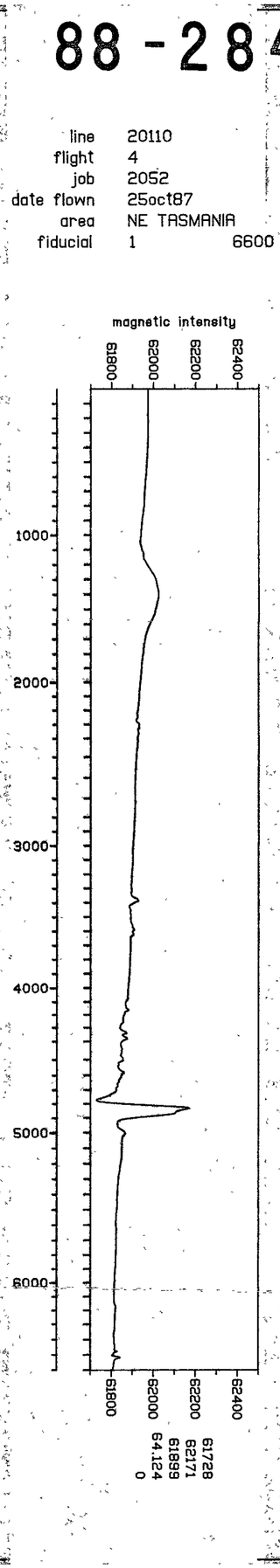
line 20110
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 1 6600



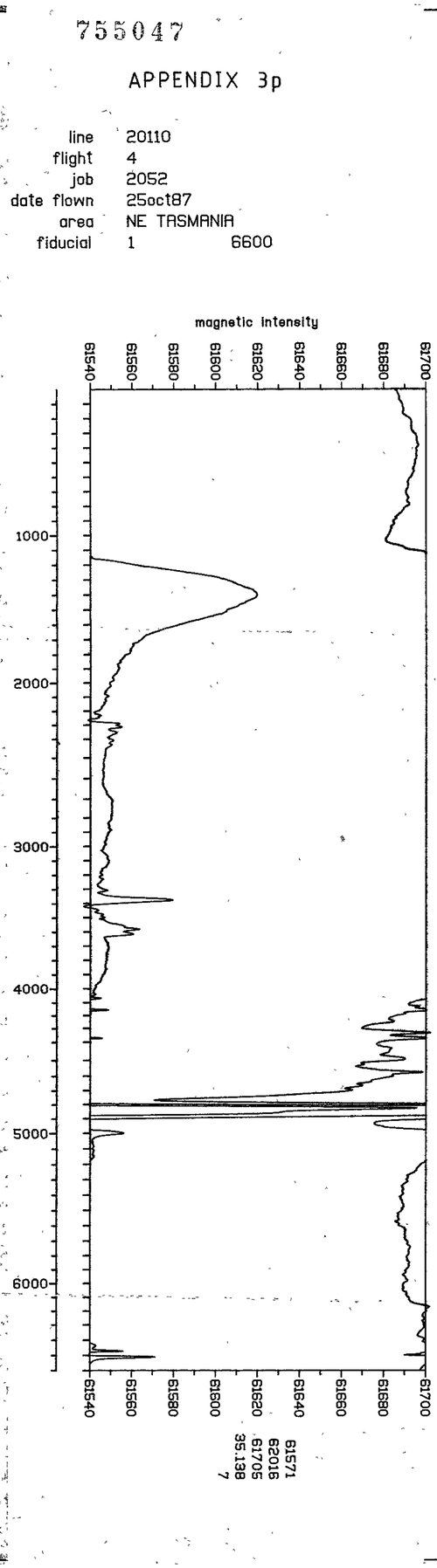
line 20110
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 1 6600



line 20110
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 1 6600



line 20110
flight 4
job 2052
date flown 25oct87
area NE TASMANIA
fiducial 1 6600



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755048

PLACECO AUSTRALIA
LOGISTICS REPORT
OF

AIRBORNE GEOPHYSICAL SURVEY
REGIONAL LINES OF NORTH EAST TASMANIA

BY

AUSTIREX INTERNATIONAL LIMITED

AUSTIREX INTERNATIONAL LTD

016

CONTENTS

		PAGE NO.
A.	Logistics and Operational Statistics	3
B.	Survey Details and Instrument Specifications	3
C.	System Calibrations and Checks	5
D.	Geophysical Data Processing	7
E.	Survey Area Locality Plan	8
Appendix 1 -	Spectrometer Calibrations, Test Line and Flight Line Statistics.	9

A. LOGISTICS AND OPERATIONAL STATISTICS

1. Operating Base

The operating base was Launceston, Tasmania.

2. Survey Field Crew

Pilot/Navigator	- M. Howell
Engineer	- P. McAuliffe
Data Technician	- S. Durko
Manager	- R. Creagh

3. Aircraft

Survey aircraft	- Aerocommander 500S,
Registration	- VH-FGS

4. Flight Summary

Production flights number	- 3
Survey commencement	- 25 October 1987
Survey finish	- 27 October 1987
Duration	- 3 days

B. SURVEY DETAILS AND INSTRUMENT SPECIFICATIONS

1. Area

Regional reconnaissance

Locations:-

Line 1 - (Not flown due adverse weather)
Line 2 - Frankford Highway to Tomahawk River
Line 3 - Boulder Point to Frankford
Line 4 - Hillwood to Purelon Bay Point
Line 5 - Lalla to Branxholm
Line 6 - Bay of Fires to Eagle Hawk tier
Line 7 - The Ball Room to Alberton Creek
Line 8 - Billy of Tin tier to Blessington
Line 9 - Rose tier South to Coast
Line 10 - Ben Lomond East to Upper Scamander
Line 11 - Rossanden to Scamander

Flight ine directions	North easterly
Mean terrain clearance	60 - 100 metres
Line distance	701.7 kilometres

2. Photography and Navigation

Navigation was visual from 1:100,000 topographic maps.

Horizontal control were obtained from 1:25,000 topographic maps

3. Flight Path Recovery

Flight path recovery was carried out using visual image recognition from the tracking films on topographic maps.

The average distance between recovered points was no greater than 5 kilometres along lines where sufficient photographic and topographic detail was present.

4. Airborne Magnetometer

Type	- Scintrex, V 2321 alkali vapour
Resolution	- 0.01 nanoTeslas
Operating range	- 17,000 - 95,000 nanoTeslas
Mounting	- Tail stinger
Sampling rate	- 0.125 seconds

5. Spectrometer

Type	- Exploranium, GR-800D
Channels	- 256
Sampling rate	- 1.0 seconds
Crystal volume	- 33.56 litres

Spectral windows:-

	Channel		Energy (MeV)	
	from	to	from	to
Total Count	2	254	0.321	2.995
Potassium	101	120	1.368	1.579
Uranium	128	147	1.653	1.853
Thorium	198	236	2.393	2.805
Cosmic	255	255	2.995	6.000

6. Alitimeter

Type	- Radar Collins ALT-50
Range	- 0 - 610 metres
Sampling rate	- 1.0 seconds

7. Ground Magnetometer

Type	- Geometrics G-856A
Resolution	- 0.1 nanoTeslas
Sampling rate	- 20 seconds
Recorder	- Hewlett Packard 85B computer.
Location	- Sited at the airfield

8. Tracking Camera

Type	- Scientific, Vinten MkII
Format	- 16mm, single frame
Lens	- 5.9mm

9. Acquisition System

9.1 Digital recording on magnetic tape at 1.0 second intervals of:-

Flight and line numbers
Fiducial numbers
Time
Magnetometer readings (eight)
Radiometric channels, T.C., U, Th, K
Altitude

9.2 Analogue recording on multi-channel of:-

Radiometric data.

CH.8	T.C.	- 0 - 1000 CPS
CH.7	K	- 0 - 100 CPS
CH.6	U	- 0 - 100 CPS
CH.5	Th	- 0 - 100 CPS

Altimeter data.

CH.3	- 0 - 1000ft.

Magnetic data.

CH.2	- 0 - 1000nT
CH.1	- 0 - 100nT

10. Climatic Conditions

Light rain and low clouds recorded during the period 25 - 27/10/87.

11. Geo-magnetic Conditions

The diurnal field was recorded as unstable during the period 23 and 25/10/87.

C. SYSTEM CALIBRATIONS AND CHECKS

1. System Calibration

1. Magnetometer heading/manoeuvre compensation.

Differences: N -0.6nT
S -0.2nT
E +0.4nT
W -0.1nT

2. System parallax calibration
Lag:- 7 fiducials - Magnetometer
- 6.5 fiducials - Spectrometer

3. Spectrometer hand sample checks using Cs, U and Th sources were completed before and after each day's production flight recorded and noted on the flight logs. Refer to Appendix 1 for the statistical summary.

4. Resolution of the gamma ray spectrometer were carried out using a Cs137 source. The average resolution of the crystal pack was better than 12% FWHM of the photopeak at 0.662 Mev.

5. Test lines were flown prior to and after each day's production to ensure system repeatability. Refer to Appendix 1 for the statistical summary.

2. Data Acquisition Checks

The checks performed on the data acquisition system involved a read after write check on the tape.

On receipt of data from the field, statistics of each variable are computed, as well as each production line is profiled and the results checked for data integrity.

3. Correction Coefficients

3.1 Analogue Stripping

The following stripping coefficients are applied to the data prior to presentation on the analogues:-

Thorium/Uranium	0.3
Thorium/Potassium	0.5
Uranium/Potassium	0.7

3.2 Digital Stripping

The following coefficients are to be used for stripping the digital data:-

Thorium/Uranium	(alpha)	0.251
Thorium/Potassium	(beta)	0.335
Uranium/Potassium	(gamma)	0.817
Uranium/Thorium	(a)	0.022

3.3 Aircraft Background and Cosmic Correction

These coefficients were determined from high altitude flights. The aircraft background is to be removed before stripping.

	Aircraft Background	Cosmic Correction
Total Count	230.6	2.107
Potassium	15.4	0.108
Uranium	7.3	0.090
Thorium	3.3	0.111

3.4 Altitude Attenuation

Total Count	0.007073
Potassium	0.007144
Uranium	0.005079
Thorium	0.006983

D. GEOPHYSICAL DATA PROCESSING

1. The field tapes are decoded and corrected for errors in date and line number. All lines deleted by the field are removed. The data is then automatically edited to remove any major spikes. Any errors not detected in the automatic edit are manually corrected.

   On receipt of flight path recovery the photos with control are digitized and then transformed using a persepective transformation. The flight path is then plotted and checked for any errors which are then corrected.

2. The line numbering series are:-

Pre-calibration	5010 - 5040
Post-calibration	6010 - 6040
Pre high level test line	5090
Pre low level test line	5080
Post high level test line	6090
Post low level test line	6080
Traverse lines	2010 - 2940
Heading checks	8010 - 8050
Equipment tests	9000 - 9999

3. Geophysical data processed:-

<u>Regional Areas</u>

3.1 Raw data multiplots

3.2 Flight path plots

3.3 Stacked magnetic, uranium, potassium and thorium profiles.

3.4 Located data tapes

COMMENTS:JOB 2052
3.11.1987
****** SPIKE - FINDING & DIURNAL INTERPOLATION *******
NO DIURNAL INTERPOLATION TO BE DONE

DIURNAL	: NOISE LEVEL	2	MINIMUM VALUE	0
MAGTS	: NOISE LEVEL	2	MINIMUM VALUE	40000
MAGLS	: NOISE LEVEL	2	MINIMUM VALUE	40000
MAGRS	: NOISE LEVEL	2	MINIMUM VALUE	40000
RALT	: NOISE LEVEL	20	MINIMUM VALUE	10
BALT	: NOISE LEVEL	5	MINIMUM VALUE	500
TC	: NOISE LEVEL	500	MINIMUM VALUE	10
K	: NOISE LEVEL	100	MINIMUM VALUE	0
UR	: NOISE LEVEL	100	MINIMUM VALUE	0
TH	: NOISE LEVEL	100	MINIMUM VALUE	0
COS	: NOISE LEVEL	50	MINIMUM VALUE	0
PITCH	: NOISE LEVEL	10	MINIMUM VALUE	-20
ROLL	: NOISE LEVEL	10	MINIMUM VALUE	-20
YAW	: NOISE LEVEL	10	MINIMUM VALUE	-20
VNS	: NOISE LEVEL	3	MINIMUM VALUE	-90
VEW	: NOISE LEVEL	3	MINIMUM VALUE	-90
BDG	: NOISE LEVEL	-1	MINIMUM VALUE	-1
EAST	: NOISE LEVEL	-1	MINIMUM VALUE	100000
NORTH	: NOISE LEVEL	-1	MINIMUM VALUE	5000000
R1	: NOISE LEVEL	50	MINIMUM VALUE	50
R2	: NOISE LEVEL	50	MINIMUM VALUE	50
R3	: NOISE LEVEL	50	MINIMUM VALUE	50
BDS	: NOISE LEVEL	-1	MINIMUM VALUE	-1
FLUXL	: NOISE LEVEL	-1	MINIMUM VALUE	-60000
FLUXT	: NOISE LEVEL	-1	MINIMUM VALUE	-60000
FLUXV	: NOISE LEVEL	-1	MINIMUM VALUE	-60000

2052 1 01001 A8 C15010S 20:10:22:04:17 20:10:22:06:22 1 1000 .13 54850
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	4293.79	4140.00	4478.00	95.93
K	348.42	294.00	409.00	30.28
UR	165.90	135.00	199.00	19.44
TH	76.20	54.00	101.00	16.34
COS	45.22	28.00	59.00	9.33

2052 1 01002 A8 C15011N 20:10:22:08:38 20:10:22:10:43 1001 2000 .13 54850
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2726.99	2578.00	2869.00	83.57
K	270.98	231.00	310.00	23.30
UR	69.06	52.00	89.00	13.98
TH	71.50	48.00	88.00	13.06
COS	44.58	29.00	64.00	11.79

2052 1 01003 A8 C15020S 20:10:22:11:39 20:10:22:13:44 2001 3000 .13 54850
PRE-FLIGHT URANIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	9256.16	9039.00	9497.00	150.85
K	573.94	520.00	640.00	32.73
UR	455.16	407.00	501.00	30.66
TH	95.82	70.00	120.00	17.96
COS	48.31	32.00	62.00	11.84

2052 1 01004 A8 C15030N 20:10:22:14:38 20:10:22:16:43 3001 4000 .13 54850
PRE-FLIGHT THORIUM SAMPLE

	MEAN	MAX	STD.
TC	11293.14	11560.00	161.79
K	521.24	576.00	34.86
UR	230.41	275.00	22.86
TH	687.36	739.00	32.30

COS	84.02	56.00	113.00	17.09

2052 1 01005 A8 C15040S 20:10:22:17:11 20:10:22:18:14 4001 4504 .13 54850
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2744.44	2640.00	2862.00	53.83
K	269.06	216.00	307.00	29.47
UR	67.84	51.00	87.00	11.14
TH	72.48	57.00	89.00	10.19
COS	45.19	29.00	62.00	9.82

LINE NO. 19000S - HAS BEEN SCRUBBED -#####

POSSIBLE SPIKE AT N = 321 , FID = 321 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 327 , FID = 327 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 333 , FID = 333 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 339 , FID = 339 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 345 , FID = 345 IN THE MAGTS CHANNEL
FID No. - 325 NEW MAG 61604.48 OLD MAG 58553.34 N = 325
FID No. - 326 NEW MAG 61604.42 OLD MAG 33392.10 N = 326
FID No. - 327 NEW MAG 61604.29 OLD MAG 23018.00 N = 327
FID No. - 328 NEW MAG 61604.15 OLD MAG 22872.33 N = 328
FID No. - 329 NEW MAG 61604.12 OLD MAG 23049.78 N = 329
FID No. - 330 NEW MAG 61604.12 OLD MAG 22945.83 N = 330
FID No. - 331 NEW MAG 61604.09 OLD MAG 22926.16 N = 331
FID No. - 332 NEW MAG 61604.12 OLD MAG 22853.74 N = 332
FID No. - 333 NEW MAG 61604.22 OLD MAG 22968.94 N = 333
FID No. - 334 NEW MAG 61604.32 OLD MAG 22873.79 N = 334
FID No. - 335 NEW MAG 61604.45 OLD MAG 22484.95 N = 335
FID No. - 336 NEW MAG 61604.55 OLD MAG 22655.26 N = 336
FID No. - 337 NEW MAG 61604.65 OLD MAG 22786.95 N = 337
FID No. - 338 NEW MAG 61604.71 OLD MAG 22807.00 N = 338
FID No. - 339 NEW MAG 61604.78 OLD MAG 22939.31 N = 339
FID No. - 340 NEW MAG 61604.98 OLD MAG 22985.73 N = 340
FID No. - 341 NEW MAG 61605.21 OLD MAG 23476.64 N = 341
FID No. - 342 NEW MAG 61605.41 OLD MAG 29432.31 N = 342
FID No. - 343 NEW MAG 61605.57 OLD MAG 50354.64 N = 343
FID No. - 344 NEW MAG 61605.74 OLD MAG 57325.28 N = 344
FID No. - 345 NEW MAG 61605.87 OLD MAG 54554.92 N = 345
FID No. - 346 NEW MAG 61606.07 OLD MAG 60349.83 N = 346
N= 22 5.03 CHANGED TO 8.59 FID = 22 VNS
N= 43 12.52 CHANGED TO 15.67 FID = 43 VNS
POSSIBLE SPIKE AT N = 47 , FID = 47 IN THE VNS CHANNEL
2052 1 01007 A8 C15080E 21:10:01:02:37 21:10:01:04:17 1 800 .13 54850
PRE-FLIGHT TEST LINE

	MEAN	MIN	MAX	STD.
MAGTS	61599.65	61477.43	61678.59	.06
RALT	62.57	57.00	73.00	1.79
TC	891.19	730.00	1069.00	48.25
K	80.57	44.00	107.00	12.05
UR	23.14	13.00	34.00	6.04
TH	19.96	8.00	30.00	8.19
COS	42.94	21.00	63.00	12.74
YAW	75.57	68.80	85.70	.41
VNS	14.92	4.09	25.11	1.47
VEW	63.23	61.05	67.74	.56

LINE NO. 19000E - HAS BEEN SCRUBBED -#####

2052 1 01009 A8 C15090E 21:10:01:10:15 21:10:01:11:55 1 800 .13 54850
PRE-FLIGHT HIGH LEVEL BACKGROUND

	MEAN	MIN	MAX	STD.
TC	398.11	345.00	435.00	31.36
K	28.01	17.00	41.00	8.24
UR	15.54	8.00	25.00	5.72
TH	10.63	3.00	23.00	6.08

```
COS                          42.99          27.00          62.00          11.94

STEP  AT N =    24 , FID =    24 IN THE VEW CHANNEL
NOISEY DATA AT N =    87 , FID =    87 IN THE VEW CHANNEL
POSSIBLE SPIKE AT N =    93 , FID =    93 IN THE VEW CHANNEL
POSSIBLE SPIKE AT N =   130 , FID =   130 IN THE VEW CHANNEL
2052 1 01010 A8 T17010N  21:10:01:19:21 21:10:01:21:38     1  1096  .13 54850
                              MEAN           MIN            MAX            STD.
MAGTS                     61694.18       61643.23       61725.49            .05
RALT                         61.01          54.00          70.00           2.90
TC                         1162.39         667.00        2125.00          65.12
K                           105.08          55.00         196.00          18.03
UR                           28.78           8.00          61.00           9.34
TH                           28.28           6.00          82.00          11.88
COS                          42.55          23.00          67.00          14.48
YAW                         340.81         336.60         344.80            .45
VNS                          56.81          52.61          59.52            .69
VEW                         -17.74         -22.33         -14.21           1.66

STEP  AT N =   153 , FID =   153 IN THE VNS CHANNEL
2052 1 01011 A8 T17020N  21:10:01:26:35 21:10:01:30:15  1097  2856  .13 61700
                              MEAN           MIN            MAX            STD.
MAGTS                     61707.88       61646.41       61750.47            .06
RALT                         62.43          54.00          74.00           2.32
TC                         1254.12         570.00        2842.00          74.52
K                           102.31          30.00         229.00          16.53
UR                           33.20          13.00          87.00           9.13
TH                           33.42          10.00          94.00          10.76
COS                          42.59          27.00          60.00          10.66
YAW                         342.19         335.70         349.50            .51
VNS                          58.05          51.76          61.98            .72
VEW                         -16.56         -27.12         -10.48           2.01

POSSIBLE SPIKE AT N =   990 , FID =  3846 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   996 , FID =  3852 IN THE MAGTS CHANNEL
FID No. -  3846  NEW MAG    61723.71  OLD MAG    61723.87  N =   990
FID No. -  3847  NEW MAG    61723.71  OLD MAG    61723.62  N =   991
FID No. -  3848  NEW MAG    61723.71  OLD MAG    61724.54  N =   992
FID No. -  3849  NEW MAG    61723.71  OLD MAG    61691.71  N =   993
FID No. -  3850  NEW MAG    61723.38  OLD MAG    61686.85  N =   994
FID No. -  3851  NEW MAG    61723.05  OLD MAG    61721.04  N =   995
FID No. -  3852  NEW MAG    61722.72  OLD MAG    61722.62  N =   996
2052 1 01012 A8 T17030N  21:10:01:36:20 21:10:01:41:22  2857  5272  .13 61700
                              MEAN           MIN            MAX            STD.
MAGTS                     61714.54       61639.63       61768.55            .05
RALT                         61.57          44.00          80.00           2.27
TC                         1114.85         426.00        3312.00          55.02
K                            85.15          24.00         262.00          15.76
UR                           31.25          12.00         100.00           9.03
TH                           29.30           8.00          98.00           8.38
COS                          42.74          27.00          63.00           9.77
YAW                         340.97         335.00         348.30            .47
VNS                          58.03          48.49          64.88            .80
VEW                         -18.00         -25.10          -8.99           2.23

2052 1 01013 A8 T17040N  21:10:01:47:19 21:10:01:52:18  5273  7664  .13 61700
                              MEAN           MIN            MAX            STD.
MAGTS                     61709.20       61641.15       61765.08            .05
RALT                         60.53          50.00          82.00           2.46
TC                         1266.07         585.00        3417.00          69.68
K                            95.61          31.00         269.00          15.65
UR                           35.54           8.00         116.00           9.95
TH                           33.72           8.00         145.00          10.61
COS                          44.22          26.00          65.00          11.00
YAW                         342.23         335.00         348.50            .55
VNS                          58.82          51.51          64.03            .77
```

VEW	-16.66	-24.55	-9.39	2.20

2052 1 01014 A8 T17050N 21:10:01:58:17 21:10:02:03:21 1 2432 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61707.88	61642.32	61765.75	.05
RALT	60.05	48.00	80.00	2.66
TC	1318.57	650.00	3315.00	75.43
K	106.02	34.00	289.00	17.02
UR	35.07	15.00	105.00	8.10
TH	34.16	9.00	91.00	9.70
COS	42.80	28.00	59.00	11.43
YAW	342.61	339.20	349.00	.48
VNS	58.31	50.06	63.88	.68
VEW	-15.56	-23.89	-7.04	1.94

2052 1 01015 A8 T17060N 21:10:02:09:27 21:10:02:14:22 2433 4792 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61702.78	61642.16	61756.57	.06
RALT	63.10	48.00	108.00	3.09
TC	1223.82	536.00	2167.00	67.49
K	98.30	31.00	206.00	17.77
UR	32.89	14.00	66.00	10.47
TH	31.70	8.00	74.00	10.74
COS	43.81	25.00	66.00	12.35
YAW	341.76	334.50	345.80	.51
VNS	59.44	48.85	65.54	.77
VEW	-17.38	-26.68	-7.54	2.05

2052 1 01016 A8 T17070N 21:10:02:20:56 21:10:02:25:54 4793 7176 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61699.03	61635.17	61757.42	.05
RALT	64.36	51.00	96.00	3.05
TC	1225.76	675.00	2612.00	72.70
K	97.69	36.00	256.00	14.78
UR	32.96	16.00	70.00	8.99
TH	32.18	11.00	74.00	8.99
COS	44.01	23.00	64.00	11.12
YAW	342.59	338.20	349.70	.64
VNS	62.29	50.72	71.48	.82
VEW	-17.56	-26.56	-9.97	2.00

POSSIBLE SPIKE AT N = 595 , FID = 595 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 601 , FID = 601 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 607 , FID = 607 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 714 , FID = 714 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 721 , FID = 721 IN THE MAGTS CHANNEL
STEP AT N = 731 , FID = 731 IN THE MAGTS CHANNEL

FID No. -	598	NEW MAG	61715.84	OLD MAG	61653.80	N =	598
FID No. -	599	NEW MAG	61715.84	OLD MAG	60558.50	N =	599
FID No. -	600	NEW MAG	61715.84	OLD MAG	54586.03	N =	600
FID No. -	601	NEW MAG	61715.84	OLD MAG	44215.64	N =	601
FID No. -	602	NEW MAG	61716.17	OLD MAG	37922.84	N =	602
FID No. -	603	NEW MAG	61716.17	OLD MAG	31064.04	N =	603
FID No. -	604	NEW MAG	61716.17	OLD MAG	22718.34	N =	604
FID No. -	605	NEW MAG	61715.84	OLD MAG	21355.51	N =	605
FID No. -	606	NEW MAG	61715.84	OLD MAG	24308.34	N =	606
FID No. -	607	NEW MAG	61715.84	OLD MAG	47391.04	N =	607
FID No. -	608	NEW MAG	61715.51	OLD MAG	61715.20	N =	608
FID No. -	609	NEW MAG	61715.18	OLD MAG	61715.29	N =	609
FID No. -	610	NEW MAG	61715.18	OLD MAG	61715.25	N =	610
FID No. -	611	NEW MAG	61715.18	OLD MAG	61716.86	N =	611
FID No. -	612	NEW MAG	61715.18	OLD MAG	61716.63	N =	612
FID No. -	716	NEW MAG	61708.91	OLD MAG	61708.05	N =	716
FID No. -	717	NEW MAG	61708.91	OLD MAG	54944.78	N =	717
FID No. -	718	NEW MAG	61708.91	OLD MAG	31194.88	N =	718
FID No. -	719	NEW MAG	61708.91	OLD MAG	21576.43	N =	719

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FID No. -   720  NEW MAG    61708.91  OLD MAG    21156.57  N =   720
FID No. -   721  NEW MAG    61708.91  OLD MAG    20968.25  N =   721
FID No. -   722  NEW MAG    61708.58  OLD MAG    21324.71  N =   722
FID No. -   723  NEW MAG    61708.58  OLD MAG    21373.21  N =   723
FID No. -   724  NEW MAG    61708.58  OLD MAG    21285.70  N =   724
FID No. -   725  NEW MAG    61708.58  OLD MAG    21420.90  N =   725
FID No. -   726  NEW MAG    61708.25  OLD MAG    21307.67  N =   726
FID No. -   727  NEW MAG    61708.25  OLD MAG    21126.71  N =   727
FID No. -   728  NEW MAG    61708.25  OLD MAG    21446.19  N =   728
FID No. -   729  NEW MAG    61708.25  OLD MAG    21780.88  N =   729
FID No. -   730  NEW MAG    61708.58  OLD MAG    25858.88  N =   730
FID No. -   731  NEW MAG    61708.91  OLD MAG    55542.20  N =   731
FID No. -   732  NEW MAG    61708.91  OLD MAG    61708.72  N =   732
FID No. -   733  NEW MAG    61708.91  OLD MAG    61708.69  N =   733
FID No. -   734  NEW MAG    61708.91  OLD MAG    61708.80  N =   734
POSSIBLE SPIKE AT N =    12 , FID =    12 IN THE RALT CHANNEL
2052 1 01017 A8 T17080N  21:10:02:32:31 21:10:02:36:34     1  1944  .13 61700
                            MEAN          MIN          MAX          STD.
MAGTS                    61697.65     61655.15     61741.43          .08
RALT                        65.47        48.00       106.00         4.69
TC                        1414.89       718.00      2453.00        70.19
K                          109.30        40.00       225.00        16.45
UR -                        38.21        13.00        65.00        11.07
TH                          39.79        12.00        75.00         9.88
COS                         44.96        27.00        69.00        10.79
YAW                        342.93       338.20       347.90          .56
VNS                         62.37        46.23        75.00          .87
VEW                        -17.51       -22.73       -12.30         2.05

POSSIBLE SPIKE AT N =   248 , FID =  2192 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   254 , FID =  2198 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   260 , FID =  2204 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   266 , FID =  2210 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   272 , FID =  2216 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   278 , FID =  2222 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   284 , FID =  2228 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   290 , FID =  2234 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   302 , FID =  2246 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   308 , FID =  2252 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   314 , FID =  2258 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   320 , FID =  2264 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   326 , FID =  2270 IN THE MAGTS CHANNEL
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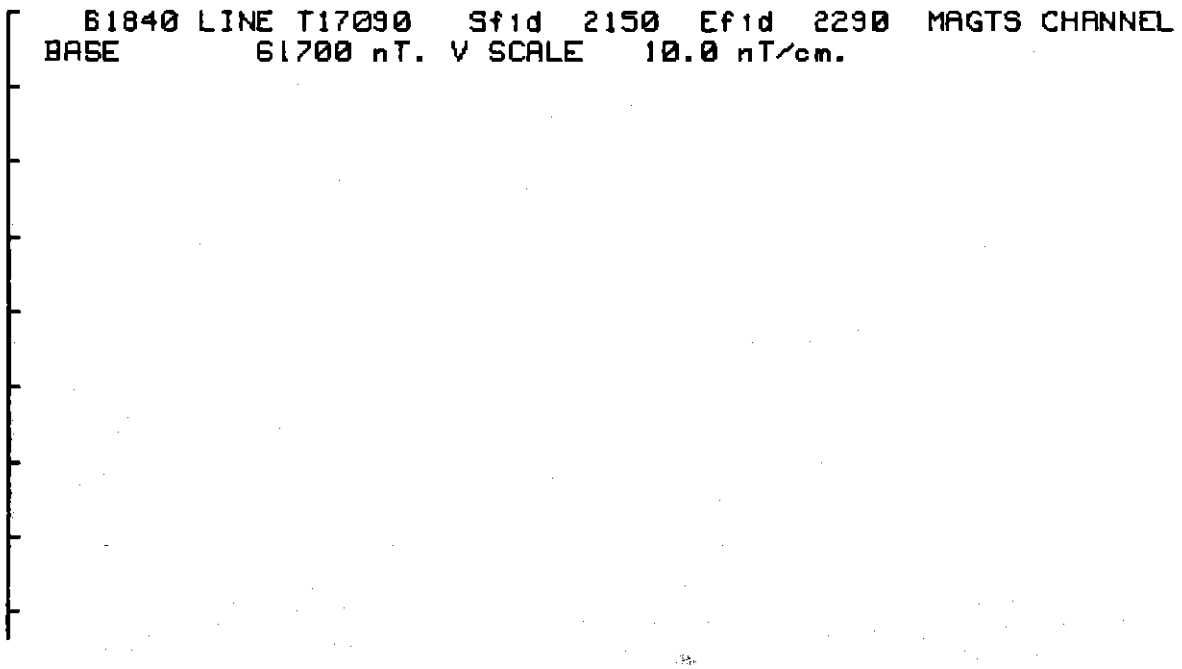

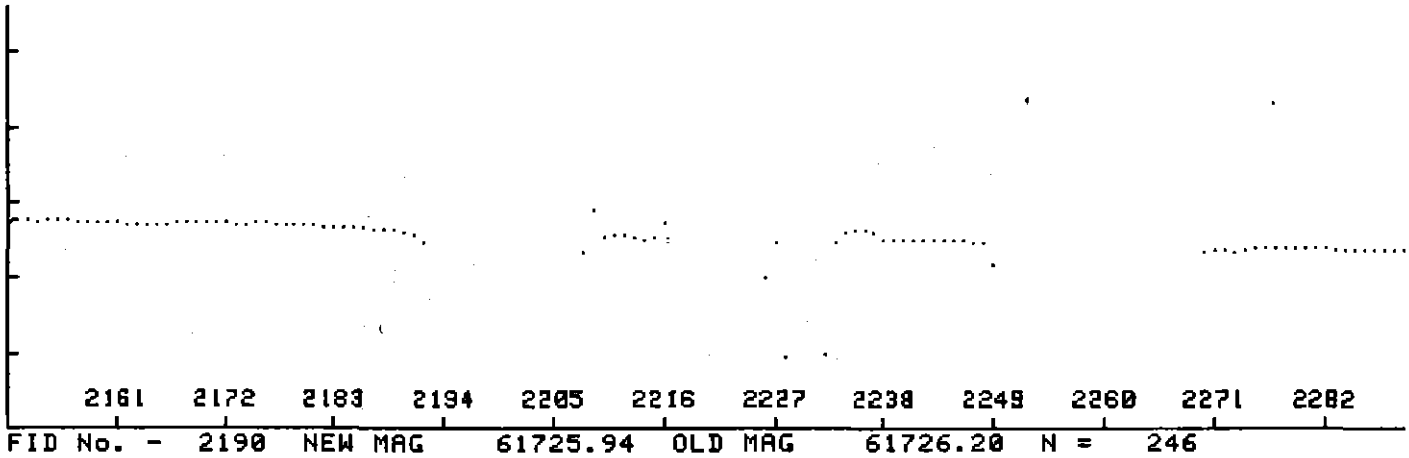

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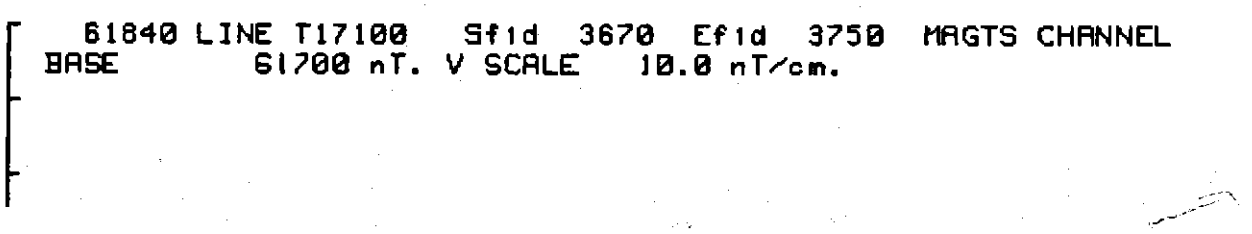
FID	No.	-	2190	NEW	MAG	61726.27	OLD	MAG	61726.20	N =	246
FID	No.	-	2191	NEW	MAG	61726.27	OLD	MAG	61725.90	N =	247
FID	No.	-	2192	NEW	MAG	61726.27	OLD	MAG	61724.67	N =	248
FID	No.	-	2193	NEW	MAG	61726.27	OLD	MAG	61376.00	N =	249
FID	No.	-	2194	NEW	MAG	61726.27	OLD	MAG	55681.37	N =	250
FID	No.	-	2195	NEW	MAG	61726.27	OLD	MAG	43064.31	N =	251
FID	No.	-	2196	NEW	MAG	61725.94	OLD	MAG	29766.66	N =	252
FID	No.	-	2197	NEW	MAG	61725.94	OLD	MAG	22437.50	N =	253
FID	No.	-	2198	NEW	MAG	61725.94	OLD	MAG	21326.84	N =	254
FID	No.	-	2199	NEW	MAG	61725.94	OLD	MAG	21663.96	N =	255
FID	No.	-	2200	NEW	MAG	61725.94	OLD	MAG	21333.17	N =	256
FID	No.	-	2201	NEW	MAG	61725.94	OLD	MAG	21334.41	N =	257
FID	No.	-	2202	NEW	MAG	61725.94	OLD	MAG	21820.25	N =	258
FID	No.	-	2203	NEW	MAG	61725.94	OLD	MAG	21447.06	N =	259
FID	No.	-	2204	NEW	MAG	61725.94	OLD	MAG	21500.69	N =	260
FID	No.	-	2205	NEW	MAG	61725.94	OLD	MAG	21903.05	N =	261
FID	No.	-	2206	NEW	MAG	61725.94	OLD	MAG	23849.44	N =	262
FID	No.	-	2207	NEW	MAG	61725.94	OLD	MAG	47150.10	N =	263
FID	No.	-	2208	NEW	MAG	61725.94	OLD	MAG	61723.38	N =	264
FID	No.	-	2209	NEW	MAG	61725.94	OLD	MAG	61728.92	N =	265
FID	No.	-	2210	NEW	MAG	61725.94	OLD	MAG	61725.49	N =	266
FID	No.	-	2211	NEW	MAG	61725.94	OLD	MAG	61725.62	N =	267
FID	No.	-	2212	NEW	MAG	61725.94	OLD	MAG	61725.59	N =	268
FID	No.	-	2213	NEW	MAG	61725.94	OLD	MAG	61725.29	N =	269
FID	No.	-	2214	NEW	MAG	61725.94	OLD	MAG	61725.18	N =	270
FID	No.	-	2215	NEW	MAG	61725.94	OLD	MAG	61725.48	N =	271
FID	No.	-	2216	NEW	MAG	61725.94	OLD	MAG	61727.32	N =	272
FID	No.	-	2217	NEW	MAG	61725.94	OLD	MAG	61704.82	N =	273
FID	No.	-	2218	NEW	MAG	61725.94	OLD	MAG	61174.75	N =	274
FID	No.	-	2219	NEW	MAG	61725.94	OLD	MAG	58992.61	N =	275
FID	No.	-	2220	NEW	MAG	61725.94	OLD	MAG	53286.04	N =	276
FID	No.	-	2221	NEW	MAG	61725.94	OLD	MAG	45355.48	N =	277
FID	No.	-	2222	NEW	MAG	61725.94	OLD	MAG	41273.96	N =	278
FID	No.	-	2223	NEW	MAG	61725.94	OLD	MAG	39522.95	N =	279
FID	No.	-	2224	NEW	MAG	61725.94	OLD	MAG	42305.14	N =	280
FID	No.	-	2225	NEW	MAG	61725.94	OLD	MAG	59317.82	N =	281
FID	No.	-	2226	NEW	MAG	61725.94	OLD	MAG	61720.27	N =	282
FID	No.	-	2227	NEW	MAG	61725.94	OLD	MAG	61724.89	N =	283
FID	No.	-	2228	NEW	MAG	61725.94	OLD	MAG	61709.44	N =	284
FID	No.	-	2229	NEW	MAG	61725.94	OLD	MAG	61443.42	N =	285
FID	No.	-	2230	NEW	MAG	61725.94	OLD	MAG	61012.77	N =	286
FID	No.	-	2231	NEW	MAG	61725.94	OLD	MAG	61138.71	N =	287
FID	No.	-	2232	NEW	MAG	61725.94	OLD	MAG	61709.93	N =	288
FID	No.	-	2233	NEW	MAG	61725.94	OLD	MAG	61724.69	N =	289
FID	No.	-	2234	NEW	MAG	61725.94	OLD	MAG	61725.98	N =	290
FID	No.	-	2235	NEW	MAG	61725.94	OLD	MAG	61726.29	N =	291
FID	No.	-	2236	NEW	MAG	61725.94	OLD	MAG	61726.49	N =	292
FID	No.	-	2237	NEW	MAG	61725.94	OLD	MAG	61725.97	N =	293
FID	No.	-	2238	NEW	MAG	61725.94	OLD	MAG	61725.18	N =	294
FID	No.	-	2239	NEW	MAG	61725.94	OLD	MAG	61725.21	N =	295
FID	No.	-	2240	NEW	MAG	61725.94	OLD	MAG	61725.14	N =	296

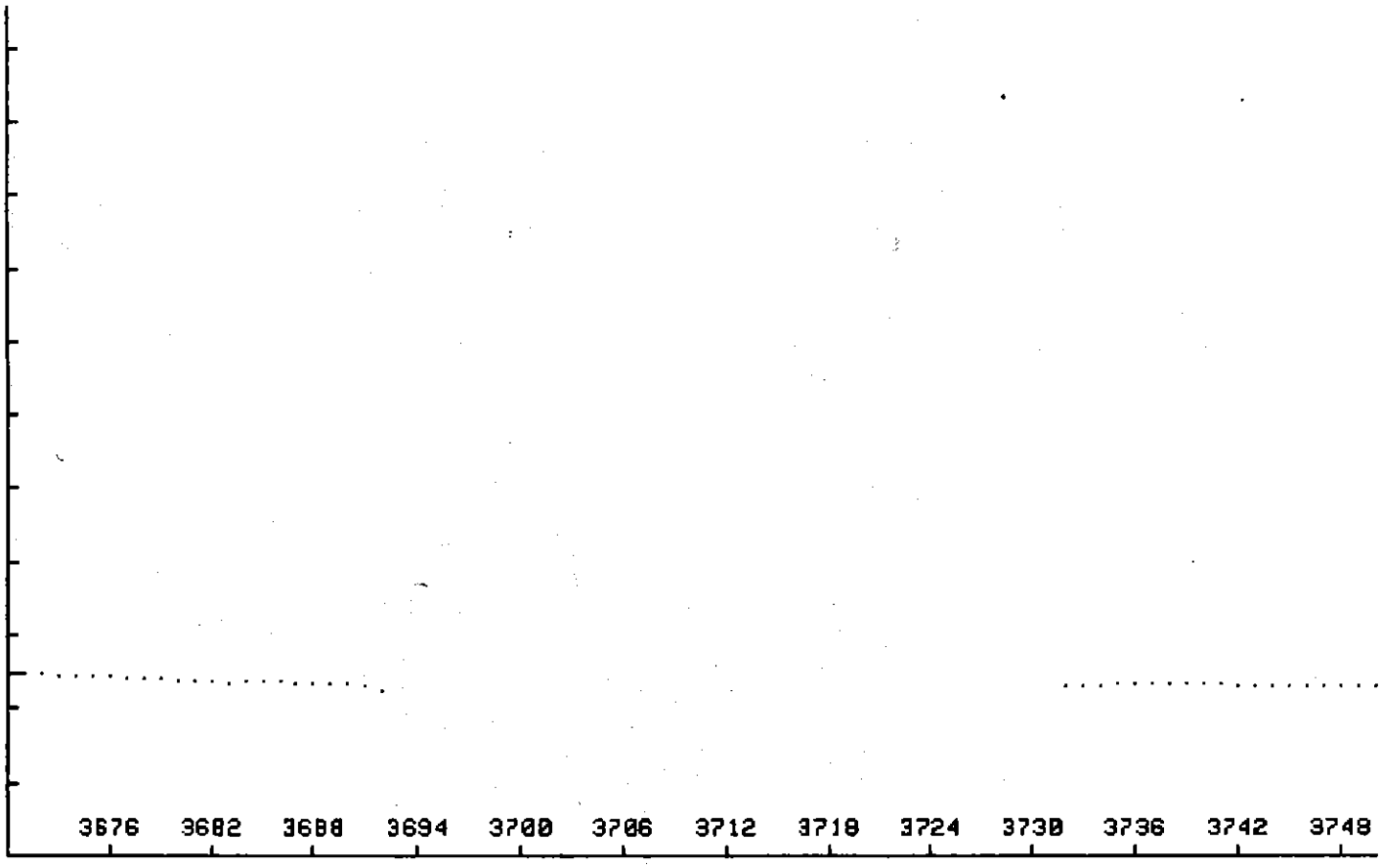
FID No. - 2241	NEW MAG	61725.61	OLD MAG	61725.08	N =	297
FID No. - 2242	NEW MAG	61725.61	OLD MAG	61725.11	N =	298
FID No. - 2243	NEW MAG	61725.28	OLD MAG	61724.94	N =	299
FID No. - 2244	NEW MAG	61725.28	OLD MAG	61724.95	N =	300
FID No. - 2245	NEW MAG	61725.28	OLD MAG	61725.08	N =	301
FID No. - 2246	NEW MAG	61725.28	OLD MAG	61724.95	N =	302
FID No. - 2247	NEW MAG	61725.28	OLD MAG	61724.80	N =	303
FID No. - 2248	NEW MAG	61725.28	OLD MAG	61724.84	N =	304
FID No. - 2249	NEW MAG	61725.28	OLD MAG	61721.90	N =	305
FID No. - 2250	NEW MAG	61725.28	OLD MAG	60715.23	N =	306
FID No. - 2251	NEW MAG	61725.28	OLD MAG	50845.23	N =	307
FID No. - 2252	NEW MAG	61718.28	OLD MAG	32726.63	N =	308
FID No. - 2252	NEW MAG	61725.28	OLD MAG	32726.63	N =	308
FID No. - 2253	NEW MAG	61725.28	OLD MAG	22271.66	N =	309
FID No. - 2254	NEW MAG	61725.28	OLD MAG	21562.96	N =	310
FID No. - 2255	NEW MAG	61725.28	OLD MAG	21408.34	N =	311
FID No. - 2256	NEW MAG	61724.95	OLD MAG	21530.74	N =	312
FID No. - 2257	NEW MAG	61724.95	OLD MAG	23222.83	N =	313
FID No. - 2258	NEW MAG	61724.95	OLD MAG	22521.77	N =	314
FID No. - 2259	NEW MAG	61724.95	OLD MAG	21829.81	N =	315
FID No. - 2260	NEW MAG	61724.62	OLD MAG	21679.19	N =	316
FID No. - 2261	NEW MAG	61724.62	OLD MAG	21765.48	N =	317
FID No. - 2262	NEW MAG	61724.62	OLD MAG	21682.93	N =	318
FID No. - 2263	NEW MAG	61724.62	OLD MAG	21934.32	N =	319
FID No. - 2264	NEW MAG	61724.62	OLD MAG	21365.27	N =	320
FID No. - 2265	NEW MAG	61724.62	OLD MAG	21270.56	N =	321
FID No. - 2266	NEW MAG	61724.29	OLD MAG	21211.40	N =	322
FID No. - 2267	NEW MAG	61724.29	OLD MAG	22220.64	N =	323
FID No. - 2268	NEW MAG	61724.29	OLD MAG	36178.77	N =	324
FID No. - 2269	NEW MAG	61723.96	OLD MAG	60617.83	N =	325
FID No. - 2270	NEW MAG	61723.96	OLD MAG	61723.59	N =	326
FID No. - 2271	NEW MAG	61723.96	OLD MAG	61723.71	N =	327
FID No. - 2272	NEW MAG	61723.96	OLD MAG	61723.70	N =	328
FID No. - 2273	NEW MAG	61723.96	OLD MAG	61723.59	N =	329
FID No. - 2274	NEW MAG	61723.96	OLD MAG	61723.84	N =	330

2052 1 01018 A8 T17090N 21:10:02:42:29 21:10:02:45:52 1945 3568 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61699.11	61662.22	61735.02	.06
RALT	67.13	52.00	144.00	3.33
TC	1319.21	678.00	2429.00	75.83
K	100.19	41.00	233.00	19.99
UR	35.90	12.00	69.00	9.45
TH	38.72	14.00	74.00	11.36
COS	45.30	26.00	68.00	12.13
YAW	343.60	339.10	349.60	.53
VNS	64.71	53.79	72.75	.82
VEW	-17.37	-25.17	-8.28	2.24

POSSIBLE SPIKE AT N = 121 , FID = 3689 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 127 , FID = 3695 IN THE MAGTS CHANNEL
NOISEY DATA AT N = 134 , FID = 3702 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 140 , FID = 3708 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 148 , FID = 3716 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 154 , FID = 3722 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 162 , FID = 3730 IN THE MAGTS CHANNEL





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FID No. -	3689	NEW MAG	61723.31	OLD MAG	61723.40	N =	121
FID No. -	3690	NEW MAG	61723.31	OLD MAG	61723.42	N =	122
FID No. -	3691	NEW MAG	61723.31	OLD MAG	61723.16	N =	123
FID No. -	3692	NEW MAG	61723.31	OLD MAG	61722.50	N =	124
FID No. -	3693	NEW MAG	61723.31	OLD MAG	60881.35	N =	125
FID No. -	3694	NEW MAG	61723.31	OLD MAG	42238.23	N =	126
FID No. -	3695	NEW MAG	61722.98	OLD MAG	24102.65	N =	127
FID No. -	3696	NEW MAG	61722.98	OLD MAG	21340.65	N =	128
FID No. -	3697	NEW MAG	61722.98	OLD MAG	20726.19	N =	129
FID No. -	3698	NEW MAG	61722.98	OLD MAG	21309.26	N =	130
FID No. -	3699	NEW MAG	61722.98	OLD MAG	21143.01	N =	131
FID No. -	3700	NEW MAG	61722.98	OLD MAG	21345.59	N =	132
FID No. -	3701	NEW MAG	61722.98	OLD MAG	21097.37	N =	133
FID No. -	3702	NEW MAG	61722.98	OLD MAG	21428.81	N =	134
FID No. -	3703	NEW MAG	61722.98	OLD MAG	21109.80	N =	135
FID No. -	3704	NEW MAG	61722.98	OLD MAG	21270.13	N =	136
FID No. -	3705	NEW MAG	61722.98	OLD MAG	20959.83	N =	137
FID No. -	3706	NEW MAG	61722.98	OLD MAG	21290.48	N =	138
FID No. -	3707	NEW MAG	61722.98	OLD MAG	21181.22	N =	139
FID No. -	3708	NEW MAG	61722.98	OLD MAG	21119.10	N =	140
FID No. -	3709	NEW MAG	61722.98	OLD MAG	21130.19	N =	141
FID No. -	3710	NEW MAG	61722.98	OLD MAG	20986.13	N =	142
FID No. -	3711	NEW MAG	61722.98	OLD MAG	21129.02	N =	143
FID No. -	3712	NEW MAG	61723.31	OLD MAG	21306.41	N =	144
FID No. -	3713	NEW MAG	61723.31	OLD MAG	21411.94	N =	145
FID No. -	3714	NEW MAG	61723.31	OLD MAG	21282.16	N =	146
FID No. -	3715	NEW MAG	61723.31	OLD MAG	21149.40	N =	147
FID No. -	3716	NEW MAG	61723.31	OLD MAG	20947.19	N =	148
FID No. -	3717	NEW MAG	61723.31	OLD MAG	21197.13	N =	149
FID No. -	3718	NEW MAG	61723.31	OLD MAG	21172.56	N =	150
FID No. -	3719	NEW MAG	61723.31	OLD MAG	21812.36	N =	151
FID No. -	3720	NEW MAG	61723.31	OLD MAG	21483.43	N =	152
FID No. -	3721	NEW MAG	61723.31	OLD MAG	21398.82	N =	153
FID No. -	3722	NEW MAG	61723.31	OLD MAG	21503.77	N =	154

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FID No. -  3723  NEW MAG    61723.31  OLD MAG    21283.13  N =   155
FID No. -  3724  NEW MAG    61723.31  OLD MAG    21659.37  N =   156
FID No. -  3725  NEW MAG    61723.31  OLD MAG    21326.31  N =   157
FID No. -  3726  NEW MAG    61723.31  OLD MAG    21495.10  N =   158
FID No. -  3727  NEW MAG    61723.31  OLD MAG    21484.34  N =   159
FID No. -  3728  NEW MAG    61723.31  OLD MAG    21485.20  N =   160
FID No. -  3729  NEW MAG    61723.31  OLD MAG    21701.32  N =   161
FID No. -  3730  NEW MAG    61723.31  OLD MAG    26069.37  N =   162
FID No. -  3731  NEW MAG    61723.31  OLD MAG    50149.54  N =   163
FID No. -  3732  NEW MAG    61723.31  OLD MAG    61723.06  N =   164
FID No. -  3733  NEW MAG    61723.31  OLD MAG    61723.04  N =   165
FID No. -  3734  NEW MAG    61723.31  OLD MAG    61723.23  N =   166
FID No. -  3735  NEW MAG    61723.31  OLD MAG    61723.47  N =   167
2052 1 01019 A8 T17100N  21:10:02:50:54 21:10:02:53:46  3569  4944  .13 61700
                          MEAN          MIN          MAX          STD.
MAGTS                  61699.22     61668.55     61730.06          .05
RALT                      66.08        48.00       149.00         2.42
TC                      1421.89       646.00      3053.00        93.61
K                        108.62        34.00       291.00        19.20
UR                        38.34        16.00        75.00         9.26
TH                        42.19        13.00        88.00        11.03
COS                       45.01        26.00        66.00        10.46
YAW                      344.38       340.70       349.50          .53
VNS                       62.24        51.61        70.67          .80
VEW                      -15.92       -22.61       -10.22         2.02

POSSIBLE SPIKE AT N =   845 , FID =  5789 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   851 , FID =  5795 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   857 , FID =  5801 IN THE MAGTS CHANNEL
FID No. -  5791  NEW MAG    61687.95  OLD MAG    61688.11  N =   847
FID No. -  5792  NEW MAG    61687.92  OLD MAG    61660.97  N =   848
FID No. -  5793  NEW MAG    61687.88  OLD MAG    61302.85  N =   849
FID No. -  5794  NEW MAG    61687.88  OLD MAG    59731.86  N =   850
FID No. -  5795  NEW MAG    61687.85  OLD MAG    54461.97  N =   851
FID No. -  5796  NEW MAG    61687.85  OLD MAG    50084.56  N =   852
FID No. -  5797  NEW MAG    61687.85  OLD MAG    50505.82  N =   853
FID No. -  5798  NEW MAG    61687.88  OLD MAG    60496.40  N =   854
FID No. -  5799  NEW MAG    61687.92  OLD MAG    61687.69  N =   855
2052 1 01020 A8 T17110N  21:10:02:58:33 21:10:03:01:12  4945  6216  .13 61700
                          MEAN          MIN          MAX          STD.
MAGTS                  61701.93     61671.65     61738.34          .09
RALT                      67.79        48.00        95.00         4.88
TC                      1758.22       840.00      2647.00        97.80
K                        136.65        49.00       247.00        21.16
UR                        45.31        18.00        71.00        10.44
TH                        53.09        14.00        82.00        12.56
COS                       45.84        27.00        64.00        11.37
YAW                      345.55       341.20       350.40          .50
VNS                       65.02        54.77        71.18          .76
VEW                      -16.09       -21.18       -10.25         2.07

POSSIBLE SPIKE AT N =   120 , FID =  6336 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   126 , FID =  6342 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   133 , FID =  6349 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   140 , FID =  6356 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   517 , FID =  6733 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   523 , FID =  6739 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   529 , FID =  6745 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   535 , FID =  6751 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   544 , FID =  6760 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   550 , FID =  6766 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   556 , FID =  6772 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   662 , FID =  6878 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   668 , FID =  6884 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   674 , FID =  6890 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   680 , FID =  6896 IN THE MAGTS CHANNEL
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POSSIBLE SPIKE AT N = 687 , FID = 6903 IN THE MAGTS CHANNEL

FID No. -	6881	NEW MAG	61695.35	OLD MAG	61686.98	N =	665
FID No. -	6882	NEW MAG	61695.32	OLD MAG	58468.41	N =	666
FID No. -	6883	NEW MAG	61695.28	OLD MAG	34482.77	N =	667
FID No. -	6884	NEW MAG	61695.25	OLD MAG	21803.98	N =	668
FID No. -	6885	NEW MAG	61695.22	OLD MAG	21531.31	N =	669
FID No. -	6886	NEW MAG	61695.18	OLD MAG	21333.61	N =	670
FID No. -	6887	NEW MAG	61695.15	OLD MAG	21313.66	N =	671
FID No. -	6888	NEW MAG	61695.12	OLD MAG	21191.64	N =	672
FID No. -	6889	NEW MAG	61695.05	OLD MAG	21072.44	N =	673
FID No. -	6890	NEW MAG	61694.99	OLD MAG	21548.22	N =	674
FID No. -	6891	NEW MAG	61694.92	OLD MAG	21643.02	N =	675
FID No. -	6892	NEW MAG	61694.89	OLD MAG	21658.36	N =	676
FID No. -	6893	NEW MAG	61694.79	OLD MAG	21305.10	N =	677
FID No. -	6894	NEW MAG	61694.72	OLD MAG	21063.48	N =	678
FID No. -	6895	NEW MAG	61694.69	OLD MAG	21427.78	N =	679
FID No. -	6896	NEW MAG	61694.69	OLD MAG	21522.85	N =	680
FID No. -	6897	NEW MAG	61694.66	OLD MAG	21484.09	N =	681
FID No. -	6898	NEW MAG	61694.62	OLD MAG	21545.30	N =	682
FID No. -	6899	NEW MAG	61694.59	OLD MAG	22014.39	N =	683
FID No. -	6900	NEW MAG	61694.56	OLD MAG	22704.41	N =	684
FID No. -	6901	NEW MAG	61694.56	OLD MAG	44210.68	N =	685
FID No. -	6902	NEW MAG	61694.56	OLD MAG	61678.02	N =	686
FID No. -	6338	NEW MAG	61722.58	OLD MAG	61722.64	N =	122
FID No. -	6339	NEW MAG	61722.29	OLD MAG	61721.35	N =	123
FID No. -	6340	NEW MAG	61722.12	OLD MAG	61324.51	N =	124
FID No. -	6341	NEW MAG	61721.92	OLD MAG	51417.57	N =	125
FID No. -	6342	NEW MAG	61721.79	OLD MAG	29682.35	N =	126
FID No. -	6343	NEW MAG	61721.63	OLD MAG	21654.63	N =	127
FID No. -	6344	NEW MAG	61721.56	OLD MAG	21599.47	N =	128
FID No. -	6345	NEW MAG	61721.50	OLD MAG	21506.94	N =	129
FID No. -	6346	NEW MAG	61721.43	OLD MAG	21553.18	N =	130
FID No. -	6347	NEW MAG	61721.40	OLD MAG	21163.11	N =	131
FID No. -	6348	NEW MAG	61721.40	OLD MAG	21451.28	N =	132
FID No. -	6349	NEW MAG	61721.36	OLD MAG	21180.07	N =	133
FID No. -	6350	NEW MAG	61721.33	OLD MAG	21666.23	N =	134
FID No. -	6351	NEW MAG	61721.30	OLD MAG	21568.83	N =	135
FID No. -	6352	NEW MAG	61721.30	OLD MAG	21523.84	N =	136
FID No. -	6353	NEW MAG	61721.26	OLD MAG	21532.06	N =	137
FID No. -	6354	NEW MAG	61721.30	OLD MAG	22236.92	N =	138
FID No. -	6355	NEW MAG	61721.33	OLD MAG	34383.27	N =	139
FID No. -	6356	NEW MAG	61721.36	OLD MAG	58062.97	N =	140

POSSIBLE SPIKE AT N = 517 , FID = 6733 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 523 , FID = 6739 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 529 , FID = 6745 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 535 , FID = 6751 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 544 , FID = 6760 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 550 , FID = 6766 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 556 , FID = 6772 IN THE MAGTS CHANNEL

6734
6769

POSSIBLE SPIKE AT N = 517 , FID = 6733 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 523 , FID = 6739 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 529 , FID = 6745 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 535 , FID = 6751 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 544 , FID = 6760 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 550 , FID = 6766 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 556 , FID = 6772 IN THE MAGTS CHANNEL

2052 1 01021 A8 T17120N 21:10:03:05:21 21:10:03:07:08 6217 7072 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	60390.10	21174.27	61729.83	446.44
RALT	77.64	53.00	141.00	3.66
TC	1556.44	608.00	2233.00	56.47
K	111.86	27.00	186.00	15.70
UR	42.53	17.00	63.00	11.04
TH	48.64	13.00	85.00	9.12
COS	47.02	33.00	69.00	14.35
YAW	344.12	338.20	347.30	.71
VNS	66.58	55.24	76.97	.61

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VEW                    -17.60       -25.84       -13.29         2.11

POSSIBLE SPIKE AT N =   127 , FID =   127 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   133 , FID =   133 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   139 , FID =   139 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   320 , FID =   320 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   326 , FID =   326 IN THE MAGTS CHANNEL
N=   332     22445.34 CHANGED TO    28215.94  FID =    332  MAGTS
FID No. -   127  NEW MAG    61715.57  OLD MAG    61717.62  N =   127
FID No. -   134  NEW MAG    61714.83  OLD MAG    61717.04  N =   134
FID No. -   135  NEW MAG    61714.74  OLD MAG    61715.98  N =   135
FID No. -   136  NEW MAG    61714.64  OLD MAG    61575.63  N =   136
FID No. -   137  NEW MAG    61714.54  OLD MAG    61498.61  N =   137
FID No. -   138  NEW MAG    61714.47  OLD MAG    61711.14  N =   138
FID No. -   323  NEW MAG    61705.63  OLD MAG    61705.46  N =   323
FID No. -   324  NEW MAG    61705.60  OLD MAG    60253.68  N =   324
FID No. -   325  NEW MAG    61705.53  OLD MAG    35062.99  N =   325
FID No. -   326  NEW MAG    61705.44  OLD MAG    21606.82  N =   326
FID No. -   327  NEW MAG    61705.40  OLD MAG    21333.05  N =   327
FID No. -   328  NEW MAG    61705.44  OLD MAG    21337.18  N =   328
FID No. -   329  NEW MAG    61705.44  OLD MAG    21335.99  N =   329
FID No. -   330  NEW MAG    61705.50  OLD MAG    20814.60  N =   330
FID No. -   331  NEW MAG    61705.60  OLD MAG    21403.94  N =   331
FID No. -   332  NEW MAG    61705.67  OLD MAG    28215.94  N =   332
FID No. -   333  NEW MAG    61705.73  OLD MAG    44744.08  N =   333
FID No. -   334  NEW MAG    61705.77  OLD MAG    61702.01  N =   334
2052 1 01022 A8 T17130N  21:10:03:09:50 21:10:03:11:06     1   608  .13 61700
                          MEAN          MIN          MAX          STD.
MAGTS                 61708.51     61695.04     61730.41          .06
RALT                     66.05        50.00        80.00         2.26
TC                     1601.79      1006.00      2075.00        60.32
K                       100.70        36.00       162.00        16.89
UR                       48.54        30.00        73.00        15.73
TH                       55.39        27.00        86.00        10.07
COS                      46.61        35.00        63.00         8.30
YAW                     347.46       340.60       358.30          .67
VNS                      62.56        53.03        70.48          .83
VEW                     -13.11       -20.51          .85         2.01

POSSIBLE SPIKE AT N =  1071 , FID =  1071 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =  1077 , FID =  1077 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =  1088 , FID =  1088 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =  1094 , FID =  1094 IN THE MAGTS CHANNEL
STEP  AT N =   109 , FID =   109 IN THE VNS CHANNEL
2052 1 01023 A8  12350E  21:10:03:21:24 21:10:03:24:10     1  1328  .13 61700
                          MEAN          MIN          MAX          STD.
MAGTS                 61115.71     20845.67     61770.89        285.63
RALT                     90.35        51.00       200.00         3.64
TC                     1336.12       609.00      2409.00        57.57
K                       105.66        29.00       222.00        17.73
UR                       35.10        17.00        64.00         8.78
TH                       35.19         6.00        71.00         8.95
COS                      47.29        31.00        71.00         9.83
YAW                      69.22        59.50        76.30          .60
VNS                      22.70        13.92        34.30         1.95
VEW                      64.85        51.03        74.32          .94

POSSIBLE SPIKE AT N =    51 , FID =  1379 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    57 , FID =  1385 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    63 , FID =  1391 IN THE MAGTS CHANNEL
FID No. -  1383  NEW MAG    61764.02  OLD MAG    61204.07  N =    55
FID No. -  1384  NEW MAG    61763.92  OLD MAG    43231.85  N =    56
FID No. -  1385  NEW MAG    61763.82  OLD MAG    24570.22  N =    57
FID No. -  1386  NEW MAG    61763.72  OLD MAG    21625.88  N =    58
FID No. -  1387  NEW MAG    61763.65  OLD MAG    21493.10  N =    59
FID No. -  1388  NEW MAG    61763.59  OLD MAG    24155.95  N =    60
FID No. -  1389  NEW MAG    61763.49  OLD MAG    48674.91  N =    61
FID No. -  1403  NEW MAG    61763.86  OLD MAG    61763.74  N =    75
POSSIBLE SPIKE AT N =   116 , FID =   116 IN THE RALT CHANNEL
2052 1 01024 A8  12340E  21:10:03:28:54 21:10:03:31:31  1329  2584  .13 61700
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MAGTS	61741.21	61709.71	61768.81	.07
RALT	85.45	47.00	203.00	4.47
TC	1346.69	628.00	2197.00	66.45
K	104.62	28.00	241.00	15.89
UR	34.51	17.00	68.00	10.05
TH	36.52	10.00	75.00	10.99
COS	46.25	30.00	68.00	10.92
YAW	69.84	54.10	75.90	.76
VNS	22.77	15.15	36.67	1.58
VEW	67.32	51.58	78.53	.66

POSSIBLE SPIKE AT N = 1070 , FID = 3742 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 1076 , FID = 3748 IN THE MAGTS CHANNEL

FID No. -	3740	NEW MAG	61727.47	OLD MAG	61727.52	N = 1068
FID No. -	3741	NEW MAG	61727.47	OLD MAG	61727.29	N = 1069
FID No. -	3742	NEW MAG	61727.47	OLD MAG	61727.08	N = 1070
FID No. -	3743	NEW MAG	61727.47	OLD MAG	61726.67	N = 1071
FID No. -	3744	NEW MAG	61727.47	OLD MAG	61726.59	N = 1072
FID No. -	3745	NEW MAG	61727.47	OLD MAG	61726.38	N = 1073
FID No. -	3746	NEW MAG	61727.47	OLD MAG	61115.61	N = 1074
FID No. -	3747	NEW MAG	61727.47	OLD MAG	40840.01	N = 1075
FID No. -	3748	NEW MAG	61727.47	OLD MAG	27055.50	N = 1076
FID No. -	3749	NEW MAG	61727.47	OLD MAG	45394.26	N = 1077
FID No. -	3750	NEW MAG	61727.47	OLD MAG	61721.77	N = 1078
FID No. -	3751	NEW MAG	61727.47	OLD MAG	61726.49	N = 1079
FID No. -	3752	NEW MAG	61727.47	OLD MAG	61726.69	N = 1080
FID No. -	3753	NEW MAG	61727.47	OLD MAG	61726.65	N = 1081
FID No. -	3754	NEW MAG	61727.47	OLD MAG	61726.94	N = 1082
FID No. -	3755	NEW MAG	61727.47	OLD MAG	61727.17	N = 1083
FID No. -	3756	NEW MAG	61727.47	OLD MAG	61727.28	N = 1084

2052 1 01026 A8 12331E 21:10:03:37:32 21:10:03:40:16 2673 3976 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61741.15	61708.19	61768.01	.07
RALT	82.67	47.00	178.00	4.64
TC	1367.18	656.00	2148.00	52.75
K	102.82	26.00	184.00	15.40
UR	37.07	13.00	76.00	8.34
TH	37.88	11.00	72.00	9.65
COS	46.14	28.00	65.00	10.54
YAW	71.73	65.20	76.60	.77
VNS	20.38	13.51	26.70	1.92
VEW	67.47	49.20	80.17	.67

2052 1 01027 A8 12320E 21:10:03:44:21 21:10:03:47:02 3977 5256 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61738.07	60841.86	61765.48	.38
RALT	84.76	49.00	200.00	4.54
TC	1419.93	645.00	2456.00	71.01
K	105.74	27.00	191.00	16.16
UR	38.41	14.00	83.00	11.54
TH	39.96	13.00	71.00	8.41
COS	45.91	22.00	66.00	11.40
YAW	72.16	66.40	75.80	.66
VNS	19.41	13.15	28.00	1.78
VEW	66.69	51.39	78.29	.88

N= 69 23.50 CHANGED TO 18.43 FID = 69 VNS
STEP AT N = 125 , FID = 125 IN THE VNS CHANNEL

2052 1 01028 A8 12310E 21:10:03:51:37 21:10:03:54:15 5257 6512 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61738.76	61708.36	61767.99	.07
RALT	87.08	53.00	182.00	3.94
TC	1385.45	626.00	2215.00	65.77
K	104.43	30.00	195.00	18.77
UR	37.08	15.00	88.00	10.45
TH	38.78	11.00	75.00	10.56
COS	47.61	33.00	76.00	12.30
YAW	70.85	65.10	76.10	.67
VNS	21.24	11.70	30.83	2.06
VEW	68.79	51.63	80.66	.77

LINE NO. 12300E - HAS BEEN SCRUBBED -*****

POSSIBLE SPIKE AT N = 1048 , FID = 7760 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 1054 , FID = 7766 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 1060 , FID = 7772 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 1066 , FID = 7778 IN THE MAGTS CHANNEL

FID No. -	7758	NEW MAG	61724.17	OLD MAG	61724.01	N =	1046
FID No. -	7759	NEW MAG	61724.17	OLD MAG	61723.65	N =	1047
FID No. -	7760	NEW MAG	61724.17	OLD MAG	61723.26	N =	1048
FID No. -	7761	NEW MAG	61724.17	OLD MAG	61722.85	N =	1049
FID No. -	7762	NEW MAG	61724.17	OLD MAG	61722.43	N =	1050
FID No. -	7763	NEW MAG	61724.17	OLD MAG	61700.96	N =	1051
FID No. -	7764	NEW MAG	61723.84	OLD MAG	41343.08	N =	1052
FID No. -	7765	NEW MAG	61723.84	OLD MAG	22713.88	N =	1053
FID No. -	7766	NEW MAG	61723.51	OLD MAG	21173.57	N =	1054
FID No. -	7767	NEW MAG	61723.51	OLD MAG	21495.12	N =	1055
FID No. -	7768	NEW MAG	61723.18	OLD MAG	21562.33	N =	1056
FID No. -	7769	NEW MAG	61723.18	OLD MAG	21376.87	N =	1057
FID No. -	7770	NEW MAG	61722.85	OLD MAG	21387.68	N =	1058
FID No. -	7771	NEW MAG	61722.85	OLD MAG	21408.70	N =	1059
FID No. -	7772	NEW MAG	61722.85	OLD MAG	21493.38	N =	1060
FID No. -	7773	NEW MAG	61722.52	OLD MAG	21509.13	N =	1061
FID No. -	7774	NEW MAG	61722.52	OLD MAG	21438.37	N =	1062
FID No. -	7775	NEW MAG	61722.52	OLD MAG	21531.70	N =	1063
FID No. -	7776	NEW MAG	61722.52	OLD MAG	22130.71	N =	1064
FID No. -	7777	NEW MAG	61722.19	OLD MAG	25956.32	N =	1065
FID No. -	7778	NEW MAG	61722.19	OLD MAG	45938.27	N =	1066
FID No. -	7779	NEW MAG	61722.19	OLD MAG	61689.02	N =	1067
FID No. -	7780	NEW MAG	61721.86	OLD MAG	61720.78	N =	1068
FID No. -	7781	NEW MAG	61721.53	OLD MAG	61721.02	N =	1069
FID No. -	7782	NEW MAG	61721.20	OLD MAG	61721.07	N =	1070

POSSIBLE SPIKE AT N = 1048 , FID = 7760 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 1054 , FID = 7766 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 1060 , FID = 7772 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 1066 , FID = 7778 IN THE MAGTS CHANNEL

FID No. -	7760	NEW MAG	61723.64	OLD MAG	61723.26	N =	1048
FID No. -	7761	NEW MAG	61723.64	OLD MAG	61722.85	N =	1049
FID No. -	7762	NEW MAG	61723.64	OLD MAG	61722.43	N =	1050
FID No. -	7763	NEW MAG	61723.64	OLD MAG	61700.96	N =	1051
FID No. -	7764	NEW MAG	61723.64	OLD MAG	41343.08	N =	1052
FID No. -	7765	NEW MAG	61723.64	OLD MAG	22713.88	N =	1053
FID No. -	7766	NEW MAG	61723.64	OLD MAG	21173.57	N =	1054
FID No. -	7767	NEW MAG	61723.31	OLD MAG	21495.12	N =	1055
FID No. -	7768	NEW MAG	61723.31	OLD MAG	21562.33	N =	1056
FID No. -	7769	NEW MAG	61723.31	OLD MAG	21376.87	N =	1057
FID No. -	7770	NEW MAG	61723.31	OLD MAG	21387.68	N =	1058
FID No. -	7771	NEW MAG	61723.31	OLD MAG	21408.70	N =	1059
FID No. -	7772	NEW MAG	61723.31	OLD MAG	21493.38	N =	1060
FID No. -	7773	NEW MAG	61723.31	OLD MAG	21509.13	N =	1061
FID No. -	7774	NEW MAG	61722.98	OLD MAG	21438.37	N =	1062
FID No. -	7775	NEW MAG	61722.98	OLD MAG	21531.70	N =	1063
FID No. -	7776	NEW MAG	61722.98	OLD MAG	22130.71	N =	1064
FID No. -	7777	NEW MAG	61722.98	OLD MAG	25956.32	N =	1065
FID No. -	7778	NEW MAG	61722.65	OLD MAG	45938.27	N =	1066
FID No. -	7779	NEW MAG	61722.65	OLD MAG	61689.02	N =	1067
FID No. -	7780	NEW MAG	61722.65	OLD MAG	61720.78	N =	1068
FID No. -	7781	NEW MAG	61722.32	OLD MAG	61721.02	N =	1069
FID No. -	7782	NEW MAG	61721.99	OLD MAG	61721.07	N =	1070
FID No. -	7783	NEW MAG	61721.99	OLD MAG	61720.91	N =	1071
FID No. -	7784	NEW MAG	61721.66	OLD MAG	61721.04	N =	1072
FID No. -	7785	NEW MAG	61721.33	OLD MAG	61721.16	N =	1073
FID No. -	7786	NEW MAG	61721.33	OLD MAG	61721.12	N =	1074
FID No. -	7787	NEW MAG	61721.33	OLD MAG	61721.26	N =	1075
FID No. -	7788	NEW MAG	61721.33	OLD MAG	61721.41	N =	1076

NOISEY DATA AT N = 27 , FID = 27 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 36 , FID = 36 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 65 , FID = 65 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 79 , FID = 79 IN THE VNS CHANNEL
STEP AT N = 88 , FID = 88 IN THE VNS CHANNEL

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POSSIBLE SPIKE AT N =   107 , FID =   107 IN THE VNS CHANNEL
N=   113        18.41 CHANGED TO       23.06  FID =    113  VNS
NOISEY DATA AT N =   128 , FID =   128 IN THE VNS CHANNEL
STEP  AT N =   129 , FID =   129 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   138 , FID =   138 IN THE VNS CHANNEL
N=   154        23.63 CHANGED TO       19.05  FID =    154  VNS
LINE NO. 12300E - HAS BEEN SCRUBBED -#####

NOISEY DATA AT N =    27 , FID =    27 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =    36 , FID =    36 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =    65 , FID =    65 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =    79 , FID =    79 IN THE VNS CHANNEL
STEP  AT N =    88 , FID =    88 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   107 , FID =   107 IN THE VNS CHANNEL
N=   113        18.41 CHANGED TO       23.06  FID =    113  VNS
NOISEY DATA AT N =   128 , FID =   128 IN THE VNS CHANNEL
STEP  AT N =   129 , FID =   129 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   138 , FID =   138 IN THE VNS CHANNEL
N=   154        23.63 CHANGED TO       19.05  FID =    154  VNS
2052 1 01030 A8  12301E  21:10:04:00:42 21:10:04:03:31  6713  8056  .13 61700
                          MEAN          MIN          MAX          STD.
MAGTS                  61738.34     61706.02     61765.42          .07
RALT                      85.74        50.00       180.00         4.60
TC                      1348.99       643.00      2151.00        57.67
K                        100.60        29.00       199.00        16.70
UR                        37.24        17.00        65.00        11.10
TH                        37.99        14.00        73.00         9.69
COS                       47.07        31.00        62.00        10.10
YAW                       71.91        64.60        77.60          .74
VNS                       19.72        12.52        31.29         2.30
VEW                       67.38        52.70        78.38          .84

POSSIBLE SPIKE AT N =  1047 , FID =  1047 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =  1053 , FID =  1053 IN THE MAGTS CHANNEL
FID No. -   1044  NEW MAG    61723.38  OLD MAG    61723.17  N =  1044
FID No. -   1045  NEW MAG    61723.38  OLD MAG    61723.05  N =  1045
FID No. -   1046  NEW MAG    61723.38  OLD MAG    61722.69  N =  1046
FID No. -   1047  NEW MAG    61723.38  OLD MAG    61722.27  N =  1047
FID No. -   1048  NEW MAG    61723.38  OLD MAG    61721.95  N =  1048
FID No. -   1049  NEW MAG    61723.38  OLD MAG    61721.71  N =  1049
FID No. -   1050  NEW MAG    61723.38  OLD MAG    61630.70  N =  1050
FID No. -   1051  NEW MAG    61723.38  OLD MAG    51926.67  N =  1051
FID No. -   1052  NEW MAG    61723.38  OLD MAG    31302.35  N =  1052
FID No. -   1053  NEW MAG    61723.38  OLD MAG    26568.84  N =  1053
FID No. -   1054  NEW MAG    61723.38  OLD MAG    59091.30  N =  1054
FID No. -   1055  NEW MAG    61723.38  OLD MAG    61721.39  N =  1055
FID No. -   1056  NEW MAG    61723.38  OLD MAG    61721.48  N =  1056
FID No. -   1057  NEW MAG    61723.05  OLD MAG    61721.61  N =  1057
FID No. -   1058  NEW MAG    61723.05  OLD MAG    61721.77  N =  1058
FID No. -   1059  NEW MAG    61722.72  OLD MAG    61721.93  N =  1059
FID No. -   1060  NEW MAG    61722.72  OLD MAG    61722.16  N =  1060
FID No. -   1061  NEW MAG    61722.72  OLD MAG    61722.28  N =  1061
FID No. -   1062  NEW MAG    61722.72  OLD MAG    61722.33  N =  1062
FID No. -   1063  NEW MAG    61722.39  OLD MAG    61722.19  N =  1063
POSSIBLE SPIKE AT N =    48 , FID =    48 IN THE VNS CHANNEL
2052 1 01031 A8  12290E  21:10:04:07:41 21:10:04:10:35     1  1384  .13 61700
                          MEAN          MIN          MAX          STD.
MAGTS                  61736.96     61705.94     61763.72          .11
RALT                      88.13        52.00       179.00         4.33
TC                      1384.53       661.00      2386.00        62.40
K                        102.84        34.00       216.00        17.15
UR                        38.47        19.00        67.00         8.46
TH                        40.03         8.00        81.00        10.46
COS                       46.83        31.00        62.00        11.88
YAW                       71.79        65.70        77.20          .64
VNS                       19.02        14.14        27.47         1.98
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VEW	65.11	52.23	74.40	.72

STEP AT N = 164 , FID = 164 IN THE RALT CHANNEL

2052 5 02070 A8 20020E 26:10:04:14:47 26:10:04:27:15 1 5984 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61887.45	61638.65	63487.85	.07
RALT	79.52	44.00	152.00	4.08
TC	1212.89	339.00	2224.00	58.55
K	80.25	13.00	163.00	16.25
UR	35.32	6.00	85.00	9.98
TH	39.77	5.00	87.00	9.77
COS	44.82	29.00	64.00	10.28
YAW	45.78	33.30	67.20	.67
VNS	44.78	23.27	65.48	1.85
VEW	47.53	32.14	62.80	1.66

2052 5 02071 A8 20021E 26:10:04:31:20 26:10:04:45:54 1 6992 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61811.55	61644.64	62171.28	.06
RALT	72.83	48.00	102.00	2.07
TC	1383.56	575.00	4111.00	65.62
K	91.28	23.00	342.00	17.08
UR	40.10	14.00	110.00	9.99
TH	43.45	14.00	123.00	10.23
COS	43.87	23.00	66.00	10.38
YAW	61.55	53.20	68.80	.58
VNS	29.03	19.37	36.47	1.86
VEW	52.73	41.95	63.91	.97

2052 5 02072 A8 C26090E 26:10:04:49:14 26:10:04:50:57 1 824 .13 61700
POST-FLIGHT HIGH LEVEL BACKGROUND

	MEAN	MIN	MAX	STD.
TC	359.67	324.00	424.00	30.91
K	25.87	17.00	42.00	8.44
UR	13.71	3.00	23.00	4.47
TH	9.92	4.00	19.00	4.53
COS	42.46	29.00	57.00	7.64

2052 5 02073 A8 C26080E 26:10:04:54:00 26:10:04:55:47 825 1680 .13 61700
POST-FLIGHT TEST LINE

	MEAN	MIN	MAX	STD.
MAGTS	61613.23	61502.57	61687.27	.07
RALT	56.90	51.00	61.00	.82
TC	896.17	730.00	1047.00	45.78
K	82.30	55.00	108.00	10.88
UR	21.88	12.00	33.00	5.72
TH	20.21	11.00	31.00	6.38
COS	43.03	22.00	61.00	9.29
YAW	76.03	69.80	83.50	.55
VNS	14.14	5.37	22.05	2.03
VEW	58.94	56.15	61.48	.78

2052 5 02074 A8 C26010E 26:10:06:02:43 26:10:06:04:48 1 1000 .13 61700
POST-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2587.29	2449.00	2756.00	76.72
K	251.31	211.00	287.00	22.07
UR	61.74	45.00	88.00	11.84
TH	69.52	52.00	88.00	12.91
COS	44.72	24.00	68.00	12.34

2052 5 02075 A8 C26020E 26:10:06:05:34 26:10:06:07:39 1001 2000 .13 61700
POST-FLIGHT URANIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	9198.00	8954.00	9412.00	151.51
K	562.71	489.00	615.00	31.70
UR	433.33	378.00	489.00	24.35
TH	92.69	65.00	117.00	15.46
COS	49.09	35.00	68.00	10.77

2052 5 02076 A8 C26030E 26:10:06:08:26 26:10:06:10:31 2001 3000 .13 61700
POST-FLIGHT THORIUM SAMPLE

TC	11292.90	10901.00	11501.00	155.91
K	514.05	450.00	572.00	43.88
UR	223.06	179.00	261.00	23.54
TH	686.22	618.00	751.00	36.49
COS	83.93	61.00	108.00	13.59

2052 5 02077 A8 C26040E 26:10:06:11:08 26:10:06: 1 3001 3504 .13 61700
POST-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2573.73	2432.00	2733.00	100.09
K	252.71	212.00	292.00	21.20
UR	62.94	46.00	81.00	8.36
TH	69.13	48.00	87.00	11.06
COS	43.51	32.00	59.00	10.33

2052 6 02078 A8 C25010E 26:10:21:07:17 26:10:21:08:57 1 800 .13 61700
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2594.23	2469.00	2744.00	80.42
K	254.64	209.00	297.00	19.61
UR	62.65	41.00	85.00	12.59
TH	67.70	47.00	92.00	14.28
COS	45.27	31.00	66.00	11.03

2052 6 02079 A8 C25020E 26:10:21:09:34 26:10:21:11:14 801 1600 .13 61700
PRE-FLIGHT URANIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	9215.67	8945.00	9397.00	130.14
K	563.13	493.00	632.00	38.92
UR	438.81	385.00	528.00	31.26
TH	91.12	69.00	109.00	15.00
COS	48.06	36.00	74.00	10.83

2052 6 02080 A8 C25030E 26:10:21:11:48 26:10:21:13:28 1601 2400 .13 61700
PRE-FLIGHT THORIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	11133.49	10817.00	11391.00	171.15
K	510.63	446.00	568.00	40.66
UR	223.51	191.00	264.00	27.35
TH	676.83	609.00	734.00	48.94
COS	82.71	55.00	113.00	12.31

2052 6 02081 A8 C25040E 26:10:21:13:57 26:10:21:14:47 2401 2800 .13 61700
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2595.34	2474.00	2790.00	100.13
K	251.26	192.00	301.00	31.90
UR	60.56	46.00	76.00	12.64
TH	69.56	51.00	87.00	9.89
COS	46.30	31.00	62.00	9.70

MAGTS MEAN ST-DEV IS 24.0714229529
MAGTS MEAN IS 61693.2630926
RALT MEAN IS 88.3742176621

COMMENTS:JOB 2052 AREA #1 LAUNCESTON TAS
4.11.1987

****** SPIKE - FINDING & DIURNAL INTERPOLATION *******

NO DIURNAL INTERPOLATION TO BE DONE

DIURNAL	: NOISE LEVEL	2	MINIMUM VALUE	0
MAGTS	: NOISE LEVEL	2	MINIMUM VALUE	40000
MAGLS	: NOISE LEVEL	2	MINIMUM VALUE	40000
MAGRS	: NOISE LEVEL	2	MINIMUM VALUE	40000
RALT	: NOISE LEVEL	20	MINIMUM VALUE	10
BALT	: NOISE LEVEL	5	MINIMUM VALUE	500
TC	: NOISE LEVEL	500	MINIMUM VALUE	10
K	: NOISE LEVEL	100	MINIMUM VALUE	0
UR	: NOISE LEVEL	100	MINIMUM VALUE	0
TH	: NOISE LEVEL	100	MINIMUM VALUE	0
COS	: NOISE LEVEL	50	MINIMUM VALUE	0
PITCH	: NOISE LEVEL	10	MINIMUM VALUE	-20
ROLL	: NOISE LEVEL	10	MINIMUM VALUE	-20
YAW	: NOISE LEVEL	10	MINIMUM VALUE	-20
VNS	: NOISE LEVEL	3	MINIMUM VALUE	-90
VEW	: NOISE LEVEL	3	MINIMUM VALUE	-90
BDG	: NOISE LEVEL	-1	MINIMUM VALUE	-1
EAST	: NOISE LEVEL	-1	MINIMUM VALUE	100000
NORTH	: NOISE LEVEL	-1	MINIMUM VALUE	5000000
R1	: NOISE LEVEL	50	MINIMUM VALUE	50
R2	: NOISE LEVEL	50	MINIMUM VALUE	50
R3	: NOISE LEVEL	50	MINIMUM VALUE	50
BDS	: NOISE LEVEL	-1	MINIMUM VALUE	-1
FLUXL	: NOISE LEVEL	-1	MINIMUM VALUE	-60000
FLUXT	: NOISE LEVEL	-1	MINIMUM VALUE	-60000
FLUXV	: NOISE LEVEL	-1	MINIMUM VALUE	-60000

POSSIBLE SPIKE AT N = 6 , FID = 6 IN THE VNS CHANNEL
STEP AT N = 22 , FID = 22 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 38 , FID = 38 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 48 , FID = 48 IN THE VNS CHANNEL
STEP AT N = 78 , FID = 78 IN THE VNS CHANNEL
NOISEY DATA AT N = 156 , FID = 156 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 164 , FID = 164 IN THE VNS CHANNEL
2052 1 01031 A8 12290E 21:10:04:07:41 21:10:04:10:35 1 1384 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61736.96	61705.94	61763.72	.11
RALT	88.13	52.00	179.00	4.33
TC	1384.53	661.00	2386.00	62.40
K	102.84	34.00	216.00	17.15
UR	38.47	19.00	67.00	8.46
TH	40.03	8.00	81.00	10.46
COS	46.83	31.00	62.00	11.88
YAW	71.79	65.70	77.20	.64
VNS	19.02	14.14	27.47	1.98
VEW	65.11	52.23	74.40	.72

POSSIBLE SPIKE AT N = 211 , FID = 1595 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 217 , FID = 1601 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 223 , FID = 1607 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 743 , FID = 2127 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 749 , FID = 2133 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 755 , FID = 2139 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 761 , FID = 2145 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 767 , FID = 2151 IN THE MAGTS CHANNEL

FID No. -	1595	NEW MAG	61756.46	OLD MAG	61755.86	N =	211
FID No. -	1596	NEW MAG	61756.46	OLD MAG	61755.62	N =	212
FID No. -	1597	NEW MAG	61756.46	OLD MAG	61755.42	N =	213
FID No. -	1598	NEW MAG	61756.46	OLD MAG	61755.29	N =	214
FID No. -	1599	NEW MAG	61756.46	OLD MAG	61258.99	N =	215
FID No. -	1600	NEW MAG	61756.46	OLD MAG	36065.39	N =	216

FID No. -	1601	NEW MAG	61756.46	OLD MAG	22148.21	N =	217
FID No. -	1602	NEW MAG	61756.46	OLD MAG	21572.46	N =	218
FID No. -	1603	NEW MAG	61756.46	OLD MAG	21793.14	N =	219
FID No. -	1604	NEW MAG	61756.46	OLD MAG	21949.13	N =	220
FID No. -	1605	NEW MAG	61756.46	OLD MAG	23418.24	N =	221
FID No. -	1606	NEW MAG	61756.46	OLD MAG	49631.83	N =	222
FID No. -	1607	NEW MAG	61756.13	OLD MAG	61754.51	N =	223
FID No. -	1608	NEW MAG	61756.13	OLD MAG	61754.87	N =	224
FID No. -	1609	NEW MAG	61756.13	OLD MAG	61755.18	N =	225
FID No. -	1610	NEW MAG	61755.80	OLD MAG	61755.58	N =	226
FID No. -	1611	NEW MAG	61755.80	OLD MAG	61755.84	N =	227
FID No. -	2127	NEW MAG	61731.63	OLD MAG	61731.59	N =	743
FID No. -	2128	NEW MAG	61731.63	OLD MAG	61731.24	N =	744
FID No. -	2129	NEW MAG	61731.63	OLD MAG	61730.76	N =	745
FID No. -	2130	NEW MAG	61731.63	OLD MAG	61605.03	N =	746
FID No. -	2131	NEW MAG	61731.63	OLD MAG	32776.11	N =	747
FID No. -	2132	NEW MAG	61731.30	OLD MAG	21277.37	N =	748
FID No. -	2133	NEW MAG	61731.30	OLD MAG	21218.22	N =	749
FID No. -	2134	NEW MAG	61731.30	OLD MAG	21172.66	N =	750
FID No. -	2135	NEW MAG	61731.30	OLD MAG	21317.57	N =	751
FID No. -	2136	NEW MAG	61731.30	OLD MAG	21225.81	N =	752
FID No. -	2137	NEW MAG	61730.97	OLD MAG	21603.93	N =	753
FID No. -	2138	NEW MAG	61730.97	OLD MAG	21462.36	N =	754
FID No. -	2139	NEW MAG	61730.97	OLD MAG	21495.67	N =	755
FID No. -	2140	NEW MAG	61730.97	OLD MAG	21735.82	N =	756
FID No. -	2141	NEW MAG	61730.97	OLD MAG	21559.04	N =	757
FID No. -	2142	NEW MAG	61730.97	OLD MAG	21448.87	N =	758
FID No. -	2143	NEW MAG	61730.97	OLD MAG	21210.33	N =	759
FID No. -	2144	NEW MAG	61730.97	OLD MAG	21447.55	N =	760
FID No. -	2145	NEW MAG	61730.97	OLD MAG	21476.01	N =	761
FID No. -	2146	NEW MAG	61730.97	OLD MAG	21487.01	N =	762
FID No. -	2147	NEW MAG	61730.97	OLD MAG	21299.41	N =	763
FID No. -	2148	NEW MAG	61730.97	OLD MAG	36870.13	N =	764
FID No. -	2149	NEW MAG	61730.97	OLD MAG	60810.30	N =	765
FID No. -	2150	NEW MAG	61730.97	OLD MAG	61729.86	N =	766
FID No. -	2151	NEW MAG	61730.97	OLD MAG	61730.31	N =	767
FID No. -	2152	NEW MAG	61730.97	OLD MAG	61730.74	N =	768
FID No. -	2153	NEW MAG	61730.97	OLD MAG	61730.80	N =	769
FID No. -	2154	NEW MAG	61730.97	OLD MAG	61731.05	N =	770

2052 1 01032 A8 12280E 21:10:04:14:54 21:10:04:17:48 1385 2776 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61735.45	61705.60	61763.42	.06
RALT	90.25	53.00	171.00	4.50
TC	1379.97	671.00	2601.00	83.73
K	101.56	30.00	258.00	21.47
UR	38.57	19.00	64.00	7.94
TH	40.40	12.00	88.00	10.68
COS	46.89	31.00	76.00	11.74
YAW	71.89	59.60	75.80	.74
VNS	18.44	12.74	27.39	2.15
VEW	64.73	47.47	74.89	.72

STEP AT N = 125 , FID = 125 IN THE RALT CHANNEL

2052 1 01033 A8 12270E 21:10:04:22:14 21:10:04:25:14 2777 4216 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61736.13	61703.99	61772.21	.06
RALT	90.42	48.00	170.00	4.00
TC	1346.11	689.00	2577.00	59.00
K	97.10	32.00	222.00	18.60
UR	37.12	16.00	63.00	8.92
TH	39.51	11.00	87.00	10.39
COS	47.62	30.00	64.00	8.83
YAW	72.63	67.50	78.30	.51

VNS	17.66	10.82	31.53	2.20
VEW	65.78	52.99	75.49	.72

2052 1 01034 A8 11010E 21:10:04:32:21 21:10:04:34:22 1 968 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61656.66	61646.99	61665.16	.06
RALT	61.83	47.00	73.00	1.79
TC	1001.03	347.00	2237.00	55.86
K	93.30	20.00	205.00	13.14
UR	25.53	9.00	55.00	8.03
TH	24.47	7.00	73.00	7.68
COS	43.51	30.00	65.00	10.13
YAW	68.86	63.20	72.20	.52
VNS	21.02	16.91	34.03	1.87
VEW	64.73	59.31	67.85	.90

2052 1 01035 A8 11020E 21:10:04:37:34 21:10:04:39:36 969 1944 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61661.65	61650.82	61669.57	.06
RALT	60.93	51.00	71.00	1.00
TC	1027.64	343.00	2396.00	55.67
K	93.66	20.00	203.00	21.72
UR	25.84	7.00	58.00	7.59
TH	25.30	5.00	75.00	8.72
COS	43.30	28.00	60.00	10.60
YAW	70.30	67.90	74.00	.40
VNS	17.99	14.24	25.11	1.83
VEW	61.08	58.00	64.49	.62

2052 1 01036 A8 11030E 21:10:04:42:56 21:10:04:45:03 1945 2960 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61663.37	61652.09	61672.90	.06
RALT	58.43	51.00	73.00	.97
TC	1028.01	376.00	2339.00	57.31
K	91.98	22.00	196.00	11.97
UR	25.41	6.00	68.00	9.46
TH	25.69	6.00	79.00	8.05
COS	42.95	27.00	56.00	8.62
YAW	70.96	67.90	76.40	.44
VNS	16.83	11.81	21.45	1.62
VEW	61.67	59.12	64.89	.50

2052 1 01037 A8 11040E 21:10:04:48:39 21:10:04:50:45 2961 3968 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61663.98	61652.88	61674.01	.07
RALT	59.04	48.00	72.00	1.48
TC	1038.25	364.00	2518.00	57.56
K	96.19	18.00	205.00	16.63
UR	25.52	8.00	64.00	7.92
TH	25.58	8.00	89.00	8.74
COS	43.61	25.00	64.00	9.40
YAW	70.62	66.50	76.90	.50
VNS	17.47	9.57	23.22	1.72
VEW	62.80	59.96	65.87	.81

2052 1 01038 A8 11050E 21:10:04:55:02 21:10:04:57:09 3969 4984 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61665.01	61653.01	61675.33	.07
RALT	61.08	48.00	70.00	1.61
TC	1030.32	372.00	2385.00	64.96
K	97.13	24.00	219.00	16.48
UR	24.41	10.00	61.00	8.81
TH	23.37	7.00	70.00	6.35
COS	44.13	29.00	62.00	11.74
YAW	70.86	67.10	79.40	.53
VNS	16.67	4.78	23.22	2.01

VEW	61.34	55.74	65.21	.75

POSSIBLE SPIKE AT N = 6 , FID = 6 IN THE VNS CHANNEL

2052 1 01038 A8 11050E 21:10:04:55:02 21:10:04:57:09 3969 4984 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61665.01	61653.01	61675.33	.07
RALT	61.00	48.00	70.00	1.61
TC	1030.32	372.00	2385.00	64.96
K	97.13	24.00	219.00	16.48
UR	24.41	10.00	61.00	8.81
TH	23.37	7.00	70.00	6.35
COS	44.13	29.00	62.00	11.74
YAW	70.86	67.10	79.40	.53
VNS	16.67	4.78	23.22	2.01
VEW	61.34	55.74	65.21	.75

2052 1 01039 A8 11060E 21:10:05:00:56 21:10:05:03:03 4985 6000 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61667.70	61656.94	61678.80	.06
RALT	57.59	52.00	73.00	1.24
TC	1033.01	382.00	2474.00	52.19
K	100.16	22.00	224.00	14.40
UR	24.19	12.00	64.00	9.26
TH	23.06	8.00	82.00	7.61
COS	43.35	27.00	62.00	9.19
YAW	70.32	66.00	73.20	.58
VNS	17.23	12.69	23.34	1.43
VEW	61.11	58.54	63.85	.53

2052 1 01040 A8 C16080E 21:10:05:05:15 21:10:05:06:59 6001 6832 .13 61700
POST-FLIGHT TEST LINE

	MEAN	MIN	MAX	STD.
MAGTS	61609.14	61490.83	61689.14	.06
RALT	58.55	48.00	65.00	.88
TC	886.99	739.00	1023.00	49.07
K	81.46	55.00	113.00	16.75
UR	22.13	12.00	45.00	7.09
TH	19.86	8.00	34.00	7.41
COS	43.49	24.00	59.00	9.91
YAW	71.39	64.30	79.30	.67
VNS	15.35	6.21	23.59	1.61
VEW	60.41	56.88	63.10	.56

2052 1 01041 A8 C16090E 21:10:05:07:33 21:10:05:09:09 6833 7600 .13 61700
POST-FLIGHT HIGH LEVEL BACKGROUND

	MEAN	MIN	MAX	STD.
TC	372.05	316.00	427.00	30.10
K	25.58	11.00	44.00	6.62
UR	14.90	8.00	28.00	6.33
TH	10.55	3.00	20.00	5.36
COS	45.58	30.00	61.00	11.32

2052 1 01042 A8 C16010E 21:10:06:14:49 21:10:06:16:54 1 1000 .13 61700
POST-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2653.50	2524.00	2760.00	81.41
K	265.60	216.00	299.00	22.64
UR	64.09	45.00	85.00	13.54
TH	71.25	44.00	94.00	16.23
COS	45.72	30.00	69.00	10.36

2052 1 01043 A8 C16020E 21:10:06:17:24 21:10:06:19:29 1001 2000 .13 61700
POST-FLIGHT URANIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	9206.34	8888.00	9482.00	191.07
K	565.70	505.00	620.00	34.67

UR	443.20	367.00	510.00	40.12
TH	93.21	71.00	132.00	18.59
COS	50.95	26.00	74.00	14.12

2052 1 01044 A8 C16030E 21:10:06:19:59 21:10:06:22:04 2001 3000 .13 61700
POST-FLIGHT THORIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	11214.05	10970.00	11584.00	152.48
K	518.01	464.00	563.00	35.54
UR	225.51	186.00	267.00	23.36
TH	685.81	612.00	741.00	37.54
COS	86.22	63.00	112.00	11.67

2052 1 01045 A8 C16040E 21:10:06:22:31 21:10:06:23:21 3001 3400 .13 61700
POST-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2641.96	2464.00	2797.00	116.63
K	263.78	237.00	296.00	21.55
UR	62.24	50.00	75.00	9.83
TH	71.00	56.00	85.00	12.03
COS	48.06	29.00	68.00	15.67

2052 1 01046 A8 C15010E 21:10:21:24:41 21:10:21:24:47 1 48 .13 61700
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.

2052 1 01047 A8 C15011E 21:10:21:25:26 21:10:21:27:19 1 904 .13 61700
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2630.45	2507.00	2737.00	89.97
K	265.52	227.00	308.00	21.75
UR	61.72	43.00	84.00	13.03
TH	70.72	50.00	90.00	12.10
COS	45.66	29.00	67.00	11.34

2052 1 01048 A8 C15020E 21:10:21:28:11 21:10:21:29:38 905 1600 .13 61700
PRE-FLIGHT URANIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	9169.23	8940.00	9497.00	160.78
K	566.67	507.00	619.00	42.41
UR	439.45	387.00	481.00	35.31
TH	93.21	74.00	113.00	15.11
COS	49.61	23.00	69.00	10.45

2052 1 01049 A8 C15030E 21:10:21:30:37 21:10:21:32:17 1601 2400 .13 61700
PRE-FLIGHT THORIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	11212.99	10908.00	11559.00	157.73
K	520.35	466.00	581.00	39.27
UR	226.49	192.00	263.00	32.44
TH	687.44	629.00	759.00	45.89
COS	84.98	58.00	106.00	14.84

2052 1 01050 A8 C15040E 21:10:21:32:45 21:10:21:33:44 2401 2872 .13 61700
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2643.78	2526.00	2805.00	95.19
K	266.29	231.00	303.00	20.66
UR	63.22	46.00	85.00	12.32
TH	72.49	54.00	90.00	11.49
COS	47.49	35.00	61.00	10.18

LINE NO. 19000E - HAS BEEN SCRUBBED -#####

2052 2 01052 A8 C15090E 21:10:22:31:42 21:10:22:33:30 3137 4000 .13 61700
PRE-FLIGHT HIGH LEVEL BACKGROUND

	MEAN	MIN	MAX	STD.
TC	403.59	348.00	448.00	30.82
K	26.94	12.00	39.00	6.44
UR	15.65	7.00	30.00	6.22
TH	12.44	5.00	21.00	5.78
COS	59.14	40.00	84.00	10.34

POSSIBLE SPIKE AT N = 64 , FID = 64 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 70 , FID = 70 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 64 , FID = 64 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 70 , FID = 70 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 66 , FID = 66 IN THE VEW CHANNEL
2052 2 01053 A8 C15080E 21:10:22:35:38 21:10:22:37:16 4001 4784 .13 61700
PRE-FLIGHT TEST LINE

	MEAN	MIN	MAX	STD.
MAGTS	61595.50	61478.19	61682.23	.06
RALT	59.23	53.00	65.00	1.68
TC	904.05	748.00	1104.00	44.09
K	80.87	51.00	118.00	15.11
UR	23.58	11.00	39.00	8.62
TH	19.43	7.00	33.00	8.43
COS	43.67	27.00	62.00	10.42
YAW	76.19	70.00	86.10	.45
VNS	5.54	-212.89	23.73	12.52
VEW	47.20	.80	140.02	6.60

LINE NO. 12260E - HAS BEEN SCRUBBED -#####

POSSIBLE SPIKE AT N = 54 , FID = 1062 IN THE MAGTS CHANNEL
FID No. - 1059 NEW MAG 61750.97 OLD MAG 61750.72 N = 51
FID No. - 1060 NEW MAG 61750.64 OLD MAG 61750.54 N = 52
FID No. - 1061 NEW MAG 61750.64 OLD MAG 61750.33 N = 53
FID No. - 1062 NEW MAG 61750.31 OLD MAG 61737.99 N = 54
FID No. - 1063 NEW MAG 61750.31 OLD MAG 61713.58 N = 55
FID No. - 1064 NEW MAG 61749.98 OLD MAG 61742.14 N = 56
FID No. - 1065 NEW MAG 61749.98 OLD MAG 61749.63 N = 57
NOISEY DATA AT N = 52 , FID = 52 IN THE RALT CHANNEL
POSSIBLE SPIKE AT N = 66 , FID = 66 IN THE RALT CHANNEL
2052 2 01055 A8 12261E 21:10:22:51:24 21:10:22:54:21 1009 2424 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61722.67	61695.20	61758.20	.07
RALT	99.64	53.00	189.00	4.80
TC	1338.28	740.00	2363.00	57.40
K	94.93	35.00	200.00	16.45
UR	37.41	15.00	68.00	9.65
TH	38.50	12.00	85.00	9.19
COS	46.81	27.00	63.00	10.96
YAW	75.55	71.20	79.70	.58
VNS	17.21	10.10	24.48	2.40
VEW	63.97	49.92	76.68	.63

POSSIBLE SPIKE AT N = 18 , FID = 2442 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 24 , FID = 2448 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 30 , FID = 2454 IN THE MAGTS CHANNEL
FID No. - 2443 NEW MAG 61752.50 OLD MAG 61752.23 N = 19
FID No. - 2444 NEW MAG 61752.50 OLD MAG 61751.94 N = 20
FID No. - 2445 NEW MAG 61752.50 OLD MAG 61751.66 N = 21
FID No. - 2446 NEW MAG 61752.50 OLD MAG 57881.38 N = 22
FID No. - 2447 NEW MAG 61752.50 OLD MAG 32784.79 N = 23
FID No. - 2448 NEW MAG 61752.50 OLD MAG 22094.83 N = 24
FID No. - 2449 NEW MAG 61752.50 OLD MAG 22626.70 N = 25
FID No. - 2450 NEW MAG 61752.50 OLD MAG 22843.67 N = 26
FID No. - 2451 NEW MAG 61752.17 OLD MAG 24017.59 N = 27
FID No. - 2452 NEW MAG 61752.17 OLD MAG 45424.50 N = 28
FID No. - 2453 NEW MAG 61751.84 OLD MAG 61750.64 N = 29
FID No. - 2454 NEW MAG 61751.84 OLD MAG 61750.72 N = 30

FID No. - 2455 NEW MAG 61751.84 OLD MAG 61750.81 N = 31
FID No. - 2456 NEW MAG 61751.51 OLD MAG 61750.87 N = 32
FID No. - 2457 NEW MAG 61751.51 OLD MAG 61750.98 N = 33
FID No. - 2458 NEW MAG 61751.18 OLD MAG 61751.11 N = 34
POSSIBLE SPIKE AT N = 100 , FID = 100 IN THE RALT CHANNEL

2052 2 01056 A8 12250E 21:10:22:58:44 21:10:23:01:42 2425 3848 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61722.56	61694.84	61756.97	.06
RALT	87.38	52.00	151.00	3.40
TC	1446.46	757.00	2593.00	66.41
K	102.48	31.00	219.00	18.78
UR	41.07	18.00	78.00	9.58
TH	41.05	12.00	85.00	10.06
COS	46.39	32.00	61.00	10.60
YAW	75.66	68.50	79.30	.48
VNS	.40	-2.82	3.75	4.10
VEW	2.08	.68	3.31	1.16

2052 2 01057 A8 12240E 21:10:23:06:34 21:10:23:09:28 3849 5240 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61722.14	61693.14	61759.22	.06
RALT	90.15	44.00	152.00	4.32
TC	1462.80	692.00	2693.00	70.28
K	104.95	31.00	214.00	15.38
UR	40.97	18.00	71.00	13.32
TH	41.00	12.00	101.00	10.53
COS	45.89	28.00	64.00	8.15
YAW	74.74	67.70	78.70	.39
VNS	.25	-2.79	3.75	3.63
VEW	2.09	.71	3.23	1.11

2052 2 01058 A8 12230E 21:10:23:13:54 21:10:23:16:48 5241 6632 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61721.81	61694.25	61755.25	.06
RALT	81.39	46.00	131.00	4.24
TC	1545.47	686.00	3091.00	69.82
K	112.47	35.00	285.00	19.45
UR	43.17	21.00	85.00	12.00
TH	42.89	11.00	101.00	10.60
COS	45.64	28.00	67.00	11.53
YAW	75.20	68.10	80.00	.61
VNS	18.07	9.96	28.72	2.08
VEW	63.89	48.64	75.31	.96

2052 2 01059 A8 12220E 21:10:23:21:05 21:10:23:24:03 6633 8056 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61722.01	61694.15	61754.54	.06
RALT	75.52	48.00	111.00	4.05
TC	1602.89	728.00	3212.00	70.14
K	117.90	31.00	302.00	17.98
UR	45.11	21.00	75.00	10.76
TH	44.63	14.00	98.00	10.75
COS	46.17	31.00	68.00	9.66
YAW	74.92	66.30	82.20	.70
VNS	17.88	8.27	30.06	2.25
VEW	63.37	47.20	74.57	.86

2052 2 01060 A8 12210E 21:10:23:28:48 21:10:23:31:41 1 1384 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61722.38	61694.18	61754.55	.06
RALT	78.46	48.00	118.00	4.26
TC	1586.11	736.00	3268.00	76.46
K	113.38	33.00	287.00	17.18
UR	44.98	16.00	84.00	9.02
TH	44.21	14.00	94.00	9.43
COS	45.75	31.00	63.00	8.85

YAW	76.03	69.70	84.00	.55
VNS	17.56	4.30	23.72	2.43
VEW	65.18	50.18	74.60	.84

2052 2 01061 A8 12200E 21:10:23:36:32 21:10:23:39:30 1385 2808 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61723.52	61693.45	61755.22	.06
RALT	74.01	51.00	106.00	3.75
TC	1602.33	746.00	3522.00	78.86
K	114.35	33.00	279.00	24.52
UR	46.47	21.00	106.00	10.62
TH	45.06	16.00	117.00	10.37
COS	45.54	31.00	73.00	9.25
YAW	75.98	69.10	83.20	.61
VNS	17.56	7.51	25.44	2.17
VEW	65.06	48.92	74.50	.94

2052 2 01062 A8 12190E 21:10:23:44:33 21:10:23:47:29 2809 4216 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61721.70	61692.99	61752.96	.06
RALT	71.93	47.00	119.00	3.52
TC	1631.84	769.00	3271.00	80.46
K	116.92	33.00	248.00	17.64
UR	45.89	21.00	92.00	12.15
TH	45.05	15.00	97.00	11.42
COS	45.63	29.00	68.00	11.01
YAW	75.68	70.00	81.40	.68
VNS	17.04	8.93	23.30	2.01
VEW	64.34	48.64	72.77	.64

2052 2 01063 A8 12180E 21:10:23:52:15 21:10:23:55:10 4217 5616 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61721.56	61694.45	61751.41	.07
RALT	69.98	48.00	117.00	3.87
TC	1600.69	744.00	3482.00	92.24
K	114.99	30.00	288.00	19.16
UR	46.22	20.00	103.00	11.61
TH	44.31	10.00	111.00	10.95
COS	46.18	31.00	63.00	10.92
YAW	75.75	70.40	83.20	.52
VNS	17.06	6.92	25.80	1.89
VEW	65.63	51.38	75.58	.63

2052 2 01064 A8 12170E 21:10:23:59:54 22:10:00:02:45 5617 6984 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61721.12	61692.91	61750.81	.07
RALT	73.48	48.00	116.00	3.07
TC	1560.88	731.00	3260.00	74.42
K	108.68	30.00	224.00	18.09
UR	45.07	16.00	102.00	11.75
TH	43.99	12.00	108.00	10.39
COS	45.94	24.00	61.00	10.79
YAW	76.38	70.30	86.20	.63
VNS	16.43	5.89	28.67	2.45
VEW	65.33	50.30	76.06	.94

2052 2 01065 A8 12160E 22:10:00:07:42 22:10:00:10:37 6985 8384 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61721.18	61691.80	61751.00	.06
RALT	74.51	51.00	139.00	4.50
TC	1534.89	726.00	3324.00	74.76
K	109.37	35.00	247.00	19.17
UR	45.08	25.00	100.00	10.30
TH	42.25	14.00	120.00	11.91
COS	45.26	24.00	65.00	12.31
YAW	75.08	63.80	79.60	.85

VNS	17.79	12.53	24.67	1.84
VEW	64.59	46.52	74.83	.81

2052 2 01066 A8 12161E 22:10:00:12:48 22:10:00:13:19 1 248 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61697.09	61693.68	61700.79	.07
RALT	121.52	67.00	162.00	1.97
TC	1500.32	901.00	2074.00	73.01
K	100.13	42.00	169.00	20.47
UR	44.58	30.00	66.00	5.73
TH	46.42	20.00	74.00	7.38
COS	49.06	37.00	60.00	11.33
YAW	79.27	74.20	86.30	.58
VNS	15.01	5.92	23.21	1.98
VEW	67.28	58.86	81.27	.87

2052 2 01067 A8 12150E 22:10:00:18:32 22:10:00:21:24 249 1624 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61722.76	61695.38	61752.94	.07
RALT	72.05	51.00	139.00	4.66
TC	1479.90	720.00	3436.00	78.31
K	100.65	35.00	221.00	14.89
UR	43.62	20.00	110.00	12.68
TH	41.95	15.00	96.00	9.47
COS	45.48	27.00	74.00	11.89
YAW	76.09	70.70	86.20	.60
VNS	17.15	5.65	22.35	2.07
VEW	65.72	49.75	79.22	.82

2052 2 01068 A8 12140E 22:10:00:26:24 22:10:00:29:18 1625 3016 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61723.16	61695.23	61753.45	.07
RALT	70.78	53.00	108.00	4.11
TC	1510.43	723.00	3194.00	68.55
K	106.02	29.00	238.00	15.84
UR	44.39	22.00	95.00	7.65
TH	41.73	10.00	93.00	11.95
COS	46.42	28.00	64.00	9.02
YAW	75.73	71.80	79.40	.48
VNS	17.61	10.35	24.98	2.19
VEW	66.83	51.21	75.91	.89

POSSIBLE SPIKE AT N = 83 , FID = 83 IN THE RALT CHANNEL

2052 2 01069 A8 12130E 22:10:00:34:25 22:10:00:37:22 3017 4432 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61722.88	61696.37	61752.42	.07
RALT	67.95	52.00	110.00	3.40
TC	1541.45	765.00	3423.00	71.20
K	108.64	36.00	335.00	17.25
UR	45.18	21.00	104.00	10.45
TH	42.10	15.00	107.00	11.17
COS	46.85	30.00	71.00	11.17
YAW	75.60	70.20	81.60	.52
VNS	17.12	10.32	22.85	1.91
VEW	64.66	50.19	72.27	.80

2052 2 01070 A8 12120E 22:10:00:42:29 22:10:00:45:25 4433 5840 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61722.96	61696.22	61750.99	.07
RALT	69.67	50.00	120.00	4.01
TC	1605.12	795.00	3455.00	84.06
K	112.35	39.00	290.00	16.24
UR	46.69	24.00	111.00	10.03
TH	45.16	12.00	103.00	11.55
COS	46.56	30.00	66.00	12.36
YAW	76.01	72.40	83.30	.48

VNS	16.24	9.39	21.95	2.31
VEW	64.50	50.72	71.00	.97

2052 2 01071 A8 12110E 22:10:00:50:20 22:10:00:52:39 5841 6944 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61727.11	61703.88	61746.87	.06
RALT	65.06	54.00	83.00	3.08
TC	1618.99	830.00	3677.00	58.03
K	116.38	39.00	285.00	20.71
UR	46.43	22.00	121.00	11.06
TH	44.33	17.00	121.00	8.94
COS	46.20	30.00	64.00	10.24
YAW	75.21	71.90	79.90	.41
VNS	17.41	12.37	22.49	2.08
VEW	65.55	59.05	70.35	.82

2052 2 01072 A8 12111E 22:10:00:55:53 22:10:00:56:54 1 488 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61703.54	61695.32	61713.66	.06
RALT	78.80	58.00	121.00	2.47
TC	1722.77	1193.00	2107.00	76.02
K	116.48	69.00	213.00	15.45
UR	48.77	31.00	72.00	8.23
TH	52.00	26.00	83.00	12.63
COS	47.82	34.00	66.00	8.61
YAW	77.46	74.90	80.30	.60
VNS	16.45	11.26	22.60	1.71
VEW	65.19	54.57	72.21	.74

2052 2 01073 A8 12100E 22:10:01:02:02 22:10:01:04:59 489 1904 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61720.62	61693.77	61748.01	.07
RALT	69.97	47.00	132.00	3.15
TC	1662.71	791.00	3696.00	56.00
K	117.85	35.00	316.00	19.55
UR	48.28	22.00	114.00	13.08
TH	46.82	15.00	109.00	13.11
COS	46.18	29.00	69.00	11.14
YAW	74.27	66.90	79.50	.65
VNS	17.22	10.72	24.27	2.27
VEW	63.72	53.42	70.28	.83

2052 2 01074 A8 12090E 22:10:01:09:29 22:10:01:12:15 1905 3232 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61719.93	61693.23	61810.48	.06
RALT	70.46	51.00	115.00	4.40
TC	1633.51	873.00	3385.00	66.06
K	115.84	42.00	264.00	18.83
UR	46.22	20.00	94.00	8.79
TH	45.43	13.00	105.00	9.99
COS	45.89	30.00	80.00	11.85
YAW	74.22	67.10	81.60	.68
VNS	17.60	7.94	27.42	2.27
VEW	65.47	56.40	72.35	.93

POSSIBLE SPIKE AT N = 522 , FID = 3754 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 528 , FID = 3760 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 534 , FID = 3766 IN THE MAGTS CHANNEL

FID No. - 3750	NEW MAG	61725.15	OLD MAG	61725.17	N =	518
FID No. - 3755	NEW MAG	61723.83	OLD MAG	61723.67	N =	523
FID No. - 3756	NEW MAG	61723.83	OLD MAG	61723.35	N =	524
FID No. - 3757	NEW MAG	61723.83	OLD MAG	61723.21	N =	525
FID No. - 3758	NEW MAG	61723.83	OLD MAG	53223.16	N =	526
FID No. - 3759	NEW MAG	61723.83	OLD MAG	30122.45	N =	527
FID No. - 3760	NEW MAG	61723.83	OLD MAG	21723.62	N =	528
FID No. - 3761	NEW MAG	61723.83	OLD MAG	21941.70	N =	529

FID No. - 3762 NEW MAG 61723.83 OLD MAG 21586.80 N = 530
FID No. - 3763 NEW MAG 61723.83 OLD MAG 21455.75 N = 531
FID No. - 3764 NEW MAG 61723.83 OLD MAG 21689.55 N = 532
FID No. - 3765 NEW MAG 61723.83 OLD MAG 21534.52 N = 533
FID No. - 3766 NEW MAG 61723.83 OLD MAG 23953.67 N = 534
FID No. - 3767 NEW MAG 61723.83 OLD MAG 52554.33 N = 535
FID No. - 3768 NEW MAG 61723.83 OLD MAG 61723.13 N = 536
FID No. - 3769 NEW MAG 61723.83 OLD MAG 61723.32 N = 537
FID No. - 3770 NEW MAG 61723.83 OLD MAG 61723.77 N = 538

2052 2 01075 A8 12080E 22:10:01:17:05 22:10:01:20:10 3233 4712 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61724.07	61691.34	61904.35	.06
RALT	69.14	49.00	108.00	3.38
TC	1592.52	805.00	3518.00	63.66
K	108.61	38.00	280.00	18.71
UR	46.29	23.00	106.00	9.80
TH	45.55	16.00	108.00	10.73
COS	45.06	28.00	71.00	11.39
YAW	74.49	69.70	80.90	.63
VNS	16.45	10.37	23.52	2.27
VEW	63.28	55.11	67.98	.79

2052 2 01076 A8 12070E 22:10:01:25:21 22:10:01:28:21 4713 6152 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61721.45	61690.74	61828.96	.07
RALT	71.24	46.00	113.00	4.05
TC	1547.01	790.00	3354.00	68.02
K	104.33	36.00	257.00	17.02
UR	45.98	21.00	121.00	12.88
TH	44.52	15.00	111.00	10.44
COS	46.17	26.00	65.00	11.50
YAW	74.30	70.00	78.20	.79
VNS	17.01	12.49	24.20	2.47
VEW	64.34	54.13	70.32	.75

2052 2 01077 A8 12060E 22:10:01:33:19 22:10:01:36:10 6153 7520 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61721.88	61692.50	61771.99	.06
RALT	70.26	50.00	118.00	3.16
TC	1542.43	678.00	3279.00	69.92
K	106.15	31.00	262.00	18.36
UR	45.27	19.00	106.00	9.58
TH	44.91	14.00	108.00	11.62
COS	45.24	30.00	61.00	9.72
YAW	73.35	67.10	80.00	.68
VNS	17.60	13.29	23.47	2.30
VEW	64.35	55.85	69.37	.89

2052 2 01078 A8 12050E 22:10:01:41:32 22:10:01:44:29 1 1416 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61723.09	61693.21	61753.62	.07
RALT	67.62	50.00	103.00	3.47
TC	1529.19	690.00	3258.00	80.05
K	104.20	35.00	229.00	17.97
UR	44.99	19.00	102.00	11.09
TH	43.68	13.00	94.00	11.46
COS	45.69	22.00	62.00	12.70
YAW	74.27	68.70	79.50	.75
VNS	16.69	10.90	22.05	1.84
VEW	65.00	55.64	71.13	.84

2052 2 01079 A8 12040E 22:10:01:49:36 22:10:01:52:26 1417 2776 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61721.17	61693.34	61750.46	.07
RALT	65.95	51.00	101.00	2.73
TC	1500.89	665.00	3573.00	69.35

K	101.76	30.00	312.00	15.61
UR	44.79	17.00	112.00	11.76
TH	44.05	15.00	100.00	10.80
COS	45.95	30.00	71.00	12.85
YAW	73.44	68.50	77.40	.62
VNS	17.56	10.82	25.32	2.53
VEW	64.24	53.33	70.79	.96

2052 2 01080 A8 12030E 22:10:01:57:26 22:10:02:00:13 2777 4112 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61720.11	61692.39	61750.52	.06
RALT	67.04	50.00	91.00	2.59
TC	1523.11	730.00	3651.00	80.36
K	103.93	36.00	284.00	19.14
UR	44.29	19.00	103.00	10.38
TH	44.01	18.00	99.00	10.44
COS	47.06	30.00	66.00	11.28
YAW	73.77	68.30	78.30	.71
VNS	17.67	11.44	23.85	2.34
VEW	64.68	54.57	70.74	.89

2052 2 01081 A8 12020E 22:10:02:05:08 22:10:02:08:01 4113 5496 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61720.36	61690.48	61750.49	.07
RALT	67.77	51.00	95.00	3.16
TC	1491.34	728.00	3507.00	69.93
K	100.66	28.00	268.00	17.05
UR	44.39	21.00	104.00	8.60
TH	43.41	15.00	100.00	9.59
COS	45.84	28.00	65.00	10.22
YAW	72.62	65.00	77.70	.76
VNS	17.65	12.40	24.96	1.73
VEW	63.77	55.60	71.49	.82

2052 2 01082 A8 12010E 22:10:02:13:07 22:10:02:15:58 5497 6856 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61719.34	61691.06	61750.04	.06
RALT	65.87	49.00	88.00	3.56
TC	1512.29	663.00	3231.00	69.04
K	102.75	28.00	287.00	16.11
UR	44.48	16.00	99.00	9.94
TH	43.88	14.00	99.00	9.46
COS	45.70	30.00	68.00	10.86
YAW	73.58	69.60	79.50	.65
VNS	17.36	12.33	24.75	2.04
VEW	64.97	56.03	73.98	.88

POSSIBLE SPIKE AT N = 25 , FID = 6881 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 31 , FID = 6887 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 37 , FID = 6893 IN THE MAGTS CHANNEL

FID No. - 6881	NEW MAG	61749.13	OLD MAG	61748.79	N =	25
FID No. - 6882	NEW MAG	61749.13	OLD MAG	61748.28	N =	26
FID No. - 6883	NEW MAG	61749.13	OLD MAG	61747.54	N =	27
FID No. - 6884	NEW MAG	61749.46	OLD MAG	61747.24	N =	28
FID No. - 6885	NEW MAG	61749.46	OLD MAG	59865.33	N =	29
FID No. - 6886	NEW MAG	61749.46	OLD MAG	31621.69	N =	30
FID No. - 6887	NEW MAG	61749.79	OLD MAG	21006.32	N =	31
FID No. - 6888	NEW MAG	61749.46	OLD MAG	20927.56	N =	32
FID No. - 6889	NEW MAG	61749.46	OLD MAG	21219.44	N =	33
FID No. - 6890	NEW MAG	61749.46	OLD MAG	21570.46	N =	34
FID No. - 6891	NEW MAG	61749.13	OLD MAG	22007.58	N =	35
FID No. - 6892	NEW MAG	61749.13	OLD MAG	36236.65	N =	36
FID No. - 6893	NEW MAG	61748.80	OLD MAG	60567.19	N =	37
FID No. - 6894	NEW MAG	61748.80	OLD MAG	61746.59	N =	38
FID No. - 6895	NEW MAG	61748.80	OLD MAG	61746.99	N =	39
FID No. - 6896	NEW MAG	61748.47	OLD MAG	61747.33	N =	40

FID No. - 6897 NEW MAG 61748.47 OLD MAG 61747.44 N = 41
FID No. - 6898 NEW MAG 61748.14 OLD MAG 61747.56 N = 42
FID No. - 6899 NEW MAG 61747.81 OLD MAG 61747.69 N = 43
2052 2 01083 A8 12000E 22:10:02:20:40 22:10:02:23:28 6857 8192 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61720.18	61692.01	61750.40	.07
RALT	68.87	50.00	90.00	3.33
TC	1526.84	664.00	3293.00	70.27
K	102.90	37.00	260.00	19.49
UR	44.49	17.00	88.00	10.22
TH	45.21	13.00	91.00	9.06
COS	45.02	29.00	65.00	10.49
YAW	72.89	67.10	80.70	.75
VNS	18.01	9.75	24.30	2.02
VEW	65.31	57.35	71.30	.86

2052 2 01084 A8 11990E 22:10:02:28:23 22:10:02:31:09 1 1320 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61719.27	61691.20	61749.71	.07
RALT	68.92	55.00	101.00	4.27
TC	1502.75	682.00	3065.00	80.99
K	103.59	29.00	259.00	16.83
UR	43.33	16.00	103.00	10.40
TH	44.97	16.00	98.00	9.81
COS	46.13	31.00	70.00	10.57
YAW	73.66	67.90	78.70	.58
VNS	17.94	12.51	23.39	1.71
VEW	66.59	59.20	73.75	.81

N= 60 125.00 CHANGED TO 103.80 FID = 60 RALT
2052 2 01085 A8 11980E 22:10:02:36:14 22:10:02:38:56 1321 2608 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61719.67	61691.76	61749.76	.06
RALT	66.82	49.00	108.00	4.20
TC	1493.68	681.00	2907.00	85.31
K	102.50	31.00	231.00	17.65
UR	43.27	14.00	106.00	11.57
TH	44.11	13.00	101.00	9.64
COS	46.05	25.00	67.00	10.96
YAW	72.30	64.90	75.00	.50
VNS	18.67	14.41	27.07	1.47
VEW	65.97	58.29	72.33	.75

2052 2 01086 A8 11970E 22:10:02:43:52 22:10:02:46:35 2609 3904 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61719.95	61691.42	61749.34	.07
RALT	64.97	49.00	88.00	3.02
TC	1385.22	686.00	2887.00	59.53
K	91.58	25.00	206.00	13.61
UR	41.86	16.00	97.00	9.82
TH	40.46	10.00	96.00	10.60
COS	45.49	28.00	61.00	7.89
YAW	72.88	69.40	77.50	.76
VNS	18.27	13.88	24.15	1.85
VEW	66.16	57.35	71.17	.75

2052 2 01087 A8 11960E 22:10:02:51:20 22:10:02:54:03 3905 5208 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61718.81	61690.69	61748.00	.07
RALT	63.56	50.00	83.00	3.03
TC	1384.94	700.00	3345.00	80.16
K	93.63	35.00	275.00	17.31
UR	41.12	15.00	104.00	10.98
TH	40.80	12.00	104.00	9.45
COS	46.09	29.00	71.00	10.53
YAW	72.85	69.00	77.70	.74

VNS	18.49	13.61	24.07	1.83
VEW	65.80	54.86	73.90	.92

POSSIBLE SPIKE AT N = 534 , FID = 5742 IN THE MAGTS CHANNEL
STEP AT N = 539 , FID = 5747 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 545 , FID = 5753 IN THE MAGTS CHANNEL

FID No. -	5742	NEW MAG	61724.10	OLD MAG	61723.53	N =	534
FID No. -	5743	NEW MAG	61724.10	OLD MAG	61723.20	N =	535
FID No. -	5744	NEW MAG	61724.10	OLD MAG	61723.28	N =	536
FID No. -	5745	NEW MAG	61724.10	OLD MAG	61723.25	N =	537
FID No. -	5746	NEW MAG	61724.10	OLD MAG	58310.52	N =	538
FID No. -	5747	NEW MAG	61724.10	OLD MAG	31638.43	N =	539
FID No. -	5748	NEW MAG	61724.10	OLD MAG	21565.81	N =	540
FID No. -	5749	NEW MAG	61724.43	OLD MAG	21105.76	N =	541
FID No. -	5750	NEW MAG	61724.43	OLD MAG	32226.53	N =	542
FID No. -	5751	NEW MAG	61724.43	OLD MAG	59571.63	N =	543
FID No. -	5752	NEW MAG	61724.43	OLD MAG	61722.79	N =	544
FID No. -	5753	NEW MAG	61724.43	OLD MAG	61723.07	N =	545
FID No. -	5754	NEW MAG	61724.43	OLD MAG	61723.61	N =	546
FID No. -	5755	NEW MAG	61724.43	OLD MAG	61724.29	N =	547

2052 2 01088 A8 11950E 22:10:02:58:44 22:10:03:01:36 5209 6584 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61718.59	61688.48	61750.19	.07
RALT	65.03	52.00	111.00	2.22
TC	1383.62	631.00	2878.00	72.55
K	98.36	28.00	253.00	16.41
UR	39.89	14.00	96.00	10.29
TH	39.80	13.00	92.00	9.22
COS	45.12	25.00	66.00	12.83
YAW	72.84	69.10	79.60	.54
VNS	18.40	13.62	24.01	2.07
VEW	65.54	54.65	72.91	.65

2052 2 01089 A8 11940E 22:10:03:06:25 22:10:03:09:10 6585 7904 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61718.27	61689.30	61748.41	.07
RALT	66.13	49.00	86.00	2.29
TC	1369.28	628.00	2886.00	68.94
K	94.68	27.00	220.00	17.72
UR	40.13	18.00	85.00	10.05
TH	39.77	10.00	91.00	11.88
COS	44.48	25.00	69.00	10.03
YAW	72.64	68.50	80.10	.74
VNS	18.61	13.45	24.53	2.17
VEW	66.32	54.43	73.11	.88

POSSIBLE SPIKE AT N = 1214 , FID = 1214 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 1220 , FID = 1220 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 1226 , FID = 1226 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 1232 , FID = 1232 IN THE MAGTS CHANNEL
STEP AT N = 1241 , FID = 1241 IN THE MAGTS CHANNEL

FID No. -	1214	NEW MAG	61692.12	OLD MAG	61692.42	N =	1214
FID No. -	1215	NEW MAG	61692.12	OLD MAG	61692.31	N =	1215
FID No. -	1216	NEW MAG	61692.12	OLD MAG	61692.01	N =	1216
FID No. -	1217	NEW MAG	61692.12	OLD MAG	61600.72	N =	1217
FID No. -	1218	NEW MAG	61692.12	OLD MAG	41334.08	N =	1218
FID No. -	1219	NEW MAG	61692.45	OLD MAG	23360.76	N =	1219
FID No. -	1220	NEW MAG	61692.45	OLD MAG	21515.81	N =	1220
FID No. -	1221	NEW MAG	61692.45	OLD MAG	21857.54	N =	1221
FID No. -	1222	NEW MAG	61692.45	OLD MAG	31645.21	N =	1222
FID No. -	1223	NEW MAG	61692.45	OLD MAG	60235.03	N =	1223
FID No. -	1224	NEW MAG	61692.45	OLD MAG	61691.75	N =	1224
FID No. -	1225	NEW MAG	61692.45	OLD MAG	61692.04	N =	1225
FID No. -	1226	NEW MAG	61692.45	OLD MAG	61692.02	N =	1226
FID No. -	1227	NEW MAG	61692.45	OLD MAG	61692.09	N =	1227
FID No. -	1228	NEW MAG	61692.45	OLD MAG	61692.06	N =	1228

FID No. - 1229	NEW MAG	61692.45	OLD MAG	61692.09	N =	1229	
FID No. - 1230	NEW MAG	61692.45	OLD MAG	61691.90	N =	1230	
FID No. - 1231	NEW MAG	61692.45	OLD MAG	61691.79	N =	1231	
FID No. - 1232	NEW MAG	61692.45	OLD MAG	61663.88	N =	1232	
FID No. - 1233	NEW MAG	61692.45	OLD MAG	50785.05	N =	1233	
FID No. - 1234	NEW MAG	61692.12	OLD MAG	28610.96	N =	1234	
FID No. - 1235	NEW MAG	61692.12	OLD MAG	21362.30	N =	1235	
FID No. - 1236	NEW MAG	61692.12	OLD MAG	20943.35	N =	1236	
FID No. - 1237	NEW MAG	61692.12	OLD MAG	21356.59	N =	1237	
FID No. - 1238	NEW MAG	61692.12	OLD MAG	21602.69	N =	1238	
FID No. - 1239	NEW MAG	61692.45	OLD MAG	21516.90	N =	1239	
FID No. - 1240	NEW MAG	61692.45	OLD MAG	24766.39	N =	1240	
FID No. - 1241	NEW MAG	61692.45	OLD MAG	53791.60	N =	1241	
FID No. - 1242	NEW MAG	61692.45	OLD MAG	61691.99	N =	1242	
FID No. - 1243	NEW MAG	61692.45	OLD MAG	61692.06	N =	1243	
FID No. - 1244	NEW MAG	61692.45	OLD MAG	61692.27	N =	1244	
FID No. - 1245	NEW MAG	61692.45	OLD MAG	61692.61	N =	1245	

2052 2 01090 A8 11930E 22:10:03:14:13 22:10:03:17:04 1 1368 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61718.89	61689.83	61751.21	.07
RALT	66.41	47.00	96.00	2.39
TC	1360.43	573.00	2754.00	74.53
K	94.15	29.00	216.00	15.12
UR	39.99	12.00	82.00	9.93
TH	38.18	12.00	86.00	10.86
COS	45.13	23.00	69.00	13.40
YAW	72.97	62.00	78.80	.58
VNS	18.48	12.60	28.19	2.22
VEW	64.72	51.96	71.09	.77

2052 2 01091 A8 11920E 22:10:03:21:55 22:10:03:24:35 1369 2648 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61718.35	61690.38	61749.20	.07
RALT	64.36	53.00	86.00	2.05
TC	1387.29	599.00	2561.00	77.24
K	96.40	31.00	231.00	16.28
UR	40.16	18.00	82.00	12.85
TH	40.40	11.00	80.00	10.25
COS	45.86	30.00	71.00	12.31
YAW	72.93	67.90	76.90	.65
VNS	18.92	13.03	25.99	2.40
VEW	66.24	52.15	72.13	1.02

2052 2 01092 A8 11910E 22:10:03:29:27 22:10:03:32:06 2649 3920 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61717.65	61690.29	61747.85	.07
RALT	63.76	50.00	81.00	1.87
TC	1439.22	663.00	3193.00	76.88
K	100.49	33.00	296.00	16.19
UR	41.18	18.00	78.00	8.61
TH	41.64	13.00	98.00	10.63
COS	46.08	24.00	76.00	10.64
YAW	72.55	65.30	76.70	.75
VNS	19.44	14.83	27.71	2.45
VEW	65.70	54.25	73.28	.82

2052 2 01093 A8 11900E 22:10:03:36:46 22:10:03:39:28 3921 5216 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61718.84	61691.07	61748.22	.06
RALT	63.41	50.00	75.00	1.75
TC	1465.77	660.00	2711.00	69.97
K	101.79	32.00	239.00	15.27
UR	40.75	18.00	80.00	10.69
TH	43.19	11.00	89.00	11.41
COS	45.96	26.00	70.00	10.11
YAW	73.07	66.60	78.80	.62

VNS	18.80	12.21	25.25	1.82
VEW	65.03	53.18	71.05	.90

LINE NO. 11890E - HAS BEEN SCRUBBED -#####

POSSIBLE SPIKE AT N = 1299 , FID = 6747 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 1305 , FID = 6753 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 1311 , FID = 6759 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 1317 , FID = 6765 IN THE MAGTS CHANNEL

FID No. -	6747	NEW MAG	61690.81	OLD MAG	61690.33	N =	1299
FID No. -	6748	NEW MAG	61690.81	OLD MAG	61689.86	N =	1300
FID No. -	6749	NEW MAG	61690.81	OLD MAG	61689.79	N =	1301
FID No. -	6750	NEW MAG	61690.81	OLD MAG	61689.67	N =	1302
FID No. -	6751	NEW MAG	61690.81	OLD MAG	61471.04	N =	1303
FID No. -	6752	NEW MAG	61690.81	OLD MAG	35633.00	N =	1304
FID No. -	6753	NEW MAG	61690.81	OLD MAG	21608.41	N =	1305
FID No. -	6754	NEW MAG	61690.81	OLD MAG	21514.93	N =	1306
FID No. -	6755	NEW MAG	61690.81	OLD MAG	21718.59	N =	1307
FID No. -	6756	NEW MAG	61690.48	OLD MAG	21841.17	N =	1308
FID No. -	6757	NEW MAG	61690.48	OLD MAG	21744.17	N =	1309
FID No. -	6758	NEW MAG	61690.48	OLD MAG	21742.44	N =	1310
FID No. -	6759	NEW MAG	61690.48	OLD MAG	21807.69	N =	1311
FID No. -	6760	NEW MAG	61690.48	OLD MAG	21692.50	N =	1312
FID No. -	6761	NEW MAG	61690.48	OLD MAG	22415.42	N =	1313
FID No. -	6762	NEW MAG	61690.48	OLD MAG	31249.44	N =	1314
FID No. -	6763	NEW MAG	61690.48	OLD MAG	59719.42	N =	1315
FID No. -	6764	NEW MAG	61690.48	OLD MAG	61688.84	N =	1316
FID No. -	6765	NEW MAG	61690.15	OLD MAG	61689.06	N =	1317
FID No. -	6766	NEW MAG	61690.15	OLD MAG	61689.28	N =	1318
FID No. -	6767	NEW MAG	61690.15	OLD MAG	61689.74	N =	1319
FID No. -	6768	NEW MAG	61690.15	OLD MAG	61690.15	N =	1320

2052 2 01095 A8 11891E 22:10:03:46:29 22:10:03:49:19 5449 6808 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61718.89	61688.89	61748.97	.06
RALT	62.91	48.00	74.00	2.13
TC	1496.54	652.00	3165.00	67.56
K	105.36	31.00	297.00	14.62
UR	42.46	22.00	99.00	9.75
TH	43.58	11.00	96.00	9.67
COS	45.82	29.00	64.00	10.24
YAW	72.69	66.40	76.60	.63
VNS	19.02	13.63	24.19	2.28
VEW	63.73	53.15	69.98	.94

POSSIBLE SPIKE AT N = 123 , FID = 6931 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 129 , FID = 6937 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 135 , FID = 6943 IN THE MAGTS CHANNEL

FID No. -	6925	NEW MAG	61741.93	OLD MAG	61741.87	N =	117
FID No. -	6926	NEW MAG	61741.93	OLD MAG	61741.69	N =	118
FID No. -	6927	NEW MAG	61741.93	OLD MAG	61741.49	N =	119
FID No. -	6928	NEW MAG	61741.93	OLD MAG	61741.24	N =	120
FID No. -	6929	NEW MAG	61741.93	OLD MAG	61741.05	N =	121
FID No. -	6930	NEW MAG	61741.93	OLD MAG	61740.84	N =	122
FID No. -	6931	NEW MAG	61741.93	OLD MAG	61740.49	N =	123
FID No. -	6932	NEW MAG	61741.93	OLD MAG	61740.21	N =	124
FID No. -	6933	NEW MAG	61741.93	OLD MAG	61739.71	N =	125
FID No. -	6934	NEW MAG	61741.60	OLD MAG	61739.65	N =	126
FID No. -	6935	NEW MAG	61741.60	OLD MAG	60146.71	N =	127
FID No. -	6936	NEW MAG	61741.60	OLD MAG	36216.81	N =	128
FID No. -	6937	NEW MAG	61741.60	OLD MAG	22375.29	N =	129
FID No. -	6938	NEW MAG	61741.60	OLD MAG	21797.58	N =	130
FID No. -	6939	NEW MAG	61741.60	OLD MAG	21762.69	N =	131
FID No. -	6940	NEW MAG	61741.27	OLD MAG	21558.76	N =	132
FID No. -	6941	NEW MAG	61741.27	OLD MAG	22821.97	N =	133
FID No. -	6942	NEW MAG	61741.27	OLD MAG	40855.39	N =	134
FID No. -	6943	NEW MAG	61740.94	OLD MAG	60769.11	N =	135

FID No. - 6944	NEW MAG	61740.94	OLD MAG	61738.75	N =	136	
FID No. - 6945	NEW MAG	61740.94	OLD MAG	61739.11	N =	137	
FID No. - 6946	NEW MAG	61740.94	OLD MAG	61739.26	N =	138	
FID No. - 6947	NEW MAG	61740.94	OLD MAG	61739.41	N =	139	
FID No. - 6948	NEW MAG	61740.94	OLD MAG	61739.54	N =	140	
FID No. - 6949	NEW MAG	61740.94	OLD MAG	61739.69	N =	141	
FID No. - 6950	NEW MAG	61740.94	OLD MAG	61739.84	N =	142	
FID No. - 6951	NEW MAG	61740.94	OLD MAG	61739.91	N =	143	
FID No. - 6952	NEW MAG	61740.94	OLD MAG	61740.00	N =	144	
FID No. - 6953	NEW MAG	61740.94	OLD MAG	61739.86	N =	145	
FID No. - 6940	NEW MAG	61740.94	OLD MAG	61741.27	N =	132	
FID No. - 6941	NEW MAG	61740.61	OLD MAG	61741.27	N =	133	
FID No. - 6942	NEW MAG	61740.61	OLD MAG	61741.27	N =	134	
FID No. - 6943	NEW MAG	61740.61	OLD MAG	61740.94	N =	135	
FID No. - 6944	NEW MAG	61740.61	OLD MAG	61740.94	N =	136	
FID No. - 6945	NEW MAG	61740.61	OLD MAG	61740.94	N =	137	
FID No. - 6946	NEW MAG	61740.28	OLD MAG	61740.94	N =	138	
FID No. - 6947	NEW MAG	61740.28	OLD MAG	61740.94	N =	139	
FID No. - 6948	NEW MAG	61739.95	OLD MAG	61740.94	N =	140	
FID No. - 6949	NEW MAG	61739.95	OLD MAG	61740.94	N =	141	
FID No. - 6950	NEW MAG	61739.95	OLD MAG	61740.94	N =	142	

2052 2 01096 A8 11880E 22:10:03:53:46 22:10:03:56:41 6809 8208 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61717.30	61688.22	61747.49	.07
RALT	60.17	46.00	76.00	2.17
TC	1473.22	632.00	2866.00	61.32
K	105.42	33.00	253.00	16.98
UR	41.70	16.00	99.00	10.00
TH	43.03	15.00	111.00	9.97
COS	46.67	27.00	74.00	10.24
YAW	73.18	67.50	78.80	.48
VNS	17.24	11.68	25.99	1.71
VEW	61.78	50.27	68.70	.70

2052 2 01097 A8 11870E 22:10:04:01:09 22:10:04:04:02 1 1384 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61715.74	61687.27	61746.49	.07
RALT	61.18	49.00	73.00	1.60
TC	1412.50	664.00	2851.00	69.79
K	99.13	33.00	287.00	13.23
UR	40.83	11.00	81.00	9.14
TH	42.53	14.00	87.00	9.30
COS	46.12	33.00	63.00	11.95
YAW	72.35	65.60	77.30	.72
VNS	18.48	13.62	27.85	2.35
VEW	63.32	51.66	72.34	.98

2052 2 01098 A8 11860E 22:10:04:08:32 22:10:04:11:24 1385 2760 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61714.72	61685.44	61745.21	.06
RALT	62.78	53.00	79.00	1.69
TC	1348.91	673.00	2520.00	68.20
K	94.45	30.00	218.00	15.14
UR	39.14	16.00	82.00	10.34
TH	40.30	9.00	101.00	11.91
COS	45.66	29.00	65.00	11.80
YAW	72.85	65.00	78.50	.63
VNS	18.15	11.45	23.91	1.87
VEW	62.66	53.12	69.62	.99

2052 2 01099 A8 11850E 22:10:04:15:56 22:10:04:18:48 2761 4136 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61715.78	61687.45	61746.32	.07
RALT	62.67	53.00	76.00	2.09
TC	1331.24	710.00	2812.00	66.40
K	94.00	30.00	258.00	18.15

UR	38.49	17.00	82.00	8.77
TH	39.61	15.00	88.00	10.01
COS	46.30	31.00	67.00	10.17
YAW	72.14	65.70	77.60	.65
VNS	18.29	12.86	24.94	1.66
VEW	62.96	53.21	70.67	.79

2052 2 01100 A8 11840E 22:10:04:23:30 22:10:04:26:16 4137 5464 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61716.68	61688.19	61747.49	.06
RALT	61.25	51.00	74.00	2.57
TC	1264.95	678.00	2783.00	75.07
K	89.02	35.00	266.00	14.94
UR	36.63	15.00	73.00	8.77
TH	37.22	12.00	86.00	9.63
COS	45.68	27.00	66.00	11.05
YAW	71.79	66.00	75.90	.52
VNS	19.18	12.59	24.15	2.01
VEW	63.25	53.84	70.67	.73

2052 2 01101 A8 11830E 22:10:04:30:33 22:10:04:33:16 5465 6768 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61716.16	61687.93	61746.32	.06
RALT	60.39	45.00	81.00	1.84
TC	1193.26	644.00	2314.00	66.32
K	82.33	31.00	195.00	16.66
UR	34.79	12.00	67.00	10.51
TH	35.32	15.00	68.00	11.13
COS	45.55	29.00	62.00	10.02
YAW	71.45	63.90	76.30	.53
VNS	18.96	14.22	23.80	1.36
VEW	61.70	51.68	68.27	.73

2052 2 01102 A8 11820E 22:10:04:37:30 22:10:04:40:23 6769 8152 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61714.56	61685.29	61746.07	.06
RALT	62.14	47.00	80.00	1.78
TC	1152.32	611.00	2091.00	73.41
K	79.62	30.00	195.00	14.52
UR	32.72	10.00	62.00	8.44
TH	35.21	12.00	79.00	10.28
COS	47.14	30.00	67.00	12.61
YAW	72.03	65.70	76.60	.58
VNS	18.09	13.71	23.91	1.72
VEW	61.33	52.97	68.70	.71

2052 2 01103 A8 C16090E 22:10:04:45:42 22:10:04:47:22 1 800 .13 61700
POST-FLIGHT HIGH LEVEL BACKGROUND

	MEAN	MIN	MAX	STD.
TC	384.70	339.00	427.00	25.05
K	27.06	15.00	38.00	6.98
UR	15.67	5.00	26.00	7.14
TH	10.56	2.00	23.00	6.48
COS	46.14	30.00	62.00	10.98

2052 2 01104 A8 C16080E 22:10:04:49:01 22:10:04:50:35 801 1552 .13 61700
POST-FLIGHT TEST LINE

	MEAN	MIN	MAX	STD.
MAGTS	61612.59	61502.66	61690.09	.07
RALT	56.51	49.00	63.00	1.21
TC	903.37	752.00	1052.00	65.71
K	82.24	56.00	112.00	14.42
UR	22.93	12.00	37.00	9.25
TH	19.88	10.00	36.00	8.11
COS	45.53	32.00	69.00	9.50
YAW	73.89	65.70	83.90	.58

VNS	15.59	4.98	27.18	1.46
VEW	66.90	62.72	72.97	.65

LINE NO. 19000E - HAS BEEN SCRUBBED -#####

LINE NO. 16010E - HAS BEEN SCRUBBED -#####

LINE NO. 16020E - HAS BEEN SCRUBBED -#####

LINE NO. 16030E - HAS BEEN SCRUBBED -#####

LINE NO. 16040E - HAS BEEN SCRUBBED -#####

2052 3 01110 A8 C15010E 22:10:21:23:16 22:10:21:24:56 1 800 .13 61700
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2617.90	2512.00	2732.00	97.25
K	260.46	215.00	312.00	29.11
UR	62.82	44.00	85.00	11.45
TH	68.60	52.00	95.00	12.55
COS	46.58	30.00	66.00	10.43

2052 3 01111 A8 C15020E 22:10:21:26:19 22:10:21:27:59 801 1600 .13 61700
PRE-FLIGHT URANIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	9187.31	8954.00	9366.00	157.22
K	567.97	492.00	647.00	37.39
UR	438.44	389.00	497.00	30.35
TH	93.95	74.00	128.00	12.42
COS	50.18	34.00	71.00	10.52

2052 3 01112 A8 C15030E 22:10:21:28:36 22:10:21:30:16 1601 2400 .13 61700
PRE-FLIGHT THORIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	11242.85	10953.00	11492.00	228.97
K	519.88	468.00	569.00	36.92
UR	225.04	174.00	267.00	21.87
TH	684.38	622.00	748.00	42.81
COS	84.86	62.00	113.00	15.69

2052 3 01113 A8 C15040E 22:10:21:32:34 22:10:21:33:24 2401 2800 .13 61700
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2604.16	2450.00	2733.00	73.94
K	263.38	225.00	300.00	14.36
UR	59.78	42.00	75.00	9.31
TH	71.38	52.00	90.00	13.18
COS	45.14	33.00	62.00	10.34

LINE NO. 19000E - HAS BEEN SCRUBBED -#####

2052 3 01115 A8 C15090E 22:10:22:36:20 22:10:22:38:00 3073 3872 .13 61700
PRE-FLIGHT HIGH LEVEL BACKGROUND

	MEAN	MIN	MAX	STD.
TC	362.04	317.00	411.00	27.19
K	24.93	12.00	38.00	8.65
UR	14.92	5.00	22.00	6.48
TH	11.37	4.00	26.00	5.65
COS	51.12	35.00	68.00	12.08

2052 3 01116 A8 C15080E 22:10:22:40:55 22:10:22:42:33 3873 4656 .13 61700
PRE-FLIGHT TEST LINE

	MEAN	MIN	MAX	STD.
MAGTS	61601.24	61487.99	61679.06	.06
RALT	59.04	53.00	67.00	1.55
TC	874.12	708.00	1092.00	56.36

K	80.06	48.00	108.00	11.65
UR	22.36	13.00	37.00	7.49
TH	19.22	9.00	31.00	5.74
COS	42.58	27.00	61.00	9.47
YAW	74.84	66.00	83.60	.76
VNS	.37	-2.71	3.96	3.37
VEW	2.01	.80	3.27	1.03

2052 3 01117 A8 11810E 22:10:22:49:19 22:10:22:52:20 1 1448 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61703.45	61675.50	61733.57	.06
RALT	58.89	45.00	78.00	2.38
TC	1122.45	537.00	2592.00	78.55
K	75.86	27.00	219.00	15.34
UR	32.54	14.00	63.00	9.69
TH	33.71	11.00	82.00	10.26
COS	43.73	27.00	67.00	11.73
YAW	73.35	67.30	78.40	.48
VNS	14.90	10.24	20.37	1.39
VEW	58.45	51.87	68.70	.60

2052 3 01118 A8 11800E 22:10:22:56:52 22:10:22:59:39 1449 2784 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61702.24	61675.58	61731.02	.06
RALT	60.13	51.00	70.00	2.47
TC	1202.26	560.00	2822.00	76.36
K	85.56	29.00	264.00	17.20
UR	33.61	14.00	72.00	9.71
TH	35.44	6.00	74.00	9.84
COS	44.23	29.00	59.00	9.27
YAW	71.59	68.20	75.70	.44
VNS	18.45	13.47	24.52	1.97
VEW	61.55	54.57	70.15	.66

2052 3 01119 A8 11790E 22:10:23:03:42 22:10:23:06:29 2785 4120 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61701.10	61674.81	61729.40	.06
RALT	59.85	48.00	70.00	2.58
TC	1288.86	552.00	2994.00	60.13
K	93.89	29.00	285.00	13.23
UR	35.17	13.00	73.00	9.85
TH	37.80	11.00	103.00	9.74
COS	43.47	26.00	61.00	9.17
YAW	71.64	68.60	75.40	.55
VNS	18.07	11.94	25.39	1.90
VEW	61.19	54.59	68.72	.87

2052 3 01120 A8 11780E 22:10:23:10:27 22:10:23:13:21 4121 5512 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61699.19	61672.82	61728.55	.06
RALT	58.20	47.00	72.00	2.44
TC	1387.29	670.00	3171.00	72.59
K	102.42	32.00	302.00	18.30
UR	37.65	14.00	77.00	9.94
TH	40.55	18.00	104.00	9.99
COS	43.12	26.00	59.00	12.06
YAW	72.43	68.30	79.40	.57
VNS	16.93	10.56	22.81	2.03
VEW	59.81	51.30	67.16	.67

2052 3 01121 A8 11770E 22:10:23:16:51 22:10:23:19:46 5513 6912 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61702.81	61675.76	61728.99	.06
RALT	59.31	49.00	69.00	2.73
TC	1385.85	693.00	3011.00	63.02
K	102.34	33.00	275.00	15.91

UR	36.81	17.00	73.00	8.47
TH	40.47	14.00	98.00	11.99
COS	44.45	28.00	66.00	11.21
YAW	72.11	69.30	78.20	.41
VNS	17.19	10.32	22.83	1.91
VEW	60.32	52.03	69.17	.72

2052 3 01122 A8 11760E 22:10:23:23:35 22:10:23:26:18 6913 8216 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61701.02	61673.66	61729.24	.86
RALT	59.75	49.00	76.00	2.51
TC	1340.53	692.00	3186.00	70.53
K	99.33	31.00	315.00	12.81
UR	36.18	14.00	84.00	9.81
TH	39.31	12.00	91.00	9.59
COS	43.53	24.00	59.00	10.19
YAW	71.88	68.80	77.30	.46
VNS	18.39	11.16	27.41	2.28
VEW	62.35	54.79	73.38	.83

2052 3 01123 A8 11750E 22:10:23:31:00 22:10:23:33:49 1 1352 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61701.45	61674.62	61729.16	.06
RALT	59.57	48.00	71.00	2.66
TC	1339.34	649.00	2996.00	78.49
K	96.25	33.00	288.00	18.64
UR	35.95	15.00	79.00	9.14
TH	40.31	13.00	98.00	9.51
COS	43.74	24.00	64.00	10.29
YAW	71.66	69.10	75.20	.35
VNS	17.43	13.34	23.03	1.98
VEW	59.98	52.46	66.09	.74

2052 3 01124 A8 11740E 22:10:23:37:28 22:10:23:40:09 1353 2640 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61700.63	61673.32	61726.78	.06
RALT	59.04	49.00	72.00	2.09
TC	1288.46	632.00	2969.00	57.34
K	92.77	34.00	269.00	13.06
UR	36.29	13.00	87.00	7.82
TH	39.23	8.00	96.00	10.92
COS	43.97	29.00	62.00	10.29
YAW	71.95	69.20	75.10	.48
VNS	17.87	14.36	23.12	1.82
VEW	61.34	55.61	68.74	.77

LINE NO. 11730E - HAS BEEN SCRUBBED -#####

2052 3 01126 A8 11731E 22:10:23:45:52 22:10:23:48:34 2921 4216 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61701.24	61674.55	61726.34	.06
RALT	60.70	51.00	74.00	2.57
TC	1136.75	654.00	2728.00	64.90
K	80.14	28.00	257.00	21.89
UR	32.43	14.00	70.00	7.15
TH	34.49	9.00	77.00	9.76
COS	43.93	30.00	62.00	8.72
YAW	72.82	70.00	76.20	.46
VNS	16.88	11.25	22.99	2.31
VEW	60.40	55.02	66.49	.94

2052 3 01127 A8 11720E 22:10:23:52:11 22:10:23:54:59 4217 5560 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61699.91	61672.04	61727.17	.06
RALT	59.65	48.00	74.00	2.54
TC	1101.95	694.00	2287.00	73.79

K	76.73	28.00	205.00	15.93
UR	30.79	13.00	57.00	7.10
TH	33.67	13.00	64.00	10.58
COS	44.55	27.00	63.00	10.71
YAW	72.72	69.70	77.40	.48
VNS	17.26	12.36	22.39	1.81
VEW	61.72	56.05	68.10	.80

2052 3 01128 A8 11710E 22:10:23:58:49 23:10:00:01:33 5561 6872 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61700.94	61672.74	61727.98	.06
RALT	57.10	45.00	65.00	2.44
TC	1098.23	699.00	1973.00	62.25
K	77.02	32.00	154.00	14.18
UR	31.09	14.00	67.00	7.63
TH	32.97	17.00	73.00	8.60
COS	44.57	30.00	63.00	10.90
YAW	72.69	67.00	76.90	.45
VNS	18.16	13.10	24.19	2.79
VEW	61.39	56.26	67.09	.98

LINE NO. 11700E - HAS BEEN SCRUBBED -#####

2052 3 01130 A8 11701E 23:10:00:11:33 23:10:00:14:09 1 1248 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61699.38	61672.36	61725.38	.07
RALT	59.87	50.00	70.00	2.79
TC	1071.15	644.00	2022.00	65.84
K	76.67	29.00	195.00	12.79
UR	29.53	16.00	56.00	6.27
TH	30.99	7.00	68.00	7.85
COS	44.11	26.00	61.00	10.73
YAW	71.45	67.70	75.10	.54
VNS	19.45	15.03	26.26	1.81
VEW	63.79	58.06	72.50	.71

2052 3 01131 A8 11690E 23:10:00:17:36 23:10:00:20:10 1249 2480 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61697.19	61670.32	61723.54	.07
RALT	60.86	50.00	77.00	2.08
TC	1063.56	612.00	2452.00	68.88
K	76.43	27.00	212.00	13.58
UR	28.91	16.00	57.00	8.44
TH	30.88	12.00	69.00	6.87
COS	44.44	30.00	65.00	8.33
YAW	72.15	68.10	75.30	.40
VNS	18.58	12.67	26.00	2.07
VEW	63.13	57.41	71.47	.85

2052 3 01132 A8 11680E 23:10:00:23:54 23:10:00:26:36 2481 3776 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61696.75	61669.55	61724.57	.07
RALT	58.53	50.00	74.00	2.28
TC	1073.81	584.00	2321.00	63.16
K	78.10	29.00	227.00	12.48
UR	29.53	13.00	61.00	7.87
TH	31.34	15.00	83.00	10.56
COS	43.40	27.00	64.00	10.55
YAW	71.02	65.60	76.80	.59
VNS	19.11	11.95	28.02	2.01
VEW	62.46	57.10	72.07	.69

2052 3 01133 A8 11670E 23:10:00:30:30 23:10:00:32:59 3777 4968 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61697.93	61674.33	61723.73	.07
RALT	60.53	50.00	69.00	2.04

TC	1064.72	636.00	1816.00	63.14
K	78.44	32.00	185.00	15.06
UR	28.79	15.00	52.00	9.15
TH	29.43	14.00	52.00	8.24
COS	43.73	30.00	62.00	9.78
YAW	70.00	63.50	73.80	.46
VNS	20.27	14.61	26.65	2.19
VEW	64.03	59.68	71.88	.73

2052 3 01134 A8 11660E 23:10:00:36:28 23:10:00:38:58 4969 6168 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61697.33	61673.88	61723.49	.07
RALT	59.15	49.00	74.00	2.72
TC	1076.50	640.00	2011.00	70.32
K	80.32	33.00	183.00	13.87
UR	29.57	15.00	57.00	8.61
TH	31.07	14.00	65.00	9.04
COS	44.27	28.00	64.00	11.04
YAW	71.19	64.60	75.60	.52
VNS	18.65	13.21	23.27	1.42
VEW	63.90	57.97	70.54	.64

POSSIBLE SPIKE AT N = 7 , FID = 6175 IN THE MAGTS CHANNEL

FID No. -	6169	NEW MAG	61717.50	OLD MAG	21074.27	N = 1
FID No. -	6169	NEW MAG	61719.48	OLD MAG	21074.27	N = 1
FID No. -	6170	NEW MAG	61719.48	OLD MAG	21383.86	N = 2
FID No. -	6171	NEW MAG	61719.48	OLD MAG	21242.75	N = 3
FID No. -	6172	NEW MAG	61719.81	OLD MAG	21198.55	N = 4
FID No. -	6173	NEW MAG	61719.81	OLD MAG	21363.87	N = 5
FID No. -	6174	NEW MAG	61720.14	OLD MAG	21289.42	N = 6
FID No. -	6175	NEW MAG	61720.14	OLD MAG	22651.69	N = 7
FID No. -	6176	NEW MAG	61720.47	OLD MAG	45756.67	N = 8
FID No. -	6177	NEW MAG	61720.80	OLD MAG	61720.32	N = 9
FID No. -	6178	NEW MAG	61720.80	OLD MAG	61720.69	N = 10

2052 3 01135 A8 11650E 23:10:00:42:26 23:10:00:44:56 6169 7368 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61695.68	61672.09	61721.56	.07
RALT	60.70	48.00	73.00	2.10
TC	1080.27	586.00	2154.00	77.56
K	83.03	26.00	203.00	14.17
UR	29.02	15.00	53.00	8.85
TH	30.74	9.00	56.00	9.26
COS	44.10	29.00	66.00	10.15
YAW	72.14	67.40	77.10	.56
VNS	18.13	9.97	28.97	2.25
VEW	64.06	59.26	71.83	1.02

2052 3 01136 A8 11640E 23:10:00:48:31 23:10:00:51:07 1 1240 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61696.78	61672.54	61723.82	.07
RALT	60.06	53.00	72.00	2.06
TC	1018.51	580.00	1728.00	54.93
K	77.50	33.00	145.00	14.87
UR	27.81	13.00	49.00	7.28
TH	28.27	10.00	54.00	7.61
COS	44.26	28.00	62.00	11.38
YAW	71.83	66.50	76.60	.51
VNS	18.07	13.64	24.08	1.79
VEW	63.76	59.07	70.87	.62

2052 3 01137 A8 11630E 23:10:00:54:34 23:10:00:57:08 1241 2464 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61696.46	61664.30	61725.93	.07
RALT	59.37	44.00	83.00	2.03
TC	950.58	611.00	2413.00	79.66
K	73.51	27.00	202.00	15.46

UR	26.25	11.00	53.00	8.01
TH	26.16	9.00	59.00	9.53
COS	44.32	30.00	59.00	9.44
YAW	71.30	67.60	74.80	.49
VNS	18.75	14.88	24.16	1.78
VEW	64.65	59.42	78.61	.66

2052 3 01138 A8 11620E 23:10:01:00:40 23:10:01:03:12 2465 3672 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61696.95	61672.33	61725.68	.07
RALT	60.28	46.00	115.00	1.99
TC	951.84	599.00	2541.00	61.53
K	73.68	32.00	242.00	14.01
UR	25.60	9.00	59.00	7.71
TH	25.89	10.00	80.00	7.73
COS	43.32	27.00	61.00	13.45
YAW	71.05	68.00	74.40	.41
VNS	19.14	13.68	23.85	2.00
VEW	65.54	60.00	69.21	.60

2052 3 01139 A8 11610E 23:10:01:06:48 23:10:01:09:16 3673 4848 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61695.98	61672.79	61724.47	.06
RALT	59.52	50.00	120.00	1.87
TC	1065.75	564.00	2541.00	72.02
K	83.61	35.00	226.00	16.44
UR	28.22	11.00	62.00	7.60
TH	28.87	6.00	72.00	7.62
COS	43.79	31.00	60.00	9.29
YAW	71.01	68.30	75.00	.43
VNS	18.66	13.74	24.70	1.64
VEW	65.28	59.36	70.10	.55

2052 3 01140 A8 11600E 23:10:01:12:49 23:10:01:15:13 4849 5992 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61697.44	61674.76	61725.40	.07
RALT	59.88	50.00	72.00	1.74
TC	966.87	544.00	2506.00	57.20
K	74.59	30.00	227.00	12.78
UR	25.81	14.00	49.00	7.38
TH	26.40	6.00	86.00	10.91
COS	43.67	28.00	68.00	9.63
YAW	71.39	67.50	74.80	.50
VNS	18.87	14.95	25.93	2.57
VEW	65.75	59.74	71.47	.83

2052 3 01141 A8 11590E 23:10:01:18:39 23:10:01:21:08 5993 7176 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61696.54	61672.72	61724.57	.07
RALT	58.34	50.00	69.00	1.65
TC	874.30	581.00	1666.00	61.88
K	67.74	33.00	127.00	13.97
UR	24.44	10.00	46.00	6.61
TH	23.60	8.00	57.00	8.24
COS	43.93	26.00	66.00	11.09
YAW	70.56	63.60	73.60	.47
VNS	19.03	15.65	23.83	1.84
VEW	65.50	58.96	73.46	.65

2052 3 01142 A8 11580E 23:10:01:24:45 23:10:01:27:15 1 1192 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61695.97	61671.11	61723.19	.07
RALT	57.82	47.00	68.00	1.75
TC	907.19	590.00	1687.00	56.02
K	70.54	33.00	132.00	13.25
UR	24.87	10.00	63.00	7.36

TH	24.41	9.00	55.00	7.45
COS	44.26	29.00	65.00	8.11
YAW	70.52	62.60	75.10	.63
VNS	19.06	13.94	25.86	1.85
VEW	65.03	58.54	69.79	.75

2052 3 01143 A8 11570E 23:10:01:30:46 23:10:01:33:10 1193 2344 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61694.87	61671.24	61720.57	.07
RALT	59.19	51.00	75.00	1.37
TC	938.50	620.00	2458.00	49.48
K	74.50	43.00	226.00	14.50
UR	24.90	12.00	58.00	8.35
TH	25.60	10.00	74.00	8.08
COS	44.38	28.00	60.00	10.78
YAW	70.91	68.00	75.40	.54
VNS	18.77	13.58	25.77	1.98
VEW	65.58	59.17	71.01	.66

2052 3 01144 A8 11560E 23:10:01:36:46 23:10:01:39:14 2345 3528 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61692.65	61667.79	61719.34	.07
RALT	56.95	47.00	74.00	1.68
TC	928.64	607.00	1933.00	59.82
K	75.24	35.00	174.00	11.38
UR	23.97	10.00	48.00	8.45
TH	24.64	9.00	66.00	7.48
COS	43.27	29.00	61.00	11.34
YAW	70.83	67.20	73.70	.53
VNS	18.67	15.52	24.12	1.92
VEW	64.82	58.82	69.71	.62

2052 3 01145 A8 11550E 23:10:01:42:40 23:10:01:45:05 3529 4688 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61692.60	61669.38	61717.64	.07
RALT	56.83	44.00	70.00	1.77
TC	940.26	619.00	1475.00	46.33
K	75.81	35.00	141.00	9.78
UR	24.10	12.00	46.00	8.17
TH	25.20	6.00	55.00	8.13
COS	43.80	26.00	64.00	9.41
YAW	70.66	67.30	74.80	.48
VNS	18.96	15.61	26.89	1.86
VEW	65.09	58.44	71.48	.91

2052 3 01146 A8 11540E 23:10:01:48:47 23:10:01:51:14 4689 5864 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61690.70	61667.07	61716.04	.07
RALT	57.93	49.00	67.00	1.74
TC	932.82	569.00	1720.00	68.19
K	74.31	34.00	171.00	13.66
UR	24.43	11.00	49.00	6.91
TH	24.18	9.00	53.00	7.06
COS	43.80	30.00	71.00	9.25
YAW	70.10	66.80	73.20	.57
VNS	18.82	15.09	23.03	1.70
VEW	64.45	60.06	69.99	.58

2052 3 01147 A8 11530E 23:10:01:54:50 23:10:01:57:09 5865 6976 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61688.63	61667.73	61712.45	.07
RALT	58.39	43.00	67.00	1.84
TC	902.71	585.00	1936.00	65.29
K	69.31	30.00	173.00	12.71
UR	24.42	11.00	53.00	6.72
TH	24.03	9.00	60.00	6.49

COS	43.83	26.00	59.00	11.78
YAW	70.02	66.60	74.60	.43
VNS	19.26	12.67	24.52	1.44
VEW	65.23	60.27	71.86	.62

2052 3 01148 A8 11520E 23:10:02:00:46 23:10:02:03:12 6977 8144 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61689.89	61666.70	61715.48	.06
RALT	61.21	47.00	86.00	1.83
TC	918.03	623.00	1743.00	50.25
K	69.88	37.00	158.00	13.03
UR	24.81	12.00	48.00	8.72
TH	24.32	10.00	53.00	6.40
COS	44.01	26.00	66.00	10.05
YAW	69.90	65.80	74.60	.60
VNS	18.17	13.42	22.49	1.99
VEW	64.49	55.27	70.88	.72

2052 3 01149 A8 11510E 23:10:02:06:38 23:10:02:08:58 1 1120 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61688.01	61662.47	61715.66	.07
RALT	59.35	49.00	71.00	1.88
TC	1079.81	635.00	2781.00	67.99
K	84.76	42.00	238.00	12.40
UR	28.34	12.00	64.00	8.11
TH	30.19	9.00	93.00	8.68
COS	43.91	28.00	62.00	11.71
YAW	70.26	66.80	75.10	.69
VNS	18.23	14.88	22.69	1.82
VEW	65.23	60.75	70.07	.57

2052 3 01150 A8 11500E 23:10:02:12:23 23:10:02:14:44 1121 2248 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61686.92	61661.59	61711.38	.07
RALT	60.09	51.00	69.00	1.55
TC	1213.64	692.00	2373.00	79.90
K	96.28	46.00	219.00	16.55
UR	30.67	9.00	56.00	7.26
TH	33.45	11.00	76.00	9.19
COS	43.68	27.00	67.00	10.93
YAW	70.00	67.90	74.40	.48
VNS	18.74	15.22	22.27	1.42
VEW	65.57	59.88	71.23	.75

LINE NO. 11490E - HAS BEEN SCRUBBED -#####

2052 3 01152 A8 11491E 23:10:02:20:05 23:10:02:22:27 2473 3608 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61687.06	61659.51	61711.38	.07
RALT	58.85	50.00	70.00	1.82
TC	1344.51	744.00	2442.00	71.58
K	107.75	49.00	219.00	12.48
UR	32.67	11.00	59.00	11.64
TH	38.03	12.00	83.00	10.03
COS	44.96	29.00	62.00	10.20
YAW	70.75	65.70	75.30	.54
VNS	18.57	15.10	24.09	1.53
VEW	65.97	60.58	71.87	.70

2052 3 01153 A8 11480E 23:10:02:25:40 23:10:02:27:54 3609 4680 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61684.94	61659.22	61708.23	.07
RALT	58.79	52.00	70.00	1.30
TC	1529.10	727.00	2855.00	89.69
K	125.03	49.00	292.00	20.86
UR	37.01	16.00	75.00	11.24

COS	44.17	29.00	64.00	10.13
YAW	71.72	68.80	74.80	.54
VNS	19.20	15.22	25.08	2.24
VEW	67.51	62.70	72.12	.80

2052 3 01159 A8 11420E 23:10:02:58:28 23:10:03:00:39 2089 3136 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61680.05	61658.88	61703.81	.07
RALT	57.53	49.00	63.00	1.69
TC	1463.05	705.00	2387.00	71.66
K	118.96	45.00	216.00	17.25
UR	36.05	14.00	73.00	8.81
TH	40.31	12.00	84.00	10.15
COS	43.80	25.00	62.00	9.53
YAW	71.57	68.40	74.80	.45
VNS	18.63	14.06	26.66	1.77
VEW	65.26	60.26	69.79	.79

2052 3 01160 A8 11410E 23:10:03:03:58 23:10:03:06:09 3137 4184 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61684.55	61661.88	61706.48	.07
RALT	56.98	46.00	65.00	1.50
TC	1434.86	732.00	2911.00	77.03
K	115.14	51.00	269.00	21.35
UR	34.68	9.00	61.00	8.37
TH	39.31	14.00	92.00	9.47
COS	43.60	32.00	60.00	9.18
YAW	71.72	69.20	74.40	.51
VNS	18.51	15.79	23.46	1.60
VEW	65.94	62.46	71.10	.67

2052 3 01161 A8 11400E 23:10:03:09:20 23:10:03:11:34 4185 5256 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61681.97	61659.19	61706.80	.07
RALT	57.78	50.00	67.00	1.42
TC	1330.19	701.00	2839.00	62.74
K	109.21	47.00	259.00	15.82
UR	32.28	10.00	66.00	9.38
TH	35.84	13.00	99.00	9.41
COS	42.93	26.00	60.00	12.40
YAW	71.76	67.00	79.70	.55
VNS	17.82	7.59	21.37	1.58
VEW	65.16	58.25	72.09	.78

2052 3 01162 A8 11390E 23:10:03:14:37 23:10:03:16:50 5257 6320 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61682.00	61660.45	61706.17	.06
RALT	57.65	48.00	67.00	1.35
TC	1251.31	667.00	2631.00	66.24
K	101.91	48.00	226.00	16.23
UR	30.54	11.00	66.00	8.07
TH	33.88	12.00	85.00	8.53
COS	44.30	27.00	60.00	9.57
YAW	71.08	67.80	74.70	.52
VNS	18.68	15.31	24.82	1.82
VEW	64.48	58.25	69.53	.61

2052 3 01163 A8 11380E 23:10:03:20:09 23:10:03:22:21 6321 7376 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61681.59	61658.17	61704.76	.07
RALT	57.83	48.00	67.00	1.45
TC	1233.06	653.00	2615.00	66.89
K	101.02	41.00	226.00	18.08
UR	30.02	6.00	71.00	9.01
TH	34.20	12.00	86.00	9.47
COS	43.17	27.00	68.00	10.20

TH	43.08	12.00	90.00	12.32
COS	43.43	27.00	60.00	9.81
YAW	71.02	66.40	75.30	.74
VNS	18.95	14.96	24.47	1.95
VEW	65.96	60.44	71.24	.60

2052 3 01154 A8 11470E 23:10:02:31:10 23:10:02:33:22 4681 5736 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61683.37	61660.00	61706.60	.07
RALT	61.89	55.00	69.00	1.18
TC	1538.32	702.00	2612.00	97.84
K	124.45	52.00	235.00	20.13
UR	36.74	14.00	73.00	10.17
TH	44.87	15.00	94.00	8.85
COS	44.83	29.00	64.00	10.38
YAW	70.67	67.30	73.20	.68
VNS	19.72	15.95	28.74	2.38
VEW	66.26	61.24	70.37	.86

2052 3 01155 A8 11460E 23:10:02:36:36 23:10:02:38:52 5737 6824 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61683.96	61659.83	61706.84	.07
RALT	59.23	52.00	70.00	1.51
TC	1493.09	691.00	2179.00	84.73
K	119.97	58.00	181.00	16.63
UR	36.07	10.00	70.00	9.20
TH	41.38	12.00	84.00	11.49
COS	43.86	25.00	65.00	13.44
YAW	71.24	67.40	74.60	.62
VNS	19.50	15.95	25.41	1.95
VEW	66.25	62.06	71.72	.81

2052 3 01156 A8 11450E 23:10:02:42:08 23:10:02:44:23 6825 7904 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61682.09	61658.52	61705.61	.07
RALT	59.10	51.00	70.00	1.73
TC	1536.28	704.00	2411.00	62.94
K	122.79	58.00	234.00	16.06
UR	36.92	14.00	61.00	7.09
TH	43.84	10.00	82.00	7.52
COS	44.03	26.00	64.00	9.99
YAW	72.21	67.70	74.60	.52
VNS	18.76	15.38	23.75	2.18
VEW	66.14	61.49	71.17	.64

2052 3 01157 A8 11440E 23:10:02:47:41 23:10:02:49:52 1 1048 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61681.03	61659.10	61706.34	.07
RALT	59.89	53.00	67.00	1.47
TC	1436.73	738.00	2554.00	79.94
K	115.84	43.00	232.00	18.16
UR	35.11	13.00	65.00	9.16
TH	40.29	10.00	91.00	9.17
COS	42.93	24.00	66.00	10.40
YAW	72.31	69.60	75.40	.52
VNS	18.65	14.65	24.04	1.88
VEW	66.81	62.21	70.49	.67

2052 3 01158 A8 11430E 23:10:02:53:11 23:10:02:55:21 1049 2088 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61679.83	61657.67	61703.87	.07
RALT	60.48	51.00	68.00	1.82
TC	1396.22	719.00	2326.00	64.32
K	113.44	46.00	206.00	17.49
UR	33.38	13.00	59.00	8.70
TH	38.56	9.00	74.00	9.60

YAW	70.68	59.10	74.90	.59
VNS	19.64	14.24	32.31	1.84
VEW	66.18	60.05	71.25	.82

2052 3 01164 A8 11370E 23:10:03:25:39 23:10:03:27:57 1 1104 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61681.71	61657.63	61704.59	.07
RALT	58.09	50.00	65.00	1.55
TC	1204.01	669.00	2547.00	66.84
K	99.51	52.00	238.00	15.82
UR	30.21	11.00	65.00	7.47
TH	32.80	12.00	75.00	8.36
COS	43.91	28.00	58.00	10.32
YAW	71.44	66.10	74.20	.53
VNS	18.60	14.27	23.27	1.67
VEW	65.22	59.84	71.49	.73

2052 3 01165 A8 11360E 23:10:03:31:09 23:10:03:33:23 1105 2176 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61680.63	61658.72	61707.70	.07
RALT	59.68	50.00	69.00	1.58
TC	1217.93	678.00	2237.00	71.89
K	97.95	42.00	196.00	17.11
UR	29.63	14.00	59.00	8.71
TH	33.57	14.00	71.00	8.98
COS	43.51	27.00	60.00	8.30
YAW	71.85	69.40	75.00	.45
VNS	18.31	14.30	23.45	2.06
VEW	65.68	60.26	70.58	.81

2052 3 01166 A8 11350E 23:10:03:36:43 23:10:03:38:59 2177 3264 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61682.38	61659.17	61712.52	.06
RALT	58.42	48.00	70.00	1.81
TC	1263.52	713.00	2286.00	56.20
K	103.88	48.00	194.00	16.00
UR	30.36	12.00	63.00	8.20
TH	34.67	10.00	79.00	8.28
COS	44.66	29.00	64.00	12.02
YAW	71.76	70.00	75.10	.36
VNS	18.55	13.45	24.79	2.21
VEW	66.48	61.33	71.95	.66

2052 3 01167 A8 11340E 23:10:03:42:09 23:10:03:44:20 3265 4312 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61680.39	61657.75	61710.74	.07
RALT	60.05	48.00	72.00	1.73
TC	1309.41	717.00	2323.00	76.42
K	110.76	49.00	223.00	22.31
UR	30.75	12.00	66.00	8.15
TH	34.83	9.00	75.00	9.22
COS	44.58	25.00	64.00	9.99
YAW	71.41	67.90	74.40	.55
VNS	18.86	14.78	25.03	2.11
VEW	66.60	61.09	71.98	.78

2052 3 01168 A8 11330E 23:10:03:47:28 23:10:03:49:37 4313 5344 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61679.67	61657.93	61707.58	.07
RALT	58.40	52.00	75.00	1.50
TC	1286.54	766.00	2443.00	66.66
K	105.84	46.00	233.00	17.88
UR	31.19	12.00	59.00	6.38
TH	34.03	10.00	74.00	11.71
COS	43.41	26.00	62.00	11.25
YAW	71.09	68.00	73.90	.45

VNS	18.77	15.68	23.88	1.73
VEW	65.90	59.54	70.50	.72

2052 3 01169 A8 11320E 23:10:03:52:51 23:10:03:55:03 5345 6400 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61681.01	61657.69	61707.10	.07
RALT	58.77	49.00	69.00	1.89
TC	1301.67	746.00	2219.00	68.84
K	107.37	53.00	183.00	13.48
UR	30.49	10.00	56.00	7.00
TH	35.36	12.00	79.00	8.51
COS	44.11	28.00	63.00	10.58
YAW	70.79	69.10	74.00	.42
VNS	19.15	15.60	23.21	1.55
VEW	66.80	59.65	71.61	.62

2052 3 01170 A8 11310E 23:10:03:58:25 23:10:04:00:31 6401 7408 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61680.98	61659.01	61706.32	.07
RALT	60.45	52.00	72.00	1.77
TC	1422.45	725.00	2496.00	74.07
K	121.72	57.00	218.00	23.18
UR	33.50	7.00	62.00	8.85
TH	39.45	13.00	84.00	10.05
COS	43.67	26.00	63.00	12.17
YAW	70.95	67.90	73.40	.43
VNS	19.34	15.95	25.10	2.19
VEW	66.72	61.92	71.09	.77

2052 3 01171 A8 11300E 23:10:04:03:39 23:10:04:05:45 1 1008 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61680.76	61657.42	61712.44	.07
RALT	58.17	48.00	80.00	1.75
TC	1417.73	710.00	2356.00	79.14
K	124.63	59.00	236.00	15.52
UR	31.54	8.00	55.00	6.65
TH	36.79	13.00	70.00	6.75
COS	44.68	27.00	60.00	10.41
YAW	71.00	68.70	73.70	.39
VNS	18.53	15.44	22.57	1.95
VEW	66.78	62.44	71.70	.68

2052 3 01172 A8 11290E 23:10:04:08:53 23:10:04:10:59 1009 2016 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61676.26	61653.18	61709.26	.07
RALT	59.01	52.00	70.00	1.98
TC	1339.63	780.00	2814.00	72.22
K	117.00	58.00	282.00	15.91
UR	31.10	13.00	65.00	9.54
TH	33.90	11.00	82.00	11.60
COS	44.54	29.00	63.00	10.67
YAW	71.56	68.20	73.80	.43
VNS	18.38	15.39	22.70	1.92
VEW	66.94	62.01	71.71	.79

2052 3 01173 A8 11280E 23:10:04:14:05 23:10:04:16:14 2017 3048 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61677.49	61654.89	61712.23	.06
RALT	60.36	51.00	70.00	1.51
TC	1313.50	746.00	3000.00	98.42
K	117.20	50.00	337.00	17.09
UR	30.22	12.00	59.00	9.63
TH	34.30	11.00	78.00	8.71
COS	44.12	26.00	61.00	10.72
YAW	71.55	67.30	75.20	.46
VNS	18.39	15.12	25.03	1.73

VEW	66.09	61.16	71.54	.64

2052 3 01174 A8 11270E 23:10:04:19:24 23:10:04:21:27 3049 4032 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61676.77	61655.65	61715.74	.07
RALT	57.74	49.00	71.00	1.64
TC	1298.54	749.00	2636.00	83.02
K	117.32	56.00	268.00	17.97
UR	29.06	11.00	62.00	9.02
TH	32.91	9.00	91.00	11.17
COS	44.39	29.00	59.00	11.18
YAW	71.27	68.70	73.60	.39
VNS	18.79	15.33	25.66	2.51
VEW	67.02	62.59	70.68	.82

2052 3 01175 A8 11260E 23:10:04:24:38 23:10:04:26:43 4033 5032 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61677.50	61657.45	61714.67	.07
RALT	58.58	50.00	73.00	1.64
TC	1132.31	738.00	2082.00	70.97
K	103.12	59.00	191.00	14.43
UR	26.57	7.00	49.00	7.52
TH	27.11	10.00	61.00	7.82
COS	44.80	31.00	61.00	10.34
YAW	71.16	69.00	74.00	.38
VNS	18.97	14.77	23,50	1.79
VEW	67.40	62.45	72.13	.62

2052 3 01176 A8 11250E 23:10:04:29:51 23:10:04:31:53 5033 6008 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61680.19	61659.90	61711.63	.07
RALT	58.91	50.00	78.00	1.87
TC	1065.57	726.00	2385.00	75.04
K	95.33	57.00	215.00	16.07
UR	23.93	11.00	51.00	8.23
TH	25.79	10.00	74.00	8.64
COS	43.18	29.00	60.00	9.21
YAW	71.54	68.60	72.90	.52
VNS	18.26	13.45	22.58	1.91
VEW	67.83	63.70	70.79	.62

2052 3 01177 A8 11240E 23:10:04:34:58 23:10:04:36:57 6009 6960 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61681.20	61661.55	61707.08	.07
RALT	56.85	48.00	66.00	1.37
TC	1117.35	721.00	2121.00	81.10
K	102.14	50.00	207.00	17.18
UR	24.97	11.00	48.00	8.13
TH	26.88	11.00	74.00	7.78
COS	45.17	31.00	66.00	8.80
YAW	71.54	69.10	73.70	.45
VNS	18.37	14.70	21.30	1.46
VEW	68.28	64.41	70.78	.68

2052 3 01178 A8 11230E 23:10:04:40:13 23:10:04:42:09 6961 7888 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61683.42	61663.45	61707.36	.07
RALT	59.19	51.00	81.00	1.50
TC	1146.38	810.00	2028.00	78.75
K	102.66	59.00	180.00	17.96
UR	25.48	13.00	50.00	7.72
TH	27.11	10.00	67.00	10.53
COS	43.82	30.00	61.00	9.80
YAW	71.55	68.90	74.20	.48
VNS	18.93	15.29	23.82	1.88
VEW	68.32	64.07	71.74	.82

2052 3 01179 A8 11220E 23:10:04:45:11 23:10:04:47:07 1 928 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61683.44	61664.32	61704.84	.07
RALT	59.04	50.00	69.00	1.53
TC	1238.25	843.00	2324.00	65.84
K	113.53	61.00	221.00	13.91
UR	26.72	8.00	54.00	8.59
TH	31.33	10.00	80.00	9.87
COS	44.16	29.00	67.00	9.49
YAW	72.84	70.70	75.70	.48
VNS	17.82	13.56	21.77	1.56
VEW	68.31	64.68	71.96	.74

2052 3 01180 A8 11210E 23:10:04:50:06 23:10:04:52:07 929 1896 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61680.89	61660.97	61702.85	.07
RALT	58.61	49.00	77.00	1.30
TC	1409.55	873.00	2581.00	81.36
K	125.14	64.00	240.00	17.40
UR	32.30	9.00	61.00	8.03
TH	36.92	12.00	84.00	11.19
COS	43.52	33.00	60.00	8.86
YAW	72.40	69.10	76.10	.53
VNS	18.39	13.24	23.18	2.00
VEW	67.55	64.53	70.75	.64

LINE NO. 11200E - HAS BEEN SCRUBBED -#####

2052 3 01182 A8 11190E 23:10:05:00:28 23:10:05:02:29 2881 3848 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61676.10	61657.03	61694.86	.07
RALT	56.96	49.00	65.00	1.41
TC	1309.42	814.00	2238.00	76.27
K	117.31	69.00	216.00	21.42
UR	29.71	15.00	60.00	9.66
TH	33.89	10.00	72.00	8.61
COS	43.75	29.00	59.00	8.94
YAW	72.30	69.30	74.40	.43
VNS	18.29	12.94	23.75	2.09
VEW	67.59	64.46	69.85	.83

2052 3 01183 A8 11180E 23:10:05:05:28 23:10:05:07:26 3849 4792 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61675.98	61658.54	61695.75	.07
RALT	57.08	45.00	68.00	1.39
TC	1396.34	860.00	2555.00	90.06
K	123.11	54.00	266.00	17.35
UR	32.55	12.00	58.00	10.07
TH	36.25	11.00	74.00	10.82
COS	44.75	26.00	60.00	8.03
YAW	72.24	69.60	77.80	.51
VNS	17.73	4.78	25.21	1.56
VEW	66.54	63.61	68.94	.75

2052 3 02001 A8 11170E 23:10:05:10:34 23:10:05:12:30 4793 5720 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61674.35	61657.77	61690.46	.07
RALT	57.82	45.00	70.00	1.14
TC	1351.19	826.00	2305.00	71.41
K	117.52	56.00	206.00	12.60
UR	31.13	14.00	59.00	8.71
TH	35.37	12.00	79.00	9.26
COS	42.94	23.00	60.00	11.77
YAW	71.48	67.80	76.60	.46
VNS	18.63	11.02	23.69	1.84

VEW	67.36	64.94	69.62	.68

2052 3 02002 A8 11160E 23:10:05:15:33 23:10:05:17:30 5721 6656 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61674.11	61658.64	61689.33	.07
RALT	58.35	54.00	68.00	1.10
TC	1239.36	845.00	2187.00	67.54
K	110.86	63.00	204.00	14.80
UR	28.27	11.00	55.00	6.66
TH	32.51	9.00	74.00	9.95
COS	43.68	32.00	62.00	10.45
YAW	71.57	67.90	81.30	.51
VNS	18.36	7.03	24.62	1.98
VEW	66.78	63.66	69.10	.68

2052 3 02003 A8 11150E 23:10:05:20:28 23:10:05:22:30 6657 7632 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61674.75	61659.79	61690.07	.07
RALT	58.33	48.00	72.00	1.32
TC	1207.86	753.00	2331.00	63.78
K	109.44	60.00	202.00	19.82
UR	27.31	14.00	54.00	7.34
TH	30.59	13.00	73.00	8.40
COS	44.60	26.00	62.00	9.58
YAW	71.89	68.20	78.00	.40
VNS	18.03	13.19	24.23	1.98
VEW	65.94	61.98	68.18	.61

2052 3 02004 A8 11140E 23:10:05:25:38 23:10:05:27:39 1 968 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61675.17	61659.61	61691.02	.07
RALT	58.45	44.00	72.00	1.60
TC	1150.54	859.00	1998.00	62.67
K	105.88	62.00	179.00	16.29
UR	25.45	12.00	58.00	9.37
TH	27.22	9.00	62.00	7.31
COS	43.83	27.00	60.00	9.07
YAW	71.51	69.20	74.80	.50
VNS	18.77	15.19	25.03	2.01
VEW	66.52	62.21	69.66	.83

2052 3 02005 A8 11130E 23:10:05:30:23 23:10:05:32:17 969 1880 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61675.87	61662.18	61689.11	.07
RALT	56.80	38.00	64.00	1.49
TC	1076.61	860.00	1921.00	55.65
K	103.18	67.00	184.00	15.26
UR	23.79	12.00	40.00	5.68
TH	25.26	5.00	59.00	6.78
COS	44.10	28.00	67.00	8.80
YAW	72.15	65.90	74.30	.46
VNS	17.91	13.16	22.68	2.15
VEW	65.65	63.45	67.98	.50

2052 3 02006 A8 11120E 23:10:05:35:07 23:10:05:37:01 1881 2792 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61676.32	61662.96	61690.82	.07
RALT	57.43	47.00	65.00	1.32
TC	1019.78	844.00	1441.00	58.16
K	97.00	65.00	131.00	18.32
UR	23.06	9.00	38.00	7.35
TH	22.86	10.00	41.00	6.88
COS	43.62	29.00	66.00	11.00
YAW	71.61	68.60	74.40	.52
VNS	18.96	11.70	26.26	1.89
VEW	66.68	63.94	68.96	.94

2052 3 02007 A8 11110E 23:10:05:39:56 23:10:05:41:50 2793 3704 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61675.38	61661.05	61689.26	.07
RALT	56.58	44.00	67.00	1.35
TC	987.82	787.00	1755.00	70.24
K	94.74	62.00	155.00	15.89
UR	21.91	10.00	42.00	7.32
TH	21.36	10.00	59.00	8.47
COS	44.58	27.00	61.00	8.11
YAW	71.83	68.00	74.90	.37
VNS	19.05	14.10	25.02	1.82
VEW	66.25	63.75	67.95	.78

2052 3 02008 A8 11100E 23:10:05:44:44 23:10:05:46:41 3705 4640 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61674.31	61660.52	61687.48	.07
RALT	58.48	43.00	70.00	1.68
TC	987.38	762.00	1389.00	57.79
K	97.39	63.00	146.00	14.19
UR	22.36	12.00	47.00	8.91
TH	20.86	10.00	38.00	6.33
COS	44.59	29.00	59.00	11.70
YAW	72.27	69.80	74.10	.43
VNS	18.39	15.34	23.11	1.84
VEW	65.47	62.96	68.19	.76

2052 3 02009 A8 11090E 23:10:05:49:22 23:10:05:51:16 4641 5552 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61673.95	61661.35	61685.99	.07
RALT	58.54	49.00	72.00	1.56
TC	968.15	688.00	1267.00	58.64
K	95.63	39.00	142.00	12.75
UR	21.25	11.00	38.00	7.45
TH	19.92	7.00	32.00	8.05
COS	43.11	25.00	61.00	9.57
YAW	72.03	69.40	73.80	.40
VNS	18.14	12.75	22.83	1.76
VEW	65.28	63.09	68.81	.68

2052 3 02010 A8 11080E 23:10:05:53:58 23:10:05:55:50 5553 6448 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61673.18	61660.19	61684.70	.07
RALT	57.31	47.00	66.00	1.23
TC	999.20	763.00	1561.00	50.96
K	100.63	56.00	150.00	16.18
UR	21.97	10.00	38.00	9.42
TH	21.85	8.00	49.00	7.12
COS	44.96	31.00	63.00	10.42
YAW	72.53	68.50	74.40	.53
VNS	18.42	15.96	23.83	2.33
VEW	65.60	62.58	68.66	.90

2052 3 02011 A8 11070E 23:10:05:58:29 23:10:06:00:20 6449 7336 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61671.72	61658.14	61683.26	.07
RALT	57.53	47.00	68.00	1.39
TC	989.62	586.00	1796.00	46.82
K	97.98	38.00	151.00	14.68
UR	22.41	12.00	52.00	6.70
TH	20.84	11.00	56.00	5.21
COS	43.75	32.00	61.00	9.72
YAW	72.75	70.00	75.80	.48
VNS	17.71	12.93	22.96	1.68
VEW	65.80	62.43	69.09	.82

2052 3 02012 A8 C16090E 23:10:06:02:27 23:10:06:03:42 1 600 .13 61700
POST-FLIGHT HIGH LEVEL BACKGROUND

	MEAN	MIN	MAX	STD.
TC	345.81	298.00	398.00	29.26
K	25.19	13.00	36.00	6.46
UR	12.49	4.00	20.00	5.48
TH	10.31	4.00	18.00	4.41
COS	44.04	27.00	57.00	8.66

2052 3 02013 A8 C16080E 23:10:06:04:38 23:10:06:06:17 601 1392 .13 61700
POST-FLIGHT TEST LINE

	MEAN	MIN	MAX	STD.
MAGTS	61613.17	61497.65	61685.36	.07
RALT	55.51	49.00	61.00	1.03
TC	876.26	716.00	1029.00	37.90
K	78.81	55.00	106.00	11.88
UR	20.62	11.00	33.00	6.23
TH	19.43	10.00	30.00	6.33
COS	44.56	30.00	60.00	8.01
YAW	73.24	62.20	83.20	.75
VNS	15.73	6.84	25.88	2.00
VEW	63.51	58.48	69.78	.94

LINE NO. 16070E - HAS BEEN SCRUBBED -#####

2052 3 02015 A8 C16010E 23:10:06:34:50 23:10:06:36:30 1 800 .13 61700
POST-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2595.84	2463.00	2739.00	72.75
K	258.08	225.00	308.00	27.92
UR	61.53	41.00	79.00	13.58
TH	71.75	57.00	94.00	14.18
COS	48.25	31.00	63.00	13.45

2052 3 02016 A8 C16020E 23:10:06:38:20 23:10:06:39:37 801 1416 .13 61700
POST-FLIGHT URANIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	9190.06	8943.00	9464.00	164.67
K	564.74	510.00	632.00	29.94
UR	432.39	372.00	477.00	30.66
TH	93.70	68.00	118.00	14.52
COS	51.30	35.00	65.00	9.42

2052 3 02017 A8 C16030E 23:10:06:40:17 23:10:06:41:57 1417 2216 .13 61700
POST-FLIGHT THORIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	11188.25	10926.00	11424.00	173.91
K	512.74	465.00	571.00	27.46
UR	229.52	200.00	269.00	23.37
TH	684.51	617.00	748.00	41.17
COS	85.26	68.00	125.00	12.02

2052 3 02018 A8 C16040E 23:10:06:42:22 23:10:06:43:14 2217 2632 .13 61700
POST-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2616.00	2501.00	2733.00	79.23
K	258.96	210.00	309.00	27.77
UR	60.21	45.00	73.00	10.71
TH	68.29	46.00	92.00	17.78
COS	46.92	29.00	62.00	8.21

2052 6 02019 A8 C25010E 25:10:01:25:54 25:10:01:27:34 1 800 .13 61700
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2562.39	2425.00	2676.00	85.67
K	250.76	207.00	296.00	25.98

UR	58.89	41.00	80.00	12.23
TH	65.70	41.00	86.00	14.12
COS	45.76	26.00	61.00	9.88

2052 6 02020 A8 C25020E 25:10:01:28:41 25:10:01:30:21 801 1600 .13 61700
PRE-FLIGHT URANIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	9115.57	8917.00	9353.00	150.07
K	556.57	496.00	611.00	33.64
UR	425.05	377.00	476.00	32.40
TH	89.32	68.00	113.00	11.79
COS	48.66	35.00	71.00	9.44

2052 6 02021 A8 C25030E 25:10:01:32:48 25:10:01:34:28 1601 2400 .13 61700
PRE-FLIGHT THORIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	11297.33	11019.00	11610.00	198.76
K	514.24	448.00	590.00	29.82
UR	223.57	183.00	268.00	20.53
TH	678.14	608.00	749.00	43.97
COS	82.49	63.00	114.00	17.78

2052 6 02022 A8 C25040E 25:10:01:34:56 25:10:01:35:46 2401 2800 .13 61700
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2544.30	2413.00	2713.00	77.51
K	249.76	214.00	283.00	21.04
UR	59.18	41.00	78.00	14.87
TH	66.26	43.00	83.00	14.10
COS	44.32	28.00	64.00	12.20

LINE NO. 29000E - HAS BEEN SCRUBBED -#####

2052 4 02024 A8 C25090E 25:10:02:47:17 25:10:02:48:58 3169 3968 .13 61700
PRE-FLIGHT HIGH LEVEL BACKGROUND

	MEAN	MIN	MAX	STD.
TC	352.72	301.00	428.00	28.97
K	23.89	14.00	34.00	7.24
UR	14.21	6.00	23.00	5.24
TH	10.35	4.00	18.00	4.93
COS	46.18	34.00	68.00	10.94

2052 4 02025 A8 C25100E 25:10:02:51:16 25:10:02:52:54 3969 4744 .13 61700
PRE-FLIGHT HIGH LEVEL BACKGROUND

	MEAN	MIN	MAX	STD.
TC	856.42	693.00	1104.00	38.88
K	77.76	50.00	102.00	9.38
UR	21.30	12.00	32.00	7.46
TH	19.14	10.00	28.00	5.45
COS	40.89	25.00	69.00	11.56

LINE NO. 11200E - HAS BEEN SCRUBBED -#####

STEP AT N = 74 , FID = 74 IN THE VEW CHANNEL
2052 4 02027 A8 11202E 25:10:03:00:50 25:10:03:02:59 193 1216 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61674.63	61657.11	61695.27	.07
RALT	57.27	40.00	66.00	2.52
TC	1331.06	799.00	2276.00	60.53
K	118.88	61.00	211.00	13.47
UR	30.06	11.00	60.00	8.13
TH	32.83	11.00	77.00	10.52
COS	40.47	27.00	58.00	11.32
YAW	71.55	67.50	76.70	.57
VNS	8.37	-2.28	23.17	3.80
VEW	29.41	.68	68.58	4.45

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POSSIBLE SPIKE AT N =     8 , FID =  1224 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    14 , FID =  1230 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    20 , FID =  1236 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    26 , FID =  1242 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    32 , FID =  1248 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    40 , FID =  1256 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    46 , FID =  1262 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    52 , FID =  1268 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    58 , FID =  1274 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    64 , FID =  1280 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    72 , FID =  1288 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    79 , FID =  1295 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    85 , FID =  1301 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    91 , FID =  1307 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    97 , FID =  1313 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   103 , FID =  1319 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   109 , FID =  1325 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   116 , FID =  1332 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   122 , FID =  1338 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   169 , FID =  1385 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   178 , FID =  1394 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   185 , FID =  1401 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   191 , FID =  1407 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   198 , FID =  1414 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   206 , FID =  1422 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   215 , FID =  1431 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =   221 , FID =  1437 IN THE MAGTS CHANNEL
2052 4 02028 A8  30010N  25:10:03:17:06 25:10:03:18:18  1217  1792  .13 61700
                          MEAN          MIN          MAX          STD.
MAGTS                  51920.26     20708.86     61804.76       673.95
RALT                      86.57        51.00       200.00         4.66
TC                      1925.28      1015.00      2615.00        69.92
K                        147.24        62.00       223.00        18.53
UR                        46.81        22.00        70.00        10.27
TH                        56.46        26.00       100.00        11.11
COS                       47.69        31.00        70.00        12.48
YAW                      323.08       319.20       327.80          .51
VNS                       67.39        58.56        76.88         1.86
VEW                      -51.64       -58.70       -44.65         2.17

POSSIBLE SPIKE AT N =    72 , FID =  1864 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    78 , FID =  1870 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    86 , FID =  1878 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =    92 , FID =  1884 IN THE MAGTS CHANNEL
2052 4 02029 A8  30020N  25:10:03:22:59 25:10:03:24:08  1793  2344  .13 61700
                          MEAN          MIN          MAX          STD.
MAGTS                  59391.27     20969.53     61798.38       891.01
RALT                     146.17        82.00       223.00         7.60
TC                      1454.80       841.00      2303.00        71.72
K                        104.81        54.00       191.00        10.21
UR                        38.35        22.00        62.00         7.96
TH                        41.68        20.00        67.00         8.19
COS                       49.06        35.00        65.00         7.65
YAW                      322.32       320.20       324.80          .29
VNS                       60.38        55.72        63.97         1.14
VEW                      -49.52       -56.16       -45.41         2.32

POSSIBLE SPIKE AT N =   282 , FID =   282 IN THE RALT CHANNEL
2052 4 02030 A8  20070E  25:10:03:40:00 25:10:03:49:24  2345  6856  .13 61700
                          MEAN          MIN          MAX          STD.
MAGTS                  61842.96     61753.07     62059.79         .06
RALT                     102.27        51.00       302.00         6.18
TC                      1797.48       886.00      4103.00        66.65
K                        138.84        52.00       352.00        18.42
UR                        44.68        20.00       110.00        10.24
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TH	48.70	17.00	121.00	11.03
COS	56.15	33.00	81.00	12.91
YAW	39.50	21.40	46.40	.50
VNS	51.05	37.41	70.85	1.69
VEW	43.37	26.27	58.91	1.65

2052 4 02031 A8 20080E 25:10:04:00:55 25:10:04:05:18 6857 8960 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61893.57	61794.33	62209.76	.06
RALT	90.97	24.00	151.00	4.84
TC	1947.74	977.00	2669.00	69.31
K	149.57	51.00	244.00	21.33
UR	47.36	23.00	75.00	10.31
TH	55.41	19.00	94.00	10.22
COS	52.44	36.00	71.00	10.50
YAW	58.27	6.60	356.70	12.74
VNS	40.33	28.06	54.05	1.86
VEW	51.40	-22.91	64.80	1.04

POSSIBLE SPIKE AT N = 234 , FID = 234 IN THE RALT CHANNEL
STEP AT N = 301 , FID = 301 IN THE RALT CHANNEL
2052 4 02032 A8 20081E 25:10:04:07:16 25:10:04:16:36 1 4480 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61817.84	61740.61	61880.80	.07
RALT	117.19	58.00	292.00	6.37
TC	1505.08	785.00	2552.00	65.29
K	113.23	42.00	234.00	17.38
UR	39.27	17.00	69.00	10.57
TH	39.78	13.00	75.00	10.63
COS	55.99	34.00	82.00	11.17
YAW	53.47	38.20	68.60	.47
VNS	42.67	24.31	68.54	2.13
VEW	57.21	38.11	72.47	1.37

POSSIBLE SPIKE AT N = 3391 , FID = 7871 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 3397 , FID = 7877 IN THE MAGTS CHANNEL
FID No. - 7870 NEW MAG 61826.68 OLD MAG 61826.78 N = 3390
FID No. - 7871 NEW MAG 61826.68 OLD MAG 61826.78 N = 3391
FID No. - 7872 NEW MAG 61826.68 OLD MAG 61826.66 N = 3392
FID No. - 7873 NEW MAG 61826.68 OLD MAG 61826.54 N = 3393
FID No. - 7874 NEW MAG 61826.68 OLD MAG 61784.45 N = 3394
FID No. - 7875 NEW MAG 61826.68 OLD MAG 61771.20 N = 3395
FID No. - 7876 NEW MAG 61827.01 OLD MAG 61826.61 N = 3396
FID No. - 7876 NEW MAG 61826.68 OLD MAG 61826.61 N = 3396
POSSIBLE SPIKE AT N = 412 , FID = 412 IN THE RALT CHANNEL
N= 490 169.00 CHANGED TO 191.54 FID = 490 RALT
2052 4 02033 A8 20090E 25:10:04:29:09 25:10:04:38:24 4481 8920 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61857.52	61798.93	61919.45	.07
RALT	112.29	55.00	312.00	5.83
TC	1755.59	731.00	3115.00	70.17
K	129.31	45.00	263.00	17.24
UR	44.61	16.00	87.00	10.54
TH	51.79	9.00	102.00	11.68
COS	51.34	30.00	94.00	11.84
YAW	59.98	45.30	76.60	.60
VNS	36.62	12.91	52.27	2.04
VEW	63.60	42.11	85.13	1.18

POSSIBLE SPIKE AT N = 3143 , FID = 3143 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 3149 , FID = 3149 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 3155 , FID = 3155 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 3162 , FID = 3162 IN THE MAGTS CHANNEL
FID No. - 3143 NEW MAG 61782.55 OLD MAG 61782.44 N = 3143
FID No. - 3144 NEW MAG 61782.55 OLD MAG 61782.15 N = 3144
FID No. - 3144 NEW MAG 61782.22 OLD MAG 61782.55 N = 3144

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FID No. -  3145  NEW MAG    61781.89  OLD MAG    61781.91  N =  3145
FID No. -  3146  NEW MAG    61781.89  OLD MAG    61781.43  N =  3146
FID No. -  3146  NEW MAG    61781.56  OLD MAG    61781.43  N =  3146
FID No. -  3147  NEW MAG    61781.23  OLD MAG    59091.73  N =  3147
FID No. -  3148  NEW MAG    61780.90  OLD MAG    32375.90  N =  3148
FID No. -  3149  NEW MAG    61780.57  OLD MAG    21663.54  N =  3149
FID No. -  3150  NEW MAG    61780.24  OLD MAG    21404.33  N =  3150
FID No. -  3151  NEW MAG    61779.91  OLD MAG    21424.28  N =  3151
FID No. -  3152  NEW MAG    61779.58  OLD MAG    21213.71  N =  3152
FID No. -  3153  NEW MAG    61779.25  OLD MAG    21289.57  N =  3153
FID No. -  3154  NEW MAG    61778.92  OLD MAG    21436.07  N =  3154
FID No. -  3155  NEW MAG    61778.59  OLD MAG    21598.19  N =  3155
FID No. -  3156  NEW MAG    61778.26  OLD MAG    21353.57  N =  3156
FID No. -  3157  NEW MAG    61777.93  OLD MAG    21364.82  N =  3157
FID No. -  3158  NEW MAG    61777.27  OLD MAG    21438.10  N =  3158
FID No. -  3159  NEW MAG    61776.94  OLD MAG    21522.81  N =  3159
FID No. -  3160  NEW MAG    61776.61  OLD MAG    21515.32  N =  3160
FID No. -  3161  NEW MAG    61776.28  OLD MAG    21671.31  N =  3161
FID No. -  3162  NEW MAG    61775.95  OLD MAG    23955.73  N =  3162
FID No. -  3163  NEW MAG    61775.62  OLD MAG    44917.78  N =  3163
FID No. -  3164  NEW MAG    61775.29  OLD MAG    61771.69  N =  3164
FID No. -  3165  NEW MAG    61774.96  OLD MAG    61774.85  N =  3165
FID No. -  3166  NEW MAG    61774.63  OLD MAG    61774.70  N =  3166
STEP  AT N =   272 , FID =   272 IN THE RALT CHANNEL
STEP  AT N =   326 , FID =   326 IN THE RALT CHANNEL
N=   392        183.00 CHANGED TO      156.11  FID =   392  RALT
2052 4 02034 A8  20091E  25:10:04:44:51 25:10:04:53:58     1  4376  .13 61700
                          MEAN          MIN          MAX          STD.
MAGTS                  61807.63     61734.49     61864.75          .07
RALT                      97.32        52.00       227.00         5.76
TC                      1659.95       400.00      3396.00        67.64
K                        122.83        16.00       279.00        17.96
UR                        42.20         9.00        91.00        10.07
TH                        48.57         2.00       108.00         9.75
COS                       46.85        27.00        74.00        11.42
YAW                       52.25        39.20        69.30          .53
VNS                       44.14        26.30        62.90         2.15
VEW                       56.78        42.53        78.41         1.44

STEP  AT N =   364 , FID =   364 IN THE RALT CHANNEL
POSSIBLE SPIKE AT N =   473 , FID =   473 IN THE RALT CHANNEL
POSSIBLE SPIKE AT N =   567 , FID =   567 IN THE RALT CHANNEL
2052 4 02035 A8  20100E  25:10:05:11:57 25:10:05:23:46  4377 10048  .13 61700
                          MEAN          MIN          MAX          STD.
MAGTS                  61852.93     61752.98     61991.18          .07
RALT                      87.50        48.00       155.00         5.27
TC                      1740.96       659.00      3037.00        66.02
K                        131.90        35.00       263.00        18.83
UR                        43.45        12.00        87.00         9.62
TH                        51.09        13.00        96.00        11.38
COS                       47.95        25.00        80.00        11.00
YAW                       45.15        27.90        55.60          .49
VNS                       51.03        36.80        68.81         1.79
VEW                       50.06        32.68        64.62         1.44

POSSIBLE SPIKE AT N =   519 , FID =   519 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =  1824 , FID =  1824 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =  1830 , FID =  1830 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =  1836 , FID =  1836 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =  1842 , FID =  1842 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =  4961 , FID =  4961 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =  4967 , FID =  4967 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N =  4973 , FID =  4973 IN THE MAGTS CHANNEL
FID No. -   520  NEW MAG    61965.84  OLD MAG    61965.92  N =   520
FID No. -   521  NEW MAG    61965.84  OLD MAG    61965.93  N =   521
FID No. -   522  NEW MAG    61965.84  OLD MAG    61922.57  N =   522
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FID No. -   523  NEW MAG    61965.84  OLD MAG    61957.95  N =   523
FID No. -   524  NEW MAG    61965.84  OLD MAG    61965.80  N =   524
FID No. -   525  NEW MAG    61965.84  OLD MAG    61965.89  N =   525
FID No. -  1826  NEW MAG    61946.29  OLD MAG    61946.13  N =  1826
FID No. -  1827  NEW MAG    61946.29  OLD MAG    61945.84  N =  1827
FID No. -  1828  NEW MAG    61946.29  OLD MAG    60709.51  N =  1828
FID No. -  1829  NEW MAG    61946.29  OLD MAG    36551.46  N =  1829
FID No. -  1830  NEW MAG    61946.29  OLD MAG    22050.86  N =  1830
FID No. -  1831  NEW MAG    61945.96  OLD MAG    21376.67  N =  1831
FID No. -  1832  NEW MAG    61945.96  OLD MAG    21594.33  N =  1832
FID No. -  1833  NEW MAG    61945.96  OLD MAG    21719.14  N =  1833
FID No. -  1834  NEW MAG    61945.96  OLD MAG    21498.90  N =  1834
FID No. -  1835  NEW MAG    61945.96  OLD MAG    21626.65  N =  1835
FID No. -  1836  NEW MAG    61945.63  OLD MAG    21639.83  N =  1836
FID No. -  1837  NEW MAG    61945.63  OLD MAG    29064.55  N =  1837
FID No. -  1838  NEW MAG    61945.63  OLD MAG    56853.25  N =  1838
FID No. -  1839  NEW MAG    61945.30  OLD MAG    61944.72  N =  1839
FID No. -  1840  NEW MAG    61944.97  OLD MAG    61944.94  N =  1840
FID No. -  4962  NEW MAG    61831.71  OLD MAG    61821.79  N =  4962
FID No. -  4963  NEW MAG    61832.04  OLD MAG    49587.32  N =  4963
FID No. -  4964  NEW MAG    61832.70  OLD MAG    27410.33  N =  4964
FID No. -  4965  NEW MAG    61833.36  OLD MAG    21429.66  N =  4965
FID No. -  4966  NEW MAG    61834.02  OLD MAG    21473.06  N =  4966
FID No. -  4967  NEW MAG    61834.68  OLD MAG    21596.04  N =  4967
FID No. -  4968  NEW MAG    61835.34  OLD MAG    22995.93  N =  4968
FID No. -  4969  NEW MAG    61836.00  OLD MAG    47445.69  N =  4969
FID No. -  4970  NEW MAG    61836.99  OLD MAG    61837.23  N =  4970


POSSIBLE SPIKE AT N =   216 , FID =   216 IN THE RALT CHANNEL
POSSIBLE SPIKE AT N =   668 , FID =   668 IN THE RALT CHANNEL
POSSIBLE SPIKE AT N =   668 , FID =   668 IN THE RALT CHANNEL
2052 4 02036 A8  20110E  25:10:05:41:50 25:10:05:55:35     1  6600  .13 61700
                          MEAN          MIN          MAX          STD.
MAGTS                  61898.87     61727.59     62171.00          .07
RALT                      93.26        54.00       222.00         5.06
TC                      1818.75       367.00      6384.00        72.40
K                        138.55        24.00       474.00        18.37
UR                        45.33        13.00       188.00        11.53
TH                        51.41         6.00       192.00        11.67
COS                       50.13        26.00        82.00        11.59
YAW                       48.70        39.90        55.60          .51
VNS                       46.60        35.59        63.03         2.04
VEW                       52.20        37.02        64.29         1.55

2052 4 02037 A8 C26090E  25:10:06:18:45 25:10:06:20:25     1   800  .13 61700
POST-FLIGHT     HIGH LEVEL BACKGROUND
                          MEAN          MIN          MAX          STD.
TC                       359.84       311.00       408.00        22.03
K                         24.94        14.00        41.00         7.04
UR                        13.89         7.00        23.00         5.09
TH                         9.48         2.00        19.00         4.38
COS                       42.29        27.00        56.00        10.38

2052 4 02038 A8 C25080E  25:10:06:21:35 25:10:06:23:14   801  1592  .13 61700
PRE-FLIGHT      TEST LINE
                          MEAN          MIN          MAX          STD.
MAGTS                  61624.66     61507.74     61701.66          .07
RALT                      56.63        52.00        62.00         1.45
TC                       886.61       700.00      1089.00        36.56
K                         80.61        47.00       106.00        13.03
UR                        21.63        10.00        35.00         8.76
TH                        19.82        10.00        34.00         7.22
COS                       42.30        24.00        59.00         9.42
YAW                       71.78        61.80        79.50          .30
VNS                       17.31         7.64        27.89         1.62
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VEW	63.07	58.34	67.25	.53

LINE NO. 29000E - HAS BEEN SCRUBBED -#####

2052 4 02040 A8 C26010E 25:10:07:08:06 25:10:07:08:13 1 48 .13 61700
POST-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.

2052 4 02041 A8 C26021E 25:10:07:08:54 25:10:07:10:03 49 600 .13 61700
POST-FLIGHT URANIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	8698.94	8470.00	8938.00	120.96
K	502.46	460.00	564.00	40.90
UR	431.61	375.00	476.00	29.12
TH	75.12	61.00	92.00	8.87
COS	47.07	34.00	66.00	10.10

2052 4 02042 A8 C26030E 25:10:07:10:40 25:10:07:11:55 601 1200 .13 61700
POST-FLIGHT THORIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	10767.71	10499.00	11029.00	158.62
K	453.23	395.00	496.00	24.68
UR	209.40	161.00	257.00	23.96
TH	676.67	631.00	727.00	29.99
COS	84.48	53.00	112.00	24.25

2052 4 02043 A8 C26040E 25:10:07:12:21 25:10:07:13:36 1201 1800 .13 61700
POST-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2027.09	1911.00	2146.00	77.26
K	189.89	150.00	216.00	27.74
UR	47.41	26.00	70.00	12.84
TH	52.96	34.00	70.00	10.76
COS	46.20	31.00	69.00	12.30

2052 5 02044 A8 C25010E 25:10:21:25:17 25:10:21:27:23 1 1008 .13 61700
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2669.57	2555.00	2823.00	92.63
K	261.44	212.00	297.00	27.22
UR	65.13	52.00	87.00	10.31
TH	70.13	50.00	89.00	11.96
COS	45.20	30.00	63.00	13.56

2052 5 02045 A8 C25020E 25:10:21:28:41 25:10:21:30:48 1009 2024 .13 61700
PRE-FLIGHT URANIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	9287.65	9075.00	9494.00	149.75
K	568.87	487.00	642.00	38.04
UR	442.92	395.00	484.00	33.75
TH	93.00	62.00	122.00	13.41
COS	47.64	33.00	62.00	11.54

2052 5 02046 A8 C25030E 25:10:21:31:44 25:10:21:34:00 2025 3112 .13 61700
PRE-FLIGHT THORIUM SAMPLE

	MEAN	MIN	MAX	STD.
TC	11343.01	11065.00	11676.00	218.82
K	521.93	459.00	584.00	38.07
UR	228.21	195.00	282.00	23.70
TH	684.74	629.00	751.00	39.30
COS	83.61	65.00	110.00	14.80

2052 5 02047 A8 C25040E 25:10:21:34:55 25:10:21:36:47 3113 4008 .13 61700
PRE-FLIGHT BACKGROUND

	MEAN	MIN	MAX	STD.
TC	2658.51	2548.00	2797.00	76.20

K	259.91	213.00	300.00	18.65
UR	65.11	40.00	91.00	11.96
TH	68.99	50.00	93.00	12.74
COS	42.63	23.00	60.00	11.72

LINE NO. 29000E - HAS BEEN SCRUBBED -#####

2052 5 02049 A8 C25090E 25:10:22:31:42 25:10:22:33:22 4361 5160 .13 61700
PRE-FLIGHT HIGH LEVEL BACKGROUND

	MEAN	MIN	MAX	STD.
TC	379.78	320.00	421.00	29.96
K	24.82	15.00	40.00	8.26
UR	14.87	5.00	25.00	6.70
TH	10.83	5.00	17.00	4.79
COS	45.00	32.00	61.00	10.08

2052 5 02050 A8 C25080E 25:10:22:35:51 25:10:22:37:39 5161 6024 .13 61700
PRE-FLIGHT TEST LINE

	MEAN	MIN	MAX	STD.
MAGTS	61602.08	61480.40	61686.13	.06
RALT	57.89	53.00	62.00	1.20
TC	917.13	759.00	1120.00	43.42
K	80.78	49.00	113.00	16.18
UR	24.18	12.00	42.00	8.48
TH	20.07	7.00	35.00	5.85
COS	42.08	30.00	57.00	8.55
YAW	76.11	65.10	84.00	.59
VNS	.48	-2.91	3.67	4.30
VEW	2.07	.90	3.51	1.21

POSSIBLE SPIKE AT N = 278 , FID = 278 IN THE RALT CHANNEL
2052 5 02051 A8 20050E 25:10:23:00:29 25:10:23:11:43 1 5392 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61843.90	61772.77	62049.56	.06
RALT	110.10	52.00	270.00	5.90
TC	1570.61	837.00	3250.00	64.89
K	113.70	34.00	327.00	19.56
UR	42.05	18.00	85.00	10.74
TH	47.51	17.00	116.00	10.69
COS	46.02	23.00	71.00	11.61
YAW	64.15	56.80	74.10	.54
VNS	29.71	13.43	45.10	2.11
VEW	58.83	40.44	80.12	1.85

2052 5 02052 A8 20051E 25:10:23:14:03 25:10:23:17:18 5393 6952 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61777.86	61737.56	61827.93	.06
RALT	90.18	54.00	151.00	4.52
TC	1992.88	1184.00	3340.00	68.90
K	147.60	63.00	322.00	19.29
UR	52.16	26.00	88.00	11.59
TH	55.43	26.00	98.00	10.70
COS	44.99	26.00	62.00	11.99
YAW	68.14	63.00	72.50	.40
VNS	27.18	15.68	33.06	2.70
VEW	62.11	48.63	76.60	1.05

NOISEY DATA AT N = 1315 , FID = 1315 IN THE RALT CHANNEL
STEP AT N = 8 , FID = 8 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 15 , FID = 15 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 64 , FID = 64 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 80 , FID = 80 IN THE VNS CHANNEL
N= 100 33.74 CHANGED TO 29.24 FID = 100 VNS
POSSIBLE SPIKE AT N = 191 , FID = 191 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N = 199 , FID = 199 IN THE VNS CHANNEL
NOISEY DATA AT N = 209 , FID = 209 IN THE VNS CHANNEL

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N=   227        35.99 CHANGED TO       39.71  FID =    227  VNS
STEP  AT N =   252 , FID =   252 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   269 , FID =   269 IN THE VNS CHANNEL
NOISEY DATA AT N =   282 , FID =   282 IN THE VNS CHANNEL
NOISEY DATA AT N =   289 , FID =   289 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   307 , FID =   307 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   417 , FID =   417 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   427 , FID =   427 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   434 , FID =   434 IN THE VNS CHANNEL
N=   465        32.17 CHANGED TO       28.69  FID =    465  VNS
POSSIBLE SPIKE AT N =   472 , FID =   472 IN THE VNS CHANNEL
STEP  AT N =   527 , FID =   527 IN THE VNS CHANNEL
STEP  AT N =   581 , FID =   581 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   587 , FID =   587 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   642 , FID =   642 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   652 , FID =   652 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   666 , FID =   666 IN THE VNS CHANNEL
STEP  AT N =   676 , FID =   676 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   688 , FID =   688 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   744 , FID =   744 IN THE VNS CHANNEL
NOISEY DATA AT N =   754 , FID =   754 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   792 , FID =   792 IN THE VNS CHANNEL
N=   812        17.77 CHANGED TO       12.10  FID =    812  VNS
N=   820        15.43 CHANGED TO       19.06  FID =    820  VNS
N=   831        17.13 CHANGED TO       22.00  FID =    831  VNS
STEP  AT N =   891 , FID =   891 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   902 , FID =   902 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   930 , FID =   930 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =   990 , FID =   990 IN THE VNS CHANNEL
STEP  AT N =  1011 , FID =  1011 IN THE VNS CHANNEL
STEP  AT N =  1054 , FID =  1054 IN THE VNS CHANNEL
STEP  AT N =  1059 , FID =  1059 IN THE VNS CHANNEL
STEP  AT N =  1108 , FID =  1108 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =  1161 , FID =  1161 IN THE VNS CHANNEL
NOISEY DATA AT N =  1172 , FID =  1172 IN THE VNS CHANNEL
STEP  AT N =  1183 , FID =  1183 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =  1197 , FID =  1197 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =  1207 , FID =  1207 IN THE VNS CHANNEL
STEP  AT N =  1223 , FID =  1223 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =  1293 , FID =  1293 IN THE VNS CHANNEL
STEP  AT N =  1309 , FID =  1309 IN THE VNS CHANNEL
N=  1363        43.27 CHANGED TO       39.31  FID =   1363  VNS
STEP  AT N =  1395 , FID =  1395 IN THE VNS CHANNEL
STEP  AT N =  1415 , FID =  1415 IN THE VNS CHANNEL
STEP  AT N =  1435 , FID =  1435 IN THE VNS CHANNEL
STEP  AT N =  1451 , FID =  1451 IN THE VNS CHANNEL
STEP  AT N =  1465 , FID =  1465 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =  1524 , FID =  1524 IN THE VNS CHANNEL
N=  1536        48.00 CHANGED TO       43.39  FID =   1536  VNS
POSSIBLE SPIKE AT N =  1659 , FID =  1659 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =  1685 , FID =  1685 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =  1691 , FID =  1691 IN THE VNS CHANNEL
POSSIBLE SPIKE AT N =  1720 , FID =  1720 IN THE VNS CHANNEL
STEP  AT N =  1730 , FID =  1730 IN THE VNS CHANNEL
STEP  AT N =  1748 , FID =  1748 IN THE VNS CHANNEL
2052 5 02053 A8  20040E  25:10:23:37:46 26:10:00:07:01     1 14040  .13 61700
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	MEAN	MIN	MAX	STD.
MAGTS	61765.05	61527.22	62418.52	.06
RALT	83.61	52.00	190.00	3.95
TC	1598.44	386.00	3527.00	71.01
K	109.45	25.00	309.00	18.07
UR	44.76	12.00	105.00	10.67
TH	49.69	8.00	132.00	11.71
COS	43.65	25.00	70.00	10.92
YAW	60.73	49.00	81.80	.50
VNS	33.42	9.60	52.86	1.94

VEW	55.48	38.15	73.20	.97

POSSIBLE SPIKE AT N = 45 , FID = 45 IN THE RALT CHANNEL
STEP AT N = 630 , FID = 630 IN THE RALT CHANNEL
POSSIBLE SPIKE AT N = 45 , FID = 45 IN THE RALT CHANNEL
STEP AT N = 630 , FID = 630 IN THE RALT CHANNEL

2052 5 02054 A8 20030E 26:10:00:40:26 26:10:01:05:25 1 11992 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61838.92	61608.37	62324.40	.06
RALT	85.47	49.00	265.00	3.55
TC	1258.48	334.00	2754.00	57.52
K	83.42	13.00	260.00	15.27
UR	36.97	9.00	75.00	9.97
TH	39.24	5.00	102.00	9.90
COS	43.34	25.00	63.00	10.67
YAW	54.09	28.30	82.90	.55
VNS	37.67	8.59	63.50	1.80
VEW	50.77	28.89	70.58	1.29

2052 5 02055 A8 20031E 26:10:01:08:15 26:10:01:19:27 1 5368 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61620.13	61512.82	61765.84	.06
RALT	75.88	56.00	104.00	2.28
TC	1475.60	357.00	3368.00	67.20
K	98.06	21.00	298.00	17.67
UR	42.76	15.00	101.00	11.04
TH	45.35	4.00	103.00	10.62
COS	42.30	24.00	70.00	10.34
YAW	58.21	44.50	91.40	.57
VNS	36.48	-4.42	54.47	1.71
VEW	50.78	36.52	66.20	.91

POSSIBLE SPIKE AT N = 63 , FID = 63 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 69 , FID = 69 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 75 , FID = 75 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 81 , FID = 81 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 87 , FID = 87 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 93 , FID = 93 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 99 , FID = 99 IN THE MAGTS CHANNEL

POSSIBLE SPIKE AT N = 63 , FID = 63 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 69 , FID = 69 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 75 , FID = 75 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 81 , FID = 81 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 87 , FID = 87 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 93 , FID = 93 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 99 , FID = 99 IN THE MAGTS CHANNEL

2052 5 02056 A8 30012N 26:10:01:43:18 26:10:01:44:38 1 632 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	59944.93	20528.75	61801.24	456.21
RALT	97.22	53.00	194.00	3.91
TC	1734.28	1023.00	2471.00	58.85
K	130.44	62.00	204.00	21.33
UR	43.92	25.00	66.00	9.07
TH	51.35	22.00	89.00	11.70
COS	50.53	35.00	69.00	9.80
YAW	324.22	322.40	326.50	.55
VNS	67.24	57.70	74.26	.94
VEW	-51.19	-56.83	-40.48	2.08

2052 5 02057 A8 30021N 26:10:01:49:29 26:10:01:50:31 633 1128 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61788.97	61785.58	61804.90	.06
RALT	70.74	56.00	89.00	5.35
TC	2033.60	1359.00	2652.00	54.53
K	158.47	92.00	221.00	17.06
UR	50.61	26.00	72.00	11.74
TH	60.65	27.00	94.00	11.22

COS	47.19	31.00	66.00	6.80
YAW	325.16	321.20	330.50	.46
VNS	67.91	59.91	75.65	1.22
VEW	-50.96	-60.97	-41.78	1.58

2052 5 02058 A8 30030N 26:10:01:55:18 26:10:01:56:17 1129 1600 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61789.92	61786.43	61803.36	.07
RALT	66.85	44.00	98.00	7.97
TC	1796.08	1423.00	2433.00	64.63
K	140.19	95.00	189.00	19.42
UR	45.68	30.00	65.00	6.08
TH	52.68	30.00	88.00	10.76
COS	48.37	33.00	62.00	11.15
YAW	325.86	320.60	331.50	.64
VNS	67.56	62.55	74.27	1.03
VEW	-50.02	-62.39	-43.41	2.39

POSSIBLE SPIKE AT N = 22 , FID = 22 IN THE RALT CHANNEL
POSSIBLE SPIKE AT N = 22 , FID = 22 IN THE RALT CHANNEL

2052 5 02059 A8 30040N 26:10:02:01:04 26:10:02:02:08 1601 2112 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61788.22	61783.17	61798.41	.08
RALT	79.91	45.00	127.00	6.19
TC	1840.64	1426.00	2556.00	74.89
K	144.31	102.00	211.00	16.64
UR	46.33	24.00	67.00	8.36
TH	53.97	36.00	87.00	8.10
COS	49.33	37.00	65.00	5.89
YAW	324.85	320.30	327.90	.56
VNS	65.11	59.45	68.34	1.03
VEW	-51.33	-57.41	-45.34	2.17

2052 5 02060 A8 30050N 26:10:02:06:58 26:10:02:08:12 2113 2704 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61785.69	61780.84	61795.98	.07
RALT	93.69	45.00	145.00	7.22
TC	1751.23	1350.00	2127.00	80.89
K	134.97	85.00	181.00	17.69
UR	42.89	29.00	63.00	6.64
TH	49.88	30.00	74.00	11.19
COS	53.00	36.00	77.00	9.63
YAW	322.78	317.80	327.30	.59
VNS	58.89	49.31	65.16	1.04
VEW	-49.57	-58.53	-41.47	1.69

POSSIBLE SPIKE AT N = 440 , FID = 3144 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 446 , FID = 3150 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 452 , FID = 3156 IN THE MAGTS CHANNEL

FID No. - 3144	NEW MAG	61783.53	OLD MAG	61783.56	N =	440
FID No. - 3145	NEW MAG	61783.53	OLD MAG	61784.00	N =	441
FID No. - 3146	NEW MAG	61783.53	OLD MAG	61785.71	N =	442
FID No. - 3147	NEW MAG	61783.86	OLD MAG	61780.69	N =	443
FID No. - 3148	NEW MAG	61783.86	OLD MAG	60908.76	N =	444
FID No. - 3149	NEW MAG	61783.86	OLD MAG	58807.86	N =	445
FID No. - 3150	NEW MAG	61784.19	OLD MAG	49813.63	N =	446
FID No. - 3151	NEW MAG	61784.19	OLD MAG	40791.41	N =	447
FID No. - 3152	NEW MAG	61784.19	OLD MAG	43315.75	N =	448
FID No. - 3153	NEW MAG	61784.19	OLD MAG	60060.15	N =	449

N= 38 99.00 CHANGED TO 77.73 FID = 38 RALT

2052 5 02061 A8 30060N 26:10:02:13:14 26:10:02:14:34 2705 3344 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61783.98	61776.38	61795.15	.07
RALT	83.80	41.00	140.00	7.37
TC	1824.33	1507.00	2170.00	66.55
K	142.08	92.00	189.00	20.16
UR	44.44	27.00	59.00	10.91
TH	51.75	36.00	71.00	11.05
COS	52.29	34.00	68.00	12.32
YAW	321.99	315.60	326.40	.84
VNS	57.75	51.87	61.24	1.13
VEW				

POSSIBLE SPIKE AT N = 452 , FID = 3796 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 459 , FID = 3803 IN THE MAGTS CHANNEL
POSSIBLE SPIKE AT N = 466 , FID = 3810 IN THE MAGTS CHANNEL
FID No. - 3797 NEW MAG 61783.14 OLD MAG 61783.11 N = 453
FID No. - 3798 NEW MAG 61783.14 OLD MAG 61783.20 N = 454
FID No. - 3799 NEW MAG 61783.14 OLD MAG 61757.26 N = 455
FID No. - 3800 NEW MAG 61783.14 OLD MAG 57346.84 N = 456
FID No. - 3801 NEW MAG 61783.14 OLD MAG 39177.31 N = 457
FID No. - 3802 NEW MAG 61783.14 OLD MAG 23774.88 N = 458
FID No. - 3803 NEW MAG 61783.14 OLD MAG 21305.05 N = 459
FID No. - 3804 NEW MAG 61783.14 OLD MAG 21303.04 N = 460
FID No. - 3805 NEW MAG 61783.47 OLD MAG 21039.40 N = 461
FID No. - 3806 NEW MAG 61783.47 OLD MAG 21301.23 N = 462
FID No. - 3807 NEW MAG 61783.47 OLD MAG 21367.34 N = 463
FID No. - 3808 NEW MAG 61783.80 OLD MAG 21931.70 N = 464
FID No. - 3809 NEW MAG 61783.80 OLD MAG 28470.06 N = 465
FID No. - 3810 NEW MAG 61783.80 OLD MAG 58756.42 N = 466
FID No. - 3811 NEW MAG 61783.80 OLD MAG 61784.04 N = 467
FID No. - 3812 NEW MAG 61783.80 OLD MAG 61784.10 N = 468
FID No. - 3813 NEW MAG 61783.80 OLD MAG 61783.89 N = 469

2052 5 02062 A8 30070N 26:10:02:19:28 26:10:02:20:54 3345 4032 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61783.14	61775.95	61793.50	.07
RALT	101.15	48.00	148.00	6.22
TC	1655.83	1284.00	2118.00	62.29
K	126.85	80.00	174.00	15.99
UR	42.02	28.00	62.00	9.88
TH	47.65	27.00	66.00	10.93
COS	53.29	39.00	79.00	13.27
YAW	321.43	314.50	325.90	.78
VNS	54.29	49.45	59.73	.95
VEW	-49.39	-62.10	-41.16	1.65

2052 5 02063 A8 30080N 26:10:02:25:41 26:10:02:27:06 4033 4712 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61782.28	61776.14	61793.20	.07
RALT	99.19	50.00	150.00	5.09
TC	1594.93	1182.00	2133.00	64.77
K	121.51	75.00	195.00	19.40
UR	40.58	23.00	55.00	7.31
TH	43.67	25.00	64.00	9.80
COS	55.31	39.00	87.00	10.55
YAW	322.75	314.70	327.70	.57
VNS	54.64	50.41	59.14	.85
VEW	-48.45	-65.10	-39.79	1.81

2052 5 02064 A8 30090N 26:10:02:32:24 26:10:02:33:55 4713 5440 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61780.09	61762.26	61791.46	.06
RALT	87.10	44.00	152.00	5.05
TC	1497.10	885.00	2092.00	47.75
K	113.96	51.00	177.00	17.55
UR	39.05	16.00	55.00	11.84
TH	42.31	18.00	65.00	10.78
COS	55.52	39.00	78.00	13.54
YAW	324.03	321.10	326.70	.52
VNS	55.75	47.84	65.10	.85
VEW	-46.71	-60.16	-37.41	1.60

2052 5 02065 A8 30100N 26:10:02:38:10 26:10:02:39:38 5441 6144 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61780.79	61767.70	61790.52	.06
RALT	88.20	45.00	151.00	3.64
TC	1507.16	844.00	2245.00	76.29
K	113.89	50.00	192.00	12.42
UR	38.98	18.00	61.00	10.69
TH	44.49	16.00	71.00	10.79
COS	56.75	38.00	73.00	10.19
YAW	325.34	322.20	329.40	.57
VNS	[illegible]	[illegible]	[illegible]	.99

VEW	-46.34	-58.47	-39.75	1.44

2052 5 02066 A8 30110N 26:10:02:42:58 26:10:02:44:22 6145 6816 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61780.66	61767.07	61789.86	.06
RALT	97.05	49.00	192.00	3.79
TC	1486.51	813.00	2426.00	70.44
K	113.11	38.00	197.00	19.20
UR	36.92	18.00	61.00	10.00
TH	44.95	19.00	81.00	8.48
COS	57.77	37.00	82.00	12.89
YAW	323.00	319.10	327.20	.36
VNS	57.11	49.34	70.24	.88
VEW	-48.08	-60.69	-38.58	1.54

POSSIBLE SPIKE AT N = 24 , FID = 24 IN THE RALT CHANNEL
STEP AT N = 359 , FID = 359 IN THE RALT CHANNEL
POSSIBLE SPIKE AT N = 411 , FID = 411 IN THE RALT CHANNEL
POSSIBLE SPIKE AT N = 432 , FID = 432 IN THE RALT CHANNEL
POSSIBLE SPIKE AT N = 561 , FID = 561 IN THE RALT CHANNEL
POSSIBLE SPIKE AT N = 24 , FID = 24 IN THE RALT CHANNEL
POSSIBLE SPIKE AT N = 561 , FID = 561 IN THE RALT CHANNEL

2052 5 02067 A8 20101E 26:10:02:56:50 26:10:03:08:25 1 5560 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61829.06	61737.60	61935.37	.06
RALT	88.44	51.00	158.00	5.33
TC	1714.40	420.00	3281.00	68.45
K	131.90	30.00	309.00	19.70
UR	42.38	16.00	84.00	10.07
TH	51.43	13.00	103.00	12.06
COS	48.85	26.00	82.00	10.96
YAW	43.99	25.00	52.60	.45
VNS	51.42	38.35	70.94	1.87
VEW	50.15	28.04	66.05	1.47

2052 5 02068 A8 20071E 26:10:03:26:16 26:10:03:29:06 5561 6920 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61793.41	61781.25	61821.77	.06
RALT	122.36	58.00	287.00	5.57
TC	1410.71	784.00	2257.00	69.30
K	104.11	44.00	187.00	17.19
UR	37.01	15.00	61.00	9.11
TH	40.64	13.00	75.00	10.28
COS	57.19	32.00	82.00	11.81
YAW	31.18	24.80	37.00	.47
VNS	65.58	53.58	79.97	1.59
VEW	39.15	28.68	51.46	1.74

POSSIBLE SPIKE AT N = 391 , FID = 391 IN THE RALT CHANNEL

2052 5 02069 A8 20060E 26:10:03:42:32 26:10:03:52:25 1 4744 .13 61700

	MEAN	MIN	MAX	STD.
MAGTS	61837.74	61726.47	62147.42	.06
RALT	106.10	54.00	219.00	5.08
TC	1643.58	626.00	2774.00	62.79
K	125.71	35.00	242.00	18.24
UR	41.52	11.00	87.00	10.42
TH	47.29	8.00	99.00	9.83
COS	51.98	23.00	76.00	11.71
YAW	56.31	50.30	68.30	.49
VNS	37.80	24.80	49.45	1.97
VEW	58.32	41.33	77.78	1.28

FORMAT FOR LOCATED DATA TAPE

755119

Lab
NE Tas
Geophysics
(31+32(4))

:K1:GPS2:2052:?MT1_1.L

12-MAY-88 12:05:24 PAGE 1

job no. 2052
area name NE TASMANIA

multireel tapes are used with each reel terminated by an
end of file. the last reel is terminated by two end of files.

lines are not separated by end of files.

record length 132 bytes
block size 8184 bytes

record format

format	undefined	variable
i5	99999	line
i4	9999	flight
i6	999999	date
i6	999999	fiducial
f8.1	999999	time
i4	999	altitude
i1		recovery flag
f9.5	999	longitude
f9.5	999	latitude
f8.2	99999	raw magnetic intensity
f8.2	99999	diurnal
f8.2	99999	igrf
i1		final magnetic intensity flag
f8.2	99999	final magnetic intensity
i6	99999	raw total count
i5	9999	raw potassium
i4	9999	raw uranium
i4	9999	raw thorium
i3	999	raw cosmic
i1		final total count flag
i6	99999	final total count
i1		final potassium flag
i5	9999	final potassium
i1		final uranium flag
i5	9999	final uranium
i1		final thorium flag
i5	9999	final thorium

notes

final magnetic intensity corrections :
igrf 1985 model removed
diurnally levelled - base value 61775 nt
system parallax - 7.0 fiducials

central meridian - 147 degrees

final radiometric corrections :
compton stripped
altitude attenuated
system parallax - 7.0 fiducials

recovery flag
0 not used

030

2 recovery point

final variable flag
0 not used
1 used

:K1:GPS2:2052:?MT1_2.L

20020	5871026	1	15287.0	790146.70682-41.3036061851.1561779	3061975.56061641.70	984	86	25	18	430	6120	240	160	18		
20020	5871026	2	15287.1	800146.70691-41.3035761850.3361779	3061975.54061641.91	984	83	26	20	450	6110	200	160	19		
20020	5871026	3	15287.2	810146.70699-41.3035361849.3461779	3061975.51061642.07	984	80	28	21	480	6190	190	170	20		
20020	5871026	4	15287.4	830146.70706-41.3034861848.4161779	3061975.48061642.22	984	77	29	23	500	6360	220	170	20		
20020	5871026	5	15287.5	840146.70715-41.3034461847.8161779	3161975.45061642.44	983	73	30	25	520	6530	250	170	19		
20020	5871026	6	15287.6	850146.70723-41.3033961847.3061779	3161975.42061642.96	983	70	31	26	540	6690	280	180	19		
20020	5871026	7	15287.8	860146.70732-41.3033461846.7061779	3161975.39061643.75	983	67	33	28	560	6860	310	180	18		
20020	5871026	8	15287.9	880146.70740-41.3033061846.3661779	3161975.36061644.34	983	64	34	29	590	7020	350	180	18		
20020	5871026	9	15288.0	890146.70749-41.3032761846.5561779	3161975.34061644.86	983	61	35	31	610	7180	380	190	17		
20020	5871026	10	15288.1	900146.70757-41.3032261846.7161779	3161975.31061645.83	995	64	35	30	600	7330	410	190	17		
20020	5871026	11	15288.3	900146.70764-41.3031861846.8161779	3261975.28061646.73	1007	67	35	30	590	7440	430	190	17		
20020	5871026	12	15288.4	910146.70773-41.3031361847.0361779	3261975.25061647.26	1019	70	35	29	580	7510	450	180	18		
20020	5871026	13	15288.5	910146.70781-41.3030961847.5361779	3261975.22061647.73	1031	73	35	28	560	7580	480	180	18		
20020	5871026	14	15288.6	910146.70790-41.3030461848.2461779	3261975.19061648.76	1043	75	35	28	550	7640	500	170	19		
20020	5871026	15	15288.8	920146.70798-41.3029961848.8061779	3261975.16061649.60	1055	78	35	27	540	7710	520	170	20		
20020	5871026	16	15288.9	930146.70805-41.3029661849.2961779	3261975.14061649.57	1067	81	35	27	530	7780	540	160	21		
20020	5871026	17	15289.0	930146.70815-41.3029261850.2861779	3261975.11061649.72	1079	84	35	26	520	7850	560	160	21		
20020	5871026	18	15289.1	920146.70822-41.3028761851.1261779	3361975.08061650.38	1084	86	35	27	510	7920	580	150	22		
20020	5871026	19	15289.2	920146.70831-41.3028361851.6061779	3361975.05061650.77	1088	88	34	27	510	8080	610	150	23		
20020	5871026	20	15289.4	910146.70839-41.3027861852.0861779	3361975.02061650.12	1092	90	34	28	500	8320	630	140	25		
20020	5871026	21	15289.5	910146.70848-41.3027361853.0861779	3361974.99061649.21	1097	91	33	28	490	8560	660	140	26		
20020	5871026	22	15289.6	900146.70856-41.3026961853.8961779	3361974.96061648.86	1102	93	33	29	480	8810	690	140	27		
20020	5871026	23	15289.8	890146.70863-41.3026461853.8461779	3361974.93061648.39	1106	95	33	30	480	9060	710	130	29		
20020	5871026	24	15289.9	890146.70872-41.3026061853.9661779	3461974.90061646.67	1110	97	32	30	470	9320	740	130	30		
20020	5871026	25	15290.0	880146.70880-41.3025561854.5961779	3461974.88061644.76	1115	99	32	31	460	9590	770	130	32		
20020	5871026	26	15290.1	890146.70889-41.3025261854.9261779	3461974.85061643.29	1136	101	32	32	460	9870	800	120	33		
20020	5871026	27	15290.3	900146.70897-41.3024761854.2361779	3461974.82061642.26	1156	104	32	33	450	10120	840	120	34		
20020	5871026	28	15290.4	910146.70905-41.3024361853.3461779	3461974.79061640.04	1177	106	32	35	450	10330	880	120	34		
20020	5871026	29	15290.5	910146.70914-41.3023861852.9861779	3461974.76061637.50	1197	109	31	36	450	10560	930	120	34		
20020	5871026	30	15290.6	920146.70921-41.3023461852.4661779	3461974.73061636.15	1217	111	31	37	440	10780	990	120	34		
20020	5871026	31	15290.7	930146.70930-41.3022961850.7861779	3461974.70061635.06	1238	113	31	38	440	11010	1040	120	34		
20020	5871026	32	15290.9	940146.70938-41.3022561848.8461779	3561974.68061633.15	1258	116	31	40	430	11250	1090	120	34		
20020	5871026	33	15291.0	950146.70947-41.3022061847.3061779	3561974.64061630.93	1279	118	31	41	430	11480	1140	120	34		
20020	5871026	34	15291.1	960146.70955-41.3021561846.2861779	3561974.62061630.14	1293	122	31	41	430	11720	1200	120	34		
20020	5871026	35	15291.3	980146.70963-41.3021161844.0361779	3561974.59061629.74	1308	126	31	41	430	11790	1210	120	33		
20020	5871026	36	15291.4	990146.70972-41.3020861841.4461779	3661974.56061628.46	1322	130	31	40	430	11720	1180	130	33		
20020	5871026	37	15291.5	1000146.70979-41.3020361840.0561779	3661974.54061626.86	1336	134	31	40	430	11630	1140	130	32		
20020	5871026	38	15291.6	1010146.70988-41.3019961838.9161779	3661974.50061626.82	1350	138	30	40	440	11540	1110	130	31		
20020	5871026	39	15291.7	1030146.70996-41.3019461836.9961779	3661974.48061627.72	1364	142	30	40	440	11440	1070	140	31		
20020	5871026	40	15291.9	1040146.71004-41.3019061834.7661779	3661974.45061626.75	1379	146	30	39	440	11330	1040	140	30		
20020	5871026	41	15292.0	1050146.71013-41.3018561833.9661779	3661974.42061625.47	1393	150	30	39	440	11220	1000	150	29		
20020	5871026	42	15292.1	1060146.71021-41.3018061833.4761779	3661974.39061625.81	1382	147	30	38	450	11100	960	150	28		
20020	5871026	43	15292.3	1070146.71030-41.3017661832.1861779	3661974.36061626.72	1371	143	31	38	460	11040	940	150	27		
20020	5871026	44	15292.4	1080146.71037-41.3017161830.5661779	3661974.33061626.62	1360	140	31	37	470	11040	930	160	26		
20020	5871026	45	15292.5	1100146.71046-41.3016861830.5261779	3761974.30061626.08	1349	137	31	36	480	11050	920	170	25		
20020	5871026	46	15292.6	1110146.71054-41.3016461831.3861779	3761974.28061626.30	1338	133	31	36	500	11050	910	170	24		
20020	5871026	47	15292.7	1120146.71062-41.3015961830.3561779	3761974.25061627.77	1327	130	31	35	510	11050	900	180	23		
20020	5871026	48	15292.9	1130146.71071-41.3015461829.0761779	3761974.21061628.23	1316	126	32	35	520	11060	900	180	22		
20020	5871026	49	15293.0	1140146.71078-41.3015061829.3661779	3761974.19061628.20	1305	123	32	34	530	11070	890	190	20		
20020	5871026	50	15293.1	1130146.71088-41.3014561830.2861779	3861974.16061628.86	1304	122	32	33	530	11080	880	190	19		
20020	5871026	51	15293.3	1120146.71095-41.3014161830.1561779	3861974.13061629.88	1304	121	33	32	540	11160	870	190	19		
20020	5871026	52	15293.4	1110146.71103-41.3013861829.5661779	3861974.11061630.41	1304	120	33	31	550	11310	860	190	20		
20020	5871026	53	15293.5	1100146.71112-41.3013361829.7661779	3861974.08061630.50	1303	119	33	30	550	11460	860	180	20		
20020	5871026	54	15293.6	1090146.71120-41.3012861831.1761779	3861974.05061630.84	1302	119	33	29	560	11630	850	180	21		
20020	5871026	55	15293.7	1080146.71129-41.3012461831.6261779	3861974.02061631.06	1302	118	33	28	560	11800	850	170	22		
20020	5871026	56	15293.9	1070146.71136-41.3011961831.5461779	3861973.99061630.90	1302	117	34	27	560	11990	840	160	23		
20020	5871026	57	15294.0	1060146.71146-41.3011561832.1661779	3961973.96061631.18	1301	116	34	26	570	12180	840	160	23		
20020	5871026	58	15294.1	1080146.71153-41.3011261833.1661779	3961973.94061631.21	1302	114	33	26	540	12380	830	150	24		
20020	5871026	59	15294.3	1090146.71161-41.3010761833.7161779	3961973.91061630.54	1302	113	33	26	500	12560	840	160	25		
20020	5871026	60	15294.4	1110146.71170-41.3010361833.7861779	3961973.87061630.32	1302	111	32	26	470	12710	860	170	24		

TASMANIA

INDEX TO 1:250,000 GEOLOGICAL SERIES

Published by the Department of Mines
G.P.O. Box 124B HOBART, TASMANIA

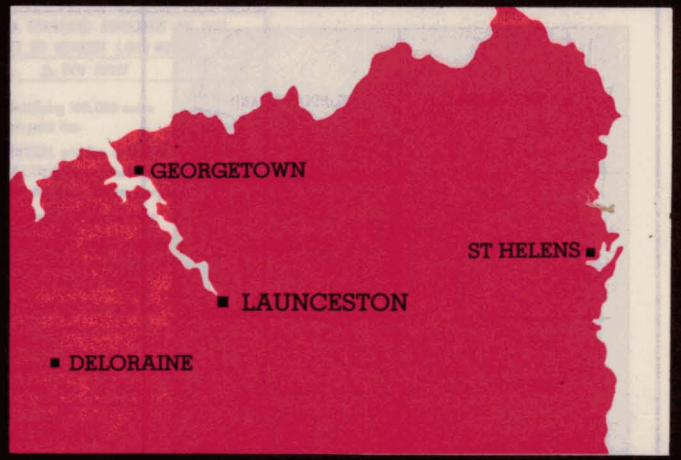
APPENDIX 5

TASMANIA DEPARTMENT OF MINES

GEOLOGICAL ATLAS 1:250,000 SERIES

SK 55–4

LAUNCESTON



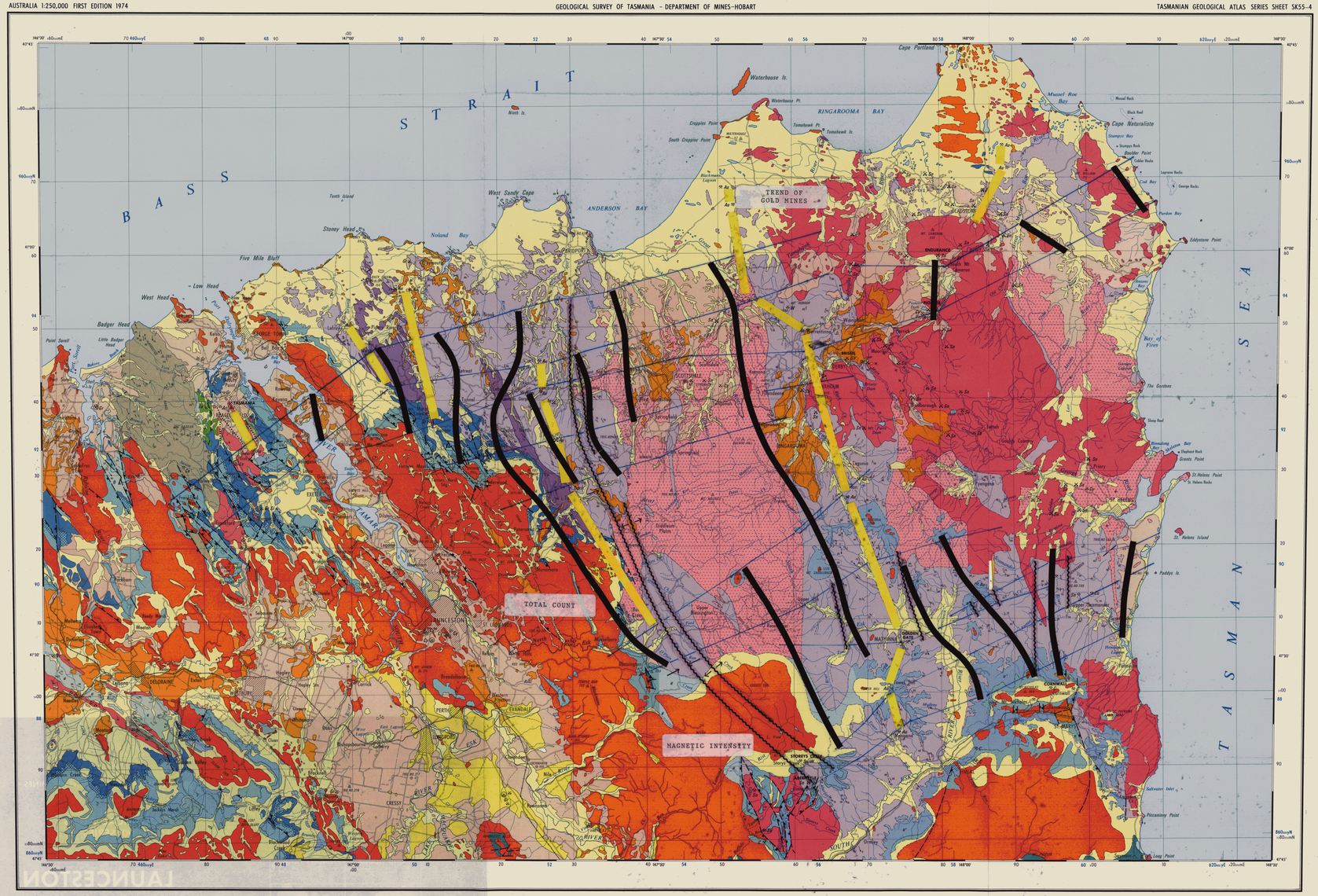
FIRST EDITION 1975

LAUNCESTON

AUSTRALIA 1:250,000 FIRST EDITION 1974

GEOLOGICAL SURVEY OF TASMANIA – DEPARTMENT OF MINES–HOBART

TASMANIAN GEOLOGICAL ATLAS SERIES SHEET SK55–4



COMPREHENSIVE REFERENCE FOR TASMANIA

HOLOCENE
PLEISTOCENE
Alluvium, sand, gravel and talus.
Till, fluvioglacial, periglacial and associated deposits

Erosional surface.

TERTIARY
Non-marine sequences (light); marine limestone (dark); basalt and related igneous rock types (orange).

Low angle unconformity.

TRIASSIC
PERMIAN
CARBONIFEROUS
Fluvio-lacustrine sequences of sandstone, siltstone, mudstone (light) with carbonaceous sequences indicated (dark).
Fresh water sequence with some coal measures.
Upper glacio-marine sequence of pebbly mudstone, pebbly sandstone and limestone.
Fresh water sequence with some coal measures.
Lower glacio-marine sequence of pebbly mudstone, pebbly sandstone, minor limestone, Tasmanite oil shale and basal tillite.

UPPER
PARMEENER SUPER GROUP
LOWER

WESTERN TASMANIA

UPPER–MIDDLE DEVONIAN
Terrestrial covers tillites.
EUGENANA BEDS

LOWER DEVONIAN–SILURIAN
Unconformity attributed to Tabberabberan Orogeny.

ORDOVICIAN
Some quartzwacke sequences (dark) and siltstone-shale sequences (light) indicated; Devonian limestone-siltstone (horizontally lined over-print).
ELDON GROUP AND CORRELATES; SPERO BAY GROUP

Limestone sequence with siltstone in some areas.
JUNEE GROUP AND CORRELATES

Siliceous terrestrial conglomerate, marine quartzwacke and siltstone.

Unconformity in northern Tasmania and parts of western Tasmania attributed to Cambrian movements; apparent conformity in Adamsfield region and parts of western Tasmania.

CAMBRIAN
Middle-Upper Cambrian fossiliferous usually greywacke turbidite sequences (horizontally lined over-print); acid with intermediate volcanic and associated rocks dominant (dark), and horizon with fossiliferous Upper Cambrian shallow water deposits (vertically lined over-print); basic-intermediate volcanic and associated rocks dominant (diagonally lined over-print); probably Cambrian unfossiliferous usually greywacke turbidite sequences (light); probably Cambrian unfossiliferous orthoquartzite sequence (dotted).
INCLUDING DUNDAS GROUP (fossiliferous); MT READ VOLCANICS AND OTHER FORMATIONS

Unusually unconformity attributed to Penguin Orogeny but apparent conformity at Smithton and Pieman River.

PRECAMBRIAN
Comparatively unmetamorphosed sequences. Mudstone-sandstone sequences (c') – dominantly mudstone (light), dominantly orthoquartzite (dark), quartzwacke turbidite successions (small dot over-print), conglomerate (large dot over-print); dolomite (horizontally lined over-print); basalt lava (vertically lined over-print).

Metamorphic rocks. Pelitic sequences (dark); metaquartzite sequences (light) with some platy quartzite units indicated (vertically lined over-print); amphibolite (diagonally lined over-print). Garnet bearing rocks are indicated (g).

EASTERN TASMANIA

Unconformity.

LOWER DEVONIAN–TREMADOCIAN–CAMBRIAN (?)
Micaceous quartzwacke turbidite sequences dominant (light); mudstone sequences dominant (dark).
MATHINNA BEDS

IGNEOUS ROCKS

TERTIARY
Basalt and related rock types.

CRETACEOUS
Syenite.
Appinite.

JURASSIC
Dolerite and related rock types.

LOWER CARBONIFEROUS – UPPER DEVONIAN
Dominantly adamellite-granite; biotite-hypersthene-adamellite porphyry (diagonally lined over-print).
Dominantly granodiorite.
Dominantly diorite.

CAMBRIAN
Granitic rocks.
Coarser grained basic rocks.
Serpentinite, peridotite and associated rocks.
Acid with intermediate volcanic and associated rocks.
Basic-intermediate volcanic and associated rocks.

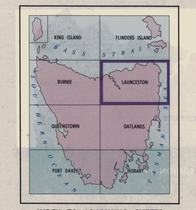
PRECAMBRIAN
Granite.
Dolerite.

Undifferentiated rocks are indicated by the lightest colour and the letter "u" or "v"
Blank boxes indicate absence of rock unit from this map sheet.

Geological boundary established by 1:15,840 scale mapping
Geological boundary defined by air photo interpretation, reconnaissance mapping and ≈ 1:15,840 scale mapping
Fault with relative downthrown side indicated
Thrust fault with upper plate indicated
Wrench fault with relative displacement given. Important faults are indicated by dots where concealed
Hinge line with plunge of major fold: anticline, syncline
Generalized strike and dip of beds, vertical horizontal, overturned
Generalized strike and dip of beds with facing unknown
Generalized strike and dip determined from air photos
Strike and dip of igneous banding, vertical banding
Generalized strike and dip of cleavage, vertical cleavage
Generalized strike and dip of dominant second cleavage, vertical second cleavage
Generalized strike and dip of metamorphic foliation, vertical foliation
Minor fold hinge line with plunge
Lineation with plunge (mineral alignment; intersection of surfaces)

Road
Vehicular track
Built-up area
Town
Railway Station or Siding
Power TRansmission Line
Trigonometric Station
Astronomical Station
Airfield
Lighthouse

MINERAL DEPOSITS: Significant production centres.
Mine, Ag-silver, Au-gold, Bi-bismuth, Cr-crocoite, C-coal, Cu-copper, Fe-iron, Ni-nickel, Os-osmiridium, Pb-lead, Py-pyrite, Sn-tin, W-tungsten, Zn-zinc
Quarry; Ab-asbestos, Di-dolomite, Li-limestone, Cy-clay
Alluvial working; Au-Au-gold, Sn-tin
Encircled symbol indicates operating at present



INDEX TO ADJOINING SHEETS

Geological compilation by M. P. McCLENAGHAN B.Sc. (Hons.) Ph.D.
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Base map redrawn from "Launceston" sheet of Tasmania 1:250,000 series (1962) produced by Lands and Surveys Department, Hobart.
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Compiled under the direction of J.G.Symons B.E., Director of Mines.
Issued under the authority of the Honourable Eric E. Reece Minister for Mines.
Published 1974

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SCALE 1:250,000

5 cm

5 0 5 10 15 20 25 30 35 KILOMETRES
5 0 5 10 15 MILES

GREY NUMBERED LINES INDICATE THE 10,000 METRE TRANSVERSE MERCATOR GRID, ZONE 7 (AUSTRALIA SERIES)
BLUE NUMBERED TICKS INDICATE THE 20,000 YARD TRANSVERSE MERCATOR GRID, ZONE 7 (AUSTRALIA SERIES)

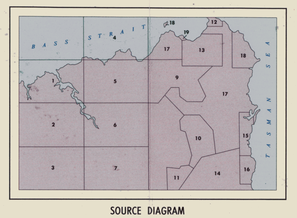
88-2841

PUBLISHED SOURCES

1. Gee, R. D., Legge, P. J., 1971 Beaconsfield Sheet *Geol. Surv. Tasm.*, 1 Mile Geol. Map Ser.
2. Guillou, A. B., Bravo, A. P., Napoi, I. H., 1973 Frankford Sheet *Geol. Surv. Tasm.*, 1 Mile Geol. Map Ser.
3. Barton, C. M., Brown, A. P., Guillou, A. B., Longman, M. J., Marshall, B., Matthews, W. L., Moore, W. R., Naqvi, I. H., Pike, G. P., 1980 Ouenby Sheet *Geol. Surv. Tasm.*, 1 Mile Geol. Map Ser.
4. Jennings, D. J., 1967 Rickard Bay Sheet *Geol. Surv. Tasm.*, 1 Mile Geol. Map Ser.
5. Marshall, B., 1980 Mt. Direction Sheet *Geol. Surv. Tasm.*, 1 Mile Geol. Map Ser.
6. Barton, C. M. J., Matthews, W. L., Rowe, E. M., 1964 Launceston Sheet *Geol. Surv. Tasm.*, 1 Mile Geol. Map Ser.
7. Blake, F., 1950 Longford Sheet *Geol. Surv. Tasm.*, 1 Mile Geol. Map Ser.
12. Jennings, D. J., Sutherland, F. L., 1969 Geology of the Cape Portland Area *Tech. Rep. Dep. Mines Tasm. 13.*
15. Walker, K. R., 1957 Geology of the St Helens – Scamander – Falmouth Area *Proc. Roy. Soc. Tasm. 91.*
16. McNeil, R. O., 1965 Geology of the Mt Elephant – Piccaninny Point Area *Proc. Roy. Soc. Tasm. 99.*
17. Groves, D. I., The Geology, Geochemistry and Mineralogy of the Blue Tier Batholith, North-east Tasmania *Bull. 55 Geol. Surv. Tasm.*
19. Moore, W. R., 1968 Underground Water Tomahawk Village *Tech. Rep. Dept Mines Tasm. 12.*

UNPUBLISHED SOURCES

9. Moore, W. R., Baillie, P. W., Brown, A. V., McClenaghan, M. P., Turner, N. J., Williams, P. R., Pike, G. P., Jennings, D. J., pers. comm.
10. Threader, V. M., 1965 The Geology of the Mangana – Waterhouse Goldfields *M.Sc. Thesis, Univ. Tasm.*
11. Legge, P. J., 1968 The Geology and Joint Analysis of the Ormley – Avoca – Rossarden Area *B.Sc. Thesis, Univ. Tasm.*
13. Groves, D. I., Jennings, D. J., The Geology of the Tomahawk – Mt Cameron – Blue Tier Batholith Area *Dept Mines Tasm.*
14. Threader, V. M., Geology of the north-east Tasmanian Coalfields *Unpub. Rep. Dept Mines Tasm.*
18. Jennings, D. J., pers. comm.



SOURCE DIAGRAM

GRID ZONE DESIGNATION 55G

100,000 METRE SQUARE IDENTIFICATION

DQ EQ FQ
DP EP FP

IGNORE the SMALLER figures of any grid number; these are for finding the full six-millimetre. See UNIT the LARGER figure of the grid number.
Example: 755122

TO GIVE A STANDARD REFERENCE ON THIS SHEET, TO NEAREST 1,000 METRES

SAMPLE POINT ... A FEW AFIELD

1. Read letters identifying 100,000 metre square in which point lies.
2. Locate four VERTICAL grid line to LEFT of point and read LARGE figure labelling the line in either the top or bottom margin.
3. Estimate tenths from grid line to point.
4. Locate four HORIZONTAL grid line BELOW point and read LARGE figure labelling the line in either the left or right margin.
5. Estimate tenths from grid line to point.

SAMPLE REFERENCE ... EQ 7256

If reporting beyond 10' in any direction prefix grid zone designation, ie. 55EQ7256

UNIVERSAL GRID REFERENCE

755122

090

LAUNCESTON
SHEET SK55–4

MERCURY-WALCH

1623