

Data Set Catalog # 219

EOLE, Upper Atmospheric Wind
71-071A-01A 1 tape

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1. INTRODUCTION:

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

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

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

2. ERRATA/CHANGE LOG:

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

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

Version	Date	Person	Page	Description of Change
01				
02				

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

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

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

4. CATALOG MATERIALS:

- a. Associated Documents To find associated documents you will need to know the document ID number and then click here.
<http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/>

- b. Core Catalog Materials

EOLE 1

ESAD 00146

RAW "STATE" AND LOC. DATA TAPE

71-071A-01A

THIS DATA SET HAS BEEN RESTORED. THERE WAS ORIGINALLY ONE 7-TRACK, 800 BPI TAPE WRITTEN IN BCD. THERE IS ONE RESTORED TAPE WRITTEN IN ASCII. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS CREATED ON A CDC 6600 COMPUTER AND WAS RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIME SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR005892	DS005892	D011997	1	08/27/71 - 07/04/72

REQ. AGENT
WPP

RASH NO.
RB3899

ACQ. AGENT
NWS

EOLE

71-071A-01A

UPPER ATMOSPHERIC WIND

This data set consists of 1 800 BPI, BCD, 7 track, CDC 6600 tape
that contains 1 file.

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-11997	C-09204	8/27/71	7/04/72

Eole 1, Data Set Information

Package

(71-071A-01A)

Prepared by

Norman W. Stoldt

June 1973

Spacecraft Name - Common/Eole 1
Alternate/CAS-A

Experiment Name - PROJECT/Satellite Tracking of Constant Level Balloons
for Meteorological Measurements

Date Set Names - NSSDC/Raw Temperature, Pressure and Location Data Tape
EXPER/Laboratory of Meteorological Dynamics (LMD) Tape

Period Covered by Data Set - 08/27/71 - 07/04/72

General Data Set Information

Data Set Availability/Status - at NSSDC ready for distribution

Data Set Form - Magnetic Tape

Size of Data Set at NSSDC - 1 Tape

Data Set Personnel

Contact/Mr. William Bandeen
NASA - GSFC
Greenbelt, Maryland

Data Set Brief Description

The Eole 1 Raw 'State' and location data set consists of one 800 BPI, 7 track, BCD tape generated on a CDC 6600 computer. The data are arranged sequentially by orbit. Data from each orbit is contained in a single record and consists of a heading giving the orbit number, the number of balloons contacted and a control number. Following the heading are listed balloon number, date of observation, location, and the ambient temperature and pressure. A maximum of 25 balloons appear in a single record. Empty records with no balloon contacts have been omitted. These data were obtained from balloons near 200 mp and are for the region between 30 deg S to 60 deg S. The upper level wind speed and direction can be generated from these data by comparing individual balloon locations obtained from successive orbits. Due to errors in

location, data, a few of which are extremely large, about one percent of such derived wind values could be erroneous. Extremely high wind speeds should be discarded or else closely examined by the user. High wind values from November 4, 1971 are particularly questionable.

Potential Scientific Uses of Data

The data set was submitted by the experimenter to provide a time ordered set of upper atmospheric temperature and pressure measurements in the region between 30 deg S to 60 deg S latitude. The data can also be used to generate the direction and velocity of the upper atmospheric winds in this region.

Data Set Full Description

This data set was prepared by Professor P. Morel CNES-LMD (National Center for Space Studies - Laboratory of Meteorological Dynamics) and consists of one 800 BPI, 7 track, BCD tape generated on a CDC 6600 computer. The data consist of temperature, pressure, and location information transmitted to the spacecraft from individually instrumented balloons (approximately 700 took part in the experiment over a period of one and a half years).

The data are arranged sequentially by orbit. Data from each orbit are contained in a single record and consist of a heading giving orbit number, the number of balloons contacted for that orbit and a control number. Following the heading are listed the identification number of each balloon contacted, date and time of observation, location, and the ambient temperature and pressure. Successive data from an individual balloon are separated by approximately 100 minutes in time

(spacecrafts anomalistic period). A maximum of 25 balloons appear in a single record. Empty records with no balloon contacts have been omitted. See attachment 1 for a complete tape format.

The data were obtained from a height near 200 mb (approximately 12 km) and are restricted to the southern Hemisphere for the region between 30 deg to 60 deg latitude. The wind speed and direction can also be generated from these tapes by comparing individual balloon locations from success orbits. However care should be used in interpreting these values. See comments in data set quality.

Data Set Quality

See attachment 2, for a description of data set quality.

Data Set Accession Units

Accession Unit

D-11997

Time Covered

08/27/71 - 05/04/72

Bibliography

The Eole Experiment: Early Results and Current Objectives,
NASA-GSFC X-120-72-493 December 1972 by P. Morel and W. Bandeen.

Consult TRF listing under data set identification 71-071A-01A
for a full listing of publications dealing with this data set.

ATTACHMENT 1
RECORD FORMAT (FORM 25)

<u>Data Element</u>	<u>Symbol</u>	<u>Record</u>	<u>Units</u>	<u>Format</u>	<u>Remarks</u>
1	NORB	Orbit Number	-	I 5	
2	LIM	Number of localized balloons in the record	-	I 3	
3	IS	Control value	-	I 2	-1: first record of a multi-record orbit 0: intermediate record of a multi-record orbit 1: last record of a multi-record orbit unique record of orbit
7n - 3	NUBA	Balloon number	-	I 3	
7n - 2	JD	Date in "Julian Days"	days since 00 GMT 1 Jan 1950 (which was JK N°0	I 6	1 Aug 1971 - JK 788
7n - 1	JF	Fraction of the day	1/10 ⁹ part of a day	I 9	
7n	FI	Latitude	Radians (+N, -S)	F 10.6	
7n +1	AL	Longitude	Radians (+E, 0 to 2 π)	F 10.6	
7n +2	T	Ambient temperature	Degrees Celsius	F 6.1	
7n +3	P	Ambient pressure	Millibars	F 6.1	



Memorandum

TO : Mr. W. Randeem/120
EOLE Project Scientist

DATE: February 2, 1973

FROM : Dr. John Price/651

SUBJECT: Results from the Processing of Tape from Prof. Morel (LMD)

This memo describes some results from the processing of the tape from Prof. Morel (LMD), and compares the resulting data with that obtained by applying our major filtering program to the best CNES data.

1. The LMD tape was used to generate a wind tape in the standard manner; i.e., for observations separated in time by one orbital period. A total of 167 speed values over 230 knots were discarded as unreasonable. This is about .3% of the estimated total number of winds obtained. Of these bad wind values, 96 occurred on JD7977, with typical speeds from 300-500 knots. I recommend that users be warned to discard, or else examine closely, data from this date.

2. From running the wind tapes through the "acceleration" program we find that $\sim .4\%$ of the accelerations are unreasonable, i.e., over 30 kts./hr. These accelerations are obtained from successive wind readings, so presumably a similar (or larger) percentage of bad readings exists among non-successive data from the balloons.

In summary, the LMD tape probably contains .3-.5% faulty locations, among which very few are extremely bad. Only 5 wind values over 1000 knots appeared, for example.

3. The most recent CNES data tapes lead to bad values of acceleration approximately 1% of the time. The major filtering program written by Marilyn Mack should, I believe, have reduced this fraction to well under .1%. This filtering program operated with time intervals between observations as long as 1500 minutes, so that the vast majority of observations were filtered.

It appears that our own filtered data is preferable to that of LMD. However, I have detected a possible "bug" in our data, which should be resolved before we proceed with final data reduction.

The LMD tape is a logical choice for the NSSDC, as the data are generally of good quality. In addition, we (GSFC) bear no responsibility for errors on this tape.

Price to Bandeen

Due to the complexity of our filtering program, I must await Marilyn's return before making a final judgement on the relative merits of the two sets of data.

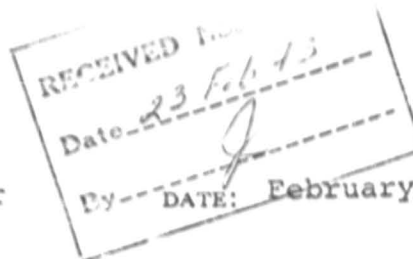
John C. Price

John Price
Meteorology Branch

cc: Dr. Wexler
Dr. Salomonson
Mrs. Mack
Mr. Barksdale

651:JP:adl

Memorandum



TO : National Space Science Data Center

FROM : William R. Bandeen, Chief
Meteorology Program Office

SUBJECT: Public Release of Eole Balloon Data

The Eole satellite, launched from Wallops Island on 16 August 1971 was highly successful. It tracked a large fleet of balloons, floating at 200 millibars over the Southern Hemisphere, between August 27, 1971 and July 4, 1972. A small number of balloons still flying after July 4, 1972 were tracked until 18 December 1972 until a destruct signal was intentionally transmitted to destroy about twelve balloons still floating at the time. The destruct signal was repeated on 1 January 1973 to insure that any still floating were destroyed. The satellite, however, is still operating normally and being used for other experiments such as tracking and data collection from ocean buoys, icebergs, ships, etc.

The attached paper The Eole Experiment: Early Results and Current Objectives by Morel and Bandeen, has been accepted for publication in the April issue of the Bulletin of the AMS. Hence, the Eole data between 27 August and 4 July 1972, on one reel of magnetic tape, are released to the general public. The master data tape and the necessary documentation for utilizing it are available from Mr. Joseph Barksdale, Head of the Data Analysis Office, Code 650.1, of the Laboratory for Meteorology and Earth Sciences.

The data on this tape (the "LMD Tape" from the Laboratory for Dynamic Meteorology in Paris, France) are generally of good quality, however, a few errors appear to remain. These are discussed in the attached memorandum from Dr. Price to W. Bandeen dated February 2, 1973, Subject: Results from the Processing of Tape from Prof. Morel (LMD). Any user of the data should be furnished a copy of Dr. Price's memorandum in order to be apprised of the existence of these very few errors to guard against in accordance with his particular needs in the use of the data.

A handwritten signature in cursive script that reads "William R. Bandeen".

William R. Bandeen

cc: Mr. Barksdale, Code 650.1
Dr. Price, Code 651
Mr. Stevens, Code 702

Memorandum

TO : Mr. W. Bandeen/120
BOLE Project Scientist

DATE: February 2, 1973

FROM : Dr. John Price/651

SUBJECT: Results from the Processing of Tape from Prof. Morel (LMD)

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In summary, the LMD tape probably contains .3-.5% faulty locations, among which very few are extremely bad. Only 5 wind values over 1000 knots appeared, for example.

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The LMD tape is a logical choice for the NSSDC, as the data are generally of good quality. In addition, we (GSFC) bear no responsibility for errors on this tape.



2

Price to Bandeen

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John C. Price

John Price
Meteorology Branch

cc: Dr. Wexler
Dr. Salomonson
Mrs. Mack
Mr. Barksdale

651:JP:adl

6 26

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
LABORATOIRE DE MÉTÉOROLOGIE DYNAMIQUE

ENS-PHYSIQUE 24, RUE LOMOND PARIS 5^e

TÉL 326.07.25

L.M.D. FORMAT 2 EOLE TAPE

The EOLE scientific data between orbit 151 and orbit 4622 have been written on a 7 track magnetic tape (S format) in Binary Coded Decimal (BCD) at a packing density of 800 bpi (even parity) on the C.N.E.S. CDC 6600 computer using the FORTRAN statement BUFFEROUT.X

Each orbit consists of one or more physical records, depending on the number of balloons localized during the orbit (maximum 25 balloons per record). Empty orbits have been bypassed.

RECORD FORMAT ($1 \leq n \leq 25$)

<u>Data Element</u>	<u>Symbol</u>	<u>Nature</u>	<u>Units</u>	<u>Format</u>	<u>Remarks</u>
1	NORB	Orbit Number	-	I 5	
2	LIM	Number of localized balloons in the record	-	I 3	
3	IS	Control value	-	I 2	-1: first record of a multi-record orbit 0: intermediate record of a multi-record orbit 1: last record of a multi-record orbit or unique record of the orbit
7n - 3	NUBA	Balloon number	-	I 3	
7n - 2	JD	Date in "Julian Days"	days since 00:00 GMT 1 Jan 1950 (which was JD N°0)	I 6	1 Aug 1971 = JD 7882
7n - 1	JF	Fraction of the day	1/10 ⁹ part of a day	I 9	
7n	FI	Latitude	Radians (+N, -S)	F 10.6	
7n + 1	AL	Longitude	Radians (+E, 0 to 2 π)	F 10.6	
7n + 2	T	Ambient temperature	Degrees Celsius	F 6.1	
7n + 3	P	Ambient pressure	Millibars	F 6.1	

151 1 1 58 7908352896320 -.591112 1.399489 -52.3 209.9

REC 1. LENGTH 60

156 1 1 58 7908718173805 -.608023 1.559512 -57.3 205.9

REC 2. LENGTH 60

157 24 1 58 7908773237419 -.685510 5.544689 -51.1 201.8 57 7908770915372 -.708081 5.150690 -
57.1 205.4 58 7908775074801 -.556631 5.863958 -49.0 208.8 61 7908773201250 -.696151 5.542610 -
60.6 203.9 64 7908771790661 -.526719 5.513241 -53.7 203.2 65 7908771783427 -.611244 5.411608 -
55.8 205.2 66 7908771313230 -.607899 5.415463 -55.2 203.4 68 7908771761725 -.616329 5.412084 -
56.6 202.9 71 7908769888174 -.608020 5.163892 -53.4 204.2 72 7908776825379 -.820335 5.918885 -
49.3 212.9 73 7908776818145 -.813857 5.908050 -28.0 213.3 74 7908776810911 -.685492 5.978161 -
48.8 212.5 75 7908773099977 -.956658 5.162463 -56.2 204.2 76 7908773555705 -.984749 5.202672 -
55.8 205.3 77 7908772622547 -.955584 5.152107 -88.2 205.0 78 7908773078275 -.955504 5.157940 -
58.3 203.7 82 7908770734527 -.713595 5.157799 -54.8 203.2 83 7908770727293 -.715683 5.160482 -
58.4 200.6 85 7908770712826 -.714101 5.152246 -57.5 200.2 92 7908769736264 -.605042 5.154620 -
54.8 210.3 93 7908769729030 -.604928 5.153323 -51.7 206.4

REC 3. LENGTH 1060

D-1997

158 24 1 56 7908846385508 -.672400 5.555019 -59.7 202.7 57 7908844989387 -.719323 5.168808 -
57.5 205.4 58 7908850537704 -.568335 5.908787 -51.7 208.8 59 7908846363807 -.704728 5.553528 -
62.2 197.3 60 7908846356573 -.698799 5.557514 -60.0 203.0 61 7908846349339 -.682187 5.554318 -
61.0 204.9 64 7908846327638 -.524724 5.527826 -56.1 203.2 65 7908845394479 -.608635 5.424100 -
57.0 203.0 66 7908845387245 -.604631 5.428705 -57.8 202.5 67 7908845842974 -.623354 5.421399 -
57.3 207.3 68 7908845835740 -.615072 5.424284 -57.4 202.0 71 7908846277002 -.618353 5.186684 -
53.8 204.2 72 7908850436431 -.810832 5.948360 -48.9 214.9 73 7908849966235 -.804913 5.935545 -
92.5 216.4 74 7908851347889 -.699410 6.015576 -49.2 214.6 75 7908845785104 -.960314 5.211320 -
54.5 206.2 76 7908845777870 -.995085 5.245222 -60.1 204.2 77 7908845770636 -.960734 5.202819 -
88.2 207.0 78 7908845763402 -.959367 5.208025 -57.1 206.6 82 7908845271505 -.724467 5.178353 -
56.9 203.2 83 7908845264271 -.727657 5.180387 -56.9 201.5 85 7908845249803 -.723161 5.174763 -
58.7 200.2 92 7908844736204 -.616586 5.176819 -54.8 210.3 93 7908844728970 -.614563 5.175856 -
55.8 205.5

REC 4. LENGTH 1210

159 22 1 56 7908920922486 -.661808 5.565223 -60.1 203.7 57 7908917674514 -.728848 5.188459 -
59.1 206.4 58 7908925074682 -.586595 5.954464 -49.0 213.1 59 7908920900784 -.693345 5.570978 -
60.9 199.3 60 7908920893551 -.688489 5.570273 -60.0 204.9 61 7908920886317 -.672151 5.562479 -
60.6 207.0 65 7908919931456 -.604272 5.437116 -57.7 206.3 66 7908919924223 -.600098 5.442664 -
57.4 205.2 67 7908920379952 -.619951 5.433313 -58.0 207.3 63 7908920372718 -.611593 5.437560 -
58.3 203.8 71 7908917573241 -.626531 5.209209 -60.3 208.1 72 7908924047483 -.808692 5.984570 -
50.1 213.9 73 7908924040249 -.798715 5.964475 -92.5 215.3 75 7908918470231 -.962903 5.252867 -
56.2 206.2 76 7908918925960 -1.001524 5.284451 -62.4 203.2 77 7908918455763 -.961775 5.243322 -
88.2 208.0 78 7908918448529 -.960584 5.251636 -57.9 208.5 82 7908917956632 -.732597 5.200961 -
57.7 204.1 83 7908917949398 -.737508 5.201466 -58.1 203.3 85 7908916546043 -.730686 5.195224 -
58.3 203.0 92 7908920662069 -.528862 5.199895 -58.8 211.3 93 7908920654836 -.623880 5.200307 -
57.8 206.4

REC 5. LENGTH 1110

160 21 1 56 7908994996501 -.652755 5.575510 -61.4 202.7 57 7908991748529 -.738952 5.210543 -
59.9 205.4 58 7908998222771 -.604831 6.004021 -50.3 210.9 59 7908994511837 -.604537 5.583339 -
60.5 200.3 60 7908994967565 -.680475 5.584818 -60.0 204.9 61 7908994960332 -.664786 5.572022 -
61.4 205.9 65 7908994468434 -.600898 5.452179 -57.0 207.4 66 7908994924163 -.595766 5.457517 -
56.7 206.1 67 7908994453966 -.616655 5.446445 -57.3 209.2 68 7908994446733 -.608602 5.453150 -
58.3 204.7 72 7908997195573 -.803587 6.022509 -49.3 214.9 73 7908996725377 -.795204 5.994628 -
92.5 215.3 74 7908998107031 -.724269 6.102151 -48.0 215.6 75 7908991518320 -.963455 5.296007 -
57.5 206.2 76 7908991148124 -1.007678 5.323990 -64.0 201.1 77 7908991603853 -.961228 5.291707 -
88.2 208.0 78 7908991596619 -.961375 5.294116 -57.9 209.5 82 7908991567684 -.741008 5.222501 -
58.5 204.1 83 7908991560450 -.747657 5.223635 -58.8 202.4 85 7908991545983 -.738221 5.216373 -
64.0 145.8 93 7908993339963 -.631673 5.219717 -62.4 203.5

REC 6. LENGTH 1060

161 8 1 56 7909 68144590 -.645593 5.588496 -60.1 204.6 59 7909 68122889 -.676307 5.598303 -
60.5 200.3 60 7909 68115655 -.671762 5.600937 -59.6 204.9 61 7909 68108421 -.658142 5.585245 -
61.0 205.9 75 7909 63840485 -.964735 5.331272 -57.1 206.2 76 7909 63833251 -1.012108 5.363025 -
66.0 198.0 77 7909 63826017 -.963149 5.327469 -88.2 208.0 78 7909 63818783 -.963809 5.330123 -
58.7 207.6

REC 7. LENGTH 410

162 11 1 57 7909137581745 -.753156 5.261857 -61.9 203.5 62 7909117175222 -.600803 2.624079 -
46.5 206.8 64 7909141697772 -.503063 5.593671 -59.0 208.8 65 7909140301651 -.591325 5.481971 -

REC 8. LENGTH 560

57.3	206.3	66	7909140294417	-.585711	5.485981	-57.1	205.2	67	7909139824220	-.605420	5.475304	-
56.6	209.2	68	7909139816987	-.596894	5.484278	-56.6	204.7	82	7909137863863	-.756388	5.272705	-
61.0	201.2	81	7909137856629	-.763891	5.276199	-61.1	199.6	85	7909138305124	-.750951	5.264990	-
68.3	211.8	92	7909136402637	-.663742	5.233394	-87.2	147.6					

171	1	1	63	7909769945244	-.529980	1.532579	-53.2	210.6				
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REC	9, LENGTH	60
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173	23	1	56	7909901477257	-.557532	5.783155	-56.5	208.5	57	7909898229285	-.730963	5.505228	-
63.1	203.5	59	7909901455556	-.580392	5.805995	-58.0	204.3	60	7909901911284	-.574572	5.811238	-	
57.2	207.8	64	7909902345312	-.500252	5.837814	-56.1	206.0	65	7909900023265	-.533255	5.623484	-	
54.7	209.6	66	7909900016031	-.532629	5.628035	-55.2	207.1	67	7909899545835	-.541261	5.593939	-	
54.9	212.1	68	7909900001564	-.536152	5.622153	-55.0	208.5	71	7909898128012	-.627801	5.443027	-	
61.1	198.6	76	7909899943693	-.922204	5.764317	-66.9	197.0	82	7909898511403	-.728048	5.513255	-	
62.7	199.3	83	7909898504169	-.732117	5.520246	-62.7	197.8	85	7909898026739	-.737865	5.494951	-	
64.0	199.3	86	7909895704692	-.700384	5.243066	-60.4	199.5	88	7909896153187	-.717013	5.241062	-	
65.2	195.1	89	7909895682991	-.705889	5.241133	-63.4	200.8	93	7909897968868	-.625806	5.425254	-	
60.7	201.6	94	7909895646822	-.572510	5.208428	-55.4	209.0	95	7909895639588	-.571429	5.207034	-	
54.8	210.7	96	7909895632354	-.574831	5.208228	-55.2	206.7	97	7909895625120	-.575428	5.207943	-	
55.8	203.7	100	7909890973793	-.574181	5.081922	-24.7	142.4						

174	25-1	56	7909975688309	-.555290	5.811147	-56.1	209.5	57	7909972303300	-.720014	5.531840	-
64.0	202.5	59	7909975066608	-.573041	5.832717	-57.1	204.3	60	7909975522337	-.568143	5.838366	-
56.4	208.8	64	7909975956364	-.501332	5.871107	-55.3	206.9	65	7909974560242	-.532136	5.641931	-
55.1	208.5	66	7909974553009	-.531329	5.646516	-55.5	207.1	67	7909973619850	-.540028	5.608970	-
54.6	212.1	68	7909974538541	-.534735	5.639851	-55.8	207.6	71	7909971739064	-.622440	5.452242	-
63.3	198.6	75	7909973561979	-.828102	5.786786	-59.3	204.2	76	7909972628820	-.898621	5.793723	-
66.9	196.0	77	7909973084549	-.832007	5.782774	-88.2	204.1	78	7909973540278	-.829843	5.785356	-
60.4	205.6	80	7909973525810	-.826520	5.789452	-60.4	202.7	82	7909972122455	-.714812	5.533053	-
64.0	198.3	83	7909972115221	-.720070	5.537485	-62.7	198.7	85	7909972100754	-.728647	5.518808	-
64.4	198.3	86	7909971167595	-.705708	5.263102	-60.8	201.4	88	7909971153127	-.722531	5.265113	-
64.3	197.7	89	7909971145993	-.710215	5.262411	-62.5	203.5	93	7909971579921	-.620472	5.438670	-
62.0	201.6	94	7909970646762	-.568894	5.226060	-54.6	213.1	95	7909970639528	-.567446	5.223726	-
55.6	215.6	96	7909970632294	-.571341	5.228841	-55.2	210.5					

174	1	1	97	7909970625060	-.571430	5.230004	-55.4	209.1				
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REC	12, LENGTH	60
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175	15	1	56	7910 47773436	-.551113	5.842196	-56.1	209.5	57	7910 45451389	-.706383	5.551097	-
63.5	202.5	59	7910 47751735	-.567796	5.860917	-55.9	205.3	60	7910 47744501	-.563303	5.855711	-	
54.8	209.8	64	7910 48178528	-.502347	5.905408	-54.9	207.9	65	7910 46782407	-.529303	5.662684	-	
56.6	207.4	66	7910 47238136	-.527764	5.668636	-56.7	206.1	68	7910 46760705	-.532667	5.659243	-	
56.2	206.6	76	7910 45313947	-.871810	5.821609	-66.0	198.0	77	7910 45769676	-.803274	5.811644	-	
88.2	207.0	78	7910 45762442	-.801555	5.813850	-57.5	208.5	80	7910 45747975	-.798074	5.817804	-	
57.1	206.4	82	7910 45733507	-.700802	5.354205	-63.6	198.3	83	7910 45263311	-.707758	5.554364	-	
62.7	197.8	85	7910 45248843	-.716385	5.537145	-64.0	200.2						

176	11	1	62	7910 59118881	-.525175	3.294629	-52.1	204.0	67	7910119916079	-.537829	5.645332	-
56.2	211.1	71	7910118035243	-.608447	5.472982	-61.6	200.4	86	7910116074886	-.717832	5.308339	-	
63.3	200.4	88	7910116060419	-.733777	5.315519	-63.5	199.5	89	7910116516147	-.719176	5.309323	-	
63.4	203.5	93	7910118339063	-.603323	5.465004	-62.0	200.6	94	7910117405904	-.561970	5.259520	-	
54.2	213.1	95	7910117398670	-.561499	5.256873	-54.4	215.6	96	7910117391436	-.562346	5.262378	-	
54.8	210.5	97	7910117384202	-.558963	5.263389	-54.2	210.3						

REC	14, LENGTH	560
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177	3	1	53	7910166313561	-.509412	2.131604	-51.3	208.6	62	7910172729933	-.534507	3.313264	-
56.2	200.3	70	7910168042437	-.723946	2.322407	-21.8	201.4						

REC	15, LENGTH	160
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179	6	1	52	7910309376236	-.537276	2.002332	-51.5	209.0	53	7910311220853	-.527944	2.244371	-
49.7	210.7	54	7910307972881	-.529250	1.825056	-52.2	205.1	62	7910322266851	-.570016	3.348038	-	
60.8	201.2	63	7910307907777	-.499778	1.836532	-52.4	207.7	70	7910312949729	-.703488	2.323203	-	
21.8	201.4												

REC	16, LENGTH	310
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180	7	1	52	7910362524326	-.537408	2.030826	-52.3	209.0	53	7910387146718	-.538596	2.312755	-
48.5	212.9	58	7910377851297	-.664227	1.028089	-53.9	203.7	62	7910395877903	-.590838	3.368117	-	
61.2	199.4	63	7910361981791	-.499699	1.881497	-52.0	209.7	70	7910386560781	-.698070	2.327826	-	

REC	17, LENGTH	360
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21.8 202.4 74 7910378661482 -.715778 1.079430 -48.4 209.5

182 10 1 52 7910533450131 -.543970 2.086999 -52.3 212.3 53 7910535294748 -.558711 2.449068 -
46.9 216.2 54 7910531583813 -.530753 1.915898 -53.9 208.9 58 7910523221551 -.617252 1.110609 -
52.6 205.7 63 7910533370559 -.502834 1.975760 -53.6 209.7 64 7910515307784 -.570186 6.208532 -
47.7 211.8 70 7910534708810 -.687191 2.356819 -21.8 205.5 72 7910523120278 -.878036 .998925 -
46.0 213.9 73 7910523113044 -.887612 .934147 -28.0 213.3 74 7910524031736 -.694057 1.152199 -
50.1 210.5

REC 18. LENGTH 510

183 10 1 52 7910603357482 -.551664 2.115016 -52.3 212.3 58 7910599147416 -.599287 1.149418 -
53.5 206.7 63 7910603740873 -.506534 2.020788 -53.2 210.6 65 7910584281977 -.519050 5.873535 -
52.8 208.5 66 7910584274743 -.518969 5.882654 -50.6 207.1 67 7910585193434 -.521506 5.813488 -
53.3 212.1 68 7910584260275 -.520759 5.870984 -52.5 205.7 70 7910605079125 -.677640 2.378189 -
21.8 205.5 74 7910598568713 -.684696 1.188702 -51.7 213.6 76 7910586517218 -.688430 6.014360 -
47.7 211.9

REC 19. LENGTH 510

185 4 1 58 7910744517670 -.583105 1.229990 -55.7 205.7 72 7910743490472 -.858099 1.152784 -
44.3 219.2 73 7910742557313 -.864606 1.098348 -92.5 219.5 74 7910744401930 -.668335 1.263142 -
50.9 211.5

REC 20. LENGTH 210

187 2 1 60 7910883854943 -.531579 6.279410 -48.7 215.9 96 7910874798237 -.490137 5.426953 -
53.1 208.6

REC 21. LENGTH 110

188 25-1 56 7910958569005 -.680942 .193832 -50.3 214.5 57 7910951932146 -.568307 5.648267 -
58.3 207.4 61 7910956069874 -.689149 .198818 -50.3 216.6 62 7910937081174 -.726385 3.630285 -
65.5 188.4 65 7910955577976 -.550756 6.143437 -48.9 216.7 66 7910955570742 -.552603 6.156524 -
49.4 213.9 67 7910955100546 -.540294 6.045773 -50.5 217.1 68 7910955556275 -.551766 6.141559 -
49.2 214.5 71 7910951367910 -.523980 5.558793 -58.1 204.2 75 7910955505638 -.729725 .091026 -
47.8 219.1 76 7910955035442 -.685767 6.248283 -46.5 217.7 77 7910955491171 -.726218 .085019 -
88.2 221.8 78 7910955483937 -.729201 .090209 -48.8 220.0 81 7910948054834 -.982901 5.378346 -
53.1 211.0 82 7910951288338 -.571906 5.680038 -57.3 204.1 83 7910951281105 -.569057 5.689611 -
56.9 204.3 85 7910950340712 -.574986 5.643250 -55.5 204.9 86 7910950333478 -.677714 5.527603 -
64.1 199.5 88 7910950319010 -.688662 5.537835 -54.3 197.7 89 7910950311777 -.681882 5.527775 -
63.8 202.6 93 7910950745804 -.518077 5.537560 -57.8 204.5 94 7910949812645 -.481408 5.439369 -
53.4 212.0 95 7910949342449 -.483535 5.439756 -52.8 214.6 97 7910950716869 -.444426 5.455815 -
51.8 209.1 98 7910947931860 -.603011 5.225510 -63.1 204.2

REC 22. LENGTH 1260

188 3 1 99 7910947924626 -.598740 5.210086 -63.0 200.2100 7910947917392 -.609191 5.216667 -
64.6 198.7101 7910947910158 -.604262 5.206412 -63.4 197.7

REC 23. LENGTH 160

189 9 1 57 7911 25082337 -.564692 5.654671 -58.3 206.4 67 7911 27787777 -.548225 6.102723 -
49.5 219.1 81 7911 20742059 -.984125 5.434826 -54.4 210.0 82 7911 25364455 -.569641 5.691454 -
57.7 204.1 83 7911 25357221 -.567072 5.703324 -56.9 203.3 85 7911 23953865 -.566725 5.649055 -
57.1 203.9 86 7911 23946631 -.664177 5.540559 -63.3 199.5 88 7911 23469201 -.674197 5.553245 -
64.7 196.8 89 7911 23461967 -.668958 5.540839 -63.0 202.6

REC 24. LENGTH 460

190 11 1 53 7911 76037198 -.638261 3.029256 -48.5 209.6 62 7911 81527650 -.732760 3.716454 -
66.4 188.4 93 7911 94729328 -.500956 5.543046 -55.8 207.4 94 7911 94259131 -.453866 5.465978 -
49.7 214.1 95 7911 94251897 -.454583 5.467250 -51.2 215.6 96 7911 94244664 -.447654 5.472500 -
50.2 212.5 97 7911 94700393 -.423319 5.482953 -50.5 210.3 98 7911 92841307 -.607228 5.250489 -
64.8 202.4 99 7911 92834073 -.601450 5.233555 -65.7 197.4100 7911 93289802 -.615803 5.245276 -
66.3 196.8101 7911 94208495 -.611293 5.238544 -65.5 195.8

REC 25. LENGTH 560

194 10 1 52 7911367248136 -.574815 2.568960 -49.9 214.5 53 7911371870532 -.665535 3.278969 -
54.9 207.5 54 7911365381816 -.583144 2.387721 -54.3 208.9 58 7911357482511 -.634968 1.532654 -
54.8 202.7 63 7911362557453 -.559805 2.665584 -48.0 215.7 70 7911368043853 -.638408 2.665033 -
21.8 212.0 72 7911360621978 -.930761 1.498247 -46.0 213.9 73 7911358762893 -.910882 1.444615 -
28.0 217.4 74 7911357366770 -.684258 1.472377 -53.3 206.5 80 7911359175219 -.910926 1.444753 -
27.3 219.1

REC 26. LENGTH 510

195 9 1 52 7911441785173 -.568792 2.631411 -48.7 214.5 53 7911445944606 -.670352 3.326480 -
57.7 206.5 54 7911438992927 -.582128 2.440278 -53.5 209.8 58 7911434797326 -.656717 1.563876 -
56.6 201.7 63 7911443094490 -.570507 2.743416 -49.2 214.7 72 7911435159015 -.949775 1.545447 -

REC 27. LENGTH 460

47.2 213.9 73 7911435151782 -.928533 1.490483 -28.0 215.3 74 7911434681585 -.695389 1.495950 -
52.1 205.5 80 7911435101145 -.928478 1.490637 -27.3 219.1

196 18 1 52 7911514467865 -.567063 2.693064 -47.9 216.8 54 7911513527477 -.581814 2.496496 - REC 28. LENGTH 910
53.5 208.9 56 7911501938939 -.787012 .768677 -55.3 206.5 58 7911506091135 -.675063 1.590195 -
59.7 201.7 59 7911501917238 -.801789 .767350 -56.3 203.2 60 7911501910004 -.803370 .776853 -
55.6 205.9 61 7911501902771 -.791864 .770658 -55.3 210.1 63 7911514851256 -.585819 2.821233 -
48.4 214.7 66 7911500477714 -.728283 .394642 -48.6 211.0 70 7911514337656 -.637810 2.762425 -
21.8 214.2 72 7911505526900 -.970941 1.590642 -49.7 214.9 73 7911505519666 -.946924 1.531987 -
28.0 217.4 74 7911505049469 -.704952 1.514427 -52.9 209.5 75 7911501801497 -.920786 .666864 -
24.0 197.3 76 7911500868338 -.860122 .480783 -53.4 207.4 77 7911501787030 -.920479 .657036 -
88.2 200.3 78 7911501779796 -.920799 .665141 -64.0 200.0 80 7911505469029 -.946856 1.532016 -
27.3 220.1

197 20 1 56 7911573700682 -.774575 .844245 -54.9 207.5 57 7911561656411 -.533975 5.771254 - REC 29. LENGTH 1010
55.4 205.4 58 7911578778907 -.693115 1.615048 -61.4 200.7 59 7911573678981 -.783701 .835048 -
54.2 205.3 60 7911573671747 -.788459 .847553 -53.6 208.8 61 7911573664513 -.779763 .645720 -
56.1 210.1 65 7911571320763 -.743734 .467464 -50.5 210.8 66 7911571313529 -.747759 .483172 -
50.2 210.0 68 7911570836099 -.742428 .462774 -48.8 210.5 72 7911578214571 -.992710 1.647525 -
49.7 214.9 73 7911578207337 -.968757 1.578960 -92.5 215.3 74 7911578663066 -.718236 1.533766 -
53.7 209.5 75 7911574026203 -.926180 .749650 -24.0 198.3 76 7911571241191 -.884827 .565330 -
58.5 204.2 77 7911573548772 -.928634 .739046 -88.2 199.3 78 7911574004502 -.926399 .747385 -
65.3 199.1 80 7911561475566 -.529135 5.877892 -50.2 208.2 83 7911561468332 -.524659 5.909712 -
49.8 208.1 85 7911560990902 -.533467 5.747643 -55.9 200.2 97 7911559515207 -.425780 5.649966 -
51.8 206.9

198 25-1 56 7911647427534 -.755071 .914943 -54.0 210.5 58 7911650885289 -.710932 1.641095 - REC 30. LENGTH 1260
62.3 199.7 59 7911647405832 -.771910 .909082 -55.1 206.3 60 7911647378599 -.769819 .915065 -
54.0 210.8 61 7911643340439 -.760443 .911677 -54.4 213.3 65 7911643890207 -.755593 .556081 -
50.9 211.9 66 7911644461677 -.758686 .570863 -51.7 211.0 67 7911642718333 -.742705 .411314 -
49.8 217.1 68 7911643868506 -.755256 .551640 -51.7 210.5 71 7911633430138 -.489133 5.661158 -
53.8 204.2 73 7911650198078 -.990282 1.629691 -92.5 215.3 74 7911650769548 -.731481 1.552440 -
54.5 208.5 75 7911646132684 -.922698 .831906 -63.2 200.2 76 7911643810636 -.908241 .654061 -
62.8 201.1 77 7911646118217 -.926991 .827019 -88.2 200.3 78 7911646110993 -.923556 .829919 -
65.3 200.9 81 7911637408726 -1.036576 5.886572 -59.0 203.8 82 7911635665381 -.525567 5.514635 -
49.7 209.2 83 7911635658147 -.524052 5.947945 -49.4 210.1 85 7911634486272 -.529518 5.774235 -
55.1 202.0 86 7911633321631 -.562340 5.588009 -56.7 200.4 88 7911633307164 -.572026 5.606210 -
57.6 199.5 89 7911633299930 -.568227 5.590518 -57.9 204.4 93 7911633270995 -.481694 5.641014 -
51.3 208.4 94 7911632685057 -.435829 5.641574 -49.7 212.0

198 3 1 95 7911632677823 -.436103 5.642266 -50.8 213.6 96 7911632670589 -.437820 5.654721 - REC 31. LENGTH 160
52.3 207.6 97 7911633242059 -.432728 5.687769 -53.4 206.9

199 7 1 56 7911720691423 -.731864 .977155 -52.4 212.5 59 7911720669721 -.749801 .568087 - REC 32. LENGTH 360
52.2 210.5 60 7911720662488 -.747416 .973214 -51.6 213.8 61 7911722970069 -.735034 .979148 -
53.2 214.4 75 7911719396573 -.910095 .902118 -62.3 201.2 77 7911719960809 -.914899 .899156 -
88.2 202.1 78 7911719374872 -.911094 .900555 -64.5 202.8

200 5 1 65 7911789839282 -.760587 .713067 -54.3 209.6 66 7911789832048 -.761864 .725645 - REC 33. LENGTH 260
55.2 208.0 67 7911789246110 -.777727 .598402 -53.3 214.1 68 7911789817580 -.761597 .710479 -
53.3 211.5 76 7911750338413 -.926935 .823570 -67.7 198.0

202 9 1 71 7911930536620 -.500013 5.742157 -59.0 206.1 81 7911929306874 -1.057818 6.046346 - REC 34. LENGTH 460
65.1 201.8 83 7911932185925 -.541464 6.132940 -49.4 212.1 85 7911932171457 -.505836 5.898494 -
53.9 206.8 93 7911930377476 -.499092 5.719709 -57.4 206.4 94 7911931527650 -.466782 5.801613 -
56.2 211.0 95 7911931520416 -.467094 5.801663 -56.4 212.6 96 7911931513182 -.463881 5.828838 -
56.8 208.6 97 7911932084652 -.449085 5.872381 -55.0 209.1

207 10 1 52 7912277893180 -.715080 3.373502 -49.5 213.4 54 7912276721306 -.631618 3.231282 - REC 35. LENGTH 510
49.3 213.8 58 7912266275712 -.839602 1.854260 -64.2 194.9 62 7912283607874 -.439243 4.107217 -
52.9 204.9 64 7912263338793 -.603165 1.392964 -48.6 210.8 70 7912276605565 -.718500 3.207967 -
21.8 213.1 72 7912270804065 -1.033528 2.435098 -47.7 213.9 73 7912269639425 -1.029434 2.313610 -
28.0 212.4 74 7912266738675 -.901900 1.838230 -56.4 202.7 80 7912270167492 -1.029343 2.316053 -

27.3 215.0

208 15 1 52	7912352545898	-.738078	3.416209	-51.5	212.3	54	7912353110134	-.654139	3.299223	-	REC	36, LENGTH	760
50.1 211.8 56	7912337470678	-.618838	1.374607	-48.7	212.5	58	7912339771024	-.859539	1.684725	-			
62.3 195.9 59	7912337448977	-.618283	1.355423	-50.5	207.3	61	7912337434510	-.616166	1.370411	-			
48.6 214.4 63	7912352466326	-.776802	3.551848	-63.7	203.9	64	7912337412808	-.607759	1.429454	-			
49.4 210.8 70	7912352994393	-.733232	3.235294	-21.8	215.3	72	7912341405860	-1.021938	2.507903	-			
48.1 216.0 73	7912339662517	-1.016118	2.388941	-28.0	214.3	74	7912340812690	-.920016	1.694353	-			
58.4 202.7 77	7912337897472	-.722508	1.291609	-88.2	219.5	78	7912337890238	-.723758	1.296334	-			
41.1 221.1 80	7912340769287	-1.016054	2.389546	-27.3	218.0								

209 14 1 54	7912423248966	-.674182	3.359324	-52.6	209.8	56	7912407609511	-.623945	1.411083	-	REC	37, LENGTH	710
47.8 213.5 59	7912407587810	-.622513	1.392757	-48.9	209.4	60	7912407580576	-.620750	1.395302	-			
47.0 212.8 61	7912407573342	-.619158	1.407165	-49.0	215.5	65	7912406387001	-.591935	1.146099	-			
50.5 209.6 66	7912406379767	-.587334	1.154829	-50.2	208.0	68	7912406365299	-.593226	1.147843	-			
51.3 207.6 70	7912424290632	-.749822	3.261715	-21.8	215.3	72	7912416753022	-1.012305	2.573326	-			
47.7 216.0 73	7912416167085	-1.000540	2.456925	-92.5	216.4	74	7912413266335	-.938012	1.954363	-			
61.1 200.8 77	7912407457602	-.716817	1.324024	-88.2	219.5	78	7912407450368	-.719065	1.328572	-			
41.6 221.1													

210 17 1 56	7912482377970	-.635005	1.449143	-48.7	213.5	58	7912486414425	-.899569	1.975639	-	REC	38, LENGTH	860
61.9 199.7 59	7912482356269	-.628891	1.434492	-49.3	209.4	60	7912482349035	-.626837	1.435639	-			
47.0 214.9 61	7912485235317	-.629451	1.447112	-49.8	215.5	65	7912479419350	-.568343	1.175462	-			
50.1 209.6 66	7912479990819	-.565191	1.182754	-50.6	208.0	67	7912479404882	-.620154	1.141205	-			
50.2 215.1 68	7912479397648	-.569208	1.175606	-50.0	208.5	72	7912489206668	-1.005005	2.627587	-			
46.8 218.1 73	7912488620731	-.987396	2.511755	-49.3	216.4	74	7912486298684	-.955268	2.023219	-			
60.3 203.6 75	7912481661825	-.718282	1.363670	-39.6	221.3	76	7912481075888	-.730536	1.285833	-			
42.5 218.8 77	7912482226060	-.714832	1.359183	-88.2	221.8	78	7912482218827	-.718359	1.363445	-			
40.6 223.3 80	7912485097875	-1.123730	1.140403	-40.7	222.2								

211 17 1 56	7912556799207	-.644467	1.491301	-49.1	215.6	58	7912558520849	-.911760	2.042422	-	REC	39, LENGTH	860
61.9 199.7 59	7912556777505	-.637188	1.477461	-48.5	213.7	60	7912556770272	-.634520	1.477300	-			
47.9 217.0 61	7912553869522	-.638036	1.485667	-49.8	218.9	64	7912557320040	-.629787	1.544117	-			
51.1 213.8 65	7912554419290	-.550061	1.202443	-50.5	213.1	66	7912554412056	-.548954	1.210050	-			
50.9 211.0 67	7912553826119	-.592675	1.166049	-50.2	217.1	68	7912554397588	-.550226	1.202664	-			
51.3 210.5 74	7912558963811	-.966614	2.101245	-59.9	204.6	75	7912556083061	-.722122	1.356619	-			
40.6 223.7 76	7912554918421	-.715801	1.319236	-44.3	221.2	77	7912556068594	-.716741	1.392321	-			
88.2 225.2 78	7912556061360	-.721947	1.395910	-41.1	225.6	80	7912556046893	-.922638	1.514070	-			
41.6 223.3 88	7912540364035	-.538301	5.776121	-56.8	202.3								

216 15 1 62	7912854255534	-.490921	4.402565	-52.1	201.2	63	7912893669597	-.790524	3.925726	-	REC	40, LENGTH	760
66.2 195.0 86	7912907392097	-.515812	5.903409	-56.3	205.5	88	7912907956333	-.511306	5.943011	-			
55.6 205.1 89	7912907370396	-.515018	5.905192	-56.6	208.2	90	7912903890943	-.593938	5.255252	-			
-.1 -.1 99	7912904983245	-.731098	5.473124	-65.7	195.0	100	7912904976011	-.761548	5.484991	-			
66.3 196.8101	7912904968778	-.775916	5.493623	-66.3	193.0	103	7912903796904	-.593328	5.248273	-			
-0.0 -.2112	7912902574393	-.494253	5.163269	.2	-.3113		7912902567159	-.490436	5.164226	-			
.3 -.3115	7912903131395	-.500641	5.161117	.2	-.4125		7912907109980	-.753409	6.054559	-			
50.5 214.8126	7912907102746	-.751338	6.048002	-49.9	214.5								

217 15 1 53	7912967815950	-.582508	4.256779	-66.4	193.7	62	7912968908252	-.503563	4.465682	-	REC	41, LENGTH	760
50.0 202.1 86	7912981466112	-.508770	5.942353	-56.7	205.5	88	7912981451645	-.506849	5.981100	-			
56.8 205.1 89	7912981444411	-.536781	5.927851	-56.2	209.1	90	7912977964958	-.589494	5.276055	-			
.1 -.1 99	7912979057260	-.741983	5.495830	-66.6	194.7	100	7912978471323	-.772193	5.504788	-			
67.6 195.8101	7912978464089	-.782669	5.519937	-67.2	192.1	103	7912977870918	-.584916	5.267340	-			
.1 -.2112	7912977805814	-.462515	5.177025	.3	-.3113		7912977798581	-.458841	5.176532	-			
.3 -.3115	7912977784113	-.468598	5.176896	.3	-.3125		7912981762698	-.746221	6.087742	-			
52.1 212.8126	7912981755464	-.741874	6.081490	-50.8	214.5								

232 11 1 52	7914 20373124	-.585441	4.281380	-56.6	203.8	53	7914 25574224	-.600301	4.732768	-	REC	42, LENGTH	560
55.3 207.5 54	7914 19779953	-.521242	4.244338	-57.2	202.3	58	7914 10491758	-.653421	2.912559	-			
50.3 207.8 70	7914 20242916	-.789359	4.274119	-21.8	197.4	73	7914 13855474	-.951898	3.194653	-			
28.0 215.3 74	7914 10954721	-.681599	2.958966	-48.8	209.5	104	7914 30992337	-.474235	5.442729	-			
52.5 210.0112	7914 30934467	-.329955	5.327121	-54.6	206.3	113	7914 31505936	-.326917	5.336386	-			

54.9 208.9115 7914 31491469 -.334373 5.343915 -55.1 206.9

233 11 1 52	7914 94968031	-.559452	4.299342	-55.8	208.0	53	7914 98780242	-.591600	4.820047	-	REC	43. LENGTH	560
54.9 207.5 54	7914 94953564	-.506845	4.267860	-57.6	204.2	63	7914 94888460	-.455144	4.230237	-			
58.6 204.8 70	7914 94201249	-.761805	4.304524	-21.8	200.4	72	7914 89730763	-1.226525	3.722416	-			
73.5 189.1 73	7914 86540659	-.960047	3.221253	-28.0	213.3	104	7914104140485	-.465165	8.442951	-			
52.9 154.6112	7914103446041	-.328921	5.375516	-53.4	207.4	113	7914103438807	-.330956	5.382409	-			
54.5 209.9115	7914103424339	-.334863	5.380614	-53.1	209.9								

234 17 1 53	7914109787186	-.601083	4.863493	-53.7	208.6	54	7914167870230	-.496652	4.293597	-	REC	44. LENGTH	860
57.6 204.2 56	7914101304837	-.732164	2.109533	-53.2	207.5	58	7914155746388	-.639302	2.570483	-			
49.0 207.8 59	7914101283136	-.708633	2.110490	-53.4	203.2	60	7914151275902	-.705292	2.111071	-			
51.2 207.8 61	7914101268668	-.719313	2.111799	-52.8	210.1	63	7914167805126	-.454853	4.256555	-			
56.7 206.7 64	7914101246967	-.598474	2.216841	-43.7	214.8	65	7914150603159	-.581225	2.122723	-			
47.7 210.8 66	7914101232499	-.555719	2.186875	-44.9	213.9	67	7914150588691	-.581003	2.105651	-			
48.7 215.1 68	7914105081457	-.580473	2.124750	-49.2	209.5	70	7914167117916	-.727585	4.330882	-			
21.8 203.4 72	7914102010855	-1.219244	3.794605	-74.0	190.8	73	7914160093899	-.968834	3.248134	-			
28.0 214.3 74	7914105603795	-.671576	3.021521	-47.6	211.5								

235 24 1 52	7914239528217	-.529432	4.335200	-52.6	211.2	54	7914239513749	-.490078	4.322085	-	REC	45. LENGTH	1210
55.5 207.0 56	7914222948355	-.724510	2.137226	-54.4	207.5	57	7914219121677	-.524127	1.535658	-			
50.5 210.4 58	7914230572777	-.634656	3.009686	-47.6	212.0	63	7914240085219	-.456143	4.285198	-			
55.9 207.7 64	7914223527059	-.589854	2.257241	-45.5	212.8	65	7914222246677	-.567521	2.172757	-			
46.0 214.3 66	7914222239443	-.546221	2.232126	-44.5	213.9	67	7914222868784	-.565854	2.159997	-			
47.5 218.1 68	7914222224976	-.566384	2.175643	-44.4	212.5	70	7914240034582	-.694332	4.340341	-			
21.8 203.4 73	7914232373992	-.979529	3.277214	-92.5	215.3	74	7914231093610	-.667282	3.054241	-			
48.0 214.6 75	7914222810913	-.912261	1.831608	-61.0	199.2	76	7914222803680	-.893114	1.565436	-			
61.2 200.0 77	7914222796446	-.912331	1.922133	-88.2	201.2	78	7914222769212	-.916806	1.831690	-			
62.0 200.9 82	7914219577406	-.516116	1.616058	-49.4	209.2	83	7914220206747	-.524260	1.665910	-			
46.9 210.1 85	7914219555705	-.602273	1.515593	-56.3	201.1	94	7914218854027	-.513808	1.474700	-			
51.0 210.0 95	7914218846793	-.505979	1.475370	-51.2	211.6	96	7914220112707	-.480684	1.452567	-			
49.4 209.5													

236 25-1 56	7914295228448	-.715223	2.164330	-53.2	207.5	57	7914291401770	-.515511	1.574456	-	REC	46. LENGTH	1260
47.9 213.5 58	7914305399166	-.630146	3.051036	-47.6	214.2	59	7914296479895	-.686953	2.163749	-			
52.6 206.3 60	7914296472661	-.683126	2.165148	-51.2	209.3	61	7914296465427	-.699325	2.154406	-			
53.2 211.2 64	7914297716874	-.583287	2.253213	-44.1	213.8	65	7914297013066	-.551268	2.230916	-			
46.0 214.3 66	7914297065832	-.539119	2.281995	-44.5	216.0	67	7914296422024	-.549448	2.218940	-			
46.7 219.1 68	7914296414791	-.550280	2.232899	-44.9	213.5	71	7914291300497	-.613077	1.418933	-			
52.1 205.1 73	7914304654085	-.992591	3.306342	-92.5	216.4	74	7914305283425	-.663511	3.086270	-			
48.4 214.6 75	7914295091006	-.914628	1.877228	-61.9	197.3	76	7914296356920	-.891719	2.028666	-			
58.1 202.1 77	7914296349686	-.906583	1.983484	-88.2	200.3	78	7914295069305	-.918534	1.877161	-			
62.8 199.1 80	7914298874281	-.845460	2.253953	-57.9	201.8	82	7914291857499	-.527177	1.661613	-			
50.7 208.2 83	7914291850265	-.537664	1.718487	-42.0	215.2	93	7914291141353	-.620254	1.375920	-			
50.9 203.4 94	7914291134119	-.503329	1.505010	-51.0	210.0	95	7914291126886	-.495186	1.510652	-			
50.4 211.6 96	7914291756226	-.461568	1.487077	-49.0	211.5								

236 1 1 97 7914291748992 -.462675 1.444660 -49.7 209.1 REC 47. LENGTH 60

237 25-1 56	7914370575670	-.702303	2.189931	-53.6	208.5	57	7914364839270	-.510315	1.616446	-	REC	48. LENGTH	1260
47.9 212.4 58	7914377563518	-.628567	3.090453	-46.7	215.3	59	7914371190543	-.671388	2.191495	-			
50.1 209.4 60	7914371183309	-.667345	2.193196	-48.3	212.8	61	7914369266353	-.686188	2.188140	-			
51.9 213.3 64	7914372427522	-.579443	2.337463	-44.6	216.8	65	7914371783714	-.536024	2.283404	-			
45.6 219.1 66	7914273049629	-.535762	2.331565	-45.8	214.9	67	7914371769247	-.531236	2.274661	-			
45.4 222.2 68	7914372398587	-.534450	2.286406	-45.8	216.5	71	7914364737997	-.588322	1.458563	-			
52.6 205.1 74	7914378084351	-.663381	3.116209	-47.6	216.7	75	7914368528506	-.913808	1.930833	-			
60.1 199.2 78	7914368506805	-.915188	1.928308	-62.8	200.0	81	7914365302233	-1.081573	1.362717	-			
62.9 199.9 82	7914366568147	-.540767	1.720403	-42.4	216.7	83	7914366560913	-.560329	1.764957	-			
44.8 213.1 85	7914365273298	-.564275	1.589865	-51.0	205.8	86	7914362719767	-.733757	.795003	-			
47.4 212.9 88	7914363341874	-.762043	.859824	-50.5	208.0	89	7914362698066	-.734289	.798356	-			
47.6 146.5 93	7914364578853	-.593236	1.426110	-51.7	207.4	94	7914364571619	-.493532	1.547449	-			
47.6 213.1 95	7914364564386	-.484437	1.553910	-50.0	212.6								

237 5 1 96 7914363920578 -.453529 1.524797 -49.0 210.5 97 7914363913344 -.457580 1.475571 - REC 49. LENGTH 260

50.9 206.9122 7914363055925 -.924863 .897524 -59.8 201.2124 7914364991180 -.925841 .881449 -
93.9 204.4125 7914363710798 -.923584 .855454 -61.1 201.8

238 25 1 56 7914444765485 -.688538 2.212891 -52.8 212.5 57 7914439665659 -.513504 1.664066 - REC 50. LENGTH 1260
50.1 212.4 59 7914444743784 -.654429 2.217207 -49.3 212.6 60 7914444736550 -.649723 2.218440 -
49.1 214.9 64 7914447253911 -.579435 2.377877 -46.8 217.9 65 7914447246677 -.525291 2.333637 -
46.0 217.9 66 7914447239443 -.537135 2.380463 -47.8 216.0 67 7914447232210 -.516831 2.327090 -
46.3 222.2 68 7914447224976 -.524046 2.336402 -46.6 215.5 71 7914438291237 -.564234 1.497567 -
53.8 206.1 75 7914441445173 -.908767 1.986089 -62.8 199.2 76 7914443347661 -.872042 2.160865 -
59.7 204.2 77 7914443340427 -.882359 2.112835 -88.2 204.1 78 7914441423471 -.909319 1.982571 -
64.0 200.9 80 7914442045578 -.879053 2.222829 -59.6 203.6 81 7914438218899 -1.110325 1.385530 -
66.5 198.9 82 7914439484814 -.555790 1.774966 -46.4 213.4 83 7914440750728 -.584858 1.813116 -
50.6 212.1 85 7914440099686 -.551252 1.628237 -51.0 207.8 93 7914438132094 -.566375 1.466302 -
50.9 209.4 94 7914439398008 -.485746 1.598083 -48.0 213.1122 7914436012592 -.927972 .980113 -
59.8 201.2124 7914435958124 -.930787 .965012 -93.9 205.4125 7914435990890 -.931001 .940181 -
60.2 202.7126 7914435347082 -.920730 .893288 -58.6 203.4

239 25-1 56 7914517913633 -.674519 2.234478 -50.8 214.5 57 7914515360103 -.525658 1.720188 - REC 51. LENGTH 1260
49.2 216.6 59 7914517891932 -.639340 2.240442 -48.5 214.7 60 7914517884698 -.634955 2.241392 -
46.2 219.1 64 7914519765485 -.579977 2.414121 -49.0 213.8 65 7914520394825 -.522615 2.382756 -
47.7 220.3 66 7914520387592 -.542056 2.430097 -48.2 217.0 67 7914520380358 -.511927 2.376319 -
46.3 223.3 68 7914520373124 -.521902 2.386245 -47.5 216.5 71 7914513349108 -.544252 1.534210 -
52.6 210.1 75 7914514593321 -.898703 2.047102 -61.5 200.2 76 7914516495809 -.861051 2.226651 -
58.1 206.4 77 7914515852001 -.873241 2.176419 -88.2 207.0 78 7914514571619 -.899122 2.044055 -
62.8 202.8 80 7914516466874 -.871828 2.294072 -56.6 207.3 81 7914510093899 -1.142996 1.410046 -
70.2 197.9 82 7914515179258 -.582080 1.827663 -50.7 214.5 83 7914515808599 -.615537 1.866306 -
51.3 214.2 85 7914515754131 -.545164 1.672697 -50.2 210.8 86 7914511330879 -.735722 .950556 -
52.3 207.5 88 7914508133541 -.760821 1.016183 -52.2 209.0 89 7914507489733 -.735051 .950099 -
51.1 146.5 93 7914513189964 -.543131 1.504954 -52.5 213.6 94 7914515092453 -.486502 1.651567 -
48.9 217.3 95 7914515065219 -.485273 1.655684 -48.3 218.7

239 6 1 96 7914514441411 -.457789 1.619384 -50.7 210.5 97 7914514434177 -.455859 1.560230 - REC 52. LENGTH 310
50.5 210.3122 7914518524166 -.924354 1.060654 -58.2 203.0124 7914508509698 -.928898 1.048048 -
93.9 206.3125 7914508502464 -.930786 1.024459 -61.1 202.7126 7914507858656 -.926020 .976455 -
59.4 203.4

240 25-1 57 7914567755936 -.543907 1.787556 -47.9 217.7 62 7914566712823 -.529965 5.477352 - REC 53. LENGTH 1260
54.2 199.4 71 7914567018089 -.531564 1.572239 -51.2 211.1 81 7914582489733 -1.177328 1.435824 -
73.2 196.0 82 7914568211666 -.609343 1.875785 -52.7 213.4 83 7914588204432 -.640961 1.917558 -
53.2 213.1 86 7914561816990 -.728225 1.025394 -53.5 211.8 88 7914582439096 -.747263 1.055581 -
51.8 211.0 89 7914561795288 -.725999 1.028923 -52.4 215.1 90 7914565237129 -.434450 5.469098 -
49.5 211.7 91 7914565229895 -.432354 5.473194 -49.2 208.6 93 7914586858946 -.526107 1.542628 -
51.3 212.5 96 7914567473818 -.465654 1.672660 -51.1 211.5 97 7914587466585 -.460352 1.603616 -
50.9 210.3 99 7914570901191 -.684927 6.047135 -64.8 193.0100 7914570257383 -.615561 5.981370 -
62.5 196.8101 7914569613575 -.600680 5.964436 -63.4 193.0102 7914565150323 -.423140 5.467117 -
47.7 211.6103 7914565143089 -.436517 5.475926 -50.3 210.2104 7914566409004 -.436172 5.484402 -
49.0 208.9106 7914565121388 -.419329 5.433915 -48.1 209.4107 7914565114154 -.409622 5.432164 -
48.2 208.9108 7914565106920 -.426880 5.430357 -48.7 208.0110 7914565092453 -.400056 5.432243 -
47.2 214.0112 7914566987707 -.405457 5.744744 -54.2 202.1

240 10 1113 7914566980474 -.406355 5.750434 -57.3 203.9115 7914566966006 -.411736 5.718553 - REC 54. LENGTH 510
56.6 202.2122 7914511556573 -.914280 1.130461 -57.3 207.7124 7914581542105 -.920069 1.122239 -
93.9 211.2125 7914561534872 -.924622 1.103024 -60.2 207.2126 7914581527638 -.926315 1.058310 -
61.1 206.3127 7914573881515 -1.022092 6.090331 -59.4 198.1128 7914573874281 -1.037502 6.096743 -
.2 -.3129 7914574503622 -1.026726 6.093203 -60.3 198.1130 7914573859814 -1.027543 6.094206 -
.1 -.4

241 17 1 71 7914659298182 -.527581 1.614779 -51.7 211.1 85 7914660470057 -.553488 1.763965 - REC 55. LENGTH 860
50.2 210.8 86 7914656006805 -.713951 1.103390 -50.7 214.0 88 7914655992337 -.724481 1.168258 -
50.5 214.0 89 7914655985103 -.710824 1.106591 -49.8 217.1 93 7914659139038 -.520006 1.584815 -
49.7 213.6 94 7914660404953 -.517145 1.765441 -48.9 216.3 95 7914660397719 -.519086 1.778773 -
49.1 217.7 96 7914660390485 -.482496 1.731247 -51.1 210.5 97 7914659746677 -.465889 1.650010 -
52.0 209.1112 7914641177522 -.403137 5.804894 -55.5 203.2113 7914641170288 -.402659 5.809851 -

56.9 204.9115 7914641155821 -.411743 5.771145 -55.5 203.2122 7914655109814 -.904514 1.190307 -
56.9 206.8124 7914655095346 -.910296 1.184904 -93.9 211.2125 7914655038112 -.915438 1.168182 -
58.6 208.1126 7914655080879 -.920787 1.134433 -29.7 208.3

242 25-1 52 7914707410161 -.559584 4.570278 -53.8 208.0 53 7914711222372 -.665208 5.185473 - REC 56, LENGTH 1260
54.9 203.4 54 7914708032267 -.540129 4.610812 -53.0 206.0 62 7914711793842 -.490231 5.484879 -
53.7 200.3 63 7914707967163 -.526765 4.617933 -52.4 206.7 86 7914730080879 -.691269 1.176461 -
48.7 215.2 88 7914719429837 -.697236 1.234280 -48.4 215.1 89 7914730059177 -.688747 1.178207 -
48.9 220.3 90 7914711591295 -.415722 5.473617 -47.4 213.9 91 7914711584061 -.418576 5.481853 -
48.8 208.6 99 7914717891932 -.660251 6.061651 -63.9 194.7100 791471148124 -.581795 5.583692 -
62.1 198.7101 7914717240890 -.565401 5.968608 -61.8 195.8102 7914711504490 -.408722 5.484082 -
46.9 213.6103 7914712133830 -.423594 5.482120 -47.9 210.2104 7914712126596 -.427515 5.493767 -
49.8 207.9106 7914711475555 -.392017 5.458260 -47.2 209.4107 7914711468321 -.386021 5.463369 -
48.6 207.9108 7914710824513 -.397603 5.452322 -47.9 208.0110 7914711446619 -.380076 5.467572 -
47.6 212.9111 7914710802811 -.694707 5.180152 -52.5 205.8118 7914710752175 -.603088 5.224728 -
60.9 201.0120 7914708191411 -.598177 5.210073 -57.3 202.6127 7914719599108 -1.038646 6.192208 -
61.1 198.1128 7914718555300 -1.053456 6.197568 .3 -.3

242 5 1129 7914719584640 -1.041783 6.192680 -62.2 199.0130 7914719577406 -1.043167 6.196427 REC 57, LENGTH 260
.2 -.3132 7914711287476 -.709720 5.192033 -52.4 257.7133 7914711280242 -.700983 5.184999 -
51.6 206.4136 7914711258541 -.707310 5.189419 -53.5 205.7

243 19 1 52 7914780326828 -.574385 4.614994 -52.3 208.0 53 7914784139038 -.684335 5.215302 - REC 58, LENGTH 960
59.3 203.4 62 7914786620230 -.471987 5.484709 -52.9 200.3 70 7914779560045 -.535007 4.397819 -
21.8 206.6 99 7914788858876 -.647229 6.066739 -64.8 197.4100 7914788891642 -.565955 5.983323 -
61.7 200.6101 7914788884409 -.551821 5.972361 -61.8 197.7111 7914784992626 -.717910 5.213903 -
54.5 204.0117 7914783676075 -.614835 5.265717 -61.0 201.8118 7914784941990 -.613844 5.275678 -
60.5 202.8119 7914783661608 -.588536 5.201097 -56.9 205.0120 7914784927522 -.616250 5.253503 -
62.2 201.6127 7914788696330 -1.046582 6.230310 -63.2 200.0128 7914788689096 -1.062745 6.243424
-.6 -.3129 7914788681862 -1.049445 6.229187 -64.1 199.9130 7914788674629 -1.051022 6.234170
.2 -.1132 7914784840717 -.736573 5.227506 -53.7 257.7133 7914784833483 -.724794 5.219554 -
54.1 205.4136 7914784811781 -.732915 5.223651 -53.9 204.7

244 21 1 52 7914852997545 -.589590 4.660132 -51.9 209.0 53 7914859139038 -.707640 5.254799 - REC 59, LENGTH 1060
57.7 203.4 54 7914853597950 -.580430 4.707670 -52.6 205.1 62 7914862148298 -.453954 5.484097 -
53.7 204.0 63 7914853532846 -.561166 4.731581 -54.3 206.7 70 7914850407846 -.527441 4.410758 -
21.8 204.5 72 7914853467742 -1.039114 4.300031 -55.9 203.1100 7914866177522 -.552257 5.983835 -
61.7 201.6101 7914866170288 -.535567 5.978964 -61.4 198.6111 7914858719478 -.743376 5.258266 -
54.9 205.8112 7914857935335 -.373567 5.999634 -55.1 205.2113 7914867928101 -.371069 6.001968 -
56.5 207.9115 7914866683888 -.396471 5.929325 -58.6 203.2117 7914859290948 -.617661 5.315463 -
64.2 197.3118 7914859283714 -.613885 5.321194 -62.2 201.0119 7914859276480 -.595051 5.239767 -
61.2 200.6120 7914859269247 -.623451 5.303830 -64.3 202.6127 7914863522719 -1.057440 6.270264 -
64.9 198.1132 7914859182441 -.764841 5.275633 -54.6 257.7133 7914859175207 -.749631 5.264290 -
54.1 204.5136 7914859153505 -.759748 5.269727 -53.9 206.7

245 24 1 52 7914927686492 -.606517 4.706730 -52.3 210.1 54 7914929516642 -.600823 4.762642 - REC 60, LENGTH 1210
53.0 204.2 58 7914919034872 -.707545 3.441055 -47.6 209.0 62 7914936222372 -.434103 5.482706 -
55.0 203.0 63 7914928221793 -.577108 4.791341 -54.0 206.7 70 7914923867048 -.524366 4.428390 -
21.8 205.5 74 7914918919131 -.725855 3.406862 -47.6 211.5 90 7914937249571 -.391531 5.512395 -
50.3 218.3 91 7914937242337 -.400625 5.513420 -50.1 211.6 99 7914938414212 -.618267 6.073465 -
63.9 197.4101 7914938399744 -.520576 5.990733 -60.6 199.6102 7914937162765 -.401441 5.522313 -
50.2 214.6103 7914937155531 -.404870 5.508319 -49.9 213.3106 7914937133830 -.368960 5.523273 -
48.6 215.9107 7914937126596 -.371013 5.530702 -49.9 211.7108 7914937119362 -.364933 5.513004 -
48.3 216.7110 7914937104895 -.376512 5.539456 -50.8 215.0112 7914939549918 -.363323 6.063073 -
55.1 206.3113 7914939542684 -.361098 6.064522 -55.7 208.9115 7914939528217 -.389558 5.583730 -
57.8 204.1117 7914933979895 -.613859 5.352622 -64.2 199.0118 7914933972661 -.610178 5.358003 -
64.8 200.1119 7914933965427 -.604606 5.275494 -64.8 202.3120 7914933958193 -.624158 5.344372 -
64.3 201.6

247 21 1 52 7915 76420578 -.637396 4.796898 -55.0 209.0 54 7915 76406110 -.632216 4.861045 - REC 61, LENGTH 1060
56.8 206.0 56 7915 58560335 -.604048 2.419285 -46.1 214.5 58 7915 65309467 -.733100 3.551583 -
49.4 207.8 59 7915 57308888 -.592506 2.471691 -48.9 209.4 60 7915 57301654 -.591886 2.476540 -
47.0 212.8 61 7915 57294420 -.595774 2.448014 -48.1 216.6 62 7915 81267221 -.402116 5.486984 -

49.5	208.7	63	7915	77570751	-.603024	4.906790	-55.5	208.7	64	7915	58502464	-.603757	2.684360	-
49.9	208.8	65	7915	58495230	-.552960	2.757540	-48.9	211.9	66	7915	59102869	-.575831	2.784276	-
49.8	210.0	67	7915	58480763	-.545824	2.759553	-48.7	216.1	68	7915	58473529	-.553733	2.762014	-
49.6	209.5	70	7915	74445751	-.527691	4.479867	-21.8	207.6	72	7915	71356920	-.992130	4.450979	-
55.5	208.8	73	7915	67045578	-1.162127	3.644416	-57.9	203.8	74	7915	65193726	-.748859	3.504164	-
48.4	210.5	76	7915	60260277	-.850332	2.683996	-53.8	206.4	77	7915	59638170	-.846756	2.649936	-
88.2	208.0119		7915	75625149	-.618337	5.342361	-66.1	201.5						-

248	25	1	52	79151	46790948	-.654162	4.837187	-56.2	208.0	56	79151	29545578	-.599995	2.445223	-	REC	62, LENGTH	1260
46.5	214.5	57		79151	28308598	-.653064	2.175321	-55.4	203.5	58	79151	39369073	-.747725	3.609823	-			
50.8	208.8	64		79151	31332325	-.607596	2.718378	-49.0	208.8	65	79151	31939964	-.563115	2.808070	-			
48.9	211.9	66		79151	31932730	-.585453	2.829446	-50.9	209.0	67	79151	31925497	-.556625	2.810565	-			
49.8	215.1	68		79151	31918263	-.563099	2.812435	-49.6	209.5	70	79151	46045867	-.526668	4.515153	-			
21.8	212.0	71		79151	26977580	-.573563	1.997937	-48.2	209.1	72	79151	44186781	-.982451	4.508948	-			
54.7	208.8	73		79151	39260566	-1.184122	3.678730	-86.1	206.6	74	79151	39253332	-.761799	3.554219	-			
48.4	211.5	76		79151	33090138	-.859577	2.743800	-56.2	204.2	77	79151	33082904	-.852255	2.712207	-			
88.2	207.0	78		79151	30001307	-.796111	2.516122	-54.3	207.6	82	79151	28127754	-.705579	2.145135	-			
61.4	197.4	83		79151	28735392	-.683700	2.211328	-55.1	202.4	85	79151	27491180	-.666412	2.046087	-			
54.3	203.9	93		79151	26818436	-.558042	1.970968	-49.7	209.4	94	79151	27426075	-.626805	2.190028	-			
54.6	206.0	95		79151	28648587	-.619906	2.232618	-52.8	208.7	96	79151	28641353	-.602212	2.208321	-			
56.0	204.8	97		79151	27404374	-.579096	2.082091	-52.2	206.9									

249	23	1	56	79152	02375439	-.598512	2.472917	-47.0	213.5	57	79152	01138460	-.650149	2.226053	-	REC	63, LENGTH	1160
55.8	205.4	58		79152	14043552	-.760823	3.673808	-53.5	207.8	59	79152	03583483	-.593382	2.533291	-			
49.3	209.4	60		79152	03576249	-.593075	2.539387	-49.1	212.8	61	79152	03569015	-.595691	2.508475	-			
49.4	215.5	64		79152	05391932	-.613125	2.752753	-49.4	208.8	65	79152	07229316	-.572639	2.862768	-			
48.9	210.8	66		79152	06607210	-.595896	2.879035	-50.2	209.0	67	79152	05370230	-.566157	2.864352	-			
49.1	147.2	68		79152	07207615	-.572202	2.866594	-49.2	210.5	75	79152	04082615	-.793657	2.570654	-			
54.5	204.2	78		79152	05905531	-.792159	2.569556	-54.7	205.6	80	79152	05276191	-.914032	2.951403	-			
59.2	203.6	83		79152	01565254	-.669531	2.255284	-51.3	206.2	85	79152	00321041	-.685014	2.071578	-			
57.5	201.1	86		79151	57239443	-.556325	1.534364	-43.9	214.0	88	79151	97224976	-.584674	1.597214	-			
44.4	214.0	89		79151	57217742	-.556342	1.537263	-44.4	146.5	94	79152	00870809	-.618213	2.260905	-			
52.6	209.0	95		79152	01478448	-.597720	2.305975	-50.8	211.6	96	79152	00856342	-.585018	2.285847	-			
50.2	207.6	97		79152	00849108	-.591812	2.155477	-54.2	204.8									

250	25-1	56		79152	77664791	-.598303	2.573808	-47.4	214.5	57	79152	75968321	-.636301	2.280372	-	REC	64, LENGTH	1260
54.6	208.4	58		79152	66258541	-.768820	3.730471	-51.2	209.9	59	79152	78257962	-.595412	2.565220	-			
49.3	209.4	60		79152	77635855	-.595457	2.571049	-48.3	212.8	61	79152	78243494	-.595813	2.539944	-			
49.4	215.5	64		79152	60681284	-.622390	2.787778	-49.9	209.8	65	79152	81903795	-.580217	2.518237	-			
49.7	214.3	66		79152	61696561	-.604558	2.931642	-50.6	211.9	67	79152	81889328	-.575227	2.921873	-			
49.5	218.1	68		79152	61882094	-.579915	2.921888	-49.6	211.5	71	79152	73867048	-.597926	2.139196	-			
51.7	208.1	74		79152	65527927	-.787050	3.660533	-50.1	211.5	75	79152	78757094	-.790349	2.623587	-			
53.6	206.2	76		79152	60594478	-.882527	2.874184	-50.5	205.3	78	79152	78735392	-.789436	2.621055	-			
54.3	207.6	80		79152	61180416	-.924591	3.032219	-58.7	206.4	81	79152	76254200	-1.200378	2.124380	-			
76.7	190.5	82		79152	75017221	-.708743	2.215309	-60.6	196.4	83	79152	75624860	-.652262	2.293219	-			
54.3	203.3	85		79152	73765774	-.704072	2.095377	-58.7	200.2	88	79152	70054837	-.589236	1.651525	-			
43.5	213.0	93		79152	73707904	-.585073	2.117439	-51.3	208.4	94	79152	75545288	-.590648	2.331965	-			
48.9	213.1	95		79152	76152927	-.565501	2.366282	-47.0	217.7									

250	6	1	96	79152	76145693	-.554974	2.354156	-48.1	211.5	97	79152	74293842	-.594924	2.232369	-	REC	65, LENGTH	310
54.6	204.8122			79152	70423761	-.807390	1.495222	-46.0	212.7124		79152	70409293	-.828212	1.501056	-			
93.9	215.2125			79152	70402059	-.841048	1.499188	-47.9	212.8126		79152	70394825	-.861780	1.493657	-			
32.8	212.4																	

251	23	1	56	79153	52939675	-.597759	2.534721	-49.5	217.7	57	79153	51702696	-.612815	2.334719	-	REC	66, LENGTH	1160
50.5	212.4	59		79153	53532846	-.596772	2.596882	-50.9	210.5	60	79153	52910740	-.597039	2.602394	-			
50.4	213.8	64		79153	54726423	-.631456	2.824821	-52.0	210.8	71	79153	50986550	-.603061	2.210590	-			
55.1	207.1	76		79153	53409872	-.893912	2.943992	-59.7	205.3	77	79153	54017511	-.885844	2.910744	-			
88.2	208.0	80		79153	53995809	-.928506	3.107504	-58.3	204.5	82	79153	52136724	-.700231	2.254895	-			
58.5	201.2	83		79153	52744362	-.631128	2.330866	-53.6	206.2	85	79153	51500149	-.724909	2.122520	-			
59.1	201.1	86		79153	41040080	-.561471	1.647306	-44.8	212.9	88	79153	41640485	-.603464	1.704952	-			
46.6	211.0	89		79153	41633251	-.563830	1.650806	-45.4	216.1	93	79153	51442279	-.589650	2.193671	-			
53.0	209.4	94		79153	52664791	-.559072	2.387973	-47.2	217.3	95	79153	52657557	-.538473	2.420766	-			

47.5	218.7	96	7915352650323	-.528018	2.413900	-47.3	213.5	97	7915352028217	-.579301	2.314603	-
51.4	208.0	84	7915340765196	-.827218	1.522646	-93.9	214.2	125	7915340757962	-.839899	1.523137	-
49.2	211.9	126	7915340750728	-.861397	1.520750	-32.2	211.4					

252	25	1	59	7915422347950	-.599626	2.625181	-51.4	210.5	60	7915422340717	-.599259	2.630770	-	REC	67, LENGTH	1260
51.2	212.8	84		7915425451249	-.640193	2.863700	-51.1	210.8	65	7915428583483	-.591840	3.024338	-			
48.9	215.5	86		7915428576249	-.614149	3.034052	-48.6	213.9	67	7915428569015	-.586907	3.030559	-			
48.7	219.1	88		7915428561781	-.592142	3.027824	-46.8	213.5	71	7915423830879	-.598408	2.277891	-			
54.3	208.1	75		7915425371677	-.798066	2.718550	-54.5	208.3	78	7915425349976	-.796193	2.716162	-			
56.7	208.5	81		7915420619073	-1.132274	2.226502	-69.3	198.9	82	7915422181573	-.688765	2.290928	-			
57.7	203.2	83		7915425313807	-.611494	2.368583	-51.3	210.1	85	7915422159872	-.739895	2.141374	-			
63.6	199.3	86		7915417443436	-.579741	1.706891	-46.5	214.0	88	7915418998703	-.621343	1.765580	-			
47.9	211.0	89		7915417421735	-.581764	1.710954	-47.6	215.1	93	7915423671735	-.590136	2.263386	-			
54.2	210.5	94		7915425234235	-.536072	2.438410	-47.6	217.3	95	7915425227001	-.522964	2.476355	-			
47.0	220.9	96		7915425219767	-.511713	2.472950	-49.0	213.5	97	7915425212534	-.553504	2.380228	-			
50.5	211.4	122		7915417183020	-.804259	1.542967	-48.2	212.7	124	7915417168552	-.828312	1.550600	-			
93.9	214.2	125		7915417161318	-.841845	1.550685	-50.5	212.8								

253	19	1	56	7915498584930	-.613404	2.596678	-51.2	213.5	57	7915497962823	-.565033	2.431278	-	REC	68, LENGTH	960
45.7	222.1	59		7915499178101	-.603501	2.658989	-51.4	210.5	60	7915499170867	-.603133	2.664109	-			
50.4	213.8	61		7915499163633	-.598907	2.629778	-51.1	216.6	71	7915497246677	-.583863	2.341057	-			
52	1	209	8	9	-	2.324163	-56.0	205.1	83	7915497774744	59 789	-				

4613 8 1 83	8220118748981	-.831537	.628735	-67.1	195.4265	8220122922881	-.746999	1.092486	-	REC	1. LENGTH	410
26.7 216.1347	8220122329710	-.761916	.953471	-61.5	190.2363	8220116723518	-.573826	.192451	-			
37.1 205.5377	8220116622245	-1.035440	.235137	-26.9	193.5441	8220114329131	-.560844	6.049538	-			
65.2 196.2472	8220114595335	-.912075	.769964	-70.1	146.8476	8220121396550	-.900526	1.049259	-			
56.9 146.8												
4614 2 1263	8220200628321	-.506704	1.918710	-27.3	204.4347	8220196360381	-.707571	1.015262	-	REC	2. LENGTH	110
58.3 190.2												
4615 15 1 79	8220253984803	-.583680	5.653065	-64.8	207.1 83	8220264936770	-.836271	.827207	-	REC	3. LENGTH	760
67.1 192.9 99	8220253840127	-.401512	5.681679	-26.4	145.7212	8220253022708	-.822346	5.349118	-			
57.9 202.0300	8220256046435	-1.093433	5.446859	-56.4	189.3350	8220253854594	-.867215	5.420367	-			
26.0 190.0353	8220248342442	-.517520	4.733271	-60.4	146.0363	8220261081157	-.626791	.292710	-			
31.5 207.4376	8220246176064	-.473926	4.758492	-23.0	199.6377	8220260979884	-1.041193	.251006	-			
26.9 193.5441	8220258686770	-.513287	6.072172	-59.4	202.6458	8220256733645	-.453430	5.927903	-			
27.4 196.4465	8220253022708	-.834116	5.351208	-59.9	198.2472	8220265783124	-.837924	.585367	-			
65.7 201.6476	8220265754189	-.849829	1.137469	-51.7	146.8							
4616 9 1 79	8220329845624	-.593687	5.689622	-66.1	207.1 83	8220338967442	-.812661	.917155	-	REC	4. LENGTH	460
65.8 192.9234	8220319573634	-.370222	4.381327	-23.3	202.8300	8220328245955	-1.065955	5.480771	-			
51.4 192.5372	8220318575370	-.666590	4.283592	-61.3	192.7376	8220320376585	-.483755	4.791649	-			
23.0 200.5377	8220335010555	-1.047005	.258706	-26.9	192.7423	8220320036597	-.494833	4.568168	-			
63.1 196.3441	8220334547592	-.479725	6.093832	-56.3	202.6							
4617 13 1 79	8220403876296	-.601098	5.726845	-64.3	206.2212	8220401084050	-.807463	5.381678	-	REC	5. LENGTH	660
57.9 201.0234	8220391774155	-.348814	4.386657	-23.3	203.8300	8220400447476	-1.040387	5.508619	-			
48.4 194.2353	8220354573634	-.512189	4.744976	-59.6	146.0363	8220407312349	-.672676	.404633	-			
29.1 204.5372	8220350775891	-.663804	4.325113	-61.7	192.7376	8220394407256	-.492832	4.826856	-			
23.0 199.6423	8220392237117	-.487215	4.561020	-62.2	196.3441	8220406748113	-.456649	6.106686	-			
54.4 203.6458	8220406625138	-.420923	5.951666	-27.4	196.4465	8220399253900	-.820597	5.382776	-			
59.5 198.2501	8220391672881	-.290280	4.269160	-49.4	209.4							
4618 11 1 99	8220477762291	-.376616	5.714159	-26.4	145.7254	8220467490300	-1.274021	4.610863	-	REC	6. LENGTH	560
27.7 146.8260	8220465616747	-1.143421	4.343587	-67.9	192.7300	8220472647997	-1.020367	5.530307	-			
47.1 195.9350	8220474116458	-.851328	5.443581	-26.0	194.2353	8220468604305	-.507060	4.753405	-			
60.0 146.0372	8220466636712	-.653866	4.370054	-61.3	193.6376	8220470268078	-.498523	4.870379	-			
23.0 200.5423	8220466267789	-.474600	4.553326	-63.1	196.3441	8220477118483	-.447067	6.120397	-			
54.9 202.6458	8220476995509	-.419951	5.965588	-27.4	193.5							
4619 14 1 75	8220531834918	-.578014	3.115213	-28.5	207.4 79	8220550107488	-.616687	5.609281	-	REC	7. LENGTH	710
64.3 202.5 99	8220549962812	-.371406	5.726752	-20.4	145.7168	8220536652627	-1.102848	3.826855	-			
23.1 217.0212	8220547315242	-.791789	5.407398	-54.5	201.0254	8220541520972	-1.278619	4.620681	-			
27.7 146.8260	8220539647418	-1.126269	4.391173	-68.9	197.7300	8220544848518	-1.001849	5.562625	-			
38.4 197.6350	8220546316979	-.846135	5.452822	-26.0	192.5353	8220542634976	-.501805	4.759749	-			
58.7 146.0372	8220538837233	-.648708	4.412692	-61.3	191.8376	8220546128900	-.500238	4.920019	-			
23.0 197.8423	8220540298460	-.458299	4.537996	-61.8	197.2465	8220545485092	-.800348	5.409280	-			
55.3 200.0												
4620 11 1 75	8220604035439	-.590048	3.156164	-28.5	207.4167	8220614350833	-.491520	4.560152	-	REC	8. LENGTH	560
54.5 194.8168	8220608853148	-1.119152	3.909439	-23.1	217.0212	8220619515763	-.785211	5.424642	-			
53.6 202.9260	8220611847939	-1.106592	4.438355	-65.7	200.7353	8220616665648	-.496591	4.768289	-			
57.9 146.0372	8220614698055	-.631988	4.453700	-61.7	190.9373	8220601879768	-.742498	2.840717	-			
52.2 206.8376	8220616499270	-.500570	4.966546	-23.0	197.8423	8220616159282	-.440017	4.523317	-			
58.8 198.0465	8220617685613	-.795188	5.421099	-55.7	197.3							
4621 8 1 75	8220678066110	-.602901	3.196010	-28.5	207.4 89	8220679794988	-1.257353	3.475108	-	REC	9. LENGTH	410
28.0 199.8168	8220679223518	-1.132186	3.988868	-23.1	215.0234	8220687896840	-.274284	4.431181	-			
23.3 203.8260	8220685878611	-1.083074	4.482018	-63.9	200.7372	8220686898576	-.611851	4.490627	-			
61.3 188.4423	8220686529652	-.426561	4.504242	-58.0	197.2501	8220687795567	-.214779	4.288732	-			
49.4 205.5												
4622 5 1 75	8220750223229	-.617537	3.231566	-28.5	207.4 89	8220750121955	-1.246985	3.484218	-	REC	10. LENGTH	260
28.0 200.7168	8220753210786	-1.143999	4.072565	-23.1	215.0373	8220748067557	-.732621	2.871297	-			

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// VCL=SER=L0015,
// DCB=(ERCT=ACC,RECFM=U,BLKSIZE=32000,
// TRTCH=ET,DEN=2)
//OUT2 DD SYSOUT=A,SPACE=(CYL,(10,5))
IEF2361 ALLOC. FOR ZEMJKE1 IRISHER
IEF2371 000 ALLOCATED TO IN1
IEF2371 232 ALLOCATED TO OUT2

153R0331
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