

308 --- Q200006070001
Scientific Notebook # 155, Identification of
Type I Faults

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R

H. L. McKague

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IDENTIFICATION OF TYPE I FAULTS

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PROJECT #: 20-1402-471

TITLE: IDENTIFICATION OF TYPE I
FAULTS

INVESTIGATOR: H. L. MCKAGUE

JULY 31, 1996 - TITLE - IDENTIFICATION OF TYPE I FAULTS

- PRINCIPAL INVESTIGATOR - H.L. McKAGUE
- ASSISTANCE FROM
 - RON MARTIN - ARC INFO
 - RENNER HOFFMAN - ACCELERATION EQUATION
 - ESTHER CANTU - ACCELERATION SPREAD SHEET ENTRY
 - PAUL MALDONADO - RUNNING OF SPREAD SHEET
 - JOHN STAMATAKOS - DATA ANALYSIS / INTERPRETATION
 - DAVID FERRIL - DATA ANALYSIS / INTERPRETATION w/ STRESS

THE MAJOR OBJECTIVE OF THIS TASK IS TO IDENTIFY TYPE I FAULTS (SEE NUREG 1451) WITHIN APPROXIMATELY 100 KMS OF YUCCA MOUNTAIN. A SECONDARY OBJECTIVE IS TO USE EXISTING ELECTRONIC FAULT COVERAGES.

OPs plan FY 96-97 - Major Milestones

PRELIMINARY

From discussions with Phil Justus on 5/31/95 regarding MM's for FY 96-97

Major Milestones FY 96

Tectonics/Seismicity - Critical Review of Type 1 Faults in Yucca Mountain Region. A letter report identifying and characterizing Type 1 faults. Report would include map showing faults identified as type one. Report may also include an assessment of type 1 faults in terms of slip-tendency analysis.

Date Due - 3/31/96

HLM:R 7/31/96

JULY 31, 1996

TWO ELECTRONIC FAULT COVERAGE
WERE IDENTIFIED IN CNURA GIS

1) NAKATA, J.K ET AL (1982) QUATERNARY
FAULT MAPS OF THE BASIN AND
RANGE AND RIO GRAND RIFT
PROVINCES, WESTERN UNITED STATES
SCALE 1:2,500,000. USGS
OFR 82-579

2) SIMONDS ET AL (1995) MAP
OF FAULT ACTIVITY OF THE
YUCCA MOUNTAIN AREA, NVE
CO, NV. USGS MI SERIES MAP
1-2520

A THIRD SOURCE OF FAULT INFOR-
MATION THAT WAS NOT IN ELECTRONIC
FORMAT WAS:

PIETY, L.A. (1996) COMPILATION OF
KNOWN AND SUSPECTED FAULTS
WITHIN 100 KM OF YUCCA MT.
SCALE 1:250,000 USGS OFR 94-12.
(DRAFT)

AIX MEK

AIX MEK

AUG 1, 1996

PROCEDURE FOLLOWED

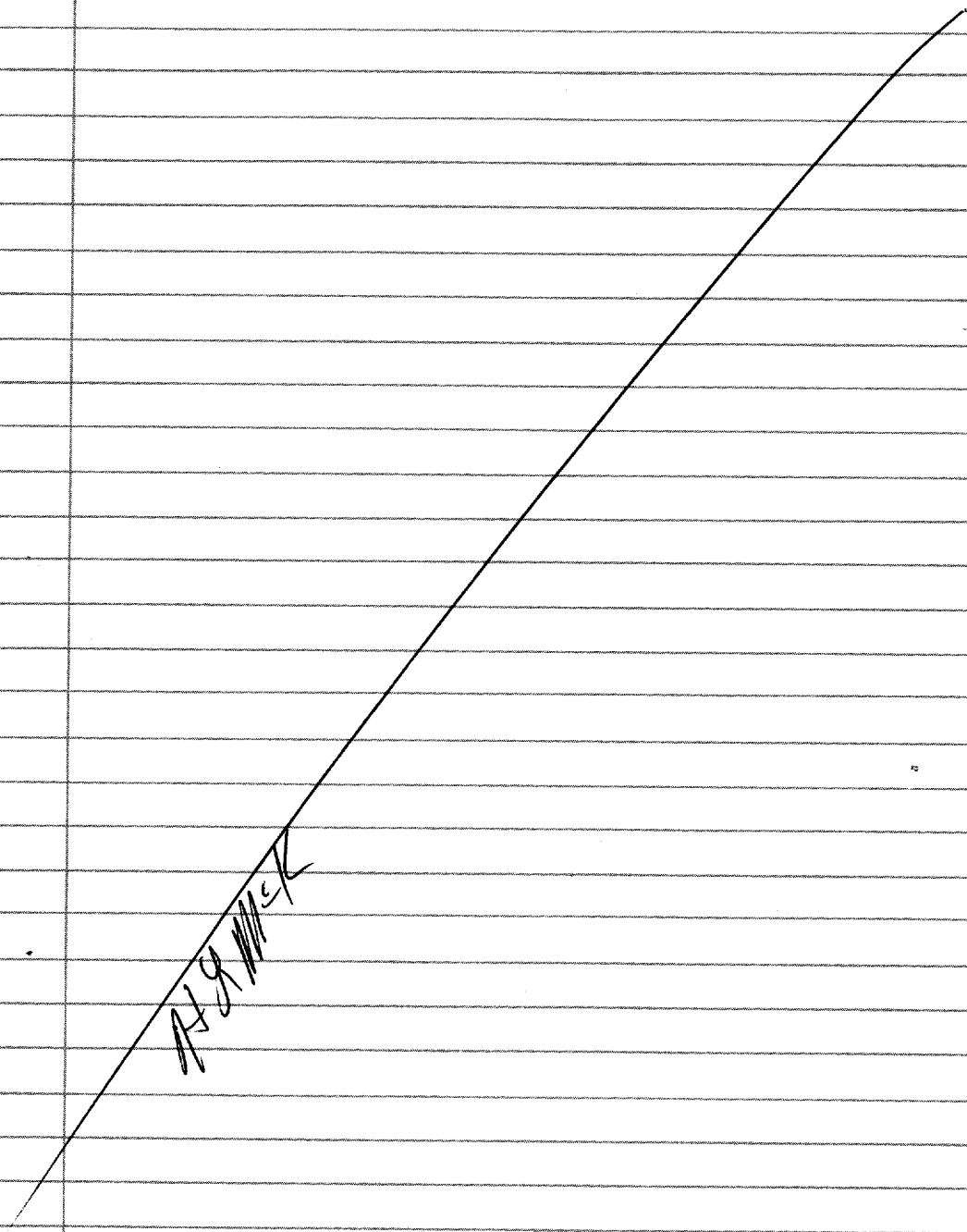
- 1) ON BOTH ELECTROIC COVERAGES
FAULTS < 4 KM WERE NOT CONSIDERED
- 2) ON BOTH MAPS THE ELECTRONIC
COVERAGES HAD SMALL GAPS ALONG
FAULT TRACE THAT RESULTED FROM
DIGITIZATION PROCESS. FOR FAULTS
LONGER THAN 4 KM THE GAPS
WERE FILLED I.E. SEGMENTS OF
FAULTS CONNECTED. THUS WHEN
ELECTROIC LENGTH OF FAULT AGREED
WITH THAT SHOWN ON MAPS.
- 3) ON SIMON'S COVERAGE SEGMENTS
OF SOME FAULTS WERE CONNECTED
ACROSS BURIED INTERVALS TO
MAXIMIZE LENGTH OF FAULTS
- 4) THE LENGTH OF EACH FAULT
AND THE DISTANCE BETWEEN THE
CENTER OF THE REPOSITORY (348371
m, NORTHING; 407774 m - EASTING
UTM COORDINATES).
- 5) FROM FAULT LENGTHS AND
CLOSEST APPROACH THE EARTHQUAKE
MAGNITUDE AND PEAK ACCELERATIONS
WERE CALCULATED

(SEE P

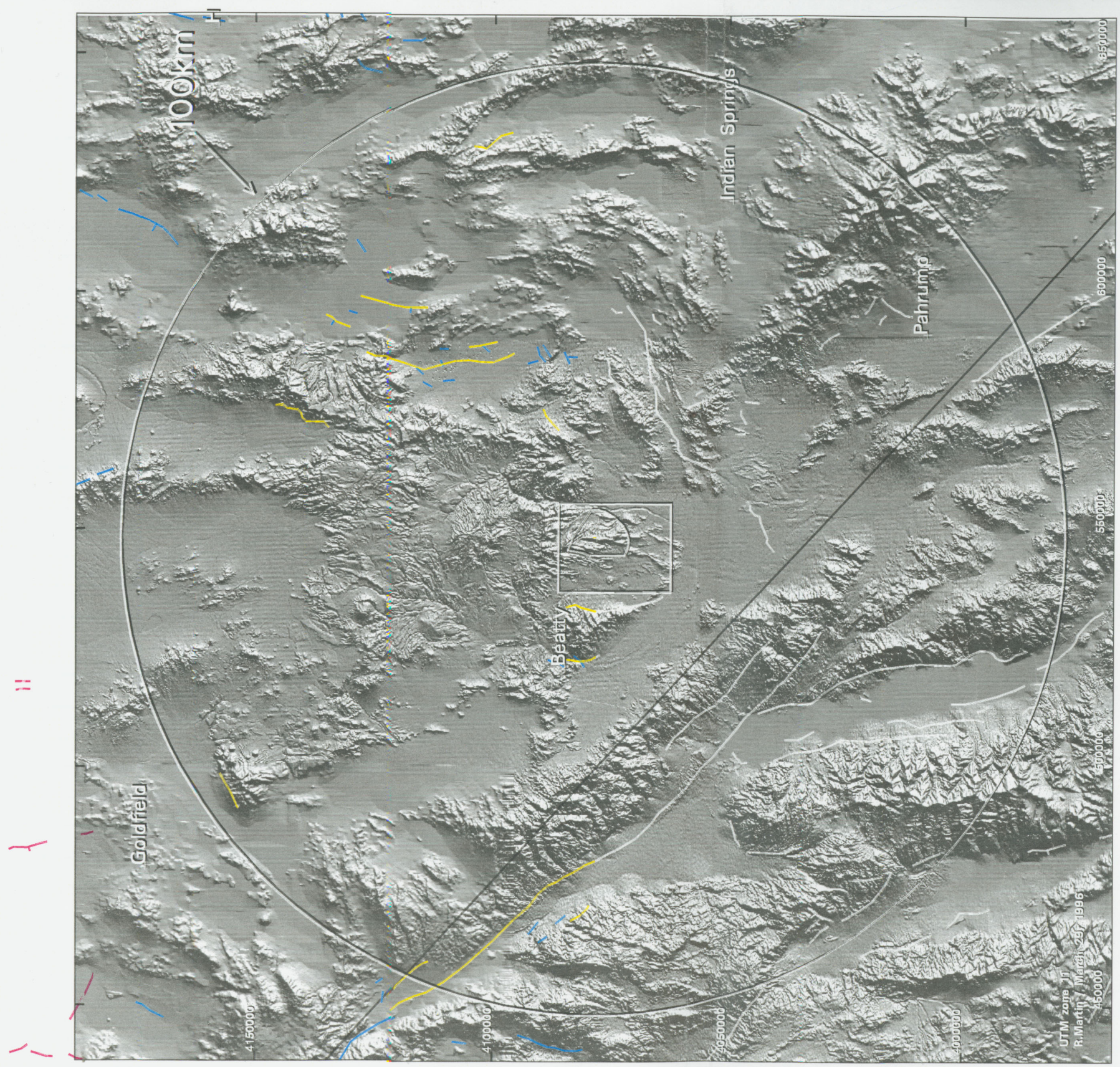
MAY 11-96

Aug 1, 1996

FACING PAGE MAP OF
FAULTS IN NAKATA ET AL
COVERAGE - CIRCLE RADIUS 100 KM



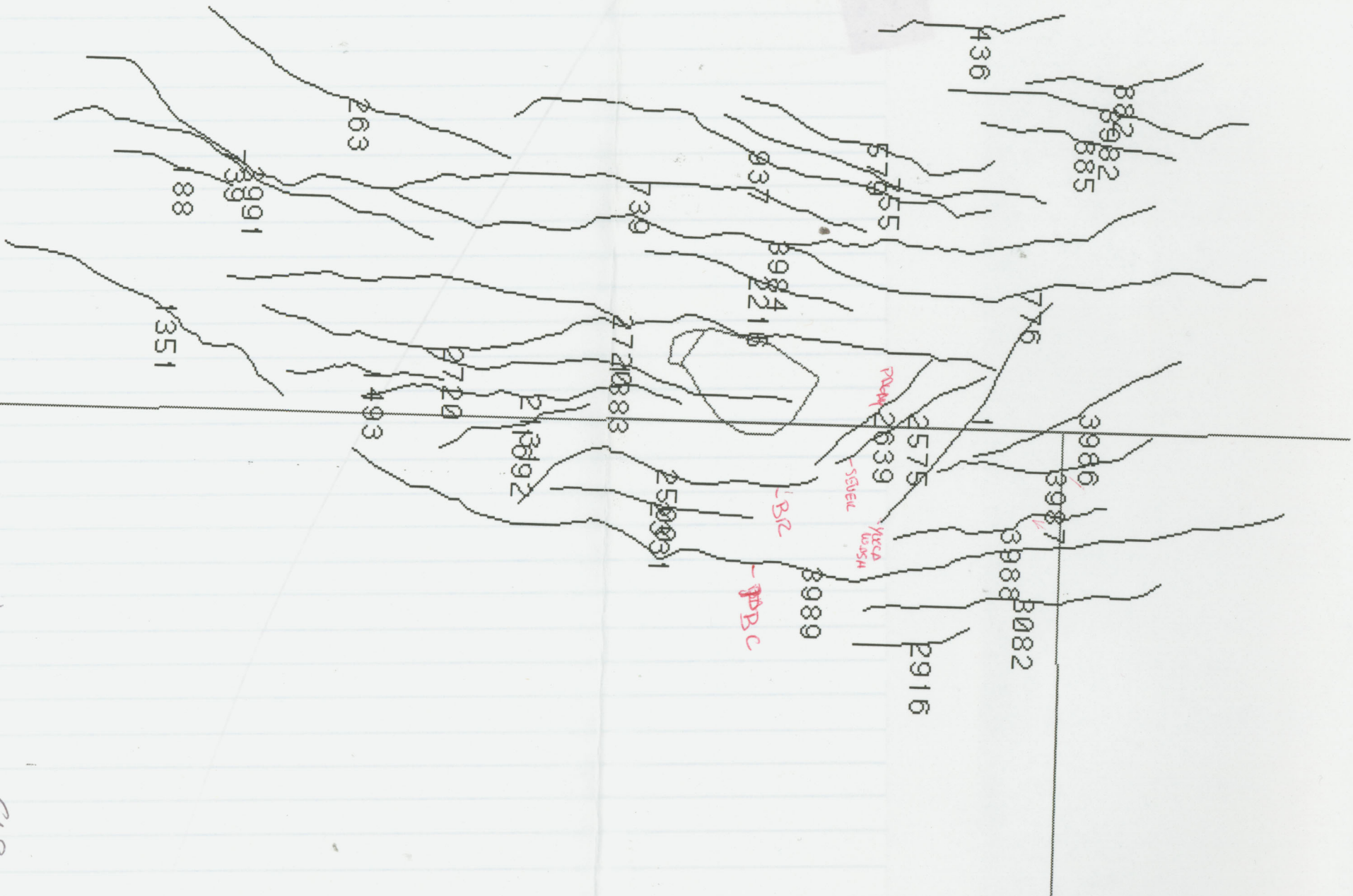
Aug 1, 1996



Selected Faults in Red. Map Scale: 1000000
R. Martin / SWRI / San Antonio Texas USA / 29 Mar 96 15:39:25 Friday

AUG 1, 1996 ON FACING PAGE - FAULTS
IN SIMOND ET AL (1995) COVERAGE (ELECTRONIC)
NUMBERS IDENTIFY FAULTS IN CNURA
GIS COVERAGE.

17211154



SHIMODA ET AL

AUG 1, 1996

CALCULATION OF EARTHQUAKE MAGNITUDE AND
PEAK ACCELERATIONEARTHQUAKE MAGNITUDE

EARTHQUAKE MAGNITUDE IS CALCULATED
FROM INDIVIDUAL FAULT LENGTH FROM
FORMULA IN:

WELLS, D. L. AND COPPERSMITH, K. J. (1994)
NEW EMPIRICAL RELATIONSHIPS AMONG
MAGNITUDE, RUPTURE LENGTH, RUPTURE
WIDTH, RUPTURE AREA AND SURFACE
DISPLACEMENT. BULL. SEISMO. SOC.
AMER., 84, 974-1002.

$$M_w = 5.08 + 1.16 \times \log L$$

M_w = MAXIMUM MOMENT MAGNITUDE
 L = FAULT LENGTH

EXAMPLE

$$L = 4 \text{ KM}$$

$$M_w = 5.08 + 1.16 \times 4$$

Length	constant	constant	LOG10(length)	EQ M_w
4	5.08	1.16	0.60205999	5.77838959

PEAK ACCELERATION

FORMULAE FROM CAMPBELL 1987
PREDICTING ^{STRONG} GROUND MOTION IN UTAH
USGS PROF. PAPER 87-585 II, P. 4-1-190

148/11/11

8/1/96 CONT

FORMULA FROM RENNEIR HOFMANN

$$\begin{aligned}
 \ln A &= -2.893 + 0.85 \ln [R + 0.0872 \cdot e^{0.678 M_w}] - 0.0059 R \quad \times 1.12 \text{ CORRECTION} \\
 \ln A &= -2.893 + 0.85 \ln (6.46) - 1.25 \ln [(14^2 + 4^2)^{1/2}] + 0.0872 e^{0.678(6.46)} - 0.0059(14^2 + 4^2)^{1/2} \\
 &= -2.893 + 5.491 - 1.25 \ln [(196 + 16)^{1/2}] + 0.0872 e^{4.37408} - 0.0059(196 + 16)^{1/2} \\
 &= -2.893 + 5.491 - 1.25 \ln [15.21] + 0.0872 (79.82845) - 0.0059 \sqrt{212} \\
 &= 2.598 - 1.25 \ln [14.56] + 19.610 - 0.0059 \times 14.560 \\
 &= 2.598 - 1.25 \ln [21.521] - 0.0859 \\
 &= 2.598 - 1.25 \times 3.0690 - 0.0859 \\
 &= 2.598 - 3.8363 - 0.0859 \\
 &= -1.3242
 \end{aligned}$$

$$\ln A = -1.3242$$

$$e^{\ln A} = A = 0.266 g$$

Peak *Right answer!* $\times 1.12 = 0.298 g$ (a little higher)
 But would be ok from the report.
 site close.

This formula worked - if I didn't err somewhere

Renner

8/1/96 CONT

SAMPLE CALCULATION TO CHECK FORMULA RUN BY KEVIN SMART

K.J. Smart -- 7/17/96

Sample Calculation

Given:

Fault: Amargosa River (AR), page A-3

Maximum Fault Length (L): 15 km

Closest Approach to Repository (r): 40

Magnitude Calculation:

$$M_w = 5.08 + 1.16 \cdot \log L$$

$$= 5.08 + 1.16 \cdot \log(15)$$

$$= 5.08 + 1.16 \cdot 1.18$$

$$= 5.08 + 1.36$$

$$M_w = 6.44$$

Mean Acceleration Calculation:

$$\begin{aligned}
 \ln A &= -2.893 + 0.85 \cdot M_w - 1.25 \cdot \ln \left[\left(\sqrt{r^2 + 16} \right) + 0.0872 e^{0.678 M_w} \right] - 0.0059 r \\
 &= -2.893 + 0.85 \cdot 6.44 - 1.25 \cdot \ln \left[\left(\sqrt{40^2 + 16} \right) + 0.0872 e^{0.678 \cdot 6.44} \right] - 0.0059 \cdot 40 \\
 &= -2.893 + 5.47 - 1.25 \cdot \ln [(40.20) + 0.0872 e^{4.37}] - 0.236 \\
 &= -2.893 + 5.47 - 1.25 \cdot \ln [(40.20) + 6.89] - 0.236 \\
 &= -2.893 + 5.47 - 1.25 \cdot \ln [47.09] - 0.236 \\
 &= -2.893 + 5.47 - 4.82 - 0.236
 \end{aligned}$$

$$\ln A = -2.48$$

$$= e^{-2.48}$$

$$A = 0.08 g$$

Peak Acceleration Calculation:

$$\text{PeakAcceleration} = 1.12 \cdot A$$

$$\text{PeakAcceleration} = 0.09 g$$

8/1/96

CALCULATION OF PEAK ACCELERATION FOR FAULT

ORDER
ON

SIMOND

6/10/96
9:54 AM

Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
1	486	11829.163	11.829163	19.422	0.019422	3.094420982	0.02850714812	0.031928006
2	2893	8739.866	8.739866	29.226	0.029226	3.300292481	0.04641940757	0.051989736
3	2906	8828.773	8.828773	137.228	0.137228	4.079433571	0.08342340351	0.093434212
4	2901	8764.993	8.764993	224.999	0.224999	4.328529482	0.1008826216	0.112994854
5	2906	8805.997	8.805997	23.373	0.023373	3.187708773	0.04216611774	0.047226062
6	1079	8315.667	8.315667	54.649	0.054649	3.615595374	0.06224775330	0.069717484
7	2899	8703.274	8.703274	206.54	0.20654	4.28540484	0.09841931487	0.110229833
8	2907	8769.8	8.7698	82.644	0.082644	3.823965142	0.06929887664	0.077615862
9	1078	8233.246	8.233246	57.572	0.057572	3.641845127	0.06412153585	0.07181612
10	2731	7808.924	7.808924	155.951	0.155951	4.14386627	0.09803765540	0.109802174
11	2907	8747.034	8.747034	32.759	0.032759	3.357783538	0.04851520015	0.054337024
12	2907	8747.034	8.747034	26.712	0.026712	3.254979431	0.04476126353	0.050132615
13	2909	8708.219	8.708219	64.921	0.064921	3.702366833	0.06360646277	0.071239238
14	1077	8377.223	8.377223	78.963	0.078963	3.801011422	0.07118301486	0.079724977
15	2910	8674.573	8.674573	73.846	0.073846	3.767259292	0.06708743251	0.075137924
16	2890	8457.248	8.457248	76.752	0.076752	3.786704053	0.06977724008	0.078150609
17	2891	8449.542	8.449542	60.112	0.060112	3.663594966	0.06358877880	0.071219432
18	2908	8656.362	8.656362	132.803	0.132803	4.062921148	0.08397285555	0.094049598
19	842	10053.975	10.053975	100.336	0.100336	3.921689869	0.06509912574	0.072911021
20	2898	8602.222	8.602222	316.064	0.316064	4.499739037	0.11610749400	0.130040393
21	1894	8641.269	8.641269	95.73	0.09573	3.898015748	0.07434612520	0.08326766
22	1073	8237.16	8.23716	148.445	0.148445	4.119016066	0.09170243279	0.102706725
23	1073	8237.16	8.23716	14.44	0.01444	2.945097944	0.03721104525	0.041676371
24	928	8287.794	8.287794	100.36	0.10036	3.921810357	0.07875863861	0.088209678
25	1896	8694.368	8.694368	69.109	0.069109	3.733860146	0.06525652248	0.073087306
26	2898	8528.421	8.528421	80.836	0.080836	3.812821586	0.07060057954	0.079072649
27	1072	8474.425	8.474425	345.819	0.345819	4.545064667	0.12153922004	0.136123828
28	1076	8132.629	8.132629	305.583	0.305583	4.482749861	0.12065138752	0.135129564
29	2742	8378.714	8.378714	114.028	0.114028	3.986133348	0.08179246987	0.091607568
30	2736	8324.433	8.324433	58.929	0.058929	3.653581723	0.06401893795	0.07170121
31	926	7976.127	7.976127	235.988	0.235988	4.352552307	0.11187669601	0.1253019
32	3032	8780.742	8.780742	280.984	0.280984	4.440470645	0.10920639875	0.122311167
33	1895	8576.752	8.576752	111.775	0.111775	3.976079827	0.07940213876	0.088930395
34	2743	8348.221	8.348221	46.232	0.046232	3.53133351	0.05812458743	0.065099538
35	2737	8344.936	8.344936	225.885	0.225885	4.330509375	0.10572409262	0.118410984
36	419	11147.003	11.147003	541.46	0.54146	4.770937	0.10998234038	0.123180221
37	2743	8291.372	8.291372	63.696	0.063696	3.692770106	0.06621499541	0.074160795
38	2854	8289.055	8.289055	190.204	0.190204	4.243894789	0.09990064388	0.111888721
39	2863	8372.469	8.372469	110.894	0.110894	3.972093337	0.08099688093	0.090716807
40	2743	8186.582	8.186582	146.658	0.146658	4.112914679	0.09181191933	0.10282935
41	2833	7969.252	7.969252	97.042	0.097042	3.904873297	0.08066389336	0.090343661
42	930	8289.366	8.289366	545.336	0.545336	4.774530435	0.14540685251	0.162855675
43	2869	8192.964	8.192964	63.028	0.063028	3.687458891	0.06670392152	0.074708392
44	438	11625.437	11.625437	123.666	0.123666	4.027010364	0.06055903527	0.06782612
45	2594	7169.695	7.169695	782.732	0.782732	4.956591183	0.18497106337	0.207187581
46	2847	8012.751	8.012751	82.072	0.082072	3.820466219	0.07533443857	0.084374571
47	2870	8119.136	8.119136	58.541	0.058541	3.650253759	0.06539960610	0.073247559
48	2852	7898.527	7.898527	44.272	0.044272	3.509509804	0.06027151238	0.067504094
49	2826	7982.157	7.982157	13.371	0.013371	2.906350111	0.03722085927	0.041687362
50	2872	8058.842	8.058842	76.864	0.076864	3.787438658	0.07308891572	0.081859888
51	2874	8058.842	8.058842	77.134	0.077134	3.78920519	0.07318644460	0.081968818
52	906	9546.098	9.546098	152.865	0.152865	4.13379735	0.08050296549	0.090163321

Page 1

ON SIMOND ET AL (1995) MAP OF FAULT

8/1/96 (CONT)

ACTIVITY OF THE YUCCA MOUNTAIN
AREA, NYE COUNTY NEVADA USGS MISCEL.
INVESTIGATION SERIES MAP 1-2520

SIMOND

6/10/96
9:54 AM

Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
53	2872	8041.808	8.041808	17.829	0.017829	3.051307303	0.04144593835	0.046419451
54	2853	7865.005	7.865005	151.403	0.151403	4.128955998	0.09635378864	0.107916243
55	2846	7865.005	7.865005	116.623	0.116623	3.997469682	0.08746592842	0.09796184
56	928	7873.88	7.87388	695.288	0.695288	4.896911091	0.16499139906	0.184790367
57	2826	7832.641	7.832641	153.615	0.153615	4.136263005	0.09722988595	0.108897472
58	1064	7392.201	7.392201	81.622	0.081622	3.817696389	0.08092116834	0.090631708
59	3089	8188.843	8.188843	248.943	0.248943	4.379475906	0.11140465537	0.124773214
60	1056	7289.775	7.289775	92.383	0.092383	3.880086791	0.08582609580	0.096125227
61	988	7923.647	7.923647	291.538	0.291538	4.459048397	0.12139571493	0.135963201
62	2826	7549.767	7.549767	303.703	0.303703	4.479640935	0.12841300121	0.143822561
63	2847	7699.683	7.699683	389.703	0.389703	4.605251149	0.13784383594	0.154385096
64	2849	7699.683	7.699683	281.486	0.281486	4.441369888	0.12291360868	0.137663242
65	2860	7867.727	7.867727	341.735	0.341735	4.539079775	0.12922568626	0.144732789
66	987	8007.473	8.007473	589.075	0.589075	4.813397887	0.15379468854	0.172250061
67	956	8012.186	8.012186	184.767	0.184767	4.229284313	0.10194576657	0.114179258
68	987	8012.186	8.012186	98.134	0.098134	3.910510622	0.08060259898	0.090274911
69	2847	7662.102	7.662102	41.347	0.041347	3.475075045	0.06039739437	0.067645082
70	2850	7662.102	7.662102	118.349	0.118349	4.004870927	0.09004921462	0.10086512
71	2850	7662.102	7.662102	5.549	0.005549	2.463289081	0.02716935956	0.030429683
72	975	8040.699	8.040699	140.427	0.140427	4.091042717	0.09184971204	0.102871677
73	990	7743.494	7.743494	45.459	0.045459	3.522839058	0.06203739435	0.069481882
74	2847	7625.018	7.625018	43.765	0.043765	3.503707242	0.06201902792	0.069461311
75	2851	7625.018	7.625018	163.121	0.163121	4.166511455	0.10180229262	0.114018868
76	2726	6697.828	6.697828	40.211	0.040211	3.461040053	0.06743501846	0.075527221
77	989	7751.764	7.751764	38.286	0.038286	3.436326394	0.05798893056	0.064945382
78	2847	7570.018	7.570018	61.012	0.061012	3.671081703	0.07092886097	0.079440324
79	971	8063.097	8.063097	140.094	0.140094	4.089846661	0.09153552509	0.102519788
80	1063	7084.567	7.084567	129.191	0.129191	4.049029421	0.09962283956	0.11157758
81	1041	7084.842	7.084842	89.795	0.089795	3.8657725	0.08706466050	0.09751242
82	1042	7083.285	7.083285	124.709	0.124709	4.031241444	0.09835379839	0.110156254
83	980	7650.292	7.650292	172.546	0.172546	4.194809679	0.10361118248	0.116044624
84	978	7650.292	7.650292	369.034	0.369034	4.577797002	0.13598333700	0.152301337
85	1040	6962.315	6.962315	217.901	0.217901	4.312380699	0.12214138279	0.136798349
86	979	7571.237	7.571237	205.157	0.205157	4.282020154	0.11134293513	0.124704067
87	2662	6719.33	6.71933	73.345	0.073345	3.763829795	0.08446869054	0.094604933
88	978	7580.973	7.580973	72.072	0.072072	3.755009226	0.07546926501	0.084525577
89	2718	6398.077	6.398077	48.104	0.048104	3.551330181	0.07507238848	0.084081078
90	2664	6669.864	6.669864	68.79	0.06879	3.731529359	0.08297836068	0.092935764
91	2725	6366.494	6.366494	129.539	0.129539	4.050384627	0.10891909246	0.121939384
92	2783	6461.228	6.461228	88.764	0.088764	3.859954763	0.09369958632	0.104943514
93	2795	6830.549	6.830549	336.607	0.336607	4.531462846	0.14452061770	0.161863082
94	2663	6577.052	6.577052	125.557	0.125557	4.034655479	0.10490097073	0.117489087
95	2782	6360.628	6.360628	92.332	0.092332	3.879808802	0.09629666299	0.107852263
96	1047	6775.454	6.775454	304.015	0.304015	4.480158214	0.14039932855	0.157247248
97	1045	6775.454	6.775454	11.507	0.011507	2.830716051	0.04090882412	0.045817883
98	1044	6691.554	6.691554	382.752	0.382752	4.596184264	0.15350752650	0.17192843
99	2802	6640.904	6.640904	135.648	0.135648	4.073599538	0.10704837762	0.119894183
100	2836	7114.787	7.114787	726.921	0.726921	4.91932517	0.18159985398	0.203381836
101	2837	7062.439	7.062439	487.929	0.487929	4.718493692	0.15984921168	0.179031117
102	982	7074.015	7.074015	125.561	0.125561	4.034671528	0.09871078988	0.110556065
103	1045	6495.768	6.495768	310.623	0.310623	4.490990987	0.14618512059	0.163727336
104	2747	6247.649	6.247649	319.693	0.319693	4.505490427	0.15206330172	0.170310689

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
105	1052	6385.033	6.385033	80.563	0.080563	3.811117331	0.09127180441	0.102224421
106	884	8042.117	8.042117	47.187	0.047187	3.541633946	0.06073002217	0.068017625
107	2797	6202.966	6.202966	220.834	0.220834	4.319116489	0.13446709477	0.150603146
108	2801	6290.698	6.290698	149.403	0.149403	4.122256809	0.11577068035	0.129663162
109	1050	6302.598	6.302598	65.468	0.065468	3.706593726	0.08537631801	0.095621476
110	1034	6749.844	6.749844	94.84	0.09484	3.893310193	0.09260679166	0.103719607
111	2674	5858.028	5.858028	186.877	0.186877	4.23500479	0.13294303338	0.148224197
112	2657	6092.715	6.092715	489.362	0.489362	4.719971081	0.17878489880	0.200239087
113	1035	6610.168	6.610168	194.322	0.194322	4.254685487	0.12230065661	0.136976736
114	1029	6584.081	6.584081	947.238	0.947238	5.05269257	0.20961267016	0.234766191
115	2672	5797.673	5.797673	38.723	0.038723	3.442044036	0.07488015405	0.083865773
116	2659	5974.244	5.974244	74.699	0.074699	3.773045154	0.09359084805	0.10482175
117	1051	6105.337	6.105337	174.555	0.174555	4.20064146	0.12525352366	0.140283940
118	2667	5700.606	5.700606	328.024	0.328024	4.518450519	0.16386979417	0.183534189
119	1031	6479.4	6.4794	131.329	0.131329	4.057298339	0.10793234451	0.120884226
120	2669	5746.14	5.74614	340.47	0.34047	4.537211467	0.16502797189	0.184831329
121	2830	6266.726	6.266726	113.74	0.11374	3.98485934	0.10519798336	0.117821741
122	2602	5792.037	5.792037	94.033	0.094033	3.889005139	0.10431456619	0.116832314
123	2831	6238.764	6.238764	91.316	0.091316	3.87423438	0.09740781874	0.109096533
124	2665	5788.972	5.788972	6.916	0.006916	2.574231782	0.03824797717	0.042837734
125	3037	7978.311	7.978311	1050.472	1.050472	5.104805998	0.18717448062	0.209635418
126	2658	5905.712	5.905712	162.585	0.162585	4.164853351	0.12522896731	0.140256443
127	2673	5661.535	5.661535	74.572	0.074572	3.772187917	0.09746514536	0.109160963
128	479	10111.916	10.111916	173.318	0.173318	4.197058656	0.07967662151	0.089237816
129	478	10044.181	10.044181	188.567	0.188567	4.239540202	0.08279899051	0.092734869
130	442	9964.461	9.964461	101.027	0.101027	3.92514745	0.06587207015	0.073776719
131	991	5966.662	5.966662	105.654	0.105654	3.947707695	0.10640726548	0.119176137
132	2645	5585.071	5.585071	48.231	0.048231	3.552658469	0.08373187778	0.093779703
133	2803	5803.706	5.803706	321.103	0.321103	4.507707461	0.16066279108	0.179942326
134	2747	5827.512	5.827512	443.688	0.443688	4.670610112	0.17856068866	0.199897971
135	3955	6670.858	6.670858	55.864	0.055864	3.626673154	0.07670400138	0.085908482
136	886	7932.284	7.932284	431.02	0.43102	4.65601701	0.13919750316	0.155901204
137	2623	5784.171	5.784171	94.323	0.094323	3.890556422	0.10453917294	0.117083874
138	2765	5823.652	5.823652	144.556	0.144556	4.105641902	0.12135042899	0.135912479
139	2764	5748.766	5.748766	59.271	0.059271	3.656497015	0.08847619559	0.099093339
140	2600	5552.587	5.552587	415.975	0.415975	4.638117987	0.18062491956	0.20229991
141	871	8792.293	8.792293	91.971	0.091971	3.877835054	0.07200515486	0.080645773
142	2622	5674.318	5.674318	93.453	0.093453	3.885888167	0.10589434910	0.118377671
143	2757	5770.957	5.770957	66.936	0.066936	3.717765317	0.09229855008	0.103374376
144	2648	5392.889	5.392889	169.581	0.169581	4.186077543	0.13568034794	0.15196199
145	2774	5825.264	5.825264	249.803	0.249803	4.381213274	0.14703845035	0.164683064
146	2601	5365.216	5.365216	390.64	0.39064	4.606480985	0.18096200840	0.202677449
147	2646	5330.581	5.330581	26.715	0.026715	3.255036007	0.06931488239	0.077632668
148	2647	5299.922	5.299922	69.581	0.069581	3.737289173	0.09971922377	0.111685531
149	2631	5347.874	5.347874	207.676	0.207676	4.28816812	0.14644110531	0.164014038
150	864	8721.908	8.721908	70.478	0.070478	3.743742143	0.06554733398	0.073413014
151	1005	5980.11	5.98011	78.914	0.078914	3.800698707	0.09543770807	0.106890233
152	898	7654.555	7.654555	152.648	0.152648	4.133081697	0.09901624297	0.110898192
153	3	5348.266	5.348266	228.895	0.228895	4.337178115	0.15142801877	0.169599381
154	2766	5542.411	5.542411	404.417	0.404417	4.623922108	0.17916707846	0.200667128
155	853	8993.061	8.993061	218.213	0.218213	4.313101519	0.09737522744	0.109060255
156	865	8621.662	8.621662	85.305	0.085305	3.839930405	0.07131242474	0.079869916

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
157	884	7547.128	7.547128	1075.193	1.075193	5.116524257	0.19710296644	0.220755322
158	3034	7277.846	7.277846	108.72	0.10872	3.962118955	0.09132555099	0.102284617
159	2620	5246.495	5.246495	105.347	0.105347	3.94624172	0.11678146784	0.130795244
160	2	5265.063	5.265063	308.621	0.308621	4.48773355	0.16936144655	0.18668482
161	2769	5487.049	5.487049	71.288	0.071288	3.74949906	0.09811523354	0.109899062
162	888	7589.907	7.589907	149.38	0.14938	4.122179248	0.09897260714	0.11084932
163	2750	5371.618	5.371618	1147.553	1.147553	5.149336393	0.25417787925	0.284679225
164	2767	5394.604	5.394604	210.287	0.210287	4.294462413	0.14620688513	0.163751711
165	2621	5169.278	5.169278	83.49	0.08349	3.829095975	0.10847759546	0.121494907
166	1004	5635.074	5.635074	270.787	0.270787	4.421848261	0.15476610520	0.173338038
167	1002	5635.074	5.635074	108.677	0.108677	3.961919664	0.11222173666	0.12588345
168	2768	5280.715	5.280715	74.001	0.074001	3.768315603	0.10226281569	0.114534354
169	2770	5300.178	5.300178	105.354	0.105354	3.946275194	0.11585836124	0.129873365
170	851	8635.419	8.635419	1187.304	1.187304	5.16649184	0.18252897543	0.204432452
171	2628	4922.252	4.922252	67.277	0.067277	3.720325276	0.10367477395	0.116115747
172	887	7474.825	7.474825	131.204	0.131204	4.056818608	0.09563669526	0.107113099
173	2627	4858.81	4.85881	53.309	0.053309	3.603088622	0.09600611384	0.107526847
174	1004	5464.682	5.464682	191.654	0.191654	4.24772075	0.14031875596	0.157157007
175	2691	4555.302	4.555302	246.129	0.246129	4.373748833	0.17161986941	0.192214254
176	3035	7195.763	7.195763	615.316	0.615316	4.835353921	0.17030933853	0.190748459
177	3039	7285.644	7.285644	587.869	0.587869	4.812365449	0.16608048971	0.188010126
178	3034	7257.9	7.2579	585.656	0.585656	4.810465412	0.16637443937	0.186339372
179	996	5379.539	5.379539	419.361	0.419361	4.642202125	0.18492559020	0.207116061
180	2615	4664.605	4.664605	65.868	0.065868	3.709662393	0.10657001963	0.119958422
181	3039	7257.283	7.257283	153.689	0.153689	4.13650563	0.10399234912	0.116471431
182	2617	4593.702	4.593702	59.628	0.059628	3.659522282	0.10377455024	0.116227496
183	2694	4276.69	4.27669	69.778	0.069778	3.73871348	0.11477422766	0.128647135
184	2616	4500.816	4.500816	200.161	0.200161	4.269600176	0.16117836066	0.180519764
185	2618	4473.51	4.47351	92.369	0.092369	3.880010441	0.12356370911	0.138391364
186	449	10095.633	10.095633	345.124	0.345124	4.544051187	0.10301976499	0.115362137
187	2608	4643.385	4.643385	147.266	0.147266	4.114998889	0.14237215425	0.159458813
188	947	6429.914	6.429914	188.431	0.188431	4.239176729	0.12364969533	0.138487659
189	997	5206.401	5.206401	564.434	0.564434	4.791871273	0.20788552278	0.232831786
190	2752	4300.908	4.300908	196.463	0.196463	4.260205695	0.16434410985	0.184085403
191	2705	4222.522	4.222522	184.506	0.184506	4.228572173	0.16252253289	0.182025237
192	2698	4165.495	4.165495	46.945	0.046945	3.539043638	0.10089442799	0.113001759
193	3042	6343.369	6.343369	191.309	0.191309	4.246813066	0.12564286923	0.140720014
194	2610	4247.535	4.247535	267.751	0.267751	4.416168078	0.18350514466	0.205525762
195	999	4985.06	4.98506	725.154	0.725154	4.918099086	0.23086110698	0.25856444
196	2637	4050.46	4.05046	148.577	0.148577	4.119463839	0.15437150959	0.172896091
197	3086	6781.171	6.781171	145.272	0.145272	4.108131022	0.10787926517	0.120824777
198	2610	4136.498	4.136498	114.266	0.114266	3.987183749	0.13936670662	0.156090711
199	3094	7191.72	7.19172	609.113	0.609113	4.830249527	0.16980801302	0.190184975
200	2753	4082.638	4.082638	401.852	0.401852	4.620716716	0.21361510964	0.239248923
201	2754	4013.511	4.013511	63.69	0.06369	3.692722649	0.11514386013	0.128961123
202	3063	5982.827	5.982827	57.603	0.057603	3.642116319	0.08485701484	0.095089857
203	3062	5931.603	5.931603	270.946	0.270946	4.422143983	0.14925381454	0.167164272
204	2606	3877.56	3.87756	246.501	0.246501	4.374509675	0.18709113733	0.209542074
205	892	6620.787	6.620787	258.648	0.258648	4.398742584	0.13513814258	0.15135472
206	2613	3913.708	3.913708	37.265	0.037265	3.422709306	0.09599458269	0.107513944
207	3066	6003.195	6.003195	126.882	0.126882	4.039944018	0.11317977362	0.126761346
208	3038	6828.156	6.828156	14.199	0.014199	2.936619001	0.04416251713	0.049462019

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
209	1907	3676.187	3.676187	519.06	0.51906	4.749652372	0.24286331952	0.272006918
210	1906	3501.143	3.501143	169.923	0.169923	4.187092514	0.17342768083	0.194239003
211	1905	3491.775	3.491775	150.698	0.150698	4.126604687	0.16676629048	0.186778245
212	1910	3611.632	3.611632	578.934	0.578934	4.804649705	0.25294363160	0.283296867
213	1910	3611.632	3.611632	4.95	0.00495	2.405742031	0.04622547813	0.051772538
214	1	4693.336	4.693336	6660.133	6.660133	6.035240166	0.43552723821	0.487790507
215	2247	3570.81	3.57081	26.405	0.026405	3.249155959	0.08864590996	0.099283419
216	2911	6826.54	6.82654	298.352	0.298352	4.470685586	0.13865161543	0.155289009
217	2248	3446.41	3.44641	169.475	0.169475	4.185762545	0.17447985949	0.195417443
218	2221	3776.08	3.77608	86.728	0.086728	3.848264824	0.13276188854	0.148693315
219	2295	3205.252	3.205252	144.311	0.144311	4.104787346	0.17042990844	0.190881497
220	2296	3041.996	3.041996	84.833	0.084833	3.837135198	0.14510296274	0.162515318
221	2218	3475.631	3.475631	564.822	0.564822	4.792217461	0.25502487436	0.285627859
222	2217	3475.631	3.475631	286.78	0.28678	4.450756678	0.20654342156	0.231328632
223	2218	3365.693	3.365693	113.084	0.113084	3.981945348	0.15370524550	0.172149875
224	2954	5492.282	5.492282	314.707	0.314707	4.497571427	0.16576484227	0.185658623
225	2222	3269.33	3.26933	141.146	0.141146	4.093615547	0.16780250657	0.187938807
226	2244	3074.036	3.074036	136.076	0.136076	4.075186858	0.16985848236	0.1902415
227	2974	5638.509	5.638509	86.979	0.086979	3.849720716	0.10344539843	0.115858846
228	2939	5492.282	5.492282	184.647	0.184647	4.228957017	0.13802103942	0.154583664
229	2939	5492.282	5.492282	79.858	0.079858	3.806689378	0.10222169806	0.114488302
230	2223	3260.531	3.260531	43.147	0.043147	3.496542701	0.11088105329	0.12418678
231	3016	7667.737	7.667737	88.756	0.088756	3.859909357	0.08080547271	0.090502129
232	2245	3078.922	3.078922	233.972	0.233972	4.348230109	0.20295213346	0.227306389
233	2293	2810.784	2.810784	37.482	0.037482	3.425634397	0.11186545116	0.125289305
234	2219	3279.226	3.279226	66.67	0.06667	3.715759328	0.12928313535	0.144797112
235	621	6404.765	6.404765	71.237	0.071237	3.749138521	0.08696309829	0.09739667
236	3005	7297.685	7.297685	45.04	0.04504	3.518174123	0.06528545729	0.073119712
237	3014	7644.781	7.644781	54.61	0.05461	3.615235725	0.06737295893	0.075457714
238	826	4259.643	4.259643	268.052	0.268052	4.4167341	0.18329331808	0.205288516
239	3006	7231.99	7.23199	58.432	0.058432	3.649314872	0.07271271586	0.081438242
240	2246	2929.408	2.929408	136.913	0.136913	4.078275837	0.17327365888	0.194066496
241	804	4164.017	4.164017	60.871	0.060871	3.669916106	0.11095072181	0.124264808
242	2301	2667.582	2.667582	122.296	0.122296	4.021398213	0.17219332274	0.192850621
243	3010	7335.082	7.335082	213.878	0.213878	4.302992693	0.11614746725	0.130085163
244	806	4044.784	4.044784	125.494	0.125494	4.034402636	0.14575198381	0.163242222
245	2983	7306.221	7.306221	216.429	0.216429	4.308965925	0.11703416367	0.131078263
246	806	4009.787	4.009787	37.661	0.037661	3.428034543	0.09507560987	0.106484688
247	2286	2505.093	2.505093	304.188	0.304188	4.48044481	0.23538333414	0.263629334
248	822	3895.674	3.895674	152.806	0.152806	4.133602873	0.15904004600	0.178124852
249	829	3356.87	3.35687	27.129	0.027129	3.262783191	0.09227380247	0.103348436
250	2287	2476.189	2.476189	202.878	0.202878	4.276392548	0.20783156299	0.232771351
251	808	3968.365	3.968365	71.907	0.071907	3.753854557	0.12102004290	0.135542448
252	804	3968.365	3.968365	225.528	0.225528	4.329712544	0.17980459711	0.201157149
253	3021	7721.424	7.721424	165.543	0.165543	4.173936553	0.10122112124	0.113367856
254	830	3333.421	3.333421	246.079	0.246079	4.373646482	0.20004191124	0.224048941
255	2310	2276.707	2.276707	71.981	0.071981	3.754372736	0.15048023259	0.168537861
256	808	3899.462	3.899462	237.427	0.237427	4.355614922	0.18428571914	0.206400005
257	828	3333.312	3.333312	32.929	0.032929	3.360391109	0.09945543642	0.111390089
258	2310	2231.567	2.231567	45.864	0.045864	3.527307437	0.12918933589	0.144692076
259	2306	2245.978	2.245978	130.364	0.130364	4.053582906	0.18456150549	0.206708966
260	823	3862.764	3.862764	45.807	0.045807	3.526680946	0.10430564265	0.116822332

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
261	2305	2212.735	2.212735	126.154	0.126154	4.037045189	0.18322775667	0.205215067
262	2308	2160.761	2.160761	53.735	0.053735	3.607098414	0.13772459028	0.154251541
263	811	4030.765	4.030765	239.103	0.239103	4.359158629	0.18167533002	0.203476337
264	2574	2852.469	2.852469	91.34	0.09134	3.874366768	0.15246260987	0.170758123
265	807	3823.061	3.823061	47.887	0.047887	3.549052451	0.10659775397	0.119389484
266	2994	7280.777	7.280777	99.016	0.099016	3.915018238	0.08817280910	0.098753646
267	816	3557.111	3.557111	483.034	0.483034	4.713414133	0.24090311428	0.269811488
268	815	3731.199	3.731199	191.709	0.191709	4.247865302	0.17535923612	0.196402344
269	3028	7533.767	7.533767	8.976	0.008976	2.705576099	0.03354985751	0.03757584
270	2922	7354.673	7.354673	719.373	0.719373	4.914066795	0.17634456544	0.197506918
271	807	3826.528	3.826528	173.79	0.17379	4.198428749	0.16762315878	0.187737938
272	2231	2288.685	2.288685	180.492	0.180492	4.21749123	0.20429495799	0.228810353
273	818	3666.366	3.666366	79.844	0.079844	3.806601052	0.13085582082	0.146558519
274	2315	2011.817	2.011817	57.479	0.057479	3.641030676	0.14334481984	0.160546198
275	2918	7413.308	7.413308	110.319	0.110319	3.969474367	0.09034535375	0.101186790
276	2994	7144.857	7.144857	223.349	0.223349	4.324821454	0.12060628162	0.135079036
277	2208	2289.671	2.289671	85.564	0.085564	3.841457852	0.15944266996	0.17857579
278	2922	7533.767	7.533767	118.433	0.118433	4.005228367	0.09144239676	0.102415484
279	2320	2106.647	2.106647	145.926	0.145926	4.110393907	0.19438705729	0.217713604
280	819	3697.405	3.697405	236.803	0.236803	4.354289152	0.18886100336	0.211524324
281	815	3644.118	3.644118	141.097	0.141097	4.093440625	0.15991886460	0.179109128
282	3028	7494.638	7.494638	115.213	0.115213	3.991341723	0.09093113993	0.101842877
283	820	3548.489	3.548489	127.406	0.127406	4.042020262	0.15637042981	0.175134081
284	2919	7360.026	7.360026	215.294	0.215294	4.306317035	0.11608695354	0.130017388
285	808	3800.34	3.80034	484.485	0.484485	4.714925189	0.23431937829	0.262437704
286	817	3593.039	3.593039	55.066	0.055066	3.619424895	0.11574525218	0.129634682
287	3026	7387.809	7.387809	127.719	0.127719	4.043256391	0.09567059034	0.107151061
288	2314	1939.693	1.939693	163.254	0.163254	4.166922044	0.20502142318	0.229623604
289	3027	7457.126	7.457126	91.582	0.091582	3.875699743	0.08384050730	0.083901368
290	613	6692.727	6.692727	52.421	0.052421	3.59462615	0.07466656822	0.083626556
291	2316	1871.67	1.87167	49.694	0.049694	3.567712589	0.13827445070	0.154867385
292	3028	7492.316	7.492316	153.77	0.15377	4.136771073	0.10117510998	0.113316123
293	3004	7231.205	7.231205	111.365	0.111365	3.974228517	0.09266175802	0.103781169
294	2569	1993.091	1.993091	87.572	0.087572	3.853143711	0.16598209724	0.185899049
295	2995	7160.384	7.160384	72.726	0.072726	3.759560054	0.07989938752	0.089263314
296	2997	7117.063	7.117063	39.543	0.039543	3.452600753	0.06351284171	0.071134383
297	2321	1889.009	1.889009	174.376	0.174376	4.200124585	0.21043719940	0.235689663
298	3024	7461.394	7.461394	53.001	0.053001	3.600169514	0.06810630327	0.07627906
299	2313	1856.016	1.856016	29.157	0.029157	3.299101691	0.11454407896	0.128289368
300	2209	2302.034	2.302034	474.871	0.474871	4.704827752	0.27493562672	0.307927902
301	3002	7216.401	7.216401	45.584	0.045584	3.524222421	0.06625413993	0.074204637
302	2212	2396.416	2.396416	37.24	0.03724	3.42237122	0.11759630334	0.13170786
303	2291	1603.925	1.603925	88.995	0.088995	3.861264105	0.17335185713	0.19415408
304	583	6668.768	6.668768	148.035	0.148035	4.117622713	0.11012054325	0.123335008
305	2170	2547.317	2.547317	169.747	0.169747	4.186570445	0.19462827167	0.217963864
306	2171	2507.447	2.507447	140.406	0.140406	4.090967374	0.18370094942	0.205745063
307	2934	4884.716	4.864716	4.173	0.004173	2.319720126	0.03575755076	0.040048457
308	2930	4789.07	4.78907	161.427	0.161427	4.161252364	0.14421093744	0.16151625
309	2511	1905.074	1.905074	100.163	0.100163	3.920820495	0.17523299745	0.196260957
310	2510	1956.986	1.956986	220.109	0.220109	4.317459849	0.22508160105	0.252091363
311	751	4378.814	4.378814	102.381	0.102381	3.931854466	0.12980879711	0.145385863
312	2260	1447.901	1.447901	150.916	0.150916	4.127332932	0.20893665688	0.234009066

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
313	2931	4736.198	4.736198	313.566	0.313566	4.495741601	0.18183607976	0.203656400
314	2932	4998.102	4.998102	587.28	0.58728	4.811860445	0.21577929614	0.241672812
315	2261	1269.86	1.26986	161.04	0.16104	4.160043164	0.21624842944	0.242196241
316	2501	1882.493	1.882493	468.273	0.468273	4.697778976	0.28473370407	0.318901749
317	2516	2103.248	2.103248	47.27	0.04727	3.542519299	0.13250187976	0.148402105
318	2512	1876.61	1.87661	238.806	0.238806	4.358532472	0.23265060464	0.260568677
319	602	6230.057	6.230057	70.546	0.070546	3.744227977	0.08862138583	0.099255932
320	2258	863.899	0.863899	513.134	0.513134	4.743867718	0.31352568522	0.351148767
321	603	6204.04	6.20404	76.352	0.076352	3.784071684	0.09157580988	0.102584807
322	2514	1755.308	1.755308	163.494	0.163494	4.16766211	0.20874510909	0.233794522
323	2515	1786.56	1.78656	79.855	0.079855	3.806670452	0.16427473367	0.183987702
324	2936	5227.08	5.22708	70.703	0.070703	3.745347896	0.10129747341	0.11345317
325	2547	2022.358	2.022358	118.577	0.118577	4.005840532	0.18315694179	0.205136775
326	799	2524.52	2.52452	80.105	0.080105	3.808245165	0.15167818055	0.169879582
327	599	6183.576	6.183576	145.149	0.145149	4.107704296	0.11611984746	0.130054229
328	600	6200.144	6.200144	94.101	0.094101	3.889369317	0.09897904392	0.110856529
329	601	6213.819	6.213819	65.807	0.065807	3.709195628	0.08653245735	0.096916362
330	2548	1948.566	1.948566	120.378	0.120378	4.013434663	0.18546194014	0.207717373
331	801	2367.438	2.367438	121.477	0.121477	4.018013107	0.17788110734	0.19922684
332	2259	636.104	0.636104	169.417	0.169417	4.185590105	0.22789123773	0.255238186
333	2200	1229.482	1.229482	711.33	0.71133	4.908402505	0.33623777389	0.376586307
334	741	4290.003	4.290003	685.752	0.685752	4.889953816	0.24608027829	0.275609912
335	2576	2641.485	2.641485	119.342	0.119342	4.009080242	0.17131530865	0.191873146
336	2578	2697.802	2.697802	319.684	0.319684	4.505476245	0.23406247545	0.262149873
337	2577	2697.802	2.697802	152.606	0.152606	4.132943067	0.18470484549	0.206869427
338	2578	2679.074	2.679074	18.99	0.01899	3.083088959	0.08860667849	0.09923948
339	794	2433.849	2.433849	73.513	0.073513	3.76498241	0.14884020329	0.166701026
340	2577	2680.947	2.680947	39.756	0.039756	3.455307111	0.11620156769	0.130145756
341	2522	1870.297	1.870297	612.411	0.612411	4.83296986	0.30776992332	0.344702314
342	2256	454.577	0.454577	67.196	0.067196	3.719718369	0.16976742103	0.190139512
343	2189	1552.282	1.552282	117.747	0.117747	4.002301827	0.19109800339	0.214029784
344	2280	478.366	0.478366	87.105	0.087105	3.850449979	0.18500404943	0.207204535
345	2278	490.467	0.490467	86.081	0.086081	3.844492472	0.18420337220	0.206307777
346	2252	457.066	0.457066	71.851	0.071851	3.753462068	0.17362504268	0.194460048
347	1916	1381.114	1.381114	1400.57	1.40057	5.249713591	0.39731734877	0.444995431
348	792	2395.649	2.395649	31.077	0.031077	3.331229342	0.11015821422	0.1233772
349	2279	462.843	0.462843	157.703	0.157703	4.149494348	0.22424203921	0.251151084
350	2277	491.441	0.491441	164.575	0.164575	4.170982082	0.22705609021	0.254302821
351	2276	389.533	0.389533	37.672	0.037672	3.428181666	0.13939350700	0.156120728
352	608	5813.504	5.813504	261.041	0.261041	4.40338212	0.14950340089	0.167443809
353	784	2492.258	2.492258	72.079	0.072079	3.755058153	0.14680757919	0.164424489
354	2190	1564.93	1.56493	108.147	0.108147	3.959456793	0.18561748828	0.207891587
355	782	2516.029	2.516029	63.509	0.063509	3.691288918	0.14007712241	0.156886377
356	2504	1237.239	1.237239	280.709	0.280709	4.439977351	0.25744772114	0.288341448
357	2177	2035.557	2.035557	54.089	0.054089	3.610406385	0.13997361350	0.156770447
358	2505	1286.835	1.286835	298.242	0.298242	4.470499812	0.26128685502	0.292641278
359	2194	913.694	0.913694	684.001	0.684001	4.888665815	0.33853523308	0.379159461
360	580	6754.241	6.754241	103.044	0.103044	3.935106342	0.09544145903	0.106894434
361	2503	1383.261	1.383261	259.12	0.25912	4.399661085	0.24867882081	0.278520279
362	2188	1602.84	1.60284	53.163	0.053163	3.601706997	0.14538477711	0.16283096
363	2254	103.349	0.103349	79.422	0.079422	3.80393135	0.1809980696	0.202717835
364	2255	180.947	0.180947	91.524	0.091524	3.875380591	0.18948826381	0.212226856

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
365	2253	211.423	0.211423	594.435	0.514435	4.74514339	0.32048573452	0.358944023
366	2180	1839.902	1.839902	99.335	0.099335	3.916638663	0.17588447615	0.196990613
367	1926	1511.193	1.511193	2465.717	2.465717	5.534654146	0.45127644277	0.505429616
368	769	3544.563	3.544563	77.931	0.077931	3.794383889	0.13187481174	0.147899789
369	2507	1447.318	1.447318	470.386	0.470386	4.700047089	0.29524723012	0.330676898
370	2275	524.499	0.524499	110.191	0.110191	3.968889504	0.19951174901	0.223453159
371	2508	1597.506	1.597506	161.561	0.161561	4.161670378	0.21089626814	0.23620382
372	2274	556.73	0.55673	78.145	0.078145	3.795765387	0.17793179559	0.199283611
373	2273	492.417	0.492417	78.765	0.078765	3.799746602	0.17883009151	0.200289702
374	2196	1280.685	1.280685	51.143	0.051143	3.582191992	0.14749960389	0.165199556
375	2509	1655.746	1.655746	192.219	0.192219	4.249203724	0.22173981700	0.248348595
376	1931	669.709	0.669709	206.973	0.206973	4.286459886	0.24217198104	0.271232619
377	1930	653.276	0.653276	141.234	0.141234	4.093929541	0.21500118657	0.240801329
378	1934	1329.206	1.329206	87.09	0.08709	3.850363217	0.17615491179	0.197293501
379	629	3598.382	3.598382	286.893	0.286893	4.450955144	0.20349528004	0.227914714
380	2005	1312.588	1.312588	109.921	0.109921	3.967653578	0.19053223435	0.213396102
381	717	3598.412	3.598412	74.565	0.074565	3.772140626	0.12889749822	0.144365198
382	1933	397.059	0.397059	700.839	0.700839	4.900917183	0.34734935899	0.389031282
383	1919	1114.596	1.114596	398.051	0.398051	4.615928914	0.28770224916	0.322226519
384	2006	1360.03	1.36003	33.859	0.033859	3.374421988	0.16785853935	0.188001564
385	2437	1590.245	1.590245	80.581	0.080581	3.811229877	0.16785853935	0.17352931
386	2425	1356.263	1.356263	60.028	0.060028	3.662890494	0.15493688435	0.17352931
387	2438	1662.78	1.66278	11.282	0.011282	2.820767871	0.08230321994	0.092179606
388	714	3610.434	3.610434	46.68	0.04668	3.536191783	0.10876409708	0.121815789
389	428	8640.024	8.640024	205.145	0.205145	4.281990686	0.09884622531	0.110707772
390	2427	1416.746	1.416746	178.06	0.17806	4.210659988	0.22077810211	0.247271474
391	2424	1346.264	1.346264	100.31	0.10031	3.921559307	0.18438689448	0.206513322
392	2421	1172.938	1.172938	287.47	0.28747	4.451967334	0.26040785349	0.291656796
393	2422	1207.571	1.207571	309.157	0.309157	4.488607738	0.26553426033	0.297398372
394	2004	1406.709	1.406709	106.077	0.106077	3.949720625	0.18691778200	0.209347916
395	2426	1385.972	1.385972	180.943	0.180943	4.218748472	0.22243109602	0.249122828
396	2423	1332.929	1.332929	151.538	0.151538	4.129404999	0.21110416412	0.238436664
397	2116	668.682	0.668682	172.038	0.172038	4.193324287	0.22867542914	0.256116481
398	2419	1547.774	1.547774	338.585	0.338585	4.534414548	0.26616436288	0.298104086
399	1971	1498.103	1.498103	118.862	0.118862	4.007049919	0.19257870067	0.215688145
400	2420	1463.913	1.463913	341.224	0.341224	4.538325901	0.26851571990	0.300737606
401	2429	1591.694	1.591694	161.938	0.161938	4.162844575	0.21115915025	0.236498248
402	2430	1636.338	1.636338	215.033	0.215033	4.305705932	0.23006607213	0.257674001
403	1991	1603.562	1.603562	81.199	0.081199	3.81507879	0.16808912351	0.188259818
404	661	4821.37	4.82137	76.126	0.076126	3.782578292	0.10994922704	0.123143134
405	2929	4211.027	4.211027	93.674	0.093674	3.887078116	0.12866251263	0.144102014
406	2149	628.936	0.628936	544.704	0.544704	4.773946255	0.32198083774	0.360618538
407	736	2452.341	2.452341	152.974	0.152974	4.134156443	0.19014751664	0.212965219
408	671	4070.699	4.070699	661.446	0.661446	4.871773498	0.24969293847	0.279656091
409	661	4842.496	4.842496	156.127	0.156127	4.144434497	0.14155662762	0.158543423
410	660	4500.069	4.500069	75.935	0.075935	3.781312717	0.11476586314	0.128537787
411	2451	2745.237	2.745237	68.318	0.068318	3.728060767	0.139706575813	0.156470449
412	566	6652.682	6.652682	86.08	0.08608	3.84448662	0.09042638920	0.101277556
413	565	6703.167	6.703167	83.516	0.083516	3.829252835	0.08884928490	0.099511199
414	662	4897.116	4.897116	114.372	0.114372	3.98765087	0.12596693630	0.141082969
415	2163	1546.125	1.546125	39.61	0.03961	3.453453617	0.13182251606	0.147641218
416	2155	1329.766	1.329766	96.157	0.096157	3.90025785	0.18205678832	0.203903603

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
469	1975	2527.486	2.527486	173.585	0.173585	4.197834145	0.19649202411	0.220071067
470	2101	1503.199	1.503199	584.277	0.584277	4.809277797	0.31267485739	0.35019584
471	560	6808.203	6.808203	236.146	0.236146	4.352889489	0.12799324697	0.143352437
472	2376	2193.062	2.193062	227.667	0.227667	4.334468098	0.22220010180	0.248864114
473	2497	4397.629	4.397629	328.503	0.328503	4.519185634	0.19258854149	0.215699168
474	2374	2405.63	2.40563	88.916	0.088916	3.860816704	0.15941613760	0.178540074
475	562	6949.741	6.949741	137.613	0.137613	4.080844977	0.10362811366	0.116063487
476	571	5792.03	5.79203	216.731	0.216731	4.3096684	0.14054891640	0.157414788
477	2454	4527.016	4.527016	77.201	0.077201	3.789642594	0.11502842949	0.128831841
478	2496	4360.099	4.360099	213.937	0.213937	4.303131646	0.16785706742	0.187999918
479	523	8437.226	8.437226	83.975	0.083975	3.832014015	0.07237590748	0.081061016
480	570	5701.107	5.701107	387.936	0.387936	4.602961697	0.17335869509	0.194161738
481	2384	2401.132	2.401132	123.805	0.123805	4.027576294	0.17833094116	0.199730654
482	2498	4360.099	4.360099	333.914	0.333914	4.527416169	0.19452064903	0.217863127
483	2337	2850.715	2.850715	5.194	0.005194	2.429982257	0.05264625351	0.058963804
484	569	5909.939	5.909939	205.963	0.205963	4.283995482	0.13605536751	0.152382012
485	2003	2365.754	2.365754	50.878	0.050878	3.579574836	0.13192763503	0.147758638
486	2385	2610.264	2.610264	71.775	0.071775	3.752928913	0.14451951409	0.161861856
487	503	6973.451	6.973451	298.694	0.298694	4.471262739	0.13635446341	0.152716999
488	2337	2855.05	2.85505	162.102	0.162102	4.163354513	0.18494017464	0.207132996
489	674	3503.759	3.503759	517.393	0.517393	4.748031836	0.24754308110	0.277248251
490	2340	2794.488	2.794488	180.852	0.180852	4.218495046	0.19309124018	0.216262188
491	2335	3097.288	3.097288	323.297	0.323297	4.511137943	0.22444795710	0.251381712
492	2466	3904.103	3.904103	138.984	0.138984	4.085839176	0.15379734459	0.172253028
493	2455	3749.822	3.749822	202.902	0.202902	4.27645214	0.17828338893	0.199677398
494	2453	4466.081	4.466081	286.076	0.286076	4.449518453	0.18247285103	0.204369583
495	1938	2414.256	2.414256	206.228	0.206228	4.284643251	0.21034943280	0.235591365
496	521	7131.786	7.131786	158.809	0.158809	4.153015129	0.10682161171	0.119640205
497	639	5399.159	5.399159	117.109	0.117109	3.999564716	0.11889040930	0.133157258
498	2351	2785.784	2.785784	162.288	0.162288	4.163932233	0.18654303173	0.208928198
499	2336	3153.457	3.153457	225.18	0.22518	4.328934585	0.19866715041	0.222507208
500	2096	2611.219	2.611219	10.571	0.010571	2.787974644	0.07164844515	0.080246259
501	2467	3923.499	3.923499	118.891	0.118891	4.007172817	0.14536013835	0.162803365
502	545	5749.735	5.749735	467.104	0.467104	4.69651976	0.18330533543	0.205301976
503	2355	2783.906	2.783906	105.785	0.105785	3.948331945	0.16167894080	0.181078174
504	638	5463.973	5.463973	120.238	0.120238	4.012848423	0.11900676619	0.133287578
505	2356	2921.938	2.921938	36.947	0.036947	3.418391849	0.10967156976	0.122832158
506	2369	3265.942	3.265942	211.87	0.21187	4.298478304	0.19214649259	0.215204072
507	2036	2739.875	2.739875	7.563	0.007563	2.619285156	0.06190026036	0.069328292
508	544	6031.141	6.031141	450.596	0.450596	4.678393305	0.17521110285	0.196236435
509	2469	4190.433	4.190433	134.525	0.134525	4.069411481	0.14645694729	0.164031781
510	2039	2747.202	2.747202	88.609	0.088609	3.859074289	0.15285707150	0.171199962
511	2045	2620.913	2.620913	213.927	0.213927	4.303108097	0.20800211575	0.23296237
512	557	5869.18	5.86918	183.852	0.183852	4.226783296	0.13140035325	0.147168306
513	546	6887.873	6.887873	630.048	0.630048	4.847273419	0.17758018079	0.198889802
514	2366	3262.766	3.262766	364.562	0.364562	4.571654822	0.22857345734	0.256002272
515	2036	2747.202	2.747202	137.485	0.137485	4.080376169	0.17737910645	0.198664599
516	2038	2659.961	2.659961	268.812	0.268812	4.418160436	0.22266790709	0.249388066
517	2463	3965.496	3.965496	314.188	0.314188	4.496739929	0.20027899775	0.224312477
518	2489	4756.398	4.756398	525.475	0.525475	4.755840388	0.21439710634	0.240124789
519	2465	4159.596	4.159596	84.706	0.084706	3.836380442	0.12501224949	0.140013719
520	2367	3333.021	3.333021	403.015	0.403015	4.622172604	0.23387597742	0.261941095

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
417	2118	1423.384	1.423384	17.804	0.017804	3.050600399	0.09986101900	0.111844341
418	576	5637.074	5.637074	66.793	0.066793	3.716687902	0.09388256218	0.10514847
419	2155	1441.05	1.44105	28.208	0.028208	3.282431862	0.11790380601	0.132052263
420	1999	1934.499	1.934499	140.109	0.140109	4.089900599	0.19520909809	0.21863419
421	567	6711.161	6.711161	125.577	0.125577	4.03473572	0.10318268765	0.11556461
422	2117	1611.521	1.611521	76.253	0.076253	3.783418044	0.16443103946	0.184162764
423	528	6953.303	6.953303	472.56	0.47256	4.702370071	0.16007467974	0.179283641
424	2441	2792.971	2.792971	210.045	0.210045	4.293882324	0.20273967654	0.227068438
425	2442	2782.002	2.782002	210.636	0.210636	4.295297815	0.20318232272	0.227564201
426	425	8510.816	8.510816	269.551	0.269551	4.419543499	0.11071342712	0.123999038
427	3277	6804.651	6.804651	155.231	0.155231	4.141535008	0.11019008332	0.123412893
428	559	6788.689	6.788689	82.808	0.082808	3.824963863	0.08762422493	0.098139132
429	2144	1658.36	1.65836	50.244	0.050244	3.57325768	0.14180444478	0.158820878
430	670	3963.509	3.963509	79.86	0.07986	3.806701995	0.12571849072	0.14080471
431	731	2677.716	2.677716	128.294	0.128294	4.045519361	0.17476726430	0.195739336
432	2445	2914.879	2.914879	68.062	0.068062	3.72616946	0.13656257580	0.152950085
433	568	5653.753	5.653753	201.149	0.201149	4.272080738	0.13933311420	0.156053088
434	669	4011.389	4.011389	71.092	0.071092	3.748112049	0.11982119919	0.134198743
435	706	3311.05	3.31105	47.554	0.047554	3.545536982	0.11407181699	0.127760436
436	2447	2862.323	2.862323	110.922	0.110922	3.972220522	0.16273076075	0.182258452
437	1972	2178.28	2.17828	182.025	0.182025	4.221752006	0.20725615863	0.232126898
438	540	6867.049	6.867049	55.816	0.055816	3.626240104	0.07479115383	0.083768092
439	1972	2337.768	2.337768	30.307	0.030307	3.318589821	0.10993230600	0.123124163
440	2448	2963.097	2.963097	76.37	0.07637	3.784190437	0.14130780226	0.158264739
441	2449	2969.361	2.969361	29.224	0.029224	3.300258005	0.10002232915	0.112025008
442	730	2763.099	2.763099	115.694	0.115694	3.99344057	0.16708053216	0.187130196
443	538	6881.954	6.881954	67.345	0.067345	3.720834214	0.08014873067	0.089764338
444	1977	2337.768	2.337768	84.506	0.084506	3.835189553	0.15789954306	0.176847488
445	539	7014.787	7.014787	62.991	0.062991	3.687163063	0.07686110837	0.086084441
446	2142	1714.895	1.714895	262.796	0.262796	4.406757751	0.24314376983	0.272321022
447	2448	2996.821	2.996821	108.123	0.108123	3.959344981	0.15864791165	0.177685861
448	541	6913.589	6.913589	63.658	0.063658	3.692469468	0.07815089987	0.087529008
449	2386	1987.785	1.987785	50.483	0.050483	3.57564838	0.13733944221	0.153820175
450	572	5702.779	5.702779	116.428	0.116428	3.996626627	0.11404039678	0.127725244
451	529	7272.694	7.272694	98.229	0.098229	3.910998078	0.08799668858	0.098558291
452	564	6761.5	6.7615	230.748	0.230748	4.341240017	0.12765657716	0.142975366
453	537	6952.791	6.952791	72.832	0.072832	3.760293794	0.08181821244	0.091636396
454	531	6982.032	6.982032	148.006	0.148006	4.117524013	0.10600219350	0.118722467
455	2446	3078.6	3.0786	66.21	0.06621	3.712271362	0.13241463924	0.148304396
456	722	3278.795	3.278795	143.512	0.143512	4.101990332	0.16854366817	0.188768906
457	694	3337.116	3.337116	115.289	0.115289	3.991673932	0.15529824830	0.173934038
458	573	5686.638	5.686638	313.2	0.3132	4.495153234	0.16159987567	0.180991881
459	2146	1771.805	1.771805	325.758	0.325758	4.514958304	0.25825439234	0.289244819
460	531	6967.854	6.967854	66.731	0.066731	3.716220054	0.07901676021	0.088498771
461	1980	2281.749	2.281749	180.211	0.180211	4.216706304	0.20434413734	0.228865434
462	530	7311.265	7.311265	107.695	0.107695	3.957346827	0.09064030861	0.101517146
463	2135	1956.068	1.956068	97.149	0.097149	3.905428468	0.17255185390	0.193259076
464	536	6954.117	6.954117	33.15	0.03315	3.363760698	0.06057014643	0.067835854
465	2134	1998.906	1.998906	72.758	0.072758	3.759781673	0.15572953632	0.174417081
466	1976	2502.834	2.502834	164.357	0.164357	4.170314318	0.19356253674	0.216790041
467	2375	2193.062	2.193062	164.47	0.16447	4.170660563	0.20027660253	0.224309785
468	532	7300.048	7.300048	108.507	0.108507	3.9611130997	0.09101601981	0.101937942

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
521	2368	3410.737	3.410737	273.912	0.273912	4.427628828	0.20513424849	0.229750388
522	2464	3907.986	3.907986	474.269	0.474269	4.704188697	0.22981707106	0.25739512
523	2367	3655.333	3.655333	252.289	0.252289	4.386202046	0.19382818322	0.217087565
524	2039	2831.213	2.831213	526.275	0.526275	4.756606778	0.26830292441	0.300499275
525	2456	4219.276	4.219276	319.152	0.319152	4.504637182	0.19506223450	0.218469703
526	691	4055.455	4.055455	74.994	0.074994	3.775030761	0.12140337962	0.135971785
527	547	7376.77	7.37677	99.64	0.09964	3.918183114	0.08736483871	0.097848619
528	548	7216.544	7.216544	463.534	0.463534	4.69265465	0.15440058907	0.17292866
529	2049	3293.26	3.29326	145.971	0.145971	4.110549237	0.16920119487	0.189505338
530	2015	3237.123	3.237123	238.164	0.238164	4.357176294	0.20026832847	0.224300528
531	2019	3402.056	3.402056	119.031	0.119031	4.007765695	0.15569717349	0.174380834
532	551	7422.718	7.422718	241.13	0.24113	4.363411446	0.12002633805	0.134429468
533	1963	3274.832	3.274832	642.269	0.642269	4.856951674	0.27105656984	0.303583358
534	2347	3902.683	3.902683	178.201	0.178201	4.211055759	0.16739630343	0.18748388
535	2479	4963.313	4.963313	234.583	0.234583	4.349543982	0.16032812026	0.179587495
536	2480	5149.244	5.149244	52.758	0.052758	3.597854455	0.09188819292	0.102914778
537	2479	5149.244	5.149244	73.519	0.073519	3.765023526	0.10384289139	0.116304038
538	515	7892.684	7.892684	80.287	0.080287	3.809388467	0.07576513240	0.084856948
539	1966	3926.548	3.926548	117.021	0.117021	3.999186014	0.14450427729	0.161844791
540	2481	5208.098	5.208098	43.885	0.043885	3.505086679	0.08509459006	0.095305941
541	2470	5237.923	5.237923	81.175	0.081175	3.814929865	0.10638888098	0.119155658
542	1965	4017.564	4.017564	170.715	0.170715	4.189435152	0.16255380974	0.182060267
543	2075	3927.325	3.927325	225.168	0.225168	4.328907738	0.18044614462	0.202099682
544	2057	4061.07	4.06107	26.523	0.026523	3.251402269	0.08280805726	0.092745024
545	3753	4108.131	4.108131	46.315	0.046315	3.532237135	0.10120318249	0.113347564
546	1823	5689.501	5.689501	143.732	0.143732	4.102762024	0.12319776041	0.137981492
547	1452	4720.132	4.720132	107.458	0.107458	3.956236954	0.12614794451	0.141285698
548	13	5925.238	5.925238	548.316	0.548316	4.777275866	0.18926480226	0.211976579
549	1253	4570.836	4.570836	127.357	0.127357	4.041826472	0.13663259078	0.153028502
550	1472	4628.891	4.628891	86.81	0.08681	3.848740917	0.11833660736	0.132537
551	1571	4506.643	4.506643	223.084	0.223084	4.324223371	0.16707591335	0.187125029
552	417	5415.063	5.415063	76.408	0.076408	3.784441045	0.10162188161	0.113816507
553	1599	4711.991	4.711991	79.957	0.079957	3.80731353	0.11359686019	0.127228483
554	1524	4738.77	4.73877	71.026	0.071026	3.747644134	0.10842843064	0.121439842
555	1598	4801.704	4.801704	55.957	0.055957	3.62751113	0.09851229941	0.110333775
556	1472	4684.803	4.684803	216.928	0.216928	4.31012611	0.16177046313	0.181182919
557	1584	4782.172	4.782172	26.016	0.026016	3.241679008	0.07414681345	0.083044431
558	1812	5518.545	5.518545	123.79	0.12379	4.027515253	0.11940275872	0.13373109
559	416	5500.05	5.50005	143.75	0.14375	4.10282511	0.12624226912	0.141391341
560	1452	4826.653	4.826653	320.896	0.320896	4.507382592	0.18117788662	0.202919233
561	1255	4762.879	4.762879	174.698	0.174698	4.201054002	0.14871385891	0.166559522
562	1597	4875.555	4.875555	63.693	0.063693	3.692746378	0.10226839282	0.1145406
563	1488	4684.803	4.684803	267.64	0.26764	4.415959185	0.17362851709	0.194463939
564	1484	4850.567	4.850567	92.864	0.092864	3.882702968	0.11766239080	0.131781878
565	1488	4900.292	4.900292	13.563	0.013563	2.913532684	0.05672185507	0.063528478
566	257	8183.837	8.183837	66.485	0.066485	3.714359461	0.06815535049	0.076333993
567	220	8225.495	8.225495	84.05	0.08405	3.832463753	0.07417098523	0.083071503
568	230	8506.237	8.506237	443.991	0.443991	4.670954033	0.13232711648	0.14820637
569	1484	4900.292	4.900292	69.631	0.069631	3.737651053	0.10530075780	0.117936849
570	259	8280.351	8.280351	55.143	0.055143	3.620128852	0.06286669404	0.070410697
571	231	8306.847	8.306847	59.714	0.059714	3.66024835	0.06447683158	0.072214051
572	1582	4978.77	4.97877	50.656	0.050656	3.577371836	0.09266022446	0.103779481

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
573	415	5652.418	5.652418	331.883	0.331883	4.524342608	0.16548681438	0.185345232
574	1591	5222.293	5.222293	102.918	0.102918	3.934489952	0.11617770724	0.130119032
575	1718	5169.644	5.169644	319.696	0.319696	4.505495155	0.17340955422	0.194218701
576	267	7742.954	7.742954	66.794	0.066794	3.716695445	0.07191156525	0.080540069
577	243	8346.856	8.346856	48.768	0.048768	3.558236537	0.05935067169	0.066472752
578	1533	5347.033	5.347033	73.571	0.073571	3.765379725	0.10113911332	0.113275807
579	1436	5510.496	5.510496	87.418	0.087418	3.852257005	0.10540307459	0.118051444
580	379	6118.915	6.118915	551.086	0.551086	4.779814479	0.18536539704	0.207609245
581	262	7837.968	7.837968	77.715	0.077715	3.792985628	0.07531898488	0.084357263
582	250	8357.783	8.357783	93.834	0.093834	3.887937867	0.07617444402	0.085315377
583	1568	5411.05	5.41105	172.571	0.172571	4.194882666	0.13619684126	0.152540462
584	244	8390.264	8.390264	244.807	0.244807	4.371035645	0.10832224883	0.121320819
585	412	5971.303	5.971303	412.14	0.41214	4.633451929	0.17127849615	0.191831916
586	252	8359.626	8.359626	65.311	0.065311	3.705384147	0.06633082251	0.074290821
587	1567	5435.339	5.435339	186.06	0.18606	4.232797499	0.13939594699	0.156123461
588	246	8399.519	8.399519	160.687	0.160687	4.158937661	0.09274124802	0.103870198
589	1558	5570.446	5.570446	54.802	0.054802	3.617003834	0.08800647374	0.098567251
590	254	8128.748	8.128748	60.203	0.060203	3.664357035	0.06603252039	0.073956423
591	1535	5523.15	5.52315	215.805	0.215805	4.307511343	0.14514884705	0.162566709
592	247	8495.359	8.495359	93.557	0.093557	3.886448493	0.07491546126	0.083905317
593	248	8536.48	8.53648	106.114	0.106114	3.949896315	0.07821082011	0.087596119
594	1553	5620.648	5.620648	88.627	0.088627	3.859176617	0.10440286837	0.116931213
595	1536	5410.365	5.410365	397.331	0.397331	4.615016842	0.18098725107	0.202705721
596	1559	5766.692	5.766692	46.446	0.046446	3.533660049	0.08055119663	0.09021734
597	1566	5767.59	5.76759	73.64	0.07364	3.765851985	0.09566161073	0.107141004
598	1447	6005.535	6.005535	76.629	0.076629	3.785896063	0.09409361090	0.105384844
599	249	8641.559	8.641559	78.041	0.078041	3.795094478	0.06877631725	0.077029475
600	225	9640.951	9.640951	121.987	0.121987	4.020123719	0.07319591090	0.08197942
601	255	8363.576	8.363576	66.141	0.066141	3.711746078	0.06662280506	0.074617642
602	1560	5840.297	5.840297	86.562	0.086562	3.847299647	0.10056436280	0.112632068
603	1440	5827.43	5.82743	346.617	0.346617	4.546225837	0.16440224902	0.184130519
604	1439	5860.501	5.860501	337.309	0.337309	4.532512398	0.16224620714	0.181715752
605	1437	6057.248	6.057248	118.863	0.118863	4.007054157	0.10977931765	0.122952836
606	1438	5936.989	5.936989	311	0.311	4.491602051	0.15637449367	0.175139433
607	1441	5961.553	5.961553	377	0.377	4.588555966	0.16642352849	0.186394352
608	1450	6146.347	6.146347	101.79	0.10179	3.928937933	0.10257642516	0.114885598
609	1715	6147.789	6.147789	38.135	0.038135	3.434335551	0.07102462449	0.079647679
610	1450	6200.322	6.200322	34.97	0.03497	3.390686933	0.06823005574	0.076417882
611	1696	5141.839	5.141839	1251.957	1.251957	5.193203719	0.26756177959	0.299669183
612	241	8448.972	8.448972	93.524	0.093524	3.886270765	0.07529802357	0.084333786
613	1815	7018.542	7.018542	67.077	0.067077	3.718825412	0.07867273209	0.08811346
614	413	6478.377	6.478377	468.532	0.468532	4.698057539	0.16849822980	0.188718017
615	1819	7145.632	7.145632	76.462	0.076462	3.784796958	0.08136497935	0.091128777
616	1442	6261.856	6.261856	255.006	0.255006	4.391598463	0.14039324455	0.157240434
617	1817	7042.604	7.042604	53.57	0.05357	3.60554911	0.07202311703	0.080665891
618	1821	7243.692	7.243692	80.826	0.080826	3.81275926	0.08208988443	0.091940671
619	1725	6476.967	6.476967	58.531	0.058531	3.650167695	0.08003451687	0.089638659
620	1820	7284.224	7.284224	71.191	0.071191	3.748813108	0.07786847400	0.087212691
621	1443	6183.186	6.183186	475.691	0.475691	4.705696924	0.17525124487	0.196281394
622	1713	6199.403	6.199403	378.339	0.378339	4.590342089	0.16197452611	0.181411488
623	1394	6426.287	6.426287	103.855	0.103855	3.939055796	0.09972467263	0.111691633
624	1817	7087.116	7.087116	102.938	0.102938	3.934587842	0.09158088674	0.102570593

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
625	1814	7209.081	7.209081	157.81	0.15781	4.149836043	0.10560208683	0.118274337
626	1822	7333.077	7.333077	70.742	0.070742	3.745625707	0.07722046402	0.08648692
627	1386	6432.175	6.432175	54.544	0.054544	3.614626501	0.07838346391	0.08778948
628	1385	6439.373	6.439373	57.323	0.057323	3.639661537	0.07979370275	0.089368947
629	1687	6537.504	6.537504	131.88	0.13188	4.059407569	0.10731971217	0.120198078
630	1727	7374.939	7.374939	74.105	0.074105	3.769023113	0.07818911435	0.087571808
631	1728	6977.048	6.977048	521.292	0.521292	4.75181403	0.16503404722	0.184838133
632	1799	7424.322	7.424322	37.223	0.037223	3.422141192	0.05970765592	0.066872575
633	1394	6504.449	6.504449	305.22	0.30522	4.482151066	0.14515152301	0.162568708
634	1804	7464.596	7.464596	206.863	0.206863	4.28619207	0.11305514683	0.126821784
635	1726	7406.77	7.40677	287.964	0.287964	4.452832309	0.12807518538	0.143444208
636	1393	6504.449	6.504449	299.25	0.29925	4.472199625	0.14416218970	0.161461682
637	3672	7720.85	7.72085	27.715	0.027715	3.273549264	0.05130947899	0.057406616
638	1807	7687.43	7.68743	34.022	0.034022	3.376841415	0.05581926578	0.062517578
639	1690	6539.749	6.539749	229.223	0.229223	4.337899503	0.13078327244	0.148477286
640	1765	7245.338	7.245338	81.434	0.081434	3.81653469	0.08230488517	0.092181471
641	1806	7720.892	7.720892	58.068	0.058068	3.646166767	0.06834748463	0.076549183
642	1401	6785.39	6.78539	95.581	0.095581	3.897231021	0.09246475184	0.103580622
643	1419	6535.509	6.535509	322.828	0.322828	4.510406587	0.14744921797	0.165143124
644	1807	7720.85	7.72085	69.451	0.069451	3.736347064	0.07317997103	0.081961588
645	1809	7788.885	7.788885	43.358	0.043358	3.49900032	0.06057985756	0.06784044
646	1789	7442.5	7.4425	168.962	0.168962	4.184235288	0.10532890303	0.117968371
647	1798	7438.023	7.438023	166.976	0.166976	4.178278702	0.10493091379	0.117522822
648	1096	7803.003	7.803003	63.176	0.063176	3.688640465	0.06989796686	0.078288729
649	1887	7865.283	7.865283	55.549	0.055549	3.623824444	0.06604487627	0.073970873
650	1430	6507.27	6.50727	352.004	0.352004	4.553995214	0.15240746331	0.170698888
651	1095	7842.601	7.842601	105.604	0.105604	3.947469227	0.08450051534	0.094640577
652	1808	7825.982	7.825982	68.572	0.068572	3.729930307	0.07192151228	0.080582094
653	358	8168.417	8.168417	43.886	0.043886	3.505098159	0.05817242862	0.06515312
654	1791	7618.305	7.618305	125.946	0.125946	4.03621388	0.09262647694	0.103741654
655	1097	7881.653	7.881653	119.447	0.119447	4.009523286	0.08807979974	0.098646378
656	350	8202.348	8.202348	48.03	0.04803	3.550554801	0.06000410502	0.067204598
657	1791	7714.976	7.714976	59.701	0.059701	3.660138663	0.06912575566	0.077420847
658	1789	7595.203	7.595203	189.375	0.189375	4.241894269	0.10786375292	0.120807408
659	1761	7488.884	7.488884	3.061	0.003061	2.163601462	0.02179173732	0.024408746
660	1789	7751.32	7.75132	12.504	0.012504	2.872576799	0.03728661279	0.041781008
661	1754	7417.857	7.417857	75.303	0.075303	3.777102243	0.07825609807	0.087648828
662	1789	7758.656	7.758656	4.993	0.004993	2.410099417	0.02570879141	0.028793846
663	1755	7400.228	7.400228	83.862	0.083862	3.83133565	0.08167043738	0.09147088
664	1688	6807.571	6.807571	372.45	0.37245	4.582438855	0.15005216744	0.168068428
665	1878	7996.839	7.996839	71.42	0.07142	3.750431021	0.07158955444	0.080180301
666	355	8233.165	8.233165	45.993	0.045993	3.528722416	0.05879197196	0.066847008
667	1874	7924.078	7.924078	214.335	0.214335	4.304067991	0.10867943407	0.121720968
668	1791	7758.656	7.758656	52.464	0.052464	3.595039223	0.06544011624	0.073229293
669	1790	7618.305	7.618305	266.039	0.266039	4.412936556	0.12157537025	0.136164415
670	1792	7714.976	7.714976	143.128	0.143128	4.100640539	0.09602271424	0.10754544
671	1873	7948.051	7.948051	300.656	0.300656	4.474561055	0.12240483315	0.137093418
672	356	8265.867	8.265867	54.673	0.054673	3.81581657	0.06261927206	0.070133588
673	1876	8144.368	8.144368	68.462	0.068462	3.729121515	0.06924052852	0.077549382
674	1416	6701.957	6.701957	472.179	0.472179	4.701963735	0.16466052824	0.184419789
675	1877	8191.254	8.191254	68.193	0.068193	3.727138184	0.06876102914	0.077012353
676	351	8283.955	8.283955	230.981	0.230981	4.341748458	0.10729877127	0.120174624

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km) ^	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
677	1885	8240.822	8.240822	72.621	0.072621	3.758832181	0.07003194581	0.078435779
678	1258	6311.553	6.311553	891.993	0.891993	5.022419278	0.21188635609	0.237312719
679	385	7495.056	7.495056	174.98	0.17498	4.201866558	0.10602890621	0.118752375
680	401	7649.48	7.64948	73.373	0.073373	3.764022081	0.07536203909	0.084406484
681	1418	7147.086	7.147086	129.219	0.129219	4.049138596	0.09888394200	0.110750015
682	1731	7841.796	7.841796	165.975	0.165975	4.175249506	0.09992983469	0.111921415
683	1872	8303.328	8.303328	173.779	0.173779	4.198396861	0.09648633262	0.108064693
684	1871	8430.678	8.430678	41.736	0.041736	3.479792556	0.05532417348	0.061963074
685	1888	8476.957	8.476957	63.179	0.063179	3.688664387	0.06461579214	0.072368687
686	1886	8242.273	8.242273	197.872	0.197872	4.263805838	0.10188312231	0.114109097
687	357	8317.98	8.31798	153.133	0.153133	4.134679797	0.09193084540	0.102962547
688	1796	7793.824	7.793824	273.715	0.273715	4.427266374	0.12041845359	0.134868668
689	1792	7847.228	7.847228	269.775	0.269775	4.419961973	0.11908476804	0.13337494
690	1889	8469.427	8.469427	62.426	0.062426	3.682623989	0.06437373408	0.072098582
691	1891	8482.055	8.482055	61.466	0.061466	3.674816544	0.06389851397	0.071566336
692	1691	7156.552	7.156552	200.258	0.200258	4.269844254	0.11582356383	0.129722391
693	1405	7375.251	7.375251	176.285	0.176285	4.205609818	0.10781032759	0.120747567
694	1875	8449.845	8.449845	42.417	0.042417	3.487946341	0.05555066995	0.06221675
695	1881	8403.489	8.403489	49.955	0.049955	3.570351597	0.05951462362	0.066656378
696	1881	8403.489	8.403489	5.168	0.005168	2.427454106	0.02406515550	0.026952974
697	1794	8029.73	8.02973	88.608	0.088608	3.859068604	0.07739917605	0.086887077
698	1884	8484.026	8.484026	50.016	0.050016	3.570966389	0.05899237711	0.066071462
699	1875	8447.95	8.44795	31.892	0.031892	3.344270836	0.04969546672	0.055658923
700	1890	8528.888	8.528888	125.978	0.125978	4.036341863	0.08349674330	0.093516352
701	368	8095.226	8.095226	236.768	0.236768	4.354214687	0.11053881621	0.123803474
702	1841	8539.58	8.53958	68.491	0.068491	3.729334868	0.06617836930	0.074119774
703	1842	8571.374	8.571374	68.716	0.068716	3.73098713	0.06602337081	0.073948175
704	1838	8593.207	8.593207	65.037	0.065037	3.70326618	0.06448202008	0.072219862
705	341	8436.618	8.436618	163.113	0.163113	4.166486747	0.09287534777	0.10402039
706	1839	8616.059	8.616059	66.102	0.066102	3.711448936	0.06471859452	0.072484828
707	1844	8629.069	8.629069	4.215	0.004215	2.324765192	0.02154377857	0.024129032
708	1869	8621.913	8.621913	9.486	0.009486	2.73341642	0.03000784482	0.033608788
709	1836	8657.239	8.657239	60.556	0.060556	3.667302329	0.06227925342	0.069752784
710	1731	7967.216	7.967216	210.413	0.210413	4.294764179	0.10743245518	0.12032438
711	1773	8037.348	8.037348	191.803	0.191803	4.248112259	0.10305616359	0.115422903
712	1889	8631.338	8.631338	46.025	0.046025	3.529072805	0.05616037839	0.062899624
713	1844	8631.338	8.631338	97.776	0.097776	3.908669429	0.07502794391	0.084031297
714	1867	8672.396	8.672396	33.656	0.033656	3.371392499	0.04945507582	0.055389686
715	1743	7948.705	7.948705	55.081	0.055081	3.619562107	0.06518125364	0.073003004
716	1858	8533.882	8.533882	80.081	0.080081	3.808094206	0.07030486152	0.078741445
717	1843	8703.834	8.703834	9.651	0.009651	2.742103886	0.02992660859	0.033517802
718	1866	8702.957	8.702957	3.576	0.003576	2.241941112	0.01995976844	0.022354941
719	1883	8669.847	8.669847	90.261	0.090261	3.868380163	0.07247130728	0.081167864
720	1864	8740.389	8.740389	60.831	0.060831	3.669584949	0.06180583457	0.069222585
721	1733	7654.237	7.654237	462.228	0.462228	4.69123325	0.14698015028	0.164617788
722	1843	8706.483	8.706483	40.378	0.040378	3.463127972	0.05290795191	0.059256906
723	1396	7578.976	7.578976	179.381	0.179381	4.214380671	0.10595890386	0.118671732
724	1866	8706.483	8.706483	44.077	0.044077	3.507285952	0.05475062705	0.061320702
725	1862	8777.595	8.777595	61.989	0.061989	3.679084971	0.06199782249	0.069437561
726	1744	8011.99	8.01199	80.967	0.080967	3.813637336	0.07495479107	0.083949366
727	1857	8611.638	8.611638	71.824	0.071824	3.753272722	0.06684877006	0.074870622
728	1855	8621.661	8.621661	63.624	0.063624	3.692200325	0.06373338569	0.071381392

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
729	1854	8638.328	8.638328	58.993	0.058993	3.654128559	0.06178580422	0.069200101
730	1845	8734.516	8.734516	37.754	0.037754	3.429277047	0.05136958250	0.057533932
731	1772	7978.424	7.978424	413.344	0.413344	4.6349215	0.13649724691	0.152876917
732	1771	8089.25	8.08925	317.379	0.317379	4.501830697	0.12286977451	0.137614147
733	362	8443.749	8.443749	120.253	0.120253	4.012911267	0.08283499383	0.092775198
734	1859	8656.079	8.656079	70.288	0.070288	3.742382176	0.06596539320	0.073881124
735	1399	7619.191	7.619191	184.011	0.184011	4.227218791	0.10644920611	0.119223111
736	1865	8826.558	8.826558	81.988	0.081988	3.819950339	0.06865520903	0.076893834
737	1861	8790.166	8.790166	60.664	0.060664	3.66820001	0.06139595492	0.06876347
738	1746	8140.123	8.140123	78.188	0.078188	3.796042521	0.07287450694	0.081619448
739	1423	7607.708	7.607708	265.595	0.265595	4.412095078	0.12164852102	0.136246344
740	1747	8164.09	8.16409	78.075	0.078075	3.795313912	0.07263279549	0.081348731
741	399	8221.752	8.221752	70.734	0.070734	3.745568733	0.06948392168	0.077821892
742	366	8453.541	8.453541	119.699	0.119699	4.010585006	0.08260113147	0.092513267
743	1774	8099.756	8.099756	412	0.412	4.633280771	0.13457243442	0.150721127
744	361	8563.142	8.563142	203.481	0.203481	4.277887681	0.09937485106	0.111299833
745	1745	8188.398	8.188398	91.705	0.091705	3.876375898	0.07698924672	0.086227966
746	394	8316.64	8.31664	198.405	0.198405	4.265161031	0.10114926299	0.113287175
747	400	8283.557	8.283557	67.493	0.067493	3.72194013	0.06776281396	0.075894952
748	1856	8844.183	8.844183	172.704	0.172704	4.19527078	0.09074212652	0.101631182
749	367	8621.388	8.621388	54.474	0.054474	3.613979549	0.06002608897	0.06722982
750	395	8512.965	8.512965	31.013	0.031013	3.330190784	0.04878119406	0.054634937
751	348	9019.543	9.019543	88.108	0.088108	3.856217798	0.06908868935	0.077379332
752	1849	8881.098	8.881098	64.865	0.064865	3.70193209	0.06236708330	0.069851133
753	1735	8267.575	8.267575	90.551	0.090551	3.869996171	0.0759297054	0.085041287
754	391	8563.465	8.563465	27.658	0.027658	3.272512096	0.04635562310	0.051918298
755	396	8354.439	8.354439	55.006	0.055006	3.618875675	0.06212496852	0.069579985
756	1848	8885.422	8.885422	72.528	0.072528	3.758186614	0.06507840323	0.072885672
757	1840	8525.243	8.525243	759.709	0.759709	4.941550835	0.15897534824	0.17805239
758	1847	9039.551	9.039551	273.636	0.273636	4.427120951	0.10526651797	0.1178996
759	1851	8944.278	8.944278	67.38	0.06738	3.721095968	0.06284656253	0.07038815
760	393	8611.859	8.611859	30.587	0.030587	3.323222784	0.04796272860	0.053718256
761	1853	8949.853	8.949853	62.824	0.062824	3.685825678	0.06113293929	0.068468892
762	1099	8934.625	8.934625	29.419	0.029419	3.303608371	0.04551685529	0.050978878
763	1853	8947.583	8.947583	5.184	0.005184	2.429011392	0.02258050163	0.025290162
764	1748	8159.697	8.159697	335.368	0.335368	4.52960508	0.12434575358	0.139267244
765	1741	8340.583	8.340583	83.708	0.083708	3.83040968	0.07308710501	0.081857566
766	1850	8987.2	8.9872	70.297	0.070297	3.742446678	0.06357915174	0.07120865
767	398	8422.114	8.422114	64.285	0.064285	3.697407192	0.06545771579	0.073312642
768	1742	8376.406	8.376406	81.412	0.081412	3.816398572	0.07202297408	0.080665731
769	389	8034.687	8.034687	678.524	0.678524	4.884615848	0.16090650217	0.180215282
770	1738	8345.435	8.345435	73.769	0.073769	3.76673372	0.06961071733	0.077964003
771	1782	8647.471	8.647471	49.33	0.04933	3.564008894	0.05758950234	0.064500243
772	397	8452.577	8.452577	110.925	0.110925	3.972234147	0.08027953785	0.089913082
773	390	8570.78	8.57078	129.621	0.129621	4.050703426	0.08400256072	0.094082888
774	390	8570.78	8.57078	157.6	0.1576	4.149165207	0.09035482087	0.101197399
775	404	8303.675	8.303675	67.392	0.067392	3.72118568	0.06756708672	0.075675137
776	221	11293.903	11.293903	112.545	0.112545	3.979538398	0.06023433698	0.067462457
777	1852	9090.723	9.090723	246.38	0.24638	4.374262323	0.10077285564	0.112865598
778	1099	8949.853	8.949853	230.045	0.230045	4.339702846	0.09973522770	0.111703456
779	1783	8689.336	8.689336	155.579	0.155579	4.142663132	0.08876399217	0.099415671
780	1782	8689.336	8.689336	161.972	0.161972	4.162950336	0.09010297638	0.100915334

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Record	SIMV05_ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
781	1398	7914.85	7.91485	508.073	0.508073	4.738874295	0.14763213967	0.165347996
782	1609	8440.22	8.44022	298.254	0.298254	4.470520081	0.11569628987	0.129579845
783	1780	8822.807	8.822807	86.809	0.086809	3.848735114	0.07019966181	0.078623621
784	1788	9071.135	9.071135	147.274	0.147274	4.115026256	0.08345387900	0.093468344
785	1775	9041.213	9.041213	93.941	0.093941	3.888512008	0.07063343131	0.079109443
786	1608	8909.848	8.909848	78.5	0.0785	3.798048802	0.06690249387	0.074930793
787	1606	8972.946	8.972946	132.367	0.132367	4.061264482	0.08102660462	0.090749797
788	1675	9165.608	9.165608	77.625	0.077625	3.792401871	0.06477433108	0.072547261
789	271	8920.59	8.92059	525.451	0.525451	4.755817379	0.13452081304	0.150663311
790	1679	9071.395	9.071395	19.96	0.01996	3.108186223	0.03841382693	0.043023486
791	272	8488.517	8.488517	523.993	0.523993	4.754417563	0.14046979331	0.157326169
792	1677	9104.352	9.104352	47.247	0.047247	3.542274116	0.05379616552	0.060251705
793	1678	9071.395	9.071395	51.14	0.05114	3.582162439	0.05568628478	0.062368639
794	1290	8610.862	8.610862	78.065	0.078065	3.795249382	0.06902207247	0.077304721
795	1677	9122.122	9.122122	21.549	0.021549	3.146775461	0.03937956787	0.044105116
796	1676	9114.501	9.114501	73.995	0.073995	3.768274754	0.06394696717	0.071620603
797	326	8942.029	8.942029	55.483	0.055483	3.623225525	0.05831133591	0.065308896
798	333	8891.711	8.891711	66.483	0.066483	3.714344306	0.06288831559	0.070434913
799	1681	9315.085	9.315085	88.129	0.088129	3.856337857	0.06691932443	0.074949643
800	1632	8983.321	8.983321	83.216	0.083216	3.82743993	0.06786383798	0.076007499
801	327	9079.357	9.079357	117.455	0.117455	4.001050951	0.07657172715	0.085760334
802	1680	9405.046	9.405046	76.445	0.076445	3.784684939	0.06275014711	0.070280166
803	336	8980.006	8.980006	75.155	0.075155	3.776111114	0.06528658615	0.073120976
804	1660	9252.104	9.252104	76.53	0.07653	3.785244787	0.06381966317	0.071478023
805	1668	9318.419	9.318419	94.107	0.094107	3.889401438	0.06859767418	0.076829395
806	1667	9352.474	9.352474	70.982	0.070982	3.747331949	0.06132557862	0.068684848
807	1665	9300.585	9.300585	80.486	0.080486	3.810635599	0.06472961878	0.072497173
808	1666	9313.279	9.313279	76.563	0.076563	3.785481973	0.06340991857	0.071019108
809	331	9129.501	9.129501	53.142	0.053142	3.601507958	0.05616321878	0.062902805
810	1669	9360.62	9.36062	79.497	0.079497	3.804406858	0.06400793130	0.071688863
811	1670	9371.198	9.371198	84.094	0.084094	3.832727412	0.06533244324	0.073172396
812	1631	9207.694	9.207694	88.383	0.088383	3.857787737	0.06777198960	0.075904628
813	1671	9415.152	9.415152	72.365	0.072365	3.757053137	0.06136929710	0.068733613
814	212	12112.308	12.112308	101.916	0.101916	3.929561149	0.05372701287	0.060174254
815	1380	9315.957	9.315957	63.259	0.063259	3.689301894	0.05888384001	0.065949901
816	1658	9875.706	9.875706	186.193	0.186193	4.233157485	0.08381273246	0.09387026
817	1293	9674.147	9.674147	67.526	0.067526	3.722186388	0.05811988335	0.065094247
818	1363	9581.156	9.581156	313.701	0.313701	4.495958448	0.10467713387	0.11723839
819	1374	9872.692	9.872692	118.774	0.118774	4.006676804	0.07074165452	0.079230663
820	1292	10023.392	10.023392	123.205	0.123205	4.025128866	0.07064038921	0.079117236
821	3628	10841.685	10.841685	25.3	0.0253	3.227619805	0.03494682606	0.039140445
822	1297	10033.161	10.033161	164.7	0.1647	4.171364575	0.07877948341	0.088233021
823	1297	10033.161	10.033161	56.302	0.056302	3.630607634	0.05214240034	0.058399488
824	1376	10099.417	10.099417	171.156	0.171156	4.190743699	0.07940053964	0.088928604
825	1382	9846.712	9.846712	433.138	0.433138	4.658486493	0.11458391247	0.128333982
826	1300	10188.456	10.188456	115.233	0.115233	3.991429168	0.06771709816	0.07584315
827	1365	10185.205	10.185205	98.295	0.098295	3.911336455	0.06372967279	0.071377234
828	1372	10178.839	10.178839	160.144	0.160144	4.157232379	0.07682124401	0.086039793
829	210	12817.588	12.817588	36.609	0.036609	3.413761925	0.03360437090	0.037636895
830	1313	10073.19	10.07319	312.245	0.312245	4.493614772	0.09953493932	0.111479132
831	1636	10636.484	10.636484	114.538	0.114538	3.988381531	0.06461272899	0.072366254
832	1309	10203.86	10.20386	199.358	0.199358	4.267575055	0.08321350117	0.093198121

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
833	1310	10090.038	10.090038	316.782	0.316782	4.500882176	0.09989806727	0.111885835
834	1306	10251.372	10.251372	167.499	0.167499	4.179854174	0.07757368415	0.086882526
835	1357	10440.022	10.440022	44.301	0.044301	3.509839694	0.04550173007	0.050961938
836	1640	10745.004	10.745004	103.663	0.103663	3.938123577	0.06151875629	0.068901007
837	1275	10576.129	10.576129	67.54	0.06754	3.722290825	0.05296750410	0.059323805
838	1266	10239.899	10.239899	405.763	0.405763	4.625596034	0.10775667243	0.120687473
839	1647	11091.291	11.091291	108.545	0.108545	3.961307395	0.08055525022	0.08782188
840	1331	10337.061	10.337061	282.847	0.282847	4.443799829	0.09355233643	0.104778617
841	1284	10588.098	10.588098	105.396	0.105396	3.946475989	0.06287653513	0.070421719
842	1645	11140.661	11.140661	156.653	0.156653	4.146128911	0.06939109915	0.077718031
843	1276	10830.392	10.830392	98.452	0.098452	3.91214047	0.05980330457	0.066979701
844	1334	10716.962	10.716962	71.348	0.071348	3.749922892	0.05335987152	0.059763086
845	1642	11197.027	11.197027	231.8	0.2318	4.343531581	0.08007221555	0.089680881
846	3615	11401.999	11.401999	28.236	0.028236	3.282931681	0.03454726331	0.038692935
847	1329	10619.893	10.619893	219.19	0.21919	4.315352055	0.08279937647	0.092735302
848	1637	11119.542	11.119542	60.988	0.060988	3.670883494	0.04823112411	0.054018889
849	1354	10418.287	10.418287	481.562	0.481562	4.711876563	0.11271276052	0.126238282
850	1280	10853.786	10.853786	84.559	0.084559	3.835505412	0.05624791668	0.062997667
851	1279	10853.786	10.853786	116.419	0.116419	3.996587683	0.06365397020	0.071292447
852	1278	10768.727	10.768727	216.263	0.216263	4.308579379	0.08121802625	0.090964188
853	1282	10986.24	10.98624	43.609	0.043609	3.501908308	0.04280281328	0.047939181
854	1281	10845.957	10.845957	204.537	0.204537	4.280495383	0.07895046985	0.088424826
855	1642	11413.656	11.413656	148.72	0.14872	4.119948477	0.06630581065	0.074262508
856	1355	10879.301	10.879301	148.259	0.148259	4.118384437	0.06966072043	0.078020007
857	1328	10801.486	10.801486	234.425	0.234425	4.349204553	0.08345084252	0.09346472
858	1330	10843.938	10.843938	188.692	0.188692	4.239874046	0.07659974086	0.08579171
859	1358	11019.755	11.019755	66.42	0.06642	3.713866691	0.05036229214	0.056405767
860	1352	11050.983	11.050983	67.482	0.067482	3.721858017	0.05052237049	0.056585065
861	1352	11050.983	11.050983	26.882	0.026882	3.258175429	0.03506403189	0.039271716
862	1358	11076.702	11.076702	12.962	0.012962	2.89069954	0.02604430970	0.029169627
863	1353	11088.079	11.088079	89.772	0.089772	3.865643445	0.05627545699	0.063028512
864	1634	10773.456	10.773456	846.519	0.846519	4.996058584	0.13330048067	0.149296538
865	1648	11328.869	11.328869	425.48	0.42548	4.649499815	0.09912237142	0.111017086
866	1356	11028.435	11.028435	99.931	0.099931	3.919652271	0.05900447300	0.06608501
867	1644	11555.426	11.555426	144.54	0.14454	4.105586138	0.06472704727	0.072494293
868	1328	11027.549	11.027549	136.804	0.136804	4.077874603	0.06659925777	0.074591169
869	1335	11036.533	11.036533	145.136	0.145136	4.107659174	0.06806516845	0.076232969
870	1649	11733.138	11.733138	95.792	0.095792	3.898341919	0.05429984473	0.060815602
871	1337	11211.408	11.211408	86.968	0.086968	3.8496657	0.05492957415	0.061521123
872	1338	11270.379	11.270379	175.268	0.175268	4.202695052	0.07154742137	0.080133112
873	1339	11322.492	11.322492	255.346	0.255346	4.392269708	0.08207812721	0.091927502
874	291	11792.683	11.792683	526.877	0.526877	4.757182719	0.10287407961	0.115218968
875	1259	11167.127	11.167127	447.794	0.447794	4.675250793	0.10247305494	0.114769822
876	1620	11421.217	11.421217	261.512	0.261512	4.404290282	0.08207087763	0.091919383
877	1343	11542.405	11.542405	51.719	0.051719	3.587834138	0.04338884762	0.048595508
878	1347	11512.642	11.512642	54.721	0.054721	3.616258669	0.04449476306	0.049834135
879	1325	11350.181	11.350181	280.73	0.28073	4.440015038	0.08482586626	0.09500497
880	1626	11632.754	11.632754	193.147	0.193147	4.251630042	0.07179857843	0.080414408
881	1627	11805.33	11.80533	32.247	0.032247	3.349847608	0.03505309321	0.039259464
882	1623	11682.279	11.682279	131.02	0.13102	4.05611161	0.06160033319	0.068992373
883	1628	11856.075	11.856075	58.896	0.058896	3.653295528	0.04434752289	0.049699226
884	1343	11583.24	11.58324	312.223	0.312223	4.493579275	0.08641538060	0.096785226

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
885	1342	11469.13	11.46913	394.275	0.394275	4.611127119	0.09518463777	0.106606794
886	1344	11696.524	11.696524	125.665	0.125665	4.035088629	0.06053641322	0.067800783
887	1345	11719.184	11.719184	131.465	0.131465	4.057819769	0.06147179350	0.068848409
888	1343	11809.036	11.809036	130.38	0.13038	4.053644733	0.06077253394	0.068065238
889	1625	11914.211	11.914211	120.855	0.120855	4.015426962	0.05845087589	0.065464861
890	1322	11891.879	11.891879	55.206	0.055206	3.620704086	0.04308190282	0.048251731
891	1346	11894.985	11.894985	108.152	0.108152	3.959480084	0.05608358076	0.06281361
892	1348	11583.24	11.58324	476.672	0.476672	4.706734785	0.10101681084	0.113138828
893	1104	11797.874	11.797874	285.98	0.28598	4.449349368	0.08203668048	0.091881082
894	1617	12311.029	12.311029	94.535	0.094535	3.891687449	0.05124453126	0.057393875
895	1135	12430.882	12.430882	84.223	0.084223	3.83349962	0.04845122771	0.054265375
896	1240	12483.876	12.483876	106.715	0.106715	3.952741544	0.05290838384	0.05925739
897	1252	12649.392	12.649392	108.206	0.108206	3.959731558	0.05242444346	0.058715377
898	1227	12506.372	12.506372	62.808	0.062808	3.685697359	0.04286242960	0.048005921
899	1251	12747.094	12.747094	94.436	0.094436	3.891159597	0.04927879976	0.055192256
900	175	13490.806	13.490806	80.267	0.080267	3.809262956	0.04335160654	0.048553799
901	1104	12034.699	12.034699	534.259	0.534259	4.764192142	0.10126385344	0.113415516
902	1216	12581.71	12.58171	53.746	0.053746	3.607201531	0.04001893432	0.044821206
903	1103	12253.011	12.253011	380.327	0.380327	4.592982303	0.08768878042	0.098211434
904	1242	12576.431	12.576431	172.442	0.172442	4.194505939	0.06320964647	0.070794804
905	194	13542.996	13.542996	54.972	0.054972	3.618564184	0.03712701365	0.041582256
906	57	12022.165	12.022165	2159.615	2.159615	5.467876549	0.16542285440	0.185273597
907	1191	12567.173	12.567173	69.567	0.069567	3.737187799	0.04438979217	0.049716567
908	1189	12560.852	12.560852	98.791	0.098791	3.913872163	0.05098722614	0.057105989
909	1241	12731.242	12.731242	138.957	0.138957	4.085741298	0.05737465006	0.064259608
910	1228	12614.695	12.614695	225.007	0.225007	4.328547394	0.06975796136	0.078128917
911	1225	12783.52	12.78352	70.561	0.070561	3.744335083	0.04379091177	0.049045821
912	1250	12829.751	12.829751	251.15	0.25115	4.383922492	0.07141558774	0.079985488
913	1178	12687.655	12.687655	114.612	0.114612	3.988706906	0.05343537342	0.059847618
914	1185	12647.972	12.647972	173.952	0.173952	4.198898135	0.06302949596	0.070593085
915	1211	12636.384	12.636384	251.435	0.251435	4.384493849	0.07263229011	0.081348166
916	1210	12648.892	12.648892	246.908	0.246908	4.375340787	0.07205575743	0.080702448
917	1245	13036.823	13.036823	60.393	0.060393	3.66594446	0.04026441817	0.045096148
918	1217	12865.223	12.865223	65.531	0.065531	3.707078283	0.04222167308	0.047288274
919	1246	13063.869	13.063869	61.446	0.061446	3.674652595	0.04044667210	0.045300273
920	1176	12822.669	12.822669	47.718	0.047718	3.54727139	0.03735272345	0.04183506
921	1190	12629.289	12.629289	242.218	0.242218	4.36567944	0.07165277006	0.080251102
922	1218	12828.687	12.828687	185.512	0.185512	4.173842204	0.06087865723	0.068181858
923	1244	13054.323	13.054323	115.026	0.115026	3.99052338	0.05183719067	0.058057654
924	1213	12984.517	12.984517	85.136	0.085136	3.83893136	0.04633968713	0.051900445
925	1219	13031.07	13.03107	73.074	0.073074	3.761964942	0.04344970946	0.048663875
926	1188	12827.298	12.827298	222.526	0.222526	4.322961683	0.06821163835	0.076397035
927	1165	13053.428	13.053428	6.708	0.006708	2.558847943	0.01645942060	0.018434551
928	1179	12811.706	12.811706	307.565	0.307565	4.515477082	0.07113496237	0.079671168
929	1223	13094.817	13.094817	122.135	0.122135	4.020734559	0.05288227320	0.059228146
930	1221	13204.867	13.204867	44.16	0.04416	3.508233715	0.03501534752	0.039217189
931	1174	13060.061	13.060061	109.718	0.109718	3.966722344	0.05086274319	0.056966272
932	1212	13178.258	13.178258	77.416	0.077416	3.791043645	0.04389109445	0.049158026
933	1180	12841.301	12.841301	366.819	0.366819	4.574764114	0.08230963986	0.092187021
934	1243	13160.569	13.160569	267.384	0.267384	4.45477082	0.07113496237	0.079671168
935	1186	13099.498	13.099498	114.048	0.114048	3.986221701	0.05146473234	0.0576406
936	1175	13178.677	13.178677	61.272	0.061272	3.673223986	0.04000022157	0.044800248

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
937	1107	13049.391	13.049391	218.326	0.218326	4.313362331	0.06645581105	0.074430308
938	1187	13212.471	13.212471	75.237	0.075237	3.776660505	0.04327035415	0.048462797
939	1231	13411.299	13.411299	44.256	0.044256	3.509327704	0.03442504407	0.038566049
940	1165	13060.061	13.060061	259.222	0.259222	4.399859354	0.07089251892	0.079399621
941	1230	13411.751	13.411751	113.39	0.11339	3.983306716	0.05000466096	0.056006322
942	1232	13412.315	13.412315	117.264	0.117264	4.000231057	0.05066474682	0.056744516
943	1171	13313.523	13.313523	52.595	0.052595	3.596295573	0.03720118744	0.04166533
944	1181	13290.711	13.290711	87.228	0.087228	3.851160861	0.04556850053	0.051036721
945	1172	13333.31	13.33331	59.421	0.059421	3.657770349	0.03899105499	0.043689982
946	1167	13009.161	13.009161	371.085	0.371085	4.580589144	0.08152232378	0.091305003
947	1238	13472.605	13.472605	148.171	0.148171	4.118085326	0.05522888502	0.061856351
948	1236	13529.236	13.529236	67.376	0.067376	3.72106806	0.04031105015	0.045148376
949	1137	13264.16	13.26416	247.375	0.247375	4.376292736	0.06846696336	0.076682999
950	1239	13622.536	13.622536	51.383	0.051383	3.58455057	0.03589432450	0.040201643
951	1108	13263.371	13.263371	287.978	0.287978	4.452856801	0.07254864689	0.081254406
952	166	14745.344	14.745344	97.742	0.097742	3.908494217	0.04230203985	0.047378286
953	1166	13264.055	13.264055	341.172	0.341172	4.538249122	0.07734754255	0.086629248
954	1108	13548.815	13.548815	105.157	0.105157	3.945332298	0.04799096578	0.053749662
955	1169	13614.769	13.614769	70.017	0.070017	3.740436059	0.04063701418	0.045513466
956	147	14841.984	14.841984	101.804	0.101804	3.929007217	0.04266413031	0.047783826
957	1237	13542.523	13.542523	312.744	0.312744	4.494419224	0.07316632836	0.081946288
958	1107	13263.371	13.263371	494.353	0.494353	4.725083122	0.08885951991	0.099522662
959	1170	13700.882	13.700882	62.298	0.062298	3.681589961	0.03851014599	0.043131364
960	1205	13837.835	13.837835	43.875	0.043875	3.50497187	0.03308244410	0.037052337
961	3467	13852.268	13.852268	49.554	0.049554	3.566291311	0.03469759585	0.038861307
962	1184	13705.605	13.705605	92.036	0.092036	3.878190973	0.04494306946	0.050336238
963	157	14858.045	14.858045	315.027	0.315027	4.498083422	0.06617554308	0.074116608
964	1205	13872.487	13.872487	79.234	0.079234	3.802737434	0.04177227071	0.046784943
965	1148	13508.05	13.50805	340.554	0.340554	4.537335743	0.07577449307	0.084867432
966	1149	13523.152	13.523152	347.396	0.347396	4.547356784	0.07625258173	0.085402892
967	1168	13767.837	13.767837	121.211	0.121211	4.01690876	0.04982792177	0.055807272
968	1208	13944.755	13.944755	68.862	0.068862	3.732056373	0.03927032080	0.043982759
969	152	15111.674	15.111674	264.162	0.264162	4.409369599	0.06067067499	0.06795138
970	1209	14011.936	14.011936	56.476	0.056476	3.632162158	0.03607980078	0.040409377
971	162	15151.006	15.151006	217.432	0.217432	4.311295214	0.05610185111	0.062834073
972	1182	13800.236	13.800236	244.49	0.24449	4.370382877	0.06523744891	0.073065943
973	1150	13768.005	13.768005	266.426	0.266426	4.413668861	0.06759362689	0.075704862
974	191	14680.322	14.680322	139.443	0.139443	4.087500193	0.04891525338	0.054785084
975	155	15447.439	15.447439	88.101	0.088101	3.856177772	0.03843650618	0.043048887
976	160	15280.447	15.280447	57.836	0.057836	3.644149969	0.03289753757	0.036845242
977	1203	14046.551	14.046551	137.966	0.137966	4.082135605	0.05123784918	0.057386391
978	153	15451.842	15.451842	113.253	0.113253	3.982697669	0.04245572959	0.047550417
979	1183	14047.614	14.047614	87.481	0.087481	3.852619937	0.04282145014	0.047960024
980	1132	14148.742	14.148742	51.584	0.051584	3.586517418	0.03440167194	0.038529873
981	1131	14157.11	14.15711	69.967	0.069967	3.740076173	0.03883430344	0.043494442
982	192	14809.696	14.809696	108.602	0.109602	3.966189436	0.04403987895	0.049324662
983	160	15330.133	15.330133	172.089	0.172089	4.193473609	0.05052380788	0.056586665
984	1193	13605.236	13.605236	841.322	0.841322	4.992956205	0.10511774082	0.11773187
985	1194	14158.659	14.158659	254.426	0.254426	4.390451329	0.06437161994	0.072096214
986	1197	14391.954	14.391954	91.242	0.091242	3.873825964	0.04234021452	0.04742104
987	117	15392.229	15.392229	307.682	0.307682	4.486198424	0.06300275005	0.07056308
988	116	15330.133	15.330133	379.559	0.379559	4.591963981	0.06858836863	0.076818973

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
989	115	15280.447	15.280447	419.281	0.419281	4.642106012	0.07149660859	0.080076202
990	133	15962.686	15.962686	13.755	0.013755	2.92061429	0.01737676623	0.019461978
991	1199	14431.803	14.431803	226.408	0.226408	4.331674451	0.06023525591	0.067463487
992	3178	15968.1	15.9681	45.696	0.045696	3.525458695	0.02837858046	0.03178401
993	133	15968.1	15.9681	33.882	0.033882	3.374764084	0.02513342390	0.028149435
994	135	15709.067	15.709067	306.938	0.306938	4.484978764	0.06149327847	0.068872472
995	104	16702.27	16.70227	65.715	0.065715	3.708490834	0.03112679606	0.034882012
996	122	16086.972	16.086972	506.629	0.506629	4.737440453	0.07247331737	0.081170115
997	1163	15101.931	15.101931	68.944	0.068944	3.732655913	0.03579441053	0.04008974
998	25	18418.105	18.418105	275.665	0.275665	4.43084269	0.04892649012	0.054797689
999	1161	15173.184	15.173184	168.319	0.168319	4.182314445	0.03540420779	0.039682713
1000	1110	15382.276	15.382276	70.829	0.070829	3.746244888	0.03540420779	0.039682713
1001	121	16550.473	16.550473	278.428	0.278428	4.435866973	0.05574724851	0.062436918
1002	1124	15429.723	15.429723	135.642	0.135642	4.073577254	0.04566922303	0.05114663
1003	122	16490.945	16.490945	378.3	0.3783	4.590290156	0.06301445236	0.070576187
1004	128	16676.455	16.676455	212.293	0.212293	4.299245382	0.04970949191	0.055674831
1005	1123	15505.385	15.505385	83.005	0.083005	3.826160935	0.03736794976	0.041852104
1006	187	15755.797	15.755797	484.362	0.484362	4.714797274	0.07294996357	0.081709959
1007	122	16849.574	16.849574	221.601	0.221601	4.32086319	0.04993942793	0.055982159
1008	67	17467.025	17.467025	112.77	0.11277	3.980544553	0.03661797002	0.041012128
1009	20	17619.137	17.619137	1038.665	1.038665	5.099111577	0.08556743193	0.095835524
1010	47	17759.693	17.759693	330.471	0.330471	4.522194691	0.05484196342	0.061422899
1011	39	17882.666	17.882666	232.747	0.232747	4.345585547	0.04743219743	0.053124061
1012	40	17889.086	17.889086	281.619	0.281619	4.441607864	0.05108889433	0.057217822
1013	41	17964.918	17.964918	270.683	0.270683	4.421654738	0.05004899083	0.05605487
1014	34	18490.701	18.490701	302.773	0.302773	4.478095887	0.05051664431	0.056578642
1015	33	18488.914	18.488914	313.083	0.313083	4.494965004	0.05118767088	0.057380191
1016	38	17876.07	17.87607	294.508	0.294508	4.464152632	0.05203212222	0.058275977
1017	2894	8669.658	8.669658	80.62	0.08062	3.811473641	0.06941748201	0.07774758
1018	438	11618.921	11.618921	726.259	0.726259	4.918866172	0.11725169155	0.131321895
1019	488	11703.344	11.703344	167.985	0.167985	4.181313784	0.06763980427	0.07578581
1020	966	8249.442	8.249442	1323.611	1.323611	5.221242027	0.19638053072	0.219946194
1021	921	10925.454	10.925454	278.495	0.278495	4.435988187	0.08795841963	0.09861343
1022	2891	8454.995	8.454995	77.012	0.077012	3.788407747	0.06988531123	0.078271549
1023	1080	7209.63	7.20963	1305.755	1.305755	5.214399569	0.21712973144	0.243185299
1024	2902	8602.222	8.602222	325.898	0.325898	4.515174766	0.11738975930	0.13147653
1025	1074	8287.794	8.287794	332.726	0.332726	4.525620617	0.12229495221	0.136970346
1026	2728	7312.621	7.312621	518.257	0.518257	4.748872405	0.11574255255	0.127725279
1027	3098	8694.368	8.694368	321.917	0.321917	4.508982938	0.11574255255	0.127725279
1028	2889	8411.597	8.411597	232.377	0.232377	4.344784043	0.10604567459	0.118771156
1029	920	9118.373	9.118373	610.355	0.610355	4.831275708	0.13895725959	0.155832131
1030	901	8909.816	8.909816	1330.45	1.33045	5.223838327	0.18453868077	0.206683322
1031	2593	7263.615	7.263615	746.912	0.746912	4.932992547	0.18030816855	0.201945149
1032	967	8933.352	8.933352	647.3	0.6473	4.860882504	0.14445363629	0.161786073
1033	906	9676.391	9.676391	490.426	0.490426	4.721065244	0.1278908566	0.136409776
1034	2868	8138.953	8.138953	168.041	0.168041	4.181481699	0.09706465644	0.108712415
1035	2856	7933.845	7.933845	383.161	0.383161	4.596722306	0.13356500384	0.149982804
1036	3088	8386.008	8.386008	257.282	0.257282	4.396074908	0.11034026160	0.123561093
1037	2852	7919.282	7.919282	216.92	0.21692	4.310107531	0.10921141635	0.122316786
1038	2741	7180.28	7.18028	836.541	0.836541	4.990085188	0.18882620713	0.211485352
1039	2846	7832.641	7.832641	68.228	0.068228	3.727396663	0.07172719485	0.080834458
1040	1061	7187.254	7.187254	220.236	0.220236	4.31775044	0.11940992706	0.133739118

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
1041	2848	7451.683	7.451683	306.807	0.306607	4.484435196	0.13027792859	0.14591128
1042	2727	6260.052	6.260052	465.784	0.465764	4.695072465	0.17247209939	0.193168751
1043	874	9724.964	9.724964	565.904	0.565904	4.793181606	0.12752449293	0.142827432
1044	2660	6062.388	6.062388	692.082	0.692082	4.894582763	0.20091857089	0.225028799
1045	985	7229.589	7.229589	333.323	0.333323	4.526523727	0.13757485794	0.154083841
1046	958	7579.119	7.579119	132.854	0.132854	4.063114576	0.09490881673	0.106297875
1047	904	8852.94	8.85294	274.46	0.27446	4.428635708	0.10745994886	0.120355143
1048	1055	6256.774	6.256774	584.841	0.584841	4.809763861	0.18604489830	0.208370286
1049	961	7633.768	7.633768	628.477	0.628477	4.846015691	0.16358061395	0.183210288
1050	1048	6576.556	6.576556	949.077	0.949077	5.053669681	0.20991372212	0.235103369
1051	1047	6478.874	6.478874	308.008	0.308008	4.486731916	0.14605071266	0.163576798
1052	2655	5885.304	5.885304	810.805	0.810805	4.974343045	0.21560813367	0.24148111
1053	2796	6267.944	6.267944	230.759	0.230759	4.341264032	0.13547694450	0.151734178
1054	983	6877.792	6.877792	193.07	0.19307	4.251429164	0.11815349454	0.132331914
1055	2668	5746.14	5.74614	472.084	0.472084	4.701862366	0.18402511153	0.206108125
1056	962	7317.873	7.317873	525.947	0.525947	4.756292699	0.15938653466	0.178512919
1057	912	8030.591	8.030591	723.471	0.723471	4.916928508	0.16449857036	0.184238399
1058	473	10458.905	10.458905	127.965	0.127965	4.044225793	0.06860760509	0.076840518
1059	2800	5980.67	5.98067	1031.845	1.031845	5.095792778	0.23003664796	0.257641046
1060	2828	6480.438	6.480438	244.86	0.24486	4.3711447	0.13481181608	0.150989346
1061	903	8685.131	8.685131	517.524	0.517524	4.748159374	0.13705713226	0.153503988
1062	470	10470.892	10.470892	140.537	0.140537	4.091437187	0.07102100544	0.079543526
1063	441	10140.101	10.140101	300.825	0.300825	4.474844153	0.09754534786	0.10925079
1064	2665	5792.037	5.792037	515.503	0.515503	4.746188189	0.18839504844	0.211002454
1065	847	8468.543	8.468543	768.518	0.768518	4.947358691	0.18051460199	0.179776354
1066	872	8654.56	8.65456	355.284	0.355284	4.558667754	0.12040283867	0.134851179
1067	463	10034.284	10.034284	236.058	0.236058	4.352701719	0.09012366304	0.100938503
1068	2676	4826.682	4.826682	855.159	0.855159	5.00117437	0.24731773410	0.276995862
1069	2746	5892.302	5.892302	423.54	0.42354	4.647197541	0.17447581500	0.195412913
1070	2819	6696.603	6.696603	117.639	0.117639	4.001839536	0.10092654754	0.113037733
1071	897	7615.263	7.615263	578.874	0.578874	4.804597491	0.15941044561	0.178539699
1072	2602	5578.775	5.578775	241.555	0.241555	4.364298597	0.14986130628	0.167844663
1073	2605	5477.493	5.477493	446.026	0.446026	4.673257804	0.18649891320	0.208878783
1074	2625	5588.874	5.588874	358.613	0.358613	4.563366194	0.17116952330	0.191709866
1075	2624	5478.962	5.478962	317.239	0.317239	4.501608424	0.16648553739	0.186463802
1076	994	5607.153	5.607153	859.604	0.859604	5.003786178	0.22661497167	0.253808768
1077	2773	5303.807	5.303807	1004.508	1.004508	5.082265944	0.24601370625	0.275535351
1078	2713	4724.279	4.724279	594.751	0.594751	4.81822881	0.22377911893	0.250632613
1079	3	5566.544	5.566544	109.078	0.109078	3.963775113	0.11338069731	0.126986381
1080	2600	5272.423	5.272423	323.159	0.323159	4.510922856	0.17183852856	0.192459152
1081	3079	6546.945	6.546945	290.341	0.290341	4.456973707	0.14194102520	0.158973948
1082	1003	4574.526	4.574526	1598.792	1.598792	5.316398681	0.30537432127	0.34201924
1083	2711	4716.339	4.716339	353.158	0.353158	4.555644096	0.18955624876	0.212302999
1084	2707	4852.719	4.852719	205.057	0.205057	4.281774535	0.15531815726	0.173956336
1085	2916	6747.208	6.747208	2850.765	2.850765	5.607755245	0.28765125472	0.322169405
1086	890	7464.432	7.464432	499.084	0.499084	4.729881431	0.15406664127	0.172554638
1087	861	8577.302	8.577302	613.774	0.613774	4.834089845	0.14701981678	0.164662195
1088	4	4490.754	4.490754	1517.262	1.517262	5.290030274	0.30363658717	0.340072978
1089	451	10023.768	10.023768	415.981	0.415981	4.638125254	0.11100685833	0.124329921
1090	857	9269.788	9.269788	1259.901	1.259901	5.196390248	0.17519266494	0.196215785
1091	450	10189.004	10.189004	527.425	0.527425	4.757706425	0.11898733409	0.133265814
1092	2813	5159.673	5.159673	317.303	0.317303	4.501710047	0.17318853150	0.193971155

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
1093	3072	6434.441	6.434441	257.202	0.257202	4.395918236	0.13791261702	0.154462131
1094	837	6715.437	6.715437	312.889	0.312889	4.494652742	0.14281026297	0.159947495
1095	1903	5883.284	5.883284	708.343	0.708343	4.906282584	0.20659672621	0.231388333
1096	2696	4126.707	4.126707	199.291	0.199291	4.267405716	0.16888342661	0.189148438
1097	858	8570.465	8.570465	333.381	0.333381	4.52661138	0.11874558102	0.132995051
1098	3041	6110.942	6.110942	464.86	0.46486	4.694093726	0.17538717699	0.196433638
1099	447	10195.787	10.195787	471.56	0.47156	4.701302872	0.11423847707	0.127947094
1100	3060	6001.799	6.001799	509.521	0.509521	4.740308022	0.18311902983	0.205083313
1101	3087	6790.483	6.790483	444.265	0.444265	4.671264836	0.15867916383	0.178840863
1102	2612	3943.494	3.943494	343.355	0.343355	4.541462316	0.20664243922	0.231439532
1103	3065	5974.404	5.974404	192.264	0.192264	4.249321649	0.13174257850	0.147551688
1104	3070	6008.884	6.008884	168.48	0.16848	4.18279609	0.12518799514	0.140210655
1105	2611	3437.086	3.437086	570.077	0.570077	4.796882883	0.25686562578	0.287889601
1106	3063	5970.656	5.970656	124.525	0.124525	4.030497598	0.11288368957	0.12842971
1107	581	8610.514	8.610514	452.897	0.452897	4.680959355	0.13181388715	0.147631554
1108	2167	3093.514	3.093514	427.354	0.427354	4.651713817	0.24479969425	0.274175658
1109	2914	5676.193	5.676193	457.618	0.457618	4.686183595	0.18366763047	0.205707746
1110	434	9191.231	9.191231	355.397	0.355397	4.558827959	0.11391506307	0.127584871
1111	2243	3211.208	3.211208	344.023	0.344023	4.542441475	0.22583138881	0.252931155
1112	2951	5537.843	5.537843	184.071	0.184071	4.227383031	0.13707393808	0.153522811
1113	3009	7342.22	7.34222	308.009	0.308009	4.466733552	0.13707393808	0.147970207
1114	2300	2782.611	2.782611	277.495	0.277495	4.434175988	0.22182259977	0.248441312
1115	3012	7660.433	7.660433	119.259	0.119259	4.00872975	0.09032359741	0.101162428
1116	3007	7458.968	7.458968	209.049	0.209049	4.29148779	0.11355803964	0.127165004
1117	2324	2776.175	2.776175	310.948	0.310948	4.491517811	0.23003839108	0.257642988
1118	3022	7597.398	7.597398	931.207	0.931207	5.044093629	0.18712755443	0.209882861
1119	2921	7533.174	7.533174	915.071	0.915071	5.035287559	0.18731295664	0.209790511
1120	2979	6972.269	6.972269	945.429	0.945429	5.051729547	0.20088911641	0.224996681
1121	2307	2365.844	2.365844	409.359	0.409359	4.630041038	0.26142126470	0.292791816
1122	2285	2164.762	2.164762	599.799	0.599799	4.822486655	0.29805958571	0.333826736
1123	2984	7072.807	7.072807	1173.921	1.173921	5.160781091	0.21296838283	0.238524589
1124	2986	6922.413	6.922413	849.841	0.849841	4.998031708	0.19514081211	0.21855771
1125	806	3836.863	3.836863	180.069	0.180069	4.216309185	0.16941304310	0.189742608
1126	2978	6834.036	6.834036	534.021	0.534021	4.763967669	0.16906878713	0.189957042
1127	1917	2136.143	2.136143	598.846	0.598846	4.821685578	0.29871433617	0.334560057
1128	2309	2120.721	2.120721	230.924	0.230924	4.341624123	0.22484198694	0.251823025
1129	2238	2099.304	2.099304	228.089	0.228089	4.335401036	0.22445352415	0.251387947
1130	2304	1959.396	1.959396	248.774	0.248774	4.379133787	0.23379486115	0.261850244
1131	2292	1709	1.709	464.762	0.464762	4.69398751	0.28832272943	0.322921457
1132	2319	2064.416	2.064416	89.888	0.089888	4.428290509	0.23853279994	0.267166736
1133	2996	7072.807	7.072807	89.888	0.089888	3.866293992	0.08722686228	0.097694086
1134	2980	6576.054	6.576054	217.484	0.217484	4.311415682	0.12781709452	0.143155146
1135	2996	7016.845	7.016845	87.511	0.087511	3.85279267	0.08895410780	0.097386901
1136	2917	7280.777	7.280777	483.007	0.483007	4.713385973	0.15547028346	

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
1145	2173	2554.35	2.55435	179.859	0.179859	4.215721322	0.19816930140	0.221949818
1146	2976	6859.211	6.859211	284.33	0.28433	4.446434315	0.13581859828	0.15211683
1147	2935	4780.644	4.780644	899.409	0.899409	5.026590386	0.25244468304	0.282738045
1148	2502	1879.924	1.879924	440.888	0.440888	4.667420803	0.27984170189	0.313422706
1149	806	6284.541	6.284541	152.808	0.152808	4.133609466	0.11680166731	0.130617867
1150	2934	4864.978	4.864978	897.424	0.897424	5.025477309	0.24986214719	0.279945906
1151	2558	2157.439	2.157439	391.781	0.391781	4.60793031	0.26340373994	0.295012189
1152	2549	1916.838	1.916838	715.353	0.715353	4.911243667	0.32015340385	0.358571812
1153	2556	2003.557	2.003557	877.161	0.877161	5.013972004	0.33606234846	0.376389863
1154	800	2468.253	2.468253	192.946	0.192946	4.251105504	0.20468604063	0.229248366
1155	2181	1806.632	1.806632	771.981	0.771981	4.949623669	0.32992159873	0.369512191
1156	2530	1847.972	1.847972	145.596	0.145596	4.109253355	0.19933943337	0.223280165
1157	2535	1917.932	1.917932	404.316	0.404316	4.623796276	0.27189205312	0.304519099
1158	2520	1901.244	1.901244	742.453	0.742453	4.929976001	0.32388253974	0.362748445
1159	2534	1954.072	1.954072	432.033	0.432033	4.657198628	0.27635180288	0.309514019
1160	796	2363.889	2.363889	241.286	0.241286	4.363737264	0.22229471518	0.248970081
1161	2257	413.28	0.41328	269.317	0.269317	4.419105871	0.26469481484	0.296458193
1162	2178	2003.167	2.003167	94.72	0.09472	3.89267236	0.17025844687	0.19088946
1163	2265	291.072	0.291072	632.706	0.632706	4.849394265	0.33872056530	0.379367033
1164	732	2245.146	2.245146	1110.08	1.11008	5.132610963	0.35053777485	0.392602308
1165	733	2065.783	2.065783	917.521	0.917521	5.036634575	0.33837000089	0.378974401
1166	1989	1843.956	1.843956	275.286	0.275286	4.430149585	0.24381700155	0.273075042
1167	2506	1049.727	1.049727	617.122	0.617122	4.836830394	0.32684848000	0.366070296
1168	2159	617.213	0.617213	220.484	0.220484	4.318317412	0.24744593851	0.277139451
1169	1987	1921.7	1.9217	363.706	0.363706	4.57047054	0.26338775881	0.294994288
1170	2438	1641.192	1.641192	71.558	0.071558	3.751403505	0.16047373632	0.179730585
1171	2439	1753.176	1.753176	502.025	0.502025	4.7328414	0.29372849895	0.328975919
1172	2440	1942.545	1.942545	1215.604	1.215604	5.17835886	0.36825777970	0.412448713
1173	2431	1660.078	1.660078	344.881	0.344881	4.543696352	0.26520890510	0.297033974
1174	2148	924.474	0.924474	177.803	0.177603	4.209362345	0.22805553147	0.255422195
1175	2450	2709.845	2.709845	133.418	0.133418	4.065248734	0.17639462848	0.197561984
1176	2156	1106.25	1.10625	331.861	0.331861	4.524309212	0.27293285867	0.305684802
1177	734	2545.568	2.545568	701.657	0.701657	4.90150484	0.30042339108	0.336474199
1178	2150	1132.803	1.132803	693.743	0.693743	4.895790392	0.33589064952	0.376197527
1179	720	2536.148	2.536148	274.35	0.27435	4.428433759	0.22717877302	0.254440226
1180	2115	1036.284	1.036284	698.582	0.698582	4.899277751	0.33833814459	0.378938722
1181	2118	1441.05	1.44105	454.82	0.45482	4.683093882	0.29254144730	0.327646421
1182	2401	2054.597	2.054597	924.132	0.924132	5.04025145	0.33935188947	0.380074116
1183	2119	1353.836	1.353836	711.773	0.711773	4.908716151	0.33363775479	0.373674285
1184	2392	1500.326	1.500326	557.223	0.557223	4.78539368	0.30860583295	0.345638533
1185	2393	1957.767	1.957767	792.519	0.792519	4.962851232	0.32817414778	0.367555046
1186	2099	1319.444	1.319444	801.66	0.80166	4.968628649	0.34529839615	0.386734204
1187	2390	1806.655	1.806655	471.298	0.471298	4.701022892	0.29187967893	0.326898518
1188	2375	1849.185	1.849185	407.155	0.407155	4.627321336	0.27412091281	0.307015422
1189	1985	2240.52	2.24052	219.535	0.219535	4.316144372	0.21858762484	0.24481814
1190	2389	1792.655	1.792655	256.701	0.256701	4.39493597	0.23974421327	0.268513519
1191	1920	1731.808	1.731808	304.254	0.304254	4.480554104	0.25386775517	0.284331886
1192	692	2842.655	2.842655	1652.68	1.65268	5.333098975	0.36821509328	0.412400904
1193	2382	2033.399	2.033399	289.029	0.289029	4.454692048	0.24313727806	0.272313751
1194	707	3333.231	3.333231	299.531	0.299531	4.472672461	0.21306841996	0.23863663
1195	2378	2026.738	2.026738	201.189	0.201189	4.272180909	0.21730440388	0.243380932
1196	2496	3994.796	3.994796	431.852	0.431852	4.656988525	0.22086896340	0.247373239

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
1197	722	3337.116	3.337116	332.923	0.332923	4.525918807	0.22021779214	0.246643927
1198	1923	1770.104	1.770104	827.965	0.827965	4.984893895	0.33724325472	0.377712445
1199	2443	3137.533	3.137533	774.158	0.774158	4.951042343	0.29053637582	0.325400741
1200	2136	2102.297	2.102297	722.887	0.722887	4.916521681	0.31594617164	0.353859712
1201	2924	4673.899	4.673899	665.69	0.66569	4.874995558	0.23314400823	0.261121289
1202	2339	1984.235	1.984235	821.575	0.821575	4.98099077	0.33067656402	0.370357752
1203	2410	2616.297	2.616297	280.885	0.280885	4.440293115	0.22685444776	0.254076981
1204	724	3204.314	3.204314	310.586	0.310586	4.490930976	0.21886523168	0.245129059
1205	2338	2457.117	2.457117	279.756	0.279756	4.438264115	0.23052722865	0.258190496
1206	2358	2033.069	2.033069	635.638	0.635638	4.851723429	0.30665223164	0.343450499
1207	2007	2401.317	2.401317	268.476	0.268476	4.417530344	0.22894767294	0.256421394
1208	2357	2656.712	2.656712	285.714	0.285714	4.448880565	0.22704938907	0.254295316
1209	2353	2656.712	2.656712	650.107	0.650107	4.863062417	0.29065929827	0.325538414
1210	2490	4490.185	4.490185	298.734	0.298734	4.471330199	0.18453973030	0.206684498
1211	2341	2586.913	2.586913	456.352	0.456352	4.684787952	0.26394639682	0.295622204
1212	2359	2806.38	2.80638	188.149	0.188149	4.238422221	0.19532529850	0.218764334
1213	2095	2618.889	2.618889	58.631	0.058631	3.65102767	0.13450159235	0.150641783
1214	2468	4147.171	4.147171	232.271	0.232271	4.344554188	0.17729829540	0.198574091
1215	2033	2569.657	2.569657	588.844	0.588844	4.813200295	0.28499559062	0.319195061
1216	684	4577.814	4.577814	222.213	0.222213	4.322252577	0.16534321354	0.185184399
1217	681	4621.349	4.621349	285.806	0.285806	4.449042756	0.17889135500	0.200358318
1218	635	5418.88	5.41888	471.976	0.471976	4.701747102	0.19132049870	0.214278959
1219	2457	4190.433	4.190433	797.678	0.797678	4.966120033	0.26053190342	0.291795732
1220	1928	3711.308	3.711308	512.62	0.51262	4.743362834	0.24094330727	0.269856504
1221	645	5756.571	5.756571	352.616	0.352616	4.554870337	0.16677851807	0.18679194
1222	1964	4001.439	4.001439	1072.642	1.072642	5.115327566	0.29023993008	0.325068722
1223	2459	4821.248	4.821248	366.837	0.366837	4.574788834	0.18946009884	0.212195311
1224	1604	4495.188	4.495188	190.034	0.190034	4.243444319	0.15847142802	0.177487999
1225	1682	5063.371	5.063371	556.034	0.556034	4.784317564	0.21043350103	0.235685521
1226	1464	4826.653	4.826653	968.221	0.968221	5.063730418	0.25675445358	0.287564988
1227	1465	4891.571	4.891571	958.749	0.958749	5.058777712	0.25412282984	0.284617569
1228	1600	4707.207	4.707207	245.516	0.245516	4.372492568	0.16819954748	0.188383493
1229	1476	4665.797	4.665797	884.313	0.884313	5.018062971	0.25447459712	0.285011549
1230	1254	4931.565	4.931565	41.907	0.041907	3.481852424	0.08690800135	0.097336962
1231	1478	4665.797	4.665797	769.549	0.769549	4.948034083	0.24398733168	0.273265811
1232	1486	4993.014	4.993014	675.792	0.675792	4.882583134	0.22564411288	0.252721406
1233	1455	5282.893	5.282893	340.565	0.340565	4.537352015	0.17485124075	0.19560939
1234	1454	5286.318	5.286318	515.022	0.515022	4.745717906	0.19995414375	0.223948641
1235	1453	5341.944	5.341944	456.156	0.456156	4.684571534	0.19095594991	0.213870664
1236	1535	5303.791	5.303791	284.563	0.284563	4.44684698	0.16400292686	0.183683278
1237	1592	5303.791	5.303791	278.164	0.278164	4.435389071	0.16274570989	0.182275185
1238	1546	5426.229	5.426229	146.031	0.146031	4.110756269	0.12816504919	0.143544855
1239	1534	5373.921	5.373921	373.568	0.373568	4.583948814	0.17811394285	0.199487616
1240	1556	5452.534	5.452534	331.006	0.331006	4.523009605	0.16942976829	0.18976134
1241	1551	5570.446	5.570446	199.369	0.199369	4.267602851	0.14036874698	0.157212

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
1249	1729	7087.116	7.087116	245.86	0.24586	4.373197938	0.12564405076	0.140721337
1250	1410	6748.312	6.748312	638.255	0.638255	4.853793302	0.18113036749	0.202866012
1251	1417	6846.792	6.846792	537.829	0.537829	4.76754729	0.16922912482	0.18953962
1252	1791	7607.661	7.607661	11.78	0.01178	2.842528537	0.03706957010	0.041517919
1253	1422	6509.74	6.50974	1014.81	1.01481	5.087406296	0.21597385518	0.241890718
1254	1497	6720.7	6.7207	785.458	0.785458	4.958342642	0.19445008943	0.2177941
1255	1805	7681.196	7.681196	552.433	0.552433	4.781044352	0.15578620988	0.174400655
1256	1427	6611.889	6.611889	545.609	0.545609	4.77478257	0.17461261384	0.195566126
1257	1791	7793.824	7.793824	237.31	0.23731	4.355366606	0.11441371065	0.126143356
1258	1496	7253.689	7.253689	375.312	0.375312	4.586295243	0.14298240792	0.160140297
1259	1646	8761.644	8.761644	152.851	0.152851	4.13375121	0.08748997086	0.097988767
1260	269	8691.525	8.691525	825.154	0.825154	4.983180611	0.16078339240	0.180077399
1261	1734	8425.685	8.425685	304.041	0.304041	4.480201297	0.11867845082	0.130679865
1262	1779	8811.48	8.81148	75.036	0.075036	3.775312823	0.06647518808	0.074452211
1263	1731	8136.804	8.136804	903.656	0.903656	5.028963638	0.17527318745	0.18930597
1264	1678	9037.3	9.0373	37.061	0.037061	3.419943875	0.04928065937	0.055194338
1265	1359	9380.136	9.380136	736.678	0.736678	4.926042132	0.14456233268	0.161809813
1266	1656	9844.102	9.844102	388.043	0.388043	4.60310063	0.11016318660	0.123382769
1267	1652	10163.007	10.163007	253.98	0.25398	4.389567442	0.09143566415	0.102407944
1268	1674	10566.897	10.566897	284.054	0.284054	4.445945055	0.09165637422	0.102665139
1269	1298	10047.285	10.047285	95.793	0.095793	3.898347178	0.06399351722	0.071672739
1270	1655	10477.055	10.477055	652.655	0.652655	4.865033057	0.12494848936	0.139942306
1271	1373	10101.38	10.10138	286.248	0.286248	4.449821255	0.09614250829	0.107679609
1272	1375	10264.333	10.264333	176.446	0.176446	4.206069708	0.07900959153	0.088490743
1273	1283	10163.488	10.163488	649.538	0.649538	4.862621294	0.12841662877	0.143826624
1274	1265	10308.36	10.30836	883.506	0.883506	5.017603024	0.14109344837	0.158024662
1275	1633	10845.178	10.845178	677.825	0.677825	4.884096396	0.12246673349	0.137162742
1276	1638	10835.756	10.835756	368.737	0.368737	4.577391393	0.09838663307	0.110193029
1277	319	10832.825	10.832825	339.339	0.339339	4.53553518	0.09545407473	0.106908564
1278	1646	11292.304	11.292304	407.659	0.407659	4.62794456	0.09790132577	0.109649485
1279	321	10918.288	10.918288	216.385	0.216385	4.308863496	0.08009035324	0.089701198
1280	1314	10417.833	10.417833	666.473	0.666473	4.87558777	0.12656537794	0.141753223
1281	1288	11173.409	11.173409	154.51	0.15451	4.139189647	0.06881413843	0.077071835
1282	1289	11173.409	11.173409	191.497	0.191497	4.247307891	0.07466746998	0.083627566
1283	1349	11468.006	11.468006	166.991	0.166991	4.178323956	0.06896195934	0.077237394
1284	1615	12017.351	12.017351	376.049	0.376049	4.587283548	0.08911852985	0.099812753
1285	1341	12144.736	12.144736	229.811	0.229811	4.339190143	0.07325731169	0.082048189
1286	1323	11954.012	11.954012	456.017	0.456017	4.684417998	0.09622380704	0.107770664
1287	1224	12416.746	12.416746	207.966	0.207966	4.288871113	0.06886399981	0.07712768
1288	197	13271.163	13.271163	862.916	0.862916	5.005723485	0.10888811753	0.121964992
1289	188	13072.452	13.072452	2999.304	2.999304	5.633343765	0.17035761354	0.190800627
1290	1247	13113.796	13.113796	123.307	0.123307	4.025545769	0.05299379474	0.05935306
1291	1248	13102.151	13.102151	200.825	0.200825	4.27126862	0.06407516901	0.071764189
1292	1220	12951.443	12.951443	249.74	0.24974	4.381086205	0.07053420848	0.078998314
1293	1164	13212.471	13.212471	201.523	0.201523	4.273016559	0.06356946903	0.071197805
1294	1202	12887.348	12.887348	653.486	0.653486	4.865674094	0.10150876839	0.11369821
1295	1167	13377.625	13.377625	34.135	0.034135	3.378511892	0.03110015717	0.034832176
1296	1234	13836.577	13.836577	621.679	0.621679	4.840536789	0.09242985860	0.103521442
1297	149	14885.614	14.885614	552.613	0.552613	4.781208473	0.08169301379	0.091496175
1298	1235	14026.681	14.026681	166.625	0.166625	4.177218588	0.05524054106	0.061869406
1299	156	15189.445	15.189445	552.559	0.552559	4.781159242	0.07987865279	0.089464091
1300	1201	13831.846	13.831846	492.005	0.492005	4.722684639	0.08477871658	0.094952163

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
1301	191	14809.696	14.809696	303.69	0.30369	4.47961937	0.06549413580	0.073353432
1302	177	13900.47	13.90047	1321.516	1.321516	5.220444014	0.12085905836	0.135362146
1303	178	14113.376	14.113376	1372.211	1.372211	5.23940824	0.12056365955	0.135031299
1304	1196	13622.817	13.622817	1049.928	1.049928	5.104545041	0.11370194446	0.127346178
1305	49	16693.049	16.693049	353.828	0.353828	4.556598949	0.06055317478	0.067819556
1306	119	15290.702	15.290702	551.027	0.551027	4.77976054	0.07920681434	0.088711632
1307	111	15894.718	15.894718	279.467	0.279467	4.437743418	0.05851145772	0.065532833
1308	107	16053.739	16.053739	138.403	0.138403	4.083728785	0.04393907227	0.049211761
1309	17	16720.436	16.720436	299.498	0.299498	4.472616955	0.05666666333	0.063466663
1310	86	16628.426	16.628426	604.688	0.604688	4.826576366	0.07462489428	0.083579882
1311	106	16433.566	16.433566	400.338	0.400338	4.618815106	0.06465752689	0.07241643
1312	99	16172.317	16.172317	774.976	0.774976	4.951574374	0.08451698623	0.094659026
1313	81	16685.686	16.685686	542.545	0.542545	4.771945488	0.07134321033	0.079904396
1314	85	16435.023	16.435023	555.475	0.555475	4.78381084	0.07323820281	0.082026787
1315	65	16207.057	16.207057	608.119	0.608119	4.829426744	0.07699551778	0.08623498
1316	199	15251.245	15.251245	965.352	0.965352	5.062235413	0.09778758002	0.10952209
1317	131	16003.341	16.003341	536.176	0.536176	4.76599655	0.07448341580	0.083421426
1318	83	17018.621	17.018621	200.392	0.200392	4.270181241	0.04744349422	0.053136714
1319	1120	14950.306	14.950306	757.64	0.75764	4.940176959	0.09142330189	0.102394098
1320	97	16945.889	16.945889	293.52	0.29352	4.462459731	0.05535036034	0.061992404
1321	120	16676.455	16.676455	337.165	0.337165	4.532297283	0.05950585473	0.066646667
1322	1162	15336.336	15.336336	227.418	0.227418	4.33391681	0.05629679919	0.063051296
1323	96	17213.131	17.213131	313.311	0.313311	4.495331746	0.05573627600	0.062424629
1324	124	17060.363	17.060363	280.721	0.280721	4.439998887	0.05397082649	0.060447326
1325	123	17060.363	17.060363	179.811	0.179811	4.215586857	0.04533058424	0.050770264
1326	136	16716.895	16.716895	147.688	0.147688	4.116440443	0.04296933699	0.048125667
1327	472	10470.298	10.470298	331.771	0.331771	4.524172569	0.09795317306	0.109707554
1328	476	10197.168	10.197168	188.038	0.188038	4.238124923	0.08146286498	0.091238409
1329	461	9761.181	9.761181	477.338	0.477338	4.707438171	0.11962970938	0.133985275
1330	454	9714.773	9.714773	588.034	0.588034	4.812506828	0.12938797503	0.144914532
1331	421	9490.102	9.490102	313.143	0.313143	4.495061541	0.10557153330	0.118240117
1332	436	8934.898	8.934898	4615.234	4.615234	5.850464721	0.27080974480	0.303306914
1333	35	18142.957	18.142957	536.115	0.536115	4.765939232	0.06445159073	0.072185782
1334	22	17458.896	17.458896	2001.963	2.001963	5.429689014	0.10987263332	0.123057349
1335	883	9676.391	9.676391	546.16	0.54616	4.775291072	0.12652760370	0.141710916
1336	868	8625.56	8.62556	943.655	0.943655	5.050783365	0.16931018551	0.189627406
1337	426	8404.446	8.404446	470.11	0.47011	4.699751408	0.13644871802	0.152822564
1338	533	7252.85	7.25285	1660.071	1.660071	5.335346929	0.23294832502	0.260902124
1339	520	7552.908	7.552908	899.965	0.899965	5.026901719	0.18591072679	0.208220014
1340	512	7929.254	7.929254	872.092	0.872092	5.011052271	0.17693914501	0.198171842
1341	527	8276.276	8.276276	2303.378	2.303378	5.500343649	0.23324389375	0.261233161
1342	229	8959.858	8.959858	1490.467	1.490467	5.281053943	0.19060081895	0.213472917
1343	204	12494.244	12.494244	1074.054	1.074054	5.115990296	0.12525624821	0.140286998
1344	18	13925.282	13.925282	1181.365	1.181365	5.163965556	0.11591501677	0.129824819
1345	263	7739.437	7.739437	8174.594	8.174594	6.138460783	0.35094424300	0.393057582
1346	90	17213.131	17.213131	297.007	0.297007	4.468409355	0.05459150464	0.061142486
1347	110	16052.206	16.052206	59.768	0.059768	3.660703719	0.03142923761	0.035200746
1348	114	15431.321	15.431321	156.003	0.156003	4.144034222	0.04826760594	0.054036311
1349	165	15160.994	15.160994	124.136	0.124136	4.028921387	0.04501419966	0.050415904
1350	392	10163.966	10.163966	783.09	0.78309	4.956821547	0.13710668705	0.153558489
1351	387	8342.825	8.342825	125.798	0.125798	4.035621534	0.08520362035	0.095428066
1352	287	12812.588	12.812588	333.847	0.333847	4.527315074	0.07964361670	0.089200861

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
1353	664	4712.038	4.712038	131.245	0.131245	4.05697801	0.13552396513	0.151786841
1354	630	4653.051	4.653051	334.862	0.334862	4.528844405	0.18774669818	0.210276302
1355	743	4612.409	4.612409	73.811	0.073811	3.767020464	0.11186623784	0.126290186
1356	805	4005.021	4.005021	183.071	0.183071	4.224638682	0.16671247583	0.186717973
1357	827	4155.456	4.155456	199.713	0.199713	4.268471349	0.16838040890	0.186960668
1358	809	4034.135	4.034135	240.561	0.240561	4.362221256	0.18196354472	0.20879917
1359	809	4034.135	4.034135	171.797	0.171797	4.192618068	0.16255315246	0.182056831
1360	716	3583.205	3.583205	66.656	0.066656	3.715653528	0.12411510344	0.139006918
1361	273	8699.405	8.699405	549.467	0.549467	4.778332273	0.13974196092	0.156510998
1362	739	9673.234	9.673234	8477.98	8.47798	6.15681917	0.30329912833	0.336995024
1363	739	9673.234	9.673234	11911.071	11.911071	6.328102944	0.33274588836	0.372675396
1364	936	6916.587	6.916587	561.973	0.561973	4.789669922	0.17039907399	0.190646963
1365	1032	6924.978	6.924978	174.324	0.174324	4.199974332	0.11325270412	0.126843029
1366	1030	7302.491	7.302491	113.199	0.113199	3.982457405	0.09242965351	0.103821212
1367	1028	6799.958	6.799958	545.506	0.545506	4.774687457	0.17093159785	0.191443339
1368	1036	7670.541	7.670541	216.246	0.216246	4.308539776	0.11219919844	0.125863102
1369	928	7800.005	7.800005	104.65	0.10465	3.94289751	0.08463328939	0.094789284
1370	929	8372.299	8.372299	171.842	0.171842	4.19275001	0.09535716388	0.108800024
1371	929	8372.299	8.372299	426.816	0.426816	4.651079202	0.13235521047	0.148237836
1372	934	8151.813	8.151813	224.167	0.224167	4.326663149	0.10769413416	0.12061743
1373	929	8506.216	8.506216	58.307	0.058307	3.648236008	0.06243931943	0.069962038
1374	620	6495.509	6.495509	364.099	0.364099	4.571014604	0.15439301275	0.172820174
1375	893	6481.787	6.481787	130.799	0.130799	4.055261131	0.10774188723	0.120670914
1376	836	6021.289	6.021289	1127.6	1.1276	5.140499878	0.23537446902	0.263619406
1377	579	6134.72	6.13472	6637.275	6.637275	6.033508182	0.38230658733	0.428183378
1378	587	6261.009	6.261009	323.078	0.323078	4.510796567	0.15237026102	0.170654692
1379	589	6418.722	6.418722	401.908	0.401908	4.620786915	0.16111476115	0.180448532
1380	502	6171.996	6.171996	101.186	0.101186	3.925939697	0.10201799853	0.114260158
1381	591	6024.522	6.024522	177.738	0.177738	4.209745135	0.12733718440	0.142817847
1382	753	5872.102	5.872102	627.065	0.627065	4.844882571	0.19892022860	0.222790864
1383	495	5888.252	5.888252	446.382	0.446382	4.673659741	0.17797605756	0.199333184
1384	835	7234.827	7.234827	299.436	0.299436	4.472512655	0.15528081207	0.173914651
1385	964	7725.197	7.725197	423.592	0.423592	4.647259389	0.14939973398	0.167327702
1386	959	8050.908	8.050908	83.174	0.083174	3.827185602	0.07831562630	0.087713501
1387	972	8190.114	8.190114	285.664	0.285664	4.448792395	0.11883879657	0.133099462
1388	963	7899.987	7.899987	223.836	0.223836	4.325918726	0.10718189651	0.120043724
1389	963	7899.987	7.899987	75.923	0.075923	3.781233098	0.07411197789	0.083005416
1390	960	7899.987	7.899987	365.775	0.365775	4.573328262	0.13189028022	0.147717114
1391	960	7899.987	7.899987	541.543	0.541543	4.771014218	0.15114366171	0.169280901
1392	755	5718.911	5.718911	8174.443	8.174443	6.138451477	0.41734533634	0.467426777
1393	499	6707.834	6.707834	338.332	0.338332	4.534037968	0.14685733949	0.164480222
1394	553	6879.497	6.879497	96.016	0.096016	3.899518587	0.09154710025	0.102532752
1395	954	5982.085	5.982085	234.606	0.234606	4.349593373	0.14111776468	0.158051898
1396	943	6155.049	6.155049	351.194	0.351194	4.552834622	0.15876801261	0.177820174
1397	950	6303.839	6.303839	100.087	0.100087	3.920438099	0.09991709716	0.111907148
1398	944	6318.81	6.31881	116.606	0.116606	3.997396241	0.10546080897	0.118116106
1399	941	6427.625	6.427625	804.794	0.804794	4.82666467	0.18447941401	0.206616944
1400	938	6767.575	6.767575	336.145	0.336145	4.530770921	0.14551255687	0.162974064
1401	940	6971.527	6.971527	310.903	0.310903	4.491444899	0.13830729511	0.154904171
1402	937	5112.483	5.112483	12278.564	12.278564	6.343411191	0.48188225924	0.53970813
1403	1066	7135.377	7.135377	139.161	0.139161	4.086480347	0.10175220489	0.113982469
1404	2609	4630.878	4.630878	432.048	0.432048	4.657214787	0.20449297806	0.229032135

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Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
1405	1013	4628.066	4.628066	390.878	0.390878	4.606767824	0.19806442084	0.221832151
1406	2215	2986.381	2.986381	105.621	0.105621	3.947550319	0.15759050572	0.176501388
1407	2214	2783.196	2.783196	424.211	0.424211	4.647995034	0.25285150864	0.28319388
1408	2173	2656.092	2.656092	34.42	0.03442	3.382700605	0.11064829421	0.12392609
1409	704	3602.098	3.602098	166.979	0.166979	4.178287753	0.17021230663	0.190637783
1410	2216	2381.638	2.381638	5265.604	5.265604	5.916879906	0.50251129525	0.562812661
1411	690	4363.938	4.363938	829.181	0.829181	4.985633237	0.25837810318	0.289383478
1412	659	4552.942	4.552942	486.091	0.486091	4.716592393	0.21434232543	0.240063404
1413	1340	11387.76	11.38776	107.311	0.107311	3.955547321	0.05861239891	0.065645887
1414	1160	13086.013	13.086013	1577.502	1.577502	5.309645105	0.11340759655	0.127016508
1415	1151	13900.464	13.900464	1105.542	1.105542	5.130547286	0.10291452899	0.115264272
1416	1142	13866.829	13.866829	838.917	0.838917	4.991514034	0.10237297929	0.114657737
1417	1147	13548.815	13.548815	772.843	0.772843	4.950185882	0.07387518371	0.082740206
1418	1112	14268.152	14.268152	373.453	0.373453	4.583793705	0.10921767830	0.1223238
1419	1148	13846.719	13.846719	984.417	0.984417	5.072087762	0.05038993150	0.056436723
1420	1622	11617.125	11.617125	76.963	0.076963	3.788087106	0.13850487760	0.155125463
1421	1621	11618.873	11.618873	1165.261	1.165261	5.157050925	0.19122404851	0.214170884
1422	1294	9822.788	9.822788	1918.808	1.918808	5.408316564	0.02988229312	0.033468168
1423	1279	10837.801	10.837801	17.137	0.017137	3.031364364	0.17029228986	0.190727366
1424	1089	4596.248	4.596248	84.402	0.084402	3.834589176	0.17029228986	0.190727366
1425	1089	4596.248	4.596248	244.255	0.244255	4.369898417	0.17029228986	0.190727366
1426	1479	4596.248	4.596248	296.698	0.296698	4.471269485	0.18209722540	0.203948882
1427	1487	4698.421	4.698421	236.9	0.2369	4.35449547	0.16637319394	0.186337977
1428	1951	3647.548	3.647548	910.351	0.910351	5.032682293	0.28791092162	0.322460232
1429	1995	1698.484	1.698484	110.773	0.110773	3.971543344	0.18485582028	0.207038619
1430	1970	1378.492	1.378492	87.239	0.087239	3.851224387	0.17556229439	0.19662977
1431	2197	1189.975	1.189975	65.1	0.0651	3.703753947	0.16137682378	0.180742043
1432	2228	2055.197	2.055197	317.025	0.317025	4.501268473	0.24957485553	0.279523898
1433	2229	2268.688	2.268688	308.594	0.308594	4.487689474	0.24235302061	0.271435363
1434	2241	2754.845	2.754845	186.34	0.18634	4.233555066	0.19589102440	0.219387947
1435	2237	2294.788	2.294788	282.241	0.282241	4.442719319	0.23514547387	0.263362931
1436	2237	2294.788	2.294788	393.53	0.39353	4.610174301	0.26020999017	0.291435189
1437	2226	2540.808	2.540808	341.006	0.341006	4.538003944	0.24288078263	0.272028477
1438	1912	3329.263	3.329263	552.825	0.552825	4.781401703	0.25764854282	0.288566968
1439	2607	4050.092	4.050092	904.27	0.90427	5.029305823	0.27472343582	0.307690248
1440	2636	4087.518	4.087518	137.163	0.137163	4.079194891	0.14945735854	0.167392242
1441	2720	3185.654	3.185654	9039.143	9.039143	6.189107618	0.52847098343	0.591887501
1442	1444	6486.051	6.486051	164.795	0.164795	4.171655076	0.11705724234	0.131104111
1443	1413	6619.913	6.619913	447.537	0.447537	4.674961578	0.16323488655	0.182828073
1444	1402	6584.659	6.584659	507.657	0.507657	4.73846164	0.17099018784	0.191508001
1445	1414	6554.233	6.554233	494.681	0.494681	4.725417267	0.17010531056	0.190517948
1446	1401	6641.96	6.64196	266.646	0.266646	4.414084685	0.13624399600	0.152598278
1447	1397	6639.754	6.639754	1437.719	1.437719	5.262901854	0.23737212496	0.26585678
1448	1400	6636.326	6.636326	855.213	0.855213	4.867003707	0.18499871552	0.2071985

8/1/96 CONT

SIMOND

6/10/96
9:54 AM

Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
1457	2027	3019.291	3.019291	199.869	0.199869	4.26886471	0.19422853135	0.217535656
1458	2014	3255.335	3.255335	160.227	0.160227	4.157493413	0.17540541306	0.196454069
1459	2017	3329.366	3.329366	392.577	0.392577	4.608952828	0.23208046588	0.259930122
1460	1086	4211.15	4.21115	710.245	0.710245	4.907633495	0.25100266056	0.28112238
1461	1529	4544.293	4.544293	51.666	0.051666	3.587317614	0.09913408333	0.111030179
1462	1529	4544.293	4.544293	90.022	0.090022	3.867044443	0.12126743633	0.135819829
1463	1091	4346.457	4.346457	225.674	0.225674	4.330038571	0.17119562718	0.191739102
1464	1527	4653.385	4.653385	79.757	0.079757	3.80605182	0.11440184091	0.128130062
1465	1492	5916.564	5.916564	348.297	0.348297	4.548661891	0.16291077182	0.182460064
1466	1383	359.976	0.359976	9099.284	9.099284	6.192448375	0.61423837359	0.687946978
1467	1308	10294.481	10.294481	118.794	0.118794	4.006761627	0.06778422227	0.075918329
1468	1366	10252.101	10.252101	31.633	0.031633	3.340162842	0.04059299854	0.045464158
1469	1263	7907.149	7.907149	1130.407	1.130407	5.141752412	0.19308478079	0.216254854
1470	1493	7190.429	7.190429	3886.09	3.88609	5.763834911	0.30109893662	0.337230809
1471	1515	6128.461	6.128461	441.028	0.441028	4.667580749	0.17198182015	0.192619639
1472	1544	5799.536	5.799536	392.521	0.392521	4.60888096	0.17199521655	0.192634443
1473	1538	5810.147	5.810147	285.001	0.285001	4.447621805	0.15414220226	0.172639267
1474	3964	5411.375	5.411375	30.361	0.030361	3.319486643	0.07197237960	0.080609066
1475	1576	5029.186	5.029186	90.155	0.090155	3.867788189	0.11365442396	0.127292856
1476	1572	4820.845	4.820845	599.693	0.599693	4.822397616	0.22181014030	0.248427357
1477	1582	5029.186	5.029186	410.959	0.410959	4.632006255	0.19167911736	0.214680611
1478	1587	4677.109	4.677109	529.412	0.529412	4.759600786	0.21695283407	0.242987174
1479	1594	4551.508	4.551508	352.424	0.352424	4.554595952	0.19332825831	0.216527649
1480	1571	4677.109	4.677109	119.945	0.119945	4.011619293	0.13190788245	0.147736828
1481	1587	4590.78	4.59078	86.655	0.086655	3.847840607	0.11887277203	0.133137605
1482	2057	4087.504	4.087504	27.565	0.027565	3.270815276	0.08369954605	0.093743492
1483	2055	3982.487	3.982487	122.253	0.122253	4.021221049	0.14563129331	0.163107049
1484	2012	3409.247	3.409247	174.684	0.174684	4.201013629	0.17707967369	0.198329235
1485	2010	3418.618	3.418618	168.027	0.168027	4.181439725	0.17459215590	0.195543215
1486	2131	1595.914	1.595914	7995.667	7.995667	6.12731145	0.57403698081	0.642921419
1487	2093	3208.33	3.20833	331.705	0.331705	4.524072341	0.22334042323	0.250141274
1488	2089	3171.512	3.171512	306.116	0.306116	4.483627795	0.21871121030	0.244956566
1489	2074	3740.963	3.740963	198.124	0.198124	4.264447022	0.17707422073	0.198323127
1490	2069	3760.471	3.760471	148.885	0.148885	4.120507097	0.16043214014	0.179683997
1491	2070	3812.632	3.812632	132.895	0.132895	4.063270024	0.15327578082	0.171668875
1492	2086	2830.524	2.830524	1273.652	1.273652	5.201858907	0.34425169476	0.385561898
1493	1085	4355.848	4.355848	134.745	0.134745	4.070234684	0.14337235545	0.160577038
1494	1593	5052.922	5.052922	211.143	0.211143	4.296508958	0.15291290979	0.171262469
1495	1256	4945.366	4.945366	84.53	0.08453	3.835332608	0.11229847312	0.12577429
1496	1684	6567.642	6.567642	17.273	0.017273	3.035346617	0.04939453773	0.055321882
1497	1684	6567.642	6.567642	229.075	0.229075	4.337574126	0.13031558354	0.145953454
1498	1722	5455.01	5.45501	1188.141	1.188141	5.16684686	0.25448865410	0.285027293
1499	1699	5928	5.928	216.556	0.216556	4.309261456	0.13815328957	0.154731684
1500	1716	6129.002	6.129002	38.701	0.038701	3.441757737	0.07160411853	0.080196613
1501	1716	6129.002	6.129002	672.9	0.6729	4.880422613	0.19760176112	0.221313972
1502	1700	5996.597	5.996597	189.529	0.189529	4.242103779	0.13071668213	0.146402684
1503	1701	6081.847	6.081847	195.226	0.195226	4.257023681	0.13069670155	0.146380306
1504	1692	3745.544	3.745544	3927.879	3.927879	5.769223397	0.41935297708	0.469675334
1505	2882	7927.18	7.92718	2.042	0.002042	1.959684656	0.01743616073	0.0195285
1506	2739	7717.093	7.717093	234.064	0.234064	4.348428162	0.11483782917	0.128618369
1507	2789	6539.032	6.539032	1131.866	1.131866	5.142402217	0.22279902158	0.249534904
1508	2882	7929.156	7.929156	486.748	0.486748	4.717272844	0.14524213777	0.162671194

8/1/96 (CONT)

SIMOND

6/10/96
9:54 AM

Record	SIMV05 ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
1509	2756	5438.932	5.438932	549.785	0.549785	4.778623749	0.20054837830	0.224614184
1510	2749	5442.476	5.442476	649.468	0.649468	4.862566999	0.21144638248	0.236819948
1511	2361	3307.009	3.307009	304.15	0.30415	4.480381872	0.21478042072	0.240554071
1512	2500	2349.442	2.349442	7898.478	7.898478	6.121150359	0.54698679991	0.612625218
1513	2331	3248.765	3.248765	4914.286	4.914286	5.882094096	0.46177144554	0.517184019
1514	3978	9071.135	9.071135	6.397	0.006397	2.534932567	0.02425548617	0.027166145
1515	1879	8064.747	8.064747	1536.666	1.536666	5.296432199	0.20975555346	0.23492622
1516	1777	8136.804	8.136804	880.13	0.88013	5.015674316	0.17374340743	0.194592616
1517	1609	8724.706	8.724706	1178.991	1.178991	5.162952168	0.18053572308	0.20220001
1518	2471	4976.126	4.976126	516.483	0.516483	4.747144996	0.20768788793	0.232610434
1519	1904	3889.126	3.889126	1550.067	1.550067	5.300806546	0.32571378598	0.36479844
1520	2954	5364.497	5.364497	204.265	0.204265	4.279824992	0.14529732942	0.162733009
1521	2956	5524.002	5.524002	19.847	0.019847	3.105326049	0.06016298825	0.067382547
1522	2962	5537.843	5.537843	438.016	0.438016	4.664128371	0.18405458544	0.206141136
1523	1899	4193.249	4.193249	663.746	0.663746	4.873522224	0.24641439623	0.275964124
1524	3054	5835.358	5.835358	62.299	0.062299	3.681598048	0.08910249065	0.09979479
1525	3055	5927.985	5.927985	91.134	0.091134	3.873229302	0.10131686374	0.113474667
1526	2865	6620.67	6.62067	139.63	0.13963	4.088175336	0.10844951608	0.121483458
1527	2743	8155.917	8.155917	52.383	0.052383	3.594260826	0.06238951211	0.069876254
1528	2871	8117.411	8.117411	41.118	0.041118	3.472277099	0.05706089957	0.063908208
1529	2875	8041.808	8.041808	106.95	0.10695	3.953849715	0.08296726646	0.092923339
1530	2742	8390.228	8.390228	33.237	0.033237	3.365081308	0.05085007369	0.056952063
1531	2887	8441.537	8.441537	285.997	0.285997	4.449379314	0.11394819336	0.127621977
1532	2886	8620.256	8.620256	82.375	0.082375	3.822322696	0.07037927162	0.078824784
1533	2887	8701.401	8.701401	58.759	0.058759	3.652126299	0.06125242137	0.068602712
1534	3035	7277.846	7.277846	158.896	0.158896	4.153291039	0.10500812336	0.117609096
1535	3080	6762.261	6.762261	561.129	0.561129	4.788912749	0.17328403148	0.194078115
1536	3081	6609.095	6.609095	772.032	0.772032	4.94965695	0.19575851558	0.219249637
1537	3095	8341.852	8.341852	282.515	0.282515	4.443208153	0.11467289742	0.128433845
1538	3036	7660.034	7.660034	2532.347	2.532347	5.54808693	0.25443769500	0.284970218
1539	439	11625.437	11.625437	1222.683	1.222683	5.181284094	0.14075662295	0.157647418
1540	882	9828.156	9.828156	4305.686	4.305686	5.815489132	0.24614709088	0.275684742
1541	3982	8508.695	8.508695	7422.829	7.422829	6.089860569	0.32089792920	0.359409881
1542	842	9858.259	9.858259	212.907	0.212907	4.300700331	0.08826832724	0.098806527
1543	909	9215.739	9.215739	127.458	0.127458	4.042225835	0.07782867534	0.087168116
1544	885	8386.492	8.386492	4791.747	4.791747	5.8693729	0.28697333884	0.321410139
1545	3984	3377.627	3.377627	19361.631	19.361631	6.572852649	0.60175548251	0.67396614
1546	776	3405.465	3.405465	11993.107	11.993107	6.331560782	0.54954768816	0.615493388
1547	3986	5813.911	5.813911	5498.008	5.498008	5.938638226	0.37535431205	0.420396826
1548	3987	5148.78	5.14878	5423.899	5.423899	5.931801449	0.39780620918	0.445542954
1549	3988	5201.757	5.201757	5370.441	5.370441	5.926811542	0.39489363924	0.442280678
1550	3989	4124.607	4.124607	23506.794	23.506794	6.670584346	0.59101846752	0.661940864
1551	3082	6125.878	6.125878	7283.058	7.283058	6.080283972	0.39155496714	0.438541563
1552	3991	8192.306	8.192306	9894.016	9.894016	6.234632226	0.35538630506	0.398032662
1553	1351	11048.091	11.048091	7886.445	7.886445	6.120382284	0.26779332453	0.299888043

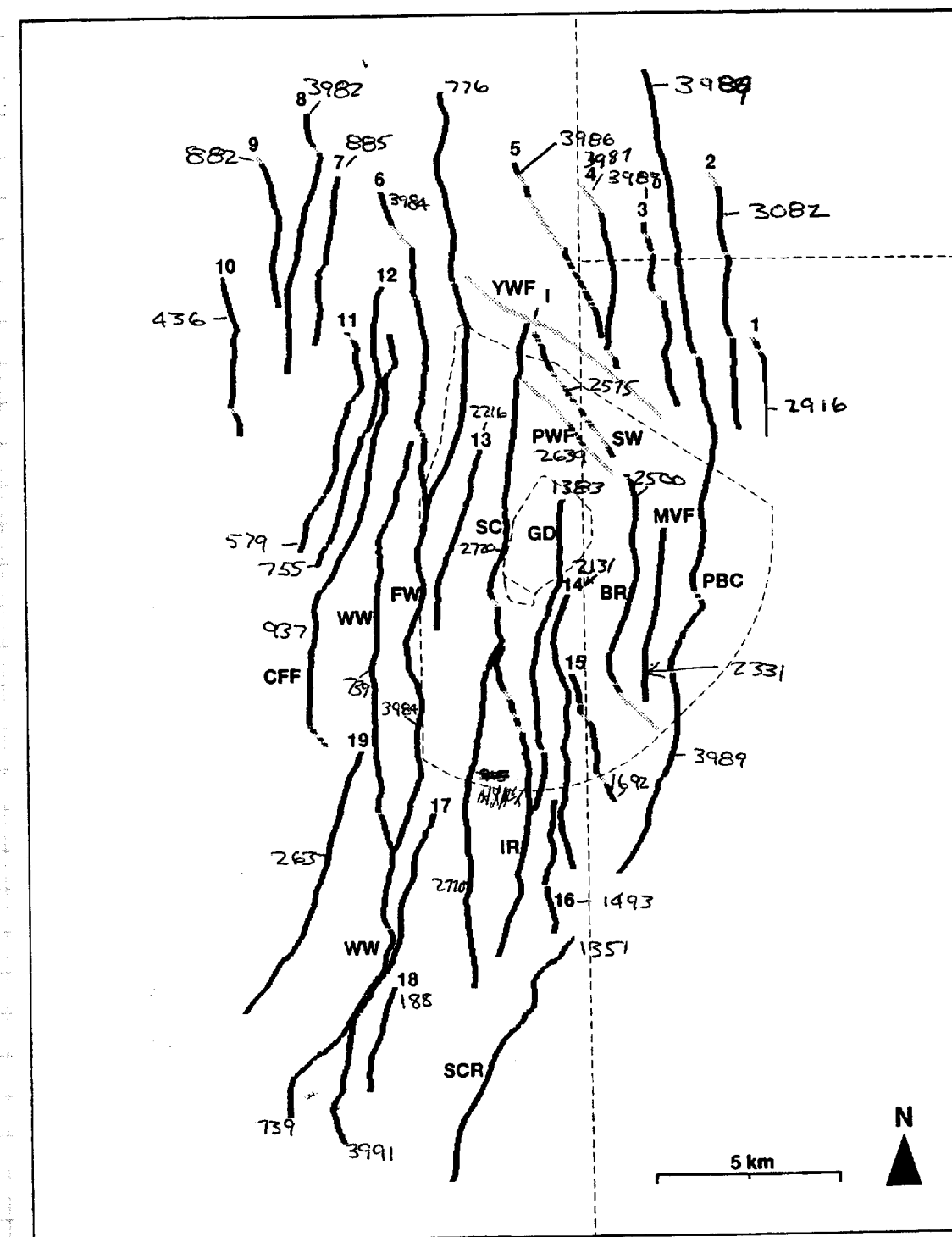
8/1/06

- GROUND MOTION WAS CALCULATED IN ALL CASES TO A POINT LOCATED AT 548371 m AND 407744 m UTM COORDINATES THE APPROXIMATE GEOMETRIC CENTER OF THE REPOSITORY
- FAULTS LESS THAN 4 KM LONG WERE DELETED FROM FURTHER CONSIDERATION UNLESS THEY WENT THROUGH THE REPOSITORY ALSO FAULTS WITH PEAK ACCELERATION $< .1g$ WERE DELETED FROM FURTHER CONSIDERATION. ALL SORTING WAS HANDLED ELECTRONICALLY.

~~MAKING~~

8/1/96

FAULT NUMBERS FROM ARC INFO
NUMBERS ARE SIMOS-1D SEE P 14-43



SEE P. 9 ALSO. ALSO SEE TABLES P 14-43

~~MAKING~~

JUNE 24, 1998

FAULTS FROM NAKATA ET AL, 1982
(QUATERNARY FAULT MAPS OF THE
BASIN AND RANGE AND RIO GRANDE
LIFT PROVINCES, WESTERN UNITED
STATES, U.S. G.S. OPEN FILE REPORT
82-579)

FAULTS WERE SELECTED WITH
SAME CRITERIA AS USED FOR
SIMOND FAULTS (P. 49). NAKATA'S
COVERAGE (ELECTRONIC) COVERED
AN AREA OUT TO 100 KM.

NAKATA

6/11/96
3:59 PM

NAKATAUTM-ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
FW	3000	3	22000	22	6.63721031	0.63082701710	0.706626259
WW	4000	4	28000	28	6.758703316	0.6147489959	0.68851888
FC	49000	49	122000	122	7.500177404	0.13657160129	0.182980193
RV	25000	25	43000	43	6.974823408	0.20956141122	0.234706781
RV (3)	33000	33	13000	13	6.372174289	0.10267453503	0.114888479

NAKATA

6/10/96
5:22 PM

NAKATAUTM-ID	Closest Approach (km)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
BEATTY S	26	10	6.24	0.12	0.14
FATIGUE WASH	2	33	6.84	0.71	0.80
AM-NS	30	7	6.06	0.09	0.10
AM-CS	38	5	5.89	0.06	0.07
AM-SC	49	48	7.03	0.10	0.11
FW(s)	2	9.5	6.21	0.58	0.65
FW(l)	2	17	6.51	0.64	0.72
OSV (w)	30	7	6.06	0.09	0.10
PRP-1	70	50	7.05	0.06	0.07
PRP-2	42	70	7.22	0.14	0.15

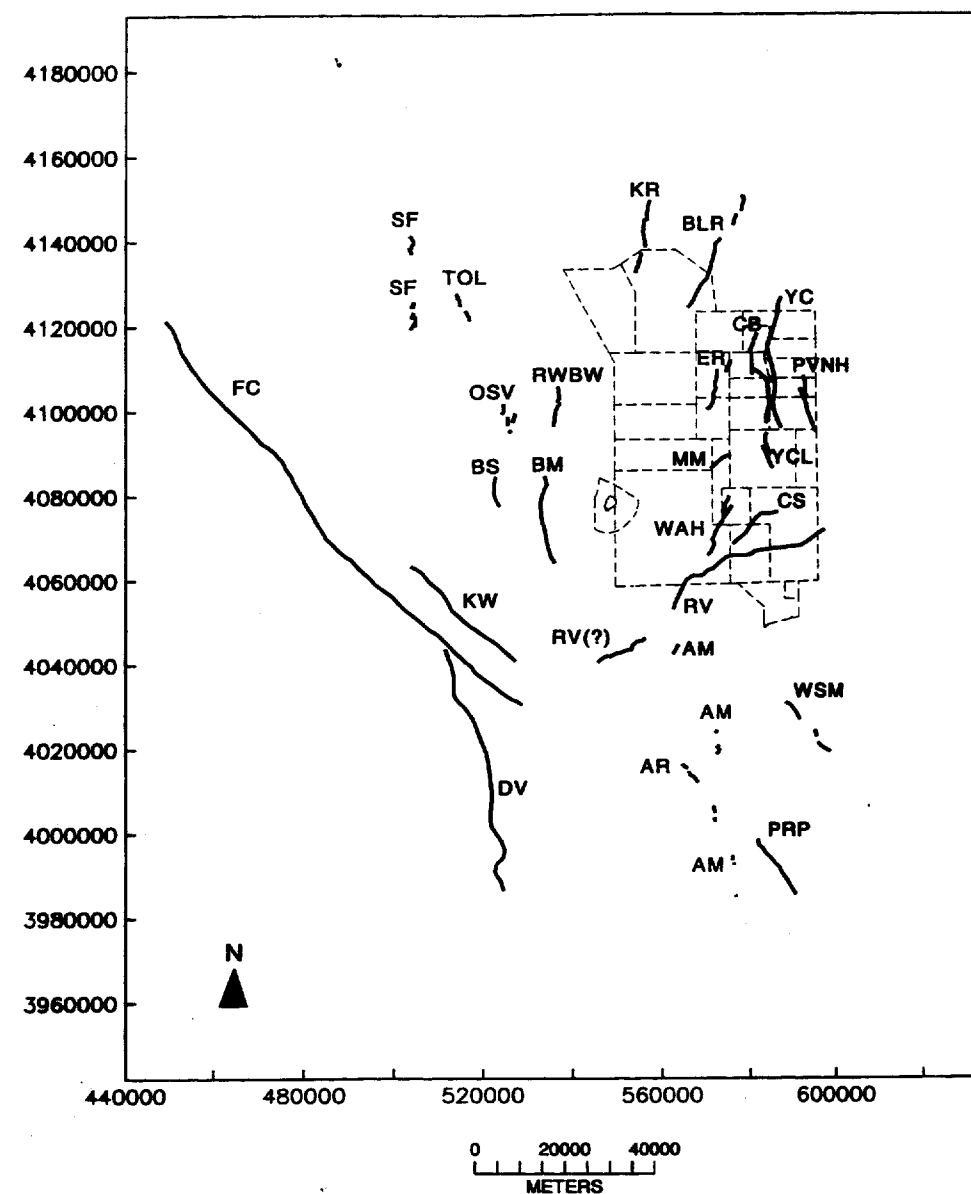
NAKATA

6/12/96
3:26 PM

NAKATAUTM-ID	Closest Approach (METERS)	Closest Approach (km)	LENGTH (METERS)	Length (Max) (km)	M =	Average Acceleration	Peak Acceleration
FC#2	49000	49	250000	250	7.86161041	0.17226562800	0.192937503

JUNE 29, 1998

MAP OF TYPE I FAULTS FROM DATA
FROM



JUNE 29, 1998

SUMMARY - ELECTRONIC FAULT COVERAGES FROM SIMOND ET AL 1995 AND NAKATA ET AL 1982 WERE USED TO ELECTRONICALLY IDENTIFY TYPE ONE FAULTS, WHICH WERE DEFINED AS $> 4\text{ km}$ IN LENGTH AND ~~POSS~~ CAPABILITY OF PRODUCING PEAK ACCELERATIONS $> 0.1g$ AT THE DEPOSITORY ~~SIGHT~~ SITE. 31 FAULTS FROM THE SIMOND'S COVERAGE AND 16 FAULTS FROM NAKATA'S COVERAGE.

THE OBJECTIVE OF ~~USING~~ SELECTING TYPE 1 FAULTS ELECTRONICALLY UTILIZED ARC INFO V. 6.1.1.

FOR FURTHER INFORMATION SEE MCKAGUE ET AL (1996) TYPE 1 FAULTS IN YUCCA MOUNTAIN REGION, ^{REVISION 1} CHURRA ON NUMBERED PUBLICATION.

IF THIS STUDY IS REDONE COVERAGE OF SIMOND ET AL SHOULD BE REASSESSED UTILIZING CONCEPTS IN FERRER ET AL 1998 NORMAL FAULT CORRELATION? IMPLICATIONS FOR GROWTH AND SEISMICITY OF ACTIVE NORMAL FAULTS SUBMITTED TO JOURNAL OF STRUCTURAL GEOLOGY.

AMC

REVIEW OF THIS SCIENTIFIC NOTEBOOK INDICATES IT CONTAINS SUFFICIENT INFORMATION SO THAT STUDY COULD BE REDONE BY A TRAINED PROFESSIONAL

A. L. McKague
6/6/00

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