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(Including Cover Sheet)

CORONA "J" FLIGHT DATA BOOK

SYSTEM NO. J-7
VEHICLE NO. 1609
MISSION NO. 1007-2
CAMERA NOS. 144 & 145

Prepared by: [Redacted]

Checked by: _____

Approved by: [Redacted]

Approved by: *for* [Redacted] Manager

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In Accordance with E. O. 12958
on NOV-26 1997

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2 JUL 1964
LOGGED

SYSTEM NO. J-7
VEHICLE NO. 1009
MISSION NO. 1007-2
CAMERA NOS. 144 & 145

~~TOP SECRET~~ Page 2 of 9
~~TOP SECRET~~

TABLE OF CONTENTS

| | Page No. |
|--|-------------------|
| Vehicle Layout | <u> </u> |
| General Flight Data | <u>3</u> |
| Lens Settings and Film Types | <u> </u> |
| V/H Ramp Configuration and Constants | <u> </u> |
| Cycle Period Data | <u>4</u> |
| Lens Data Summary Master Camera | <u> </u> |
| Lens Data Summary Master Camera Horizon Optics | <u> </u> |
| Lens Data Summary Slave Camera | <u> </u> |
| Lens Data Summary Slave Camera Horizon Optics | <u> </u> |
| Definition of Panoramic Camera Format Calibrations | <u> </u> |
| Panoramic Camera Format Calibration Dimensions | <u> </u> |
| Panoramic Camera Format Layout | <u> </u> |
| Lens Data Summary Stellar Index "A" | <u> </u> |
| Lens Data Summary Stellar Index "B" | <u> </u> |
| Preliminary Clock Correlation | <u>5</u> |
| Performance Estimate | <u>6-9</u> |
| Horizon Lens Settings | <u> </u> |



~~TOP SECRET~~
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SYSTEM NO. J-7
VEHICLE NO. 1609
MISSION NO. 1007-2
CAMERA NOS. 144 & 145

~~TOP SECRET~~
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GENERAL FLIGHT DATA:

Master Camera Serial No. 144

Slave Camera Serial No. 145

Stellar Index "A" Serial No. D43/43/43

Stellar Index "B" Serial No. D54/56/51

Launch Date 6/19/54⁶⁴

Reactivation Date _____

Reactivation Orbit No. _____

Orbital Parameters: (Rev. 96)

| | |
|--------------------------|---------------------------------------|
| Period <u>90.88</u> Min. | Eccentricity <u>0.02159</u> |
| Perigee <u>101.58</u> NM | Perigee Latitude <u>64.46</u> Deg. N |
| Apogee <u>257.66</u> NM | Inclination Angle <u>84.99</u> Deg. N |

Recovery Orbit No. 128

Recovery Date 6/27/64

REMARKS:

NO DEACTIVATION BETWEEN 1ST AND 2ND MISSIONS.

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SYSTEM NO. F-7
 VEHICLE NO. 1609
 MISSION NO. 1007-2
 CAMERA NOS. 144 & 145

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CYCLE PERIOD DATA:

PRE-FLIGHT CYCLE PERIODS:

| V/H Ramp Level | V/H Ramp Amplitude | Cycle Period Seconds | | Time Up Ramp Sec |
|----------------|--------------------|----------------------|--------|------------------|
| | | Master | Slave | |
| 11 | 2 | 11.156 | 11.517 | 0 |
| 11 | 2 | 4.870 | 4.872 | 1075 |
| 11 | 2 | 4.547 | 4.546 | 1150 |
| 11 | 2 | 4.343 | 4.340 | 1200 |
| 11 | 2 | 4.024 | 4.019 | 1290 |
| 11 | 2 | 2.226 | 2.233 | 2400 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

IN-FLIGHT CYCLE PERIODS

| V/H Ramp Level | V/H Ramp Amplitude | Cycle Period Seconds | | Orbit No. | Time Up Ramp Sec |
|----------------|--------------------|----------------------|-------|-----------|------------------|
| | | Master | Slave | | |
| 11 | 2 | 4.86 | 4.925 | 71 | 1075 |
| 11 | 2 | 4.568 | 4.633 | 87 | 1150 |
| 11 | 2 | 4.34 | 4.40 | 103 | 1200 |
| 11 | 2 | 4.12 | 4.18 | 119 | 1290 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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SYSTEM NO. V-7
VEHICLE NO. 1609
MISSION NO. 1007-E
CAMERA NOS. 144 & 145

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PRELIMINARY CLOCK CORRELATION:

| ORBIT | SYSTEM TIME | CLOCK TIME | DIFFERENCE |
|------------|------------------|-------------------|-------------|
| <u>71</u> | <u>37979.04</u> | <u>174776.894</u> | <u>.021</u> |
| <u>79</u> | <u>83266.725</u> | <u>220064.556</u> | <u>.023</u> |
| <u>87</u> | <u>38852.815</u> | <u>262050.619</u> | <u>.027</u> |
| <u>94</u> | <u>78570.572</u> | <u>301768.355</u> | <u>.021</u> |
| <u>103</u> | <u>39701.619</u> | <u>349299.384</u> | <u>.018</u> |
| <u>110</u> | <u>79506.735</u> | <u>389104.469</u> | <u>.031</u> |
| <u>119</u> | <u>40427.520</u> | <u>436425.246</u> | <u>.008</u> |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

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SYSTEM NUMBER J-07
 VEHICLE NUMBER 1609
 MISSION NUMBER 1007
 PANORAMIC CAMERA NUMBERS 144 AND 145
 STELLAR/INDEX CAMERA NUMBER D54/56/51

PERFORMANCE ESTIMATE

| SUB | PROG | CAM NO. | PAN FR. | SI FR. | LAT. | | TIME ON | | TUR NO | OUR SEC. | | SOLAR ON OFF | | EXPOS. ON OFF | |
|----------|------|---------|---------|--------|------|-----|---------|------|--------|----------|----------|--------------|-----|---------------|-----|
| | | | | | ON | OFF | ZD | ST | | SEC. | SEC. | ON | OFF | ON | OFF |
| *57 | 2 1 | 144 | 5 | | | | | | | | | | | | |
| *57 | 2 1 | 145 | 5 | | | | | | | | | | | | |
| CUT-WRAP | 144 | 5 | 0 | | | | | | | | | | | | |
| CUT-WRAP | 145 | 4 | | | | | | | | | | | | | |
| 65 | 4 0 | 144 | 17 | 03 | 222 | 219 | 24 | 7044 | 11 2 | 2770 | 38 | 50 | 49 | 4.0 | 4.0 |
| 65 | 4 0 | 145 | 16 | | 223 | 220 | 24 | 7044 | 11 2 | 2770 | 38 | 50 | 49 | 3.4 | 3.4 |
| 68 | 2 1 | 144 | 49 | 07 | 255 | 247 | 242 | 2924 | 11 2 | 2312 | 113 | 47 | 50 | 3.9 | 3.9 |
| 68 | 2 1 | 145 | 49 | | 256 | 248 | 242 | 2924 | 11 2 | 2312 | 113 | 46 | 49 | 3.1 | 3.1 |
| 69 | 3 1 | 144 | 43 | 06 | 255 | 248 | 242 | 8379 | 11 2 | 2316 | 98 | 47 | 49 | 3.9 | 3.9 |
| 69 | 3 1 | 145 | 42 | | 256 | 249 | 242 | 8379 | 11 2 | 2316 | 98 | 46 | 49 | 3.2 | 3.2 |
| 69 | 3 2 | 144 | 48 | 07 | 239 | 231 | 242 | 8614 | 11 2 | 2550 | 113 | 51 | 51 | 3.9 | 4.0 |
| 69 | 3 2 | 145 | 47 | | 240 | 232 | 242 | 8614 | 11 2 | 2550 | 113 | 51 | 51 | 3.2 | 3.3 |
| 70 | 7 1 | 144 | 37 | 05 | 253 | 247 | 243 | 3864 | 11 2 | 2348 | 83 | 48 | 50 | 3.9 | 3.9 |
| 70 | 7 1 | 145 | 36 | | 254 | 248 | 243 | 3864 | 11 2 | 2348 | 83 | 47 | 49 | 3.1 | 3.1 |
| 70 | 7 2 | 144 | 78 | 11 | 241 | 228 | 243 | 4039 | 11 2 | 2524 | 185 | 51 | 51 | 3.9 | 4.1 |
| 70 | 7 2 | 145 | 78 | | 242 | 229 | 243 | 4039 | 11 2 | 2524 | 185 | 51 | 51 | 3.2 | 3.3 |
| 71 | 4 0 | 144 | 9 | 01 | 139 | 142 | 243 | 8020 | 11 2 | 1054 | 45-11 | -9 | 9.4 | 9.0 | |
| 71 | 4 0 | 145 | 9 | | 137 | 140 | 243 | 8020 | 11 2 | 1054 | 45-13-10 | | 7.5 | 7.2 | |
| 71 | 4 1 | 144 | 37 | 06 | 261 | 255 | 243 | 9200 | 11 2 | 2234 | 83 | 44 | 47 | 3.9 | 3.9 |
| 71 | 4 1 | 145 | 36 | | 262 | 256 | 243 | 9200 | 11 2 | 2234 | 83 | 44 | 46 | 3.2 | 3.1 |
| 71 | 4 2 | 144 | 43 | 06 | 252 | 245 | 243 | 9334 | 11 2 | 2367 | 97 | 48 | 50 | 3.9 | 3.9 |
| 71 | 4 2 | 145 | 43 | | 253 | 246 | 243 | 9334 | 11 2 | 2367 | 97 | 48 | 50 | 3.1 | 3.1 |
| 72 | 8 1 | 144 | 124 | 18 | 262 | 242 | 244 | 4644 | 11 2 | 2227 | 288 | 44 | 51 | 3.9 | 3.9 |
| 72 | 8 1 | 145 | 123 | | 263 | 243 | 244 | 4644 | 11 2 | 2227 | 288 | 43 | 51 | 3.2 | 3.1 |
| 73 | 2 1 | 144 | 49 | 07 | 256 | 248 | 245 | 0186 | 11 2 | 2316 | 113 | 46 | 49 | 3.9 | 3.9 |
| 73 | 2 1 | 145 | 48 | | 257 | 249 | 245 | 0186 | 11 2 | 2316 | 113 | 46 | 49 | 3.2 | 3.2 |
| 82 | 2 1 | 144 | 42 | 06 | 261 | 254 | 251 | 2799 | 11 2 | 2274 | 98 | 45 | 48 | 4.0 | 3.9 |
| 82 | 2 1 | 145 | 42 | | 261 | 255 | 251 | 2799 | 11 2 | 2274 | 98 | 44 | 48 | 3.2 | 3.2 |
| 83 | 2 1 | 144 | 36 | 05 | 252 | 246 | 251 | 8386 | 11 2 | 2411 | 82 | 49 | 51 | 3.9 | 4.0 |
| 83 | 2 1 | 145 | 35 | | 252 | 247 | 251 | 8386 | 11 2 | 2411 | 82 | 49 | 51 | 3.2 | 3.2 |
| 85 | 2 1 | 144 | 36 | 05 | 258 | 253 | 252 | 9194 | 11 2 | 2315 | 83 | 46 | 49 | 3.9 | 3.9 |
| 85 | 2 1 | 145 | 35 | | 259 | 254 | 252 | 9194 | 11 2 | 2315 | 83 | 46 | 48 | 3.2 | 3.2 |
| 85 | 2 2 | 144 | 48 | 07 | 244 | 237 | 252 | 9399 | 11 2 | 2520 | 112 | 51 | 53 | 3.9 | 4.0 |
| 85 | 2 2 | 145 | 47 | | 245 | 238 | 252 | 9399 | 11 2 | 2520 | 112 | 51 | 53 | 3.2 | 3.3 |
| 86 | 9 1 | 144 | 157 | 22 | 259 | 234 | 253 | 4646 | 11 2 | 2318 | 362 | 46 | 53 | 3.8 | 4.0 |
| 86 | 9 1 | 145 | 156 | | 259 | 235 | 253 | 4646 | 11 2 | 2318 | 362 | 46 | 53 | 3.1 | 3.2 |
| 87 | 3 0 | 144 | 10 | 02 | 140 | 142 | 253 | 8892 | 11 2 | 1115 | 45-12-10 | | 8.4 | 8.1 | |
| 87 | 3 0 | 145 | 10 | | 138 | 141 | 253 | 8892 | 11 2 | 1115 | 45-13-11 | | 6.7 | 6.4 | |
| 87 | 3 1 | 144 | 49 | 07 | 261 | 253 | 254 | 0070 | 11 2 | 2292 | 115 | 45 | 49 | 4.0 | 4.0 |
| 87 | 3 1 | 145 | 49 | | 261 | 254 | 254 | 0070 | 11 2 | 2292 | 115 | 44 | 48 | 3.2 | 3.2 |
| 88 | 3 1 | 144 | 55 | 07 | 256 | 247 | 254 | 5598 | 11 2 | 2319 | 128 | 47 | 51 | 3.9 | 3.9 |
| 88 | 3 1 | 145 | 55 | | 256 | 248 | 254 | 5598 | 11 2 | 2319 | 128 | 47 | 50 | 3.1 | 3.1 |
| 98 | 4 1 | 144 | 68 | 10 | 261 | 250 | 261 | 3653 | 11 2 | 2332 | 157 | 45 | 50 | 3.9 | 3.9 |
| 98 | 4 1 | 145 | 68 | | 262 | 251 | 261 | 3653 | 11 2 | 2332 | 157 | 45 | 50 | 3.1 | 3.1 |

| | | | | | | | | | | | | | | | | |
|-----|----|---|-----|-----|----|-----|-----|---------|----|---|------|----------|----|----|-----|-----|
| 99 | 4 | 1 | 144 | 80 | 12 | 253 | 240 | 2619224 | 11 | 2 | 2453 | 186 | 49 | 53 | 3.9 | 4.0 |
| 99 | 4 | 1 | 145 | 79 | | 254 | 241 | 2619224 | 11 | 2 | 2453 | 186 | 49 | 53 | 3.1 | 3.2 |
| 100 | 9 | 1 | 145 | 210 | | 255 | 220 | 2619224 | 11 | 2 | 2443 | 507 | 48 | 52 | 3.1 | 3.5 |
| 101 | 9 | 1 | 144 | 37 | 05 | 259 | 253 | 2630041 | 11 | 2 | 2374 | 83 | 46 | 49 | 3.8 | 3.8 |
| 101 | 9 | 2 | 144 | 151 | 21 | 250 | 225 | 2630173 | 11 | 2 | 2506 | 362 | 51 | 54 | 3.9 | 4.3 |
| 102 | 1 | 1 | 144 | 302 | 44 | 282 | 235 | 2635140 | 11 | 2 | 2024 | 700 | 30 | 54 | 4.0 | 4.0 |
| 102 | 1 | 1 | 145 | 300 | | 283 | 236 | 2635140 | 11 | 2 | 2024 | 700 | 30 | 54 | 3.3 | 3.2 |
| 103 | 1 | 0 | 144 | 10 | 01 | 139 | 142 | 2639741 | 11 | 2 | 1176 | 45-13-11 | | | 8.4 | 8.0 |
| 103 | 1 | 0 | 145 | 10 | | 137 | 140 | 2639741 | 11 | 2 | 1176 | 45-15-12 | | | 6.7 | 6.4 |
| 103 | 1 | 1 | 144 | 223 | 32 | 272 | 237 | 2640753 | 11 | 2 | 2188 | 512 | 38 | 54 | 3.9 | 4.0 |
| 103 | 1 | 1 | 145 | 222 | | 273 | 238 | 2640753 | 11 | 2 | 2188 | 512 | 38 | 54 | 3.1 | 3.2 |
| 104 | 4 | 1 | 144 | 81 | 11 | 259 | 246 | 2646398 | 11 | 2 | 2333 | 186 | 46 | 52 | 3.9 | 3.9 |
| 104 | 4 | 1 | 145 | 79 | | 260 | 247 | 2646398 | 11 | 2 | 2333 | 186 | 46 | 52 | 3.2 | 3.2 |
| 115 | 10 | 1 | 144 | 57 | 09 | 278 | 270 | 2719677 | 11 | 2 | 2135 | 133 | 34 | 40 | 4.0 | 3.9 |
| 115 | 10 | 1 | 145 | 57 | | 279 | 270 | 2719677 | 11 | 2 | 2135 | 133 | 33 | 40 | 3.2 | 3.1 |
| 115 | 10 | 2 | 144 | 135 | 19 | 260 | 239 | 2719949 | 11 | 2 | 2407 | 319 | 46 | 55 | 3.9 | 4.1 |
| 115 | 10 | 2 | 145 | 134 | | 261 | 239 | 2719949 | 11 | 2 | 2407 | 319 | 46 | 55 | 3.1 | 3.3 |
| 116 | 9 | 1 | 144 | 36 | 05 | 255 | 249 | 2725477 | 11 | 2 | 2490 | 83 | 49 | 52 | 3.9 | 3.9 |
| 116 | 9 | 1 | 145 | 36 | | 256 | 250 | 2725477 | 11 | 2 | 2490 | 83 | 49 | 51 | 3.1 | 3.2 |
| 116 | 9 | 2 | 144 | 158 | 23 | 244 | 216 | 2725638 | 11 | 2 | 2650 | 406 | 54 | 53 | 4.0 | 4.8 |
| 116 | 9 | 2 | 145 | 157 | | 245 | 217 | 2725638 | 11 | 2 | 2650 | 406 | 53 | 53 | 3.2 | 3.8 |
| 117 | 8 | 1 | 144 | 43 | 06 | 259 | 253 | 2730869 | 11 | 2 | 2431 | 98 | 47 | 50 | 3.9 | 3.9 |
| 117 | 8 | 1 | 145 | 43 | | 260 | 253 | 2730869 | 11 | 2 | 2431 | 98 | 46 | 50 | 3.1 | 3.1 |
| 117 | 8 | 2 | 144 | 146 | 21 | 250 | 225 | 2731003 | 11 | 2 | 2564 | 361 | 51 | 55 | 3.9 | 4.4 |
| 117 | 8 | 2 | 145 | 145 | | 251 | 226 | 2731003 | 11 | 2 | 2564 | 361 | 51 | 55 | 3.2 | 3.6 |
| 118 | 1 | 1 | 144 | 313 | 44 | 282 | 233 | 2735967 | 11 | 2 | 2082 | 730 | 30 | 56 | 4.0 | 4.1 |
| 118 | 1 | 1 | 145 | 311 | | 283 | 234 | 2735967 | 11 | 2 | 2082 | 730 | 30 | 56 | 3.2 | 3.3 |
| 119 | 1 | 0 | 144 | 11 | 02 | 139 | 142 | 2740568 | 11 | 2 | 1236 | 45-14-12 | | | 7.6 | 7.3 |
| 119 | 1 | 0 | 145 | 10 | | 137 | 140 | 2740568 | 11 | 2 | 1236 | 45-16-13 | | | 6.6 | 6.4 |
| 119 | 1 | 1 | 144 | 232 | 33 | 273 | 237 | 2741561 | 11 | 2 | 2229 | 543 | 38 | 55 | 3.9 | 4.1 |
| 119 | 1 | 1 | 145 | 232 | | 274 | 237 | 2741561 | 11 | 2 | 2229 | 543 | 37 | 55 | 3.1 | 3.3 |
| 120 | 1 | 1 | 144 | 112 | 16 | 256 | 239 | 2747264 | 11 | 2 | 2485 | 261 | 48 | 55 | 3.8 | 4.0 |
| 120 | 1 | 1 | 145 | 110 | | 257 | 239 | 2747264 | 11 | 2 | 2485 | 261 | 48 | 55 | 3.1 | 3.3 |

AAA BB C DDD EEE FF GHH GII JJKKKKK LL M NNNN OOO PP QQ RRR SSS

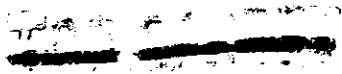
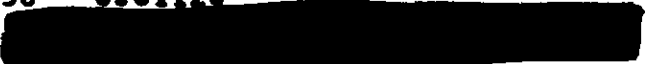
- A ORBITAL TIMER SUBCYCLE NUMBER
- B PROGRAM NUMBER
- C OPERATION NUMBER
- D PAN. CAMERA SERIAL NUMBER (MASTER IS EVEN, SLAVE IS ODD)
- E EST. NO OF PAN FRAMES, BASED ON COUNTER READINGS INFLITE
- F EST. NUMBER OF STELLAR/INDEX FRAMES
- G QUADRANT
- H EST. LATITUDE OF FIRST FORMAT CENTER IN PASS
- I EST. LATITUDE OF LAST FORMAT CENTER IN PASS
- J ZULU DATE
- K SYSTEM TIME IN SECONDS (GMT)
- L FMC PROGRAMMER REFERENCE LEVEL
- M FMC PROGRAMMER AMPLITUDE LEVEL
- N EST. TIME UP RAMP IN SECONDS TO OPERATE COMMAND
- O EST. SECONDS DURATION OF OPERATION, BETWEEN ON AND OFF
- P SOLAR ELEVATION AT ITEM H
- Q SOLAR ELEVATION AT ITEM I

R EST. MILLISECONDS EXPOSURE TIME AT ITEM A
S EST. MILLISECONDS EXPOSURE TIME AT ITEM I

FRAMES TO FEET, PAN X 2.645 STELLAR X 0.099, INDEX X 0.198

* NOTE-THE LAST FIVE FRAMES OF THE A MISSION IN THE B BUCKET

| J- 7 | RAMP | R-11 A- 2 | |
|------|--------|-----------|-------------------|
| R= | 0.2641 | A= 0.1815 | RAMP PERIOD= 4800 |
| TIME | PERIOD | CPS | GAV |
| 0 | 12.107 | 0.0826 | 0.00747 |
| 100 | 11.935 | 0.0838 | 0.00758 |
| 200 | 11.449 | 0.0873 | 0.00790 |
| 300 | 10.728 | 0.0932 | 0.00843 |
| 400 | 9.870 | 0.1013 | 0.00916 |
| 500 | 8.964 | 0.1116 | 0.01009 |
| 600 | 8.078 | 0.1238 | 0.01120 |
| 700 | 7.253 | 0.1379 | 0.01247 |
| 800 | 6.510 | 0.1536 | 0.01389 |
| 900 | 5.855 | 0.1708 | 0.01545 |
| 1000 | 5.286 | 0.1892 | 0.01711 |
| 1100 | 4.794 | 0.2086 | 0.01886 |
| 1200 | 4.373 | 0.2287 | 0.02068 |
| 1300 | 4.012 | 0.2493 | 0.02255 |
| 1400 | 3.676 | 0.2720 | 0.02460 |
| 1500 | 3.339 | 0.2995 | 0.02709 |
| 1600 | 3.066 | 0.3262 | 0.02950 |
| 1700 | 2.846 | 0.3514 | 0.03178 |
| 1800 | 2.670 | 0.3746 | 0.03388 |
| 1900 | 2.530 | 0.3952 | 0.03574 |
| 2000 | 2.423 | 0.4128 | 0.03733 |
| 2100 | 2.343 | 0.4269 | 0.03861 |
| 2200 | 2.287 | 0.4372 | 0.03954 |
| 2300 | 2.255 | 0.4435 | 0.04011 |
| 2400 | 2.244 | 0.4456 | 0.04030 |
| 2500 | 2.255 | 0.4435 | 0.04011 |
| 2600 | 2.287 | 0.4372 | 0.03954 |
| 2700 | 2.343 | 0.4269 | 0.03861 |
| 2800 | 2.423 | 0.4128 | 0.03733 |
| 2900 | 2.530 | 0.3952 | 0.03574 |
| 3000 | 2.670 | 0.3746 | 0.03388 |
| 3100 | 2.846 | 0.3514 | 0.03178 |
| 3200 | 3.066 | 0.3262 | 0.02950 |
| 3300 | 3.339 | 0.2995 | 0.02709 |
| 3400 | 3.676 | 0.2720 | 0.02460 |
| 3500 | 4.012 | 0.2493 | 0.02255 |
| 3600 | 4.373 | 0.2287 | 0.02068 |
| 3700 | 4.794 | 0.2086 | 0.01886 |
| 3800 | 5.286 | 0.1892 | 0.01711 |
| 3900 | 5.855 | 0.1708 | 0.01545 |
| 4000 | 6.510 | 0.1536 | 0.01389 |
| 4100 | 7.253 | 0.1379 | 0.01247 |
| 4200 | 8.078 | 0.1238 | 0.01120 |



| | | | |
|------|--------|--------|---------|
| 4300 | 8.964 | 0.1118 | 0.01009 |
| 4400 | 9.870 | 0.1013 | 0.00916 |
| 4500 | 10.728 | 0.0932 | 0.00843 |
| 4600 | 11.449 | 0.0873 | 0.00790 |
| 4700 | 11.935 | 0.0838 | 0.00758 |
| 4800 | 12.107 | 0.0826 | 0.00747 |

PRELIMINARY CLOCK CORRELATION

| ORBIT | SYSTEM TIME | CLOCK TIME | DELTA SYS. TIME | DELTA CLK. TIME | ERROR |
|-------|-------------|------------|-----------------|-----------------|-------|
| 71 | 37979.040 | 174776.894 | 41976.020 | 41975.999 | .021 |
| 79 | 83266.725 | 220064.556 | 45287.685 | 45287.662 | .023 |
| 87 | 38852.815 | 262050.619 | 41986.090 | 41986.063 | .027 |
| 94 | 78570.572 | 301768.355 | 39717.757 | 39717.736 | .021 |
| 103 | 39701.619 | 349299.384 | 47531.047 | 47531.029 | .018 |
| 110 | 79506.735 | 389104.469 | 39805.116 | 39805.085 | .031 |
| 119 | 40427.520 | 436425.246 | 47320.785 | 47320.777 | .008 |