

HFUS 3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 184

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 03 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100
TO 03/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. ONLY XRAY
CLASS C FLARES OCCURRED. THE LARGEST WAS A C6 FROM N08 ON THE
WEST LIMB WHERE REGION 4222 HAD ROTATED OFF OF THE DISK. MOST
OF THE FLARES DURING THIS PERIOD CAME FROM REGION 4235
(S20E50). THIS REGION HAS HAD SIGNIFICANT GROWTH IN WHITE
LIGHT AND HAS INCREASED IN MAGNETIC COMPLEXITY. MAGNETICALLY
IT IS NOW A BETA-GAMMA-DELTA GROUP. REGION 4227 HAS CONTINUED
TO DECREASE IN WHITE LIGHT AREA AND MAGNETIC COMPLEXITY. IT IS
NOW A BETA-GAMMA GROUP. ONE NEW REGION, 4236 (S12E70) WAS
NUMBERED TODAY. THIS REGION WAS PREVIOUSLY INCLUDED IN REGION
4234 (S10E60). IT WAS SEPARATED WHEN MAGNETIC ANALYSIS
INDICATED TWO GROUPS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN LOW. REGION 4235, HOWEVER, HAS THE POTENTIAL TO PRODUCE
ISOLATED M CLASS EVENTS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE UNSETTLED TO ACTIVE ON THE 4TH AND THEN BECOME
ACTIVE FOR THE 5TH AND 6TH. THE EXPECTED INCREASE IN ACTIVITY
IS DUE TO A CORONAL HOLE THAT PASSED CENTRAL MERIDIAN
YESTERDAY.

III. EVENT PROBABILITIES 04 JUL-06 JUL

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|---------|----------|
| CLASS M | 35/35/35 |
| CLASS X | 05/05/05 |
| PROTON | 01/01/01 |
| PCAF | GREEN |

IV. OTTAWA 10.7 CM FLUX

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|-------------|---------------|-------------|
| OBSERVED | 03 JUL | 127 |
| PREDICTED | 04 JUL-06 JUL | 133/140/150 |
| 90 DAY MEAN | 03 JUL | 133 |

V. GEOMAGNETIC A INDICES

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|-----------|--------|---------------|-------------------------|
| OBSERVED | AFR/AP | 02 JUL | 008/011 |
| ESTIMATED | AFR/AP | 03 JUL | 008/010 |
| PREDICTED | AFR/AP | 04 JUL-06 JUL | 010/015-015/020-015/020 |

SOLTERWARN

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