

HFUS 3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 065

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 MAR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/2100 TO 05/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. EVENTS HAVE BEEN LIMITED TO MINOR RADIO BURSTS AND ONE OPTICAL SUBFLARE. REGION 4423 (S12W85) REMAINS THE LARGEST SPOT GROUP, AS IT ROTATES OFF THE DISK. REGION 4429 (S13E56) SHOWS SIGNS OF GROWTH BUT REMAINS A C TYPE SPOT GROUP. ONE NEW REGION WAS NUMBERED THIS PERIOD, 4431 (S10E47), A B TYPE SPOT GROUP. ALL OTHER REGIONS APPEAR STABLE AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW THROUGHOUT THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 04/2100Z TO 05/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED AT ALL LATITUDES THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE ACTIVE AT ALL LATITUDES THE FIRST TWO DAYS OF THE FORECAST PERIOD. THE FINAL DAY, LEVELS SHOULD RECEDE TO UNSETTLED CONDITIONS AT MIDLATITUDES AND ACTIVE LEVELS AT HIGH LATITUDES. ANY INCREASED LEVELS OF GEOMAGNETIC ACTIVITY CAN BE ATTRIBUTED TO THE IMPACT OF CORONAL HOLE STREAMS AND POSSIBLE RESIDUAL EFFECTS THAT REMAIN FROM THE FLARE WHICH PRODUCED A PROTON EVENT ON THE 16TH OF FEBRUARY. THIS FLARE MOST LIKELY WAS PRODUCED IN OLD REGION 4408, WHICH WAS BEHIND THE WEST LIMB AT THE TIME.

III. EVENT PROBABILITIES 06 MAR-08 MAR

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 MAR 110

PREDICTED 06 MAR-08 MAR 107/105/105

90 DAY MEAN 05 MAR 118

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 MAR 008/011

ESTIMATED AFR/AP 05 MAR 005/010

PREDICTED AFR/AP 06 MAR-08 MAR 015/020-015/040-010/020

SOLTERWARN

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