

FUS 3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 123

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100 TO 03/2100Z: SOLAR ACTIVITY HAS BEEN LOW; HOWEVER, THE POTENTIAL FOR ENERGETIC ACTIVITY REMAINS. REGION 4157 (S03W54) RETAINS ITS SMALL DELTA CONFIGURATION AND THE PENUMBRA CONTAINING THIS DELTA HAS GROWN AND BECOME MORE SOLIDIFIED. REGION 4162 (S15W57) IS STILL THE LARGEST REGION ON THE DISK BUT IS NOW IN A DECAY PHASE. REGION 4154 (S15W70) IS ALSO DECAYING AS IS REGION 4165 (S09E16). IN SPITE OF THIS DECAY, THESE REGIONS CONTINUE TO DISPLAY POINT BRIGHTENINGS AND/OR FLUCTUATIONS ALONG WITH OCCASIONAL C-CLASS FLARES. THE LARGEST FLARE SO FAR THIS ZULU DAY WAS A C-4/SN FROM REGION 4154 AT 030010Z.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO MODERATE DURING THE COMING 24 HOURS. REGION 4157 APPEARS TO BE A PRIME CANDIDATE FOR ISOLATED M CLASS FLARES.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO SLIGHTLY ACTIVE DURING THE PREVIOUS 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: A CORONAL HOLE IS NOW FAVORABLY LOCATED FOR INFLUENCING THE GEOMAGNETIC FIELD AND ACTIVE TO MINOR STORM CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 04 MAY-06 MAY

CLASS M 60/60/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 MAY 137

PREDICTED 04 MAY-06 MAY 131/126/120

90 DAY MEAN 03 MAY 120

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 MAY 012/015

ESTIMATED AFR/AP 03 MAY 012/015

PREDICTED AFR/AP 04 MAY-06 MAY 020/030-028/030-025/025

SOLTERWARN

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