

FUS 3 BOU 232200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 143
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 23 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100 TO 23/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW. ONLY LOW LEVEL CLASS C X-RAY BURSTS HAVE OCCURRED WITH SUBFLARES IN REGIONS 4174 (N10W78), 4183 (N18W01), AND 4187 (S17E39). GENERAL SPOT DECAY IN THE CENTRAL AND TRAILER PORTIONS OF REGION 4183 CONTINUES; THE REGION NOW HAS A BETA-GAMMA CONFIGURATION. REGION 4187 CONTINUES TO GROW BUT CURRENTLY IS A SIMPLE BIPOLE. FOUR NEW REGIONS, ALL SMALL AND SIMPLE, WERE ADDED TODAY. THEY ARE: 4188 (S05W52), 4189 (N15E51), 4190 (S13W22), AND 4191 (N12E72).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. THERE IS A SLIGHT CHANCE FOR AN ENERGETIC FLARE, PRIMARILY FROM REGION 4183.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE TO STORM LEVEL DURING THE PAST 24 HOURS IN RESPONSE TO AN EQUATORIAL CORONAL HOLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO BE ACTIVE TO UNSETTLED DURING THE NEXT 48 HOURS AND THEN BECOME ACTIVE ON 26 MAY IN RESPONSE TO A NORTHERN HEMISPHERIC CORONAL HOLE.

III. EVENT PROBABILITIES 24 MAY-26 MAY

CLASS M	30/25/20
CLASS X	05/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	23 MAY	140
PREDICTED	24 MAY-26 MAY	138/137/134
90 DAY MEAN	23 MAY	125

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP	22 MAY	036/046
ESTIMATED AFR/AP	23 MAY	030/044
PREDICTED AFR/AP	24 MAY-26 MAY	016/025-012/020-018/030

SOLTERWARN

BT.