

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

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