

FUS 3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 147

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100 TO 27/2100Z: SOLAR ACTIVITY REMAINS LOW WITH ONLY OCCASIONAL LOW LEVEL CLASS C FLARES. THE ONLY SIGNIFICANT SOLAR CHANGES ARE THE CONTINUED SLOW DECAY IN REGION 4187 (S17W14) AND GROWTH IN REGION 4193 (S08W29). REGIONS 4198 (S05W17) AND 4199 (S10E53) WERE ADDED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW UNTIL THE RETURN OF OLD REGION 4173 ON THE LATTER HALF OF 29 MAY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO OCCASIONALLY ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO BE UNSETTLED, BUT WITH SHORT ACTIVE PERIODS, THROUGH THE FIRST HALF OF 30 MAY. THE FIELD IS THEN EXPECTED TO BECOME FULLY ACTIVE IN RESPONSE TO AN EQUATORIAL CORONAL HOLE, WHICH HAS BEEN A FIXED SOLAR ENTITY FOR SIX ROTATIONS.

III. EVENT PROBABILITIES 28 MAY-30 MAY

CLASS M 05/10/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 MAY 127

PREDICTED 28 MAY-30 MAY 123/120/119

90 DAY MEAN 27 MAY 125

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 MAY 010/013

ESTIMATED AFR/AP 27 MAY 015/020

PREDICTED AFR/AP 28 MAY-30 MAY 012/015-012/015-015/020

SOLTERWARN

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