

FUS 3 BOU 312200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 151

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 31 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100 TO 31/2100Z: SOLAR ACTIVITY WAS LOW TO MODERATE DURING THE PAST 24 HOURS. REGION 4201 (S11E52) APPARENTLY LOST LITTLE IF ANY OF ITS ENERGY WHILE ON THE BACKSIDE. IT HAS PRODUCED SEVERAL FLARES TODAY INCLUDING AN M1/SN AT 311503Z (MAX). REGION 4201 IS A BETA GAMMA DELTA MAGNETICALLY; HAS FREQUENT POINT BRIGHTENINGS AND ACTIVE FILAMENTS. REGION 4187 (S18W71) REMAINS FAIRLY COMPLEX BUT HAS ONLY MANAGED TO PRODUCE ONE SUBFLARE SO FAR TODAY. IT TOO HAS AN ACTIVE FILAMENT ALTHOUGH IT NOW SHOWS SOME SIGNS OF SPOT DECAY. THE OTHER DISK REGIONS ARE SHOWING LITTLE OR NO CHANGE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE MODERATE DURING THE NEXT 72 HOURS OR SO. REGION 4201 APPEARS CAPABLE OF SUSTAINED ENERGETIC ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 31/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE AS IT RESPONDED TO THE CORONAL HOLE IMPACT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GENERALLY ACTIVE CONDITIONS CAN BE EXPECTED FOR THE NEXT FEW DAYS AS THE CORONAL HOLE CONTINUES TO INFLUENCE THE FIELD.

III. EVENT PROBABILITIES 01 JUN-03 JUN

CLASS M 75/75/75

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 MAY 134

PREDICTED 01 JUN-03 JUN 135/136/138

90 DAY MEAN 31 MAY 125

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 MAY 009/010

ESTIMATED AFR/AP 31 MAY 018/020

PREDICTED AFR/AP 01 JUN-03 JUN 020/020-015/015-015/015

SOLTERWARN

BT