

HFUS 3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 276

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 OCT 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100 TO 03/2100Z: SOLAR ACTIVITY HAS BEEN LOW. NEW DEVELOPING REGION 4330 (N13E02) CONTINUES ITS SLOW GROWTH AND MAY NOW BE A D TYPE SPOT GROUP. THREE OF THE FOUR SUBFLARES OBSERVED TODAY WERE PRODUCED BY 4330. REGION 4324 (S20W72) IS BEGINNING TO SHOW THE EFFECTS OF LIMB SHORTENING ALTHOUGH REAL DECAY IS ALSO OCCURRING. REGION 4328 (N07E62) APPEARS TO BE BASICALLY A BETA GAMMA GROUP BUT IS QUITE LARGE AND MAY REVEAL ITSELF TO BE MUCH MORE COMPLEX AS IT ROTATES FURTHER ONTO THE DISK. REGION 4329 (N20E57) REMAINS A SIMPLE BETA GROUP OF CLASS C DESIGNATION. ANOTHER H TYPE SPOT IS LOCATED AT N13E82 AND IS NUMBERED 4331.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO INCREASE SLIGHTLY AS ISOLATED M LEVEL ACTIVITY FROM REGION 4328 IS BECOMING MORE LIKELY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: THE GEOMAGNETIC FIELD AGAIN REACHED MINOR STORM LEVELS IN NIGHTTIME SECTORS AS THE CORONAL HOLE CONTINUED TO SHOW ITS INFLUENCE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: UNSETTLED TO ACTIVE CONDITIONS SHOULD RETURN ON 4 OCT AS THE CORONAL HOLE ROTATES AWAY FROM FAVORABLE SUN/EARTH CONNECTION LOCATION.

III. EVENT PROBABILITIES 04 OCT-06 OCT

CLASS M 20/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 OCT 123

PREDICTED 04 OCT-06 OCT 125/125/120

90 DAY MEAN 03 OCT 120

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 OCT 018/028

ESTIMATED AFR/AP 03 OCT 016/022

PREDICTED AFR/AP 04 OCT-06 OCT 013/015-010/015-012/015

SOLTERWARN

BT