

WFUS 1 80U 312200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 304

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 31 OCT 1978

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. LOW CLASS C X-RAY EVENTS WERE OBSERVED EARLY IN THE PERIOD, BUT COULD NOT BE CORRELATED OPTICALLY DUE TO WEATHER AT SEVERAL OBSERVATORIES. DURING THE PERIODS WHEN THE SUN WAS VISIBLE, NO FLARES WERE OBSERVED. TWO NEW REGIONS, 1377 (N36W22) AND 1378 (N05E40) ARE SIMPLE B AND A TYPES AND STABLE. REGION 1366 (S17W35) HAS SLOWLY DECAYED TO AN HXX LOSING ITS DISTANT TRAILER AND THUS ACCOUNTING FOR THE SHIFT IN POSITION.

IB. SOLAR ACTIVITY WILL BE LOW DURING THE FORECAST PERIOD. REGIONS 1365/1370 AND 1374 COULD PRODUCE AN ISOLATED ENERGETIC EVENT. RETURNING REGIONS 1340 AND 1346 ARE DUE BACK 3 NOV AND PRODUCED 16 AND 20 FLARES RESPECTIVELY.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED THROUGH THE LAST 24 HOURS WITH BRIEF PERIODS AT ACTIVE LEVELS. THIS CONDITION IS EXPECTED TO PERSIST THROUGH THE NEXT 24 HOURS WITH THE FIELD GRADUALLY DIMINISHING BY THE 2ND OF NOVEMBER.

III. EVENT PROBABILITIES 01 NOV - 03 NOV

CLASS M 20/20/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 OCTOBER 146

PREDICTED 01 NOV - 03 NOV 145/145/147

90-DAY MEAN 31 OCTOBER 145

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 OCT 18

ESTIMATED AFR/AP 31 OCT 16/28

PREDICTED AFR/AP 01 NOV - 03 NOV 14/18 - 12/12 - 06/08

SOLTERWARN

BT

HFUS 1 BOU 3 122 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 304

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 31 OCT 1979

IA. THRU THE PAST 24 HOURS SOLAR ACTIVITY WAS AT A LOW LEVEL. THE LARGEST EVENT OF THE PERIOD WAS A C 6/IN OUT OF REGION 2090 (N14E43) AT 0334Z. SOME DEVELOPMENT HAS BEEN REPORTED IN THIS REGION, HOWEVER, GROWTH HAS BEEN SLOW. MINOR CHANGES HAVE ALSO BEEN NOTED IN THE AREA OF 2082 (N15W68) AND A NEW REGION, 2095 (N14W60) IS GROWING SLOWLY SOUTH OF 2082. THE LARGEST AND MOST IMPRESSIVE REGION IS 2084 (N18E19). PLAGE IS BRIGHT IN THE MIDDLE SECTION OF THE REGION AND MAGNETICALLY THIS AREA IS BECOMING COMPLEX. A WEAK DELTA MAY EXIST IN THE PENUMBRA JUST EAST OF THE LEADER. REGION 2096 (N14E31) HAS EMERGED SE OF 2084. A SMALL H-TYPE SPOT 2097 (N15E73) HAS ROTATED ON TO THE DISK. THE LIMB APPEARS QUIET.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH A POSSIBILITY OF ISOLATED CLASS M EVENTS. THE MOST LIKELY SOURCE OF THESE AT THE PRESENT TIME IS REGIONS 2084 AND 2090 AND TO A LESSER EXTENT THE AREA AROUND 2082. NO SIGNIFICANT REGIONS ARE DUE TO RETURN ON THE EAST LIMB FOR THE NEXT FEW DAYS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 24 HOURS. QUIET CONDITIONS ARE EXPECTED TO CONTINUE FOR THE NEXT 24 HOURS. THE PASSAGE OF A SOLAR SECTOR BOUNDARY LATE ON 1 NOV SHOULD RESULT IN ACTIVE CONDITIONS FOR 02 NOV.

III. EVENT PROBABILITIES 01-03 NOV

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 OCT 220

PREDICTED 01-03 NOV 220/222/222

90-DAY MEAN 31 OCT 200

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 OCT 03

ESTIMATED AFR/AP 31 OCT 03/06

PREDICTED AFR/AP 01-03 NOV 05/10 25/25 10/15

SOLTERWARN

BT