

HFUS 1 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 277

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 04 OCTOBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE FOR THE PAST 24 HOURS. REGION 1320 (S12E07) PRODUCED SEVERAL C-CLASS X-RAY FLARES AND REGION 1327 (N28E19) PRODUCED TWO SMALLER FLARES. REGION 1320 SIMPLIFIED SOMEWHAT BY THE END OF THE PERIOD BUT IS STILL MAGNETICALLY COMPLEX WITH AN ACTIVE DARK FILAMENT IN THE CENTRAL PORTION. FIVE NEW REGIONS HAVE EMERGED - 1328 (N42W30), 1329 (N30W05), 1330 (N31E05), 1331 (N17E27), AND 1332 (S22E47). REGIONS 1314 (S18W66) AND 1326 (S17W26) SIMPLIFIED. ALL OTHER REGIONS REMAINED FAIRLY STABLE. LARGE SURGES WERE SEEN ON THE SE LIMB (S20) NEAR 1540 U.T. AND 2145 U.T.

IB. SOLAR ACTIVITY WILL BE LOW TO MODERATE DURING THE NEXT 24 HOURS. THE PROBABILITY OF C-CLASS X-RAY FLARES FROM REGION 1320 REMAINS HIGH AND THE REGION COULD PRODUCE LARGER X-RAY CLASS FLARES. REGION 1329 IS THE MOST COMPLEX OF THE NEW REGIONS, AND MAY PRODUCE MEASURABLE X-RAYS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE LAST 24 HOURS. CONDITIONS SHOULD REMAIN UNSETTLED BORDERING ON ACTIVE.

III. EVENT PROBABILITIES 05 OCTOBER - 07 OCTOBER

CLASS-M 30/30/30

CLASS X 05/05/05

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 OCTOBER 135

PREDICTED 05-07 OCTOBER 137/139/140

90-DAY MEAN 04 OCTOBER 136

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 03 OCTOBER 06

ESTIMATED AFR/AP 04 OCTOBER 13/18

PREDICTED AFR/AP 05-07 OCTOBER 15/18 - 15/16 - 10/10

SOLTERWARN

BT

SDF NUMBER 277

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 04 OCTOBER 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.
TWO M-CLASS X-RAY EVENTS WERE OBSERVED FROM REGION 2032 (N18E68).
AN M2/SB MAXIMUM 1428UT AND A M7/1B MAXIMUM 1604UT. THIS EVENT
HAD SHORT WAVE FADE TO 26 MHZ. REGION 2032 IS A E-TYPE GROUP WITH
A BETA-GAMMA-DELTA, THE DELTA BEING LOCATED IN THE SOUTH CENTRAL
PORTION OF THE REGION NEAR THE CENTER OF BOTH M-CLASS FLARE. REGION
2030 (N26E56) PRODUCED A M1/1N FLARE MAXIMUM 2113 U.T. AND A
C5/SN FLARE WITH MAXIMUM AT 1913UT.

SEVERALL C-CLASS X-RAY EVENTS HAVE ALSO OCCURRED THE LARGEST A C7
MAXIMUM 1123UT. NO OPTICAL. NEW REGIONS TODAY ARE 2033 (S32E74)
SIMPLE H-TYPE AND 2034 (N18W28) SIMPLE A-TYPE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST
PERIOD. REGION 2032 COULD PRODUCE AN ISOLATED X-CLASS X-RAY EVENT
IF GROWTH CONTINUES.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24
HOURS. THE FIELD SHOULD REMAIN UNSETTLED EXCEPT FOR A BRIEF ACTIVE
PERIOD AFTER 0300UT.

III. EVENT PROBABILITIES 05-07 OCT

CLASS M 85/85/85

CLASS X 25/25/25

PROTON 10/15/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 OCT 198

PREDICTED 05-07 OCT 197/200/203

90-DAY MEAN 04 OCT 180

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 03 OCT 12

ESTIMATED AFR/AP 04 OCT 14/14

PREDICTED AFR/AP 05-07 OCT 12/12 - 12/12 - 14/15

DLTERWARN