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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLORADO

SDE NUMBER 293-A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 19 OCTOBER 1980

I.A. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS.

TWO LOW LEVEL M-CLASS EVENTS WERE ASSOCIATED WITH REGION

2744 (S18E52), WHICH HAS EXPERIENCED CONSIDERABLE GROWTH

IN WHITE LIGHT AND H-ALPHA SINCE YESTERDAY. IT'S LARGE LEADER

SPOT IS DEFINATELY OF DELTA MAGNETIC CONFIGURATION AND THERE

IS PENUMBRAL MERGING. REGION 2725 (S10W77) HAS DECAYED AND

STABILIZED ALTHOUGH LIMB PROXIMITY MAKES ANALYSIS DIFFICULT.

REGION 2739 (S34E02) HAS SHOWN REMARKABLE GROWTH AND HAS

PRODUCED SEVERAL C-CLASS X-RAY FLARES WITH STRONG RADIO BURSTS

AT 245 MHZ. THREE NEW REGIONS HAVE BEEN NUMBERED. REGION

2748 (S14E61) IS A D-TYPE GROUP FOLLOWING AND SHARING A COMMON

NEUTRAL LINE WITH 2744. REGIONS 2749 (N20W01) AND 2750 (N24E04)

ARE EMERGING SPOT GROUPS EMBEDDED IN A LARGE DIFFUSE CENTRAL

PLAGE REGION.

I.B. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH BASED ON

THE FLARE POTENTIAL OF REGION 2744. HOWEVER, ISOLATED M-CLASS

ACTIVITY IS POSSIBLE FROM REGIONS 2725 AND 2739.

II. GEOMAGNETIC ACTIVITY HAS BEEN UNSETTLED FOR THE PAST 24

HOURS. LOW LEVELS OF ENERGETIC PORTIONS (APPROXIMATELY

5 P/CM²/SEC/STER AT GREATER THAN 10 MEV) ARE STILL BEING OBSERVED

AND A POLAR CAP ABSORPTION EVENT BEGAN GRADUALLY NEAR 0800UT

AND IS PRESENTLY AT .9 DB (NIGHTTIME). THE PCA IS EXPECTED TO

LAST FROM 12 TO 18 HOURS. IN THE ABSENCE OF MAJOR FLARES,

GEOMAGNETIC ACTIVITY WILL BE LOW UNSETTLED TO QUIET FOR THE

FORECAST PERIOD.

III. EVENT PROBABILITIES: 20 - 22 OCTOBER

CLASS M 75 / 75 / 75

CLASS X 15 / 15 / 15

PROMPT 05 / 05 / 10

PCAF IN PROGRESS

IV. OTTAWA 10.7 FLUX

OBSERVED 18 OCTOBER 202

ESTIMATED 19 OCTOBER 196

PREDICTED 20 - 22 OCTOBER 188/182/180

90 DAY MEAN 18 OCTOBER 185

V. GEOMAGNETIC INDICES

OBSERVED AFR 17 OCT 09 AP 18 OCT 21

ESTIMATED AFR 18 OCT 20 AFR/AP 19 OCT 10/18

PREDICTED AFR/AP 20 - 23 OCT 08/08 06/08

SOLTERWARM

BT

HFUS 1 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDE NUMBER 293B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 19 OCTOBER 1980

I. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 10 HOURS.
ONLY SMALL C-CLASS EVENTS HAVE BEEN REPORTED. REGIONS 2749
AND 2750 HAVE BEEN COMBINED INTO REGION 2749. TWO NEW
REGIONS NUMBERED TODAY ARE 2751 (N37E13) AND 2752 (N19E33)
BOTH SIMPLE B-TYPE.

II. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH
DURING THE NEXT 24 HOURS.

III. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETLED AND IS
EXPECTED TO BE UNSETLED TO QUIET DURING THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 20 OCTOBER - 22 OCTOBER

CLASS M 75/75/75

CLASS X 15/15/15

PREDICTED 05/05/10

PCPA IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 OCTOBER 2.04

PREDICTED 20-22 OCTOBER 2.02/19.6/19.5

90-DAY MEAN 19 OCTOBER 185

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 OCTOBER 17/21

ESTIMATED AFR/AP 19 OCTOBER 10/13

PREDICTED AFR/AP 20-22 OCTOBER 08/08 - 08/08 - 06/08

SOLTERWARN

BT RPT 1000Z

2
Not
on
region
next