

HFUS 1 BOU 220500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 234A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 22 AUGUST 1975

IA. SOLAR ACTIVITY HAS REMAINED MODERATE TO HIGH. PRIMARY ACTIVITY IS FROM REGION 626 (N28W83) WHICH PRODUCED A FLARE BORDERING ON IB. THE FLARE WAS ACCOMPANIED BY X-CLASS X-RAYS, A TYPE IV BURST, AND A 180 FLUX UNIT ENHANCEMENT OF THE 2800 MHZ FLUX. PROTON COUNTING RATES AT 6-38 MEV HAVE BEEN SLIGHTLY ENHANCED SINCE THE 21/1522Z EVENT. THE REMAINDER OF THE DISC REMAINS RELATIVELY QUIET.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE DURING THE FIRST HALF OF THE FORECAST PERIOD THEN BECOME QUIET AGAIN AS REGION 626 PASSES WEST LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED THE PAST 6 HOURS. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE EARLY PART OF THE FORECAST PERIOD FOLLOWED BY A DECREASE IN ACTIVITY DURING THE LATER PART OF THE PERIOD.

III. EVENT PROBABILITIES 22 AUG-24 AUG

CLASS M 70/70/20

CLASS X 25/25/10

PROTON 05/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 AUGUST 78

PREDICTED 22-24 AUGUST 78/77/76

90-DAY MEAN 21 AUGUST 79

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 AUGUST 10

ESTIMATED AFR/AP 21 AUGUST 17/23

PREDICTED AFR/AP 22-24 AUG 20/25 - 14/15 - 12/15

SOLTERWARN

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HFUS 1 BOU 221430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 234B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1430Z 22 AUGUST 1975

IA. SOLAR ACTIVITY HAS BEEN AT A HIGH LEVEL. REGION 626 (N28W88)
PRODUCED A CLASS M9 FLARE AT 220118Z AND A CLASS M5 FLARE AT
221235Z. REGIONS 628 (E02N07) AND 622 (W89S04) HAVE PRODUCED
NO IMPORTANT ACTIVITY.

IB. SOLAR ACTIVITY SHOULD REMAIN HIGH FOR THE NEXT 24 HOURS AS
REGION 626 COMPLETES WEST LIMB PASSAGE. ACTIVITY SHOULD DROP
OFF TO LOW LEVELS DURING THE FOLLOWING 48 HOURS.

II. GEOMAGNETIC ACTIVITY HAS BEEN UNSETTLED TO ACTIVE. IT IS ^{EXPECTED} TO
BE ACTIVE TODAY AND GENERALLY UNSETTLED DURING THE REST OF THE
PERIOD.

III. EVENT PROBABILITIES 22 - 24 AUG 1975

CLASS M 90/80/30

CLASS X 50/30/10

PROTON 50/40/05

PCAF (GREEN) *Yellow*

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 AUGUST 78

PREDICTED 22 - 24 AUG 78/77/76

90-DAY MEAN 21 AUG 79

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 AUG 10

ESTIMATED AFR/AP 21 AUG 17/23

PREDICTED AFR/AP 22 - 24 AUG 20/25 - 14/15 - 12/15

SOLTERWARN

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GEOALERT WWA 234 220300

91221 10401 20781 30220 41010

38204 02000 48028 03041 11007 00000

80622 77774 38204 ERUPTIVE 48028 ERUPTIVE

11007 QUIET

SOLALERT 22/23 MAGALERT 22/23

FIN

SOLTERWARN

HFUS 1 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 234

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 22 AUG 1975

IA. SOLAR ACTIVITY HAS DECLINED FROM A HIGH TO MODERATE LEVEL AS ACTIVE RGN 626 CROSSES THE WEST LIMB. THIS RGN HAS PRODUCED 5 CLASS M FLARES DURING THE PAST 24 HOURS: M9 (1B) AT 0119Z, M3 (SB) AT 0528Z, M4 (SB) AT 0606Z, M2 (SN) AT 1033Z AND A M4 (SB) AT 1236Z. NO PROTON EVENTS OF CONSEQUENCE ACCOMPANIED THESE FLARES AND THE PROBABILITY OF PROTONS IS NOW DIMINISHING AS FLARE INCIDENCE IS DECLINING WITH THE LAST ENERGETIC EVENT REPORTED BEING A C3 AT 1720Z. A NEW BIPOLE (RGN 629) HAS EMERGED AT N09W37 AND AT 2200Z CONTAINS A TYPE B SPOT GROUP.

IB. SOLAR ACTIVITY IS EXPECTED TO DECLINE FROM MODERATE TO LOW LEVELS DURING THE FORECAST PERIOD AS RGN 626 COMPLETES ITS LIMB TRANSIT.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE THE PAST 24 HOURS AS A RECURRENCE DISTURBANCE RETURNS. THE FIELD IS EXPECTED TO BE ACTIVE DECLINING TO UNSETTLED DURING THE FORECAST PERIOD.

DUE TO THE DECLINE IN FLARE INCIDENCE AND THE WEST LIMB TRANSIT OF RGN 626 THE PROBABILITY OF A PROTON EVENT IS NOW DIMINISHED.

III. EVENT PROBABILITIES 23-25 AUG 1975

CLASS M 50/20/10

CLASS X 10/05/01

PROTON 10/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 AUG 077

PREDICTED 23-25 AUG 075/074/074

90-DAY MEAN 22 AUG 079

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 AUG 14

ESTIMATED AFR/AP 22 AUG 15/17

PREDICTED AFR/AP 23 - 25 AUG 20/25 - 12/15 - 07/07

SOLTERWARN

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