

HFUS 1 BOU 150500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 258A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 15 SEPTEMBER 1974

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 487 (S10E00) HAS PRODUCED A FEW NON ENERGETIC SUBFLARES. THE LIMBS HAVE BEEN QUIET.

IB. SOLAR ACTIVITY WILL CONTINUE AT PRESENT LEVEL BUT REGION 487 HAS THE POTENTIAL TO PRODUCE M AND X FLARES.

II. THE GEOMAGNETIC FIELD IS QUIET. THE RECURRING DISTURBANCE IS STILL EXPECTED WITHIN THE NEXT 24 HOURS.

III. EVENT PROBABILITIES - NO CHANGE

IV. OTTAWA 10.7 CM FLUX - NO CHANGE

V. GEOMAGNETIC A INDICES - NO CHANGE

SOLTERWARN

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HFUS BOU 151430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 258B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1430Z 15 SEPTEMBER 1974

IA. SOLAR ACTIVITY HAS REMAINED LOW DURING THE PAST 8 HOURS, AND NO SIGNIFICANT ENERGETIC ACTIVITY HAS BEEN REPORTED. REGION 487 STILL RETAINS A MAGNETIC DELTA CONFIGURATION, AND THE NEUTRAL LINE REMAINS KINKY AND COMPLEX. REGION 488 HAS EXHIBITED RECENT ACTIVITY IN A HOOK-SHAPED FILAMENT THROUGH THE CENTER OF THE REGION. A NEW REGION, AS YET POORLY EVALUATED, HAS CROSSED THE EAST LIMB AND IS LOCATED NEAR N10E80.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE NEXT 24 HOURS. REGION 487 IS EXPECTED TO PRODUCE SPORADIC ENERGETIC ACTIVITY AND PERHAPS A MAJOR FLARE AS DECAY OCCURS GRADUALLY.

II. THE GEOMAGNETIC FIELD HAS REMAINED QUIET DURING THE PAST 8 HOURS. THE RECURRENT DISTURBANCE MENTIONED IN SDF 257 STILL IS EXPECTED TO BEGIN LATE ON 15 SEPTEMBER, AND MINOR STORM CONDITIONS ARE LIKELY THROUGH 17 SEPTEMBER.

III. EVENT PROBABILITIES 15 - 17 SEPT

CLASS M 70/70/70

CLASS X 30/30/30

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 SEPT 103

PREDICTED 15 - 17 SEPT 102/101/100

90-DAY MEAN 14 SEPT 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 SEPT 13

ESTIMATED AFR/AP 14 SEPT 8/10

PREDICTED AFR/AP 15 - 17 SEPT 23/30 - 30/42 - 30/42

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HFUS BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 258

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 15 SEPTEMBER 1974

IA. SOLAR ACTIVITY HAS REMAINED LOW DURING THE PAST 24 HOURS, AND NO SIGNIFICANT ENERGETIC ACTIVITY HAS BEEN REPORTED. REGION 487 (N08W10) STILL IS COMPLEX AND IMPRESSIVE, BUT THIS REGION PRESENTLY IS DORMANT. REGION 487 RETAINS A DELTA CONFIGURATION OF THE TRAILING SPOTS, WHERE TIGHT MAGNETIC GRADIENTS ARE LOCATED. THIS PART OF THE REGION HAS EXHIBITED FLUCTUATIONS OF THE BRIGHT PLAGE ALONG THE NEUTRAL LINE FILAMENT. AN ISOLATED POLE OF TRAILING POLARITY MAY BE EMERGING NORTHWEST OF THE MAIN LEADER OF REGION 487 SUGGESTING THAT ADDITIONAL DEVELOPMENT STILL MAY OCCUR THERE SOON. REGION 488 (S10W10) HAS EXHIBITED CONSIDERABLE FILAMENT ACTIVITY NEAR THE LEADER SPOT, BUT NO FLARES HAVE OCCURRED THERE. NEW REGION 491 (N08E73) CONTAINS A SMALL LEADER SPOT ACCCOMPANIED BY RELATIVELY STABLE PLAGE.

IB. SOLAR ACTIVITY IS EXPECTED TO RISE TO A MODERATE LEVEL DURING THE NEXT 24 TO 48 HOURS DUE TO RENEWED FLARE PRODUCTION IN REGION 487. AT LEAST ONE CLASS M FLARE AND PERHAPS A CLASS X FLARE MAY OCCUR IN REGION 487, EITHER DUE TO RENEWED DEVELOPMENT OR TO DECAY. REGION 488 MAY PRODUCE MINOR ENERGETIC ACTIVITY IF DEVELOPMENT THERE CONTINUES.

II. THE GEOMAGNETIC FIELD WAS RELATIVELY QUIET UNTIL 15/1342Z, WHEN A SUDDEN STORM COMMENCEMENT OCCURRED. FLUCTUATIONS OF UP TO 180 GAMMAS WERE MEASURED ON THE BOULDER REAL-TIME MAGNETOMETER DURING THE INTERVAL 15/1500-1800Z. BOULDER K- INDICES WERE SIX (6) FOR THE PERIODS 15/1200-1500Z, 1500-1800Z, AND 1800-2100Z. DISTURBANCE APPEARED TO BE SUBSIDING AS THIS REPORT WAS PREPARED, BUT MINOR STORM CONDITIONS ARE EXPECTED TO CONTINUE FOR ABOUT THREE DAYS, WITH MAXIMUM DISTURBANCE LIKELY DURING LOCAL NIGHT.

III. EVENT PROBABILITIES 16 SEPT - 18 SEPT

CLASS M 80/70/70

CLASS X 35/30/30

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 SEPT 102

PREDICTED 16 SEPT - 18 SEPT 101/100/98

90-DAY MEAN 15 SEPT 88

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 14 SEPT 09

ESTIMATED AFR/AP 15 SEPT 35/45

PREDICTED AFR/AP 16 SEPT - 18 SEPT 30/42 - 30/42 - 28/38

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