

HFUS 1 BOU 131245

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 256A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 13 SEPTEMBER 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

12/1200Z TO 13/1200Z:

SOLAR ACTIVITY HAS BEEN HIGH. REGION 3317 (N09W42) PRODUCED AN X1/2B AT 13/0013UT. A 420 F.U. 10CM BURST (BUT NO METER WAVELENGTH BURST) WAS RECORDED. THIS REGION HAS PRODUCED SEVERAL CLASS C EVENTS DURING THE PERIOD. LITTLE MAGNETIC DATA HAVE BEEN RECEIVED TODAY. IT APPEARS IN SPITE OF SOME RECENT GROWTH AND RESTRUCTURING IN 3317, THIS REGION IS REACHING MATURITY. REGION 3329 (N18E42) HAS ALSO PRODUCED SEVERAL C CLASS FLARES AND CONTINUES A MODERATE GROWTH TREND.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD BE MODERATE. 3317 RETAINS THE CAPABILITY OF PRODUCING ANOTHER LARGE FLARE. MODERATE EVENTS ARE ALSO BECOMING POSSIBLE FROM 3329. THE RETURN OF REGION 3284, WHICH LAST ROTATION WAS A GROWING E GROUP NEAR WEST LIMB, IS EXPECTED ON 14 SEPTEMBER.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. THE LEADING EDGE OF THE EQUATORIAL CORONAL HOLE IS CURRENTLY AT W66 AND NO DISTURBANCE HAS MATERIALIZED. THEREFORE, UNSETLED TO SLIGHTLY ACTIVE CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS. NO SIGNIFICANT GEOPHYSICAL EFFECTS ARE EXPECTED FROM THE 13/0013UT FLARE.

III. EVENT PROBABILITIES: 14 - 16 SEPTEMBER

CLASS M 90/90/90

CLASS X 20/20/20

PROTON 20/20/15

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 12 SEP 226

ESTIMATED 13 SEP 220

PREDICTED 14-16 SEP 220/230/235

90 DAY MEAN 12 SEP 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR 11 SEP 18 AP 12 SEP 16

ESTIMATED AFR 12 SEP 16 AFR/AP 13 SEP 13/15

PREDICTED AFR/AP 14/16 SEP 14/15 14/15 14/10

SOLTERWARN.

BT

HFUS 3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 2558

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z SEP 13 Q01Q

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

12/1200Z TO 12/2100Z:

SOLAR ACTIVITY HAS BEEN MODERATE DURING THIS REPORT PERIOD.

REGION 3317 (N10W48) APPEARS STABLE WITH SOME REORGANIZATION AMONG ITS SPOTS AND WITH SOMEWHAT REDUCED MAGNETIC GRADIENTS FOLLOWING THE X1/2B EVENT REPORTED EARLIER. REGION 3332 (N13E27) IN FRONT OF REGION 3329 (N19E35) HAS BEEN GROWING IN WHITE-LIGHT. BOTH OF THESE REGIONS HAVE SHOWN ENHANCEMENT IN H-ALPHA THROUGHOUT THE DAY. REGION 3317 HAS SHOWN ENHANCEMENT IN H-ALPHA ALONG THE NEUTRAL LINE ALSO, AND HAS FLARED BRIEFLY AT C5/SB LEVEL. FOUR NEW REGIONS WERE NUMBERED TODAY. REGIONS 3335

(S09W39), 3336 (N14W06), 3337 (S18E16), 3338 (S09W09), ALL ARE RELATIVELY INSIGNIFICANT REGIONS.

IB. SOLAR ACTIVITY FORECAST:

ACTIVITY IS EXPECTED TO BE AT MODERATE LEVELS WITH EVENTS MOST LIKELY IN REGIONS 3317, 3329, 3332, 3323 (N16W41). REGION 3317 APPEARS TO REMAIN CAPABLE OF HIGH LEVEL ACTIVITY WHICH SHOULD BECOME MORE PROBABLE AS THIS REGION BEGINS TO DECLINE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS DECLINED TO UNSETLED CONDITIONS, TRENDING TOWARD LOW UNSETLED. UNSETLED CONDITIONS ARE EXPECTED TO CONTINUE WITH POSSIBLE BRIEF ACTIVE INTERVALS DUE TO RECENT FLARES.

III. EVENT PROBABILITIES: 14-16 SEPT

CLASS M 90/90/90

CLASS X 20/20/20

PROTON 20/20/15

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 13 SEPT 227

PREDICTED 14-16 SEPT 220/230/235

90 DAY MEAN 13 SEPT 204

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 SEPT 13/16

ESTIMATED AFR/AP 13 SEPT 10/15

PREDICTED AFR/AP 14-16 SEPT 14/16 14/15 14/10

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