

HFUS3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 229

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 AUG 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100

TO 16/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24

HOURS. NO OPTICAL FLARES HAVE BEEN REPORTED ALTHOUGH REGION

~~4553~~⁵² (N08W89) EXHIBITED POINT BRIGHTENINGS AND SURGING AS IT

APPROACHED WEST LIMB PASSAGE. TWO NEW REGIONS WERE NUMBERED.

REGION 4563 (N04W68) EMERGED ON THE DISK AS A SMALL BIPOLAR

GROUP. NEW REGION 4564 (S09E74), AN H-TYPE SPOT, ROTATED OVER

THE EAST LIMB. IT IS NOT A RETURNING REGION. THE MOST

SIGNIFICANT ACTIVITY WAS THE DISAPPEARANCE OF A DARK FILAMENT

WHICH WAS LOCATED AT S14W04 TO S18W10 AT 15/2200 UT. THE

DISAPPEARANCE IS ASSUMED TO BE ASSOCIATED WITH A LONG-DELAY

X-RAY ENHANCEMENT (4-HOUR DURATION) WHICH BEGAN NEAR 1100 UT.

PARALLEL RIBBONS WERE STILL VISIBLE IN H-ALPHA AT 1447 UT ALONG

THE EXTENDED INVERSION LINE. THE LARGE-SCALE HELIOMAGNETIC

FIELDS APPEAR TO BE RESTRUCTURING IN THIS LOCALITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE VERY LOW FOR THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST 24 HOURS.

THIS ACTIVITY IS ATTRIBUTED TO EFFECTS ASSOCIATED WITH A

FILAMENT DISAPPEARANCE ON 11 AUGUST.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS

EXPECTED TO BE UNSETTLED TO QUIET DURING THE NEXT THREE DAYS.

HOWEVER, STORM COMMENCEMENT IS EXPECTED MIDDAY ON 20 AUGUST IN

RESPONSE TO A POSSIBLE CORONAL MASS EJECTION ASSOCIATED WITH

TODAY'S FILAMENT DISAPPEARANCE. MINOR STORM CONDITIONS SHOULD

PREVAIL ON 21 AND 22 AUGUST.

III. EVENT PROBABILITIES 17 AUG-19 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 AUG 081

PREDICTED 17 AUG-19 AUG 075/080/080

90 DAY MEAN 16 AUG 097

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 AUG 024/026

ESTIMATED AFR/AP 16 AUG 017/021

PREDICTED AFR/AP 17 AUG-19 AUG 015/015-010/015-010/010

SOLTERWARN

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