

HFUS 1 BOU 201300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 171A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 20 JUNE 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
19/1200UT TO 20/1200UT:
SOLAR ACTIVITY HAS BEEN LOW SINCE 19/1200UT. ONLY SMALL CLASS
C X-RAY FLARES HAVE OCCURRED. REGIONS 3159 (S25W47) AND 3161
(S20W31) HAVE DECAYED INTO SIMPLE, MATURE REGIONS WITH LOW
MAGNETIC GRADIENTS, ALTHOUGH REGION 3159 IS REVERSE POLARITY.
REGION 3170 (N15E64) IS REPORTEDLY GROWING RAPIDLY AND HAS
ALREADY PRODUCED TWO SUBFAINT FLARES.

I B. SOLAR ACTIVITY FORECAST:
SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

I I. GEOPHYSICAL SUMMARY AND FORECAST:
THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE PAST 24 HOURS.
UNSETTLED CONDITIONS ARE EXPECTED TO PERSIST THROUGH THE FORECAST
PERIOD.

I II. EVENT PROBABILITIES: 21 - 23 JUN

CLASS M	25/20/20
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED	19 JUN 161
ESTIMATED	20 JUN 157
PREDICTED	21-23 JUN 151/148/145
90 DAY MEAN	19 JUN 196

V. GEOMAGNETIC A INDICES

OBSERVED AFR	18 JUN 10	AP 19 JUN 14
ESTIMATED AFR	19 JUN 11	AFR/AP 20 JUN 12/12
PREDICTED AFR/AP	21-23 JUN 12/15	12/15 12/15

SOLTERWARN
BT

WEWS 3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 171B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 20 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/1200UT TO 20/2200UT.

SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 3170 (N14E63) HAS PRODUCED ALL THE ACTIVITY OBSERVED. ALL HAVE BEEN C-CLASS SUBFLARES, WITH THE LARGEST A C1/SF AT 1653Z MAXIMUM PRODUCING MINOR RADIO RESPONSE THROUGH THE SPECTRUM. THIS REGION'S GROWTH HAS BEEN IMPRESSIVE, INCREASING FROM A SPOT AREA OF 20 MILLIONTHS YESTERDAY, TO 460 MILLIONTHS TODAY. A REPORT OF EAST-WEST PENUMBRA GROWTH COULD INDICATE A POSSIBLE DELTA CONFIGURATION BY TOMORROW.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. IF THE PRESENT GROWTH IN REGION 3170 CONTINUES HOWEVER, AN ISOLATED M-CLASS EVENT IS POSSIBLE. ONLY MINOR ACTIVITY FROM THE REMAINING DISK REGIONS IS EXPECTED.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD CONTINUES AT ITS UNSETTLED LEVEL WITH MID-LATITUDE K INDEXES VARYING BETWEEN 2 AND 3. NO SIGNIFICANT CHANGE IS EXPECTED FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 21 JUNE - 23 JUNE

CLASS M 25/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 20 JUNE 155

PREDICTED 21 - 23 JUNE 155/155/153

90 DAY MEAN 20 JUNE 196

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 JUNE 10/14

ESTIMATED AFR/AP 20 JUNE 11/13

PREDICTED AFR/AP 21 - 23 JUNE 12/15 12/15 12/15

SOLTERWARN

BT