

HFUS 1 BOU 281230

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 179A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 28 JUN 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
27/1200Z TO 28/1200Z:

SOLAR ACTIVITY REMAINED AT MODERATE LEVELS DURING THE PAST  
24 HOURS. REGION 3180 (S16E41) PRODUCED AN M2/1B AT 27/1256Z  
(MAX) AND AN M1/SN AT 28/0400Z (MAX). THIS REGION IS NOW A  
LARGE "F" CLASS SPOT GROUP THAT HAS A BRIGHT FLUCTUATING  
PLAGE AND A NEUTRAL LINE WITH MANY KINKS. THE MAGNETIC  
CLASSIFICATION IS STILL A BETA TYPE BUT GROWTH IN THE CENTRAL  
PORTIONS COULD EASILY RESULT IN A DELTA CONFIGURATION. REGION  
3170 (N14W39) REMAINS A POSSIBLE THREAT ALSO AS IT RETAINS ITS  
DYNAMIC CHARACTERISTICS AND THE SPOT GROUP IS STILL WELL  
DEVELOPED.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD CONTINUE AT A MODERATE LEVEL AS 3180 AND  
3170 REMAIN CAPABLE OF "M" CLASS ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO SLIGHTLY ACTIVE. THE  
DISTURBANCE THAT WAS EXPECTED TODAY HAS NOT YET MATERIALIZED  
BUT IS EXPECTED LATER TODAY OR EARLY TOMORROW. THIS SHOULD  
RESULT IN ACTIVE CONDITIONS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 29 JUN - 01 JULY

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 27 JUN 187

ESTIMATED 28 JUN 190

PREDICTED 29 JUN-01 JUL 190/190/192

90 DAY MEAN 27 JUN 193

V. GEOMAGNETIC INDICES

OBSERVED AFR 26 JUN 19 AP 27 JUN 13

ESTIMATED AFR 27 JUN 15 AFR/AP 28 JUN 12/15

PREDICTED AFR/AP 29 JUN-01 JUL 25/25 20/20 16/20

SOLTERWARN

BT

HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 179B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 28 JUNE 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/1200Z TO 28/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9 HOURS. THE LARGEST EVENT WAS A C2/1N FLARE FROM 3172 (S07W18) WHICH MAXED AT 1315Z. REGIONS 3170 (N15W46) AND 3178 (N20E11) PRODUCED MINOR C-CLASS SUBFLARES. NEW REGION 3182 (S12W15), A B-TYPE GROUP, APPEARED TODAY. REGION 3180 (S15E35) HAS CONTINUED SLOW GROWTH IN WHITE LIGHT.

I B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. REGIONS 3180, 3170, AND 3178 ARE CAPABLE OF SIGNIFICANT FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETLED FOR THE PAST 9 HOURS. ACTIVE CONDITIONS ARE STILL EXPECTED TO OCCUR AND PERSIST THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 29 JUNE - 01 JULY

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 JUNE 191

PREDICTED 29 JUNE - 01 JULY 190/190/192

90-DAY MEAN 28 JUNE 193

V. GEOMAGNETIC A-F INDICES

OBSERVED AFR/AP 27 JUNE NO DATA/13

ESTIMATED AFR/AP 28 JUNE 13/13

PREDICTED AFR/AP 29 JUNE - 01 JULY 25/25 - 20/20 - 16/20

SOLTERWARN

PT