

HFUS 1 BQU 291300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 149A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 29 MAY 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/1200UT  
TO 29/1200UT:

SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. HOWEVER, MOST  
OF THE NUMBERED REGIONS HAVE RECENTLY GROWN OR RESTRUCTURED AND  
HAVE BECOME MORE COMPLEX MAGNETICALLY. IN PARTICULAR A DELTA  
CONFIGURATION MAY BE FORMING IN 3121 (N04W31), AND 3129 (S05E14)  
IS NO LONGER A SIMPLE BIPOLE. REGION 3123 (N18W53) PRODUCED  
THE LARGEST EVENT OF THIS REPORTING PERIOD. IT WAS A C2/IN FLARE  
WHICH MAXED AT 0317UT.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT LOW LEVELS. HOWEVER, THERE  
IS AN INCREASED PROBABILITY OF SIGNIFICANT (M-CLASS) FLARES FROM 3121  
AND AN ISOLATED SIGNIFICANT FLARE FROM 3129.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE PAST 24 HOURS.  
IT APPEARS THAT THE PRIMARY EFFECTS OF THE OBSERVED EQUATORIAL CORONAL  
HOLE WERE EXPERIENCED ON 28 MAY. THE FIELD IS NOW EXPECTED TO BECOME  
AND REMAIN MOSTLY QUIET THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 30 MAY - 01 JUN

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 MAY 177

ESTIMATED 29 MAY 180

PREDICTED 30 MAY - 01 JUN 185/195/200

90-DAY MEAN 28 MAY 210

V. GEOMAGNETIC A INDICES

OBSERVED AFR 27 MAY 08 AP 28 MAY 14

ESTIMATED AFR 28 MAY 15 AFR/AP 29 MAY 11/12

PREDICTED AFR/AP 30 MAY - 01 JUN 10/12 - 07/10 - 07/08

SOLTERWAPN

BT

HFUS 3 00U 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 149B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 29 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/1200UT  
TO 29/2200UT

SOLAR ACTIVITY HAS BEEN LOW DURING THIS PERIOD. ONLY ONE X-RAY,  
NO OPTICAL, EVENT HAS BEEN RECORDED.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT OR NEAR QUIET LEVELS. THE FIELD  
IS EXPECTED TO BE SLIGHTLY UNSETTLED TO QUIET DURING THE FORECAST  
PERIOD.

III. EVENT PROBABILITIES 30 MAY - 01 JUN

CLASS M 15/15/25

CLASS X 01/01/01

PROTON 01/01/01

SCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 MAY 166

PREDICTED 30 MAY - 01 JUN 163/163/170

90-DAY MEAN 29 MAY 209

v. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 MAY 16/14

ESTIMATED AFR/AP 29 MAY 08/10

PREDICTED AFR/AP 30 MAY - 01 JUN 10/12 - 07/10 - 07/08

SOLTERWARN

BT