

HFUS 1 BOU 251300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 206A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 25 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/1200Z TO 25/1200Z: SOLAR ACTIVITY HAS BEEN VERY LOW. ONLY SMALL C CLASS XRAY, SUB CLASS OPTICAL FLARES HAVE OCCURRED. EACH OF THE THREE SMALL GROUPS VISIBLE ON THE DISK HAVE CONTRIBUTED TO THIS RELATIVELY INSIGNIFICANT ACTIVITY. REGION 3824(N22W60) HAS DEVELOPED RAPIDLY IN FRONT OF THE LEADER SPOT OF REGION 3817(N18W56). ALTHOUGH GROWTH IN THIS NEW REGION HAS BEEN RAPID, AS YET IT IS AN UNIMPRESSIVE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN VERY LOW PENDING SIGNIFICANT GROWTH OR ARRIVAL OF A MAJOR GROUP ON THE DISK. NO MAJOR RETURNING REGIONS ARE EXPECTED WITHIN THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN INTERMITTENTLY ACTIVE OR AT MINOR STORM LEVELS DUE TO THE EFFECT OF A CORONAL HOLE WEST OF CENTRAL MERIDIAN. THE DISTURBANCE IS DECLINING. ACTIVE TO UNSETTLED CONDITIONS ARE EXPECTED EARLY IN THE FORECAST PERIOD. THE FIELD SHOULD DECLINE RAPIDLY TO QUIET LEVELS LATE IN THE PERIOD WHEN THE CORONAL HOLE INFLUENCE PASSES.

III. EVENT PROBABILITIES 26 JUL-28 JUL

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JUL 114

ESTIMATED 25 JUL 105

PREDICTED 26 JUL-28 JUL 100/096/102

90 DAY MEAN 24 JUL 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR 23 JUL 013 AP 24 JUL 047

ESTIMATED AFR 24 JUL 032 AFR/AP 25 JUL 025/025

PREDICTED AFR/AP 26 JUL-28 JUL 018/015-010/010-006/010

SOLTERWARN

BT

3 2200  
HFUS # BOU 251300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 206B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY...  
ISSUED 2200Z 25 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
24/1200Z TO 25/2100Z: SOLAR ACTIVITY HAS BEEN AT LOW LEVELS  
DURING THE PAST NINE HOURS. REGIONS 3822 (S21E08) AND 3824  
(N21W69) HAVE BOTH PRODUCED SEVERAL SMALL C-CLASS XRAY EVENTS  
DURING THE PERIOD. REGION 3824 HAS SHOWN SOME GROWTH AS IT  
SLOWLY MATURES WHILE 3822 HAS SHOWN INDICATIONS OF DECAY. OLD  
REGION 3810 (NOW AT N14W97) APPEARED AS AN ACTIVE MOUND  
PROMINENCE ON THE NW LIMB OF THE DISK MOST OF THE DAY. DURING  
THE 1807-1818Z PERIOD THE REGION PRODUCED A SIGNIFICANT LIMB  
FLARE WHICH EJECTED THE PROMINENCE MATERIAL OUT TO .15 SOLAR  
RADIUS ABOVE THE NW LIMB. OTHERWISE THE REMAINDER OF THE DISK  
AND LIMB OF THE SUN WERE QUIET. A NEW REGION 3825 (S01W33)  
APPEARS TO BE DEVELOPING. IT IS CURRENTLY A SIMPLE A-TYPE  
SPOT.

IB. SOLAR ACTIVITY FORECAST: DESPITE THE APPARENT GROWTH IN  
REGION 3824 SOLAR ACTIVITY IS EXPECTED TO REMAIN AT LOW LEVELS  
OVER THE NEXT THREE DAYS. AS 3824 ROTATES OFF THE WEST LIMB  
ACTIVITY SHOULD REACH A MINIMUM ON ABOUT 27 JULY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
DECLINED TO GENERALLY ACTIVE LEVELS FROM THE MINOR STORM  
LEVELS OBSERVED YESTERDAY. THE SOLAR CORONAL HOLE WHICH HAS  
CAUSED THE DISTURBED GEOMAGNETIC CONDITIONS CONTINUES TO ROTATE  
CLOSER TO THE WEST LIMB OF THE SUN. THEREFORE AS THE INFLUENCE  
OF THIS SOLAR FEATURE DIMINISHES GEOMAGNETIC ACTIVITY IS  
EXPECTED TO CONTINUE TO DECLINE OVER THE NEXT SEVERAL DAYS  
REACHING QUIET LEVELS BY THE THIRD DAY OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 26 JUL-28 JUL

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 JUL 105

PREDICTED 26 JUL-28 JUL 100/096/102

90 DAY MEAN 25 JUL 164

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 JUL 032/047

ESTIMATED AFR/AP 25 JUL 023/025

PREDICTED AFR/AP 26 JUL-28 JUL 018/015-010/010-006/010

SOLTERWARN

BT