

HFUS 1 BOU 071235
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 280A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 07 OCTOBER 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
06/1200Z TO 07/1200Z:

SOLAR ACTIVITY HAS BEEN LOW. REGION 3375 (N13W52) HAS SHOWN SLIGHT GROWTH AND PRODUCED SIX SMALL FLARES IN THE PAST 24 HOURS. THE SLOWING OF THE RATE OF GROWTH MAY BEGIN TO DECREASE ITS FLARE ACTIVITY. REGION 3388 (S11E11) HAS GROWN TO A SPOT GROUP OF CLASS/AREA D/170 IN TWO DAYS. SMALL FLARES, BRIGHT POINTS AND AN ARCH FILAMENT SYSTEM CONTINUE TO BE REPORTED IN THIS REGION. ALL OTHER REGIONS ARE STABLE OR DECLINING.

I B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A LOW LEVEL WITH ONLY ISOLATED CLASS M EVENTS POSSIBLE FROM REGIONS CURRENTLY ON THE DISK.

I I. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS QUIET UNTIL 0900Z WHEN IT BECAME SLIGHTLY ACTIVE. UNSETTLED CONDITIONS ARE EXPECTED FOR THE REMAINDER OF TODAY AND EARLY 08 OCT AS A RESULT OF A SMALL CORONAL HOLE. A LARGE FILAMENT WHICH DISAPPEARED ON 06 OCT MAY CAUSE UNSETTLED CONDITIONS TO CONTINUE 09-10 OCT.

I II. EVENT PROBABILITIES: 08-10 OCT

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 06 OCT 201

ESTIMATED 07 OCT 200

PREDICTED 08-10 OCT 197/190/180

90 DAY MEAN 06 OCT 213

V. GEOMAGNETIC INDICES

OBSERVED AFR 05 OCT 07 AP 06 OCT 08

ESTIMATED AFR 06 OCT 06 AFR/AP 07 OCT 12/17

PREDICTED AFR/AP 08-10 OCT 12/12 12/12 12/14

SOLTERWARN

BT

HFUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 28CB

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 07 OCTOBER 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200Z TO 07/2100Z: SOLAR ACTIVITY WAS MODERATE DURING THIS PERIOD WITH TWO M-CLASS EVENTS OBSERVED. REGION 3388 (S11E05) PRODUCED AN M1/SB AT 1338Z AND AN M1/1B AT 1812Z. THIS REGION HAS GROWN RAPIDLY AND STEADILY AND NOW POSSESSES AN AREA OF 270 AND A BETA-GAMMA/DELTA MAGNETIC CONFIGURATION. REGION 3375 (N13W59) HAS ALSO GROWN AND EXHIBITED ISOLATED SUBFLARE ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. REGIONS 3375 AND 3388 ARE BOTH CAPABLE OF PRODUCING MAJOR FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS MOSTLY ACTIVE TODAY BUT IT IS EXPECTED TO SETTLE DOWN FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 08 OCTOBER - 10 OCTOBER

CLASS M 70/70/70

CLASS X 01/05/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 OCTOBER 207

PREDICTED 08-10 OCTOBER 207/207/202

90-DAY MEAN 07 OCTOBER 214

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 OCTOBER 05/08

ESTIMATED AFR/AP 07 OCTOBER 17/25

PREDICTED AFR/AP 08-10 OCTOBER 12/16 - 12/12 - 12/14

SOLTER/WARN

BT