

HFUS 1:1801 091300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDE NUMBER 190Z

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 09 JULY 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200Z TO 09/1200Z:

SOLAR ACTIVITY HAS BEEN LOW BUT INCREASING DURING THE PAST 24 HOURS. THREE CLASS C9 EVENTS HAVE OCCURRED. ONE OF THESE WAS CLEARLY ASSOCIATED WITH REGION 3186 (S03W90) WHICH HAS GROWN RAPIDLY TODAY. NEARBY REGION 3185 (S17W96) IS A SUSPECTED SOURCE AS WELL. REGIONS 3203 (S08E75) AND 3204 (S26E75) HAVE BEEN SURGING REGULARLY AND ARE APPEARING LARGER AND MORE COMPLEX AS THEY BECOME MORE FULLY VISIBLE. ALL OTHER REGIONS ARE VERY SMALL AND CHANGING SLOWLY.

I B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO INCREASE AS GROWTH AND SOLAR ROTATION ADD MORE ACTIVITY TO THE SOUTHEAST QUADRANT.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETLED TODAY. ACTIVE CONDITIONS ARE EXPECTED BEGINNING EARLY TOMORROW AS EARTH ENCOUNTERS A TURBULENT HIGH-SPEED SOLAR WIND STREAM ASSOCIATED WITH ONE OF THE LARGEST CORONAL HOLES THUS FAR THIS SOLAR CYCLE (SINCE 1976). A FILAMENT DISAPPEARANCE AND INCREASING ACTIVITY IN OTHER FILAMENTS NEAR THIS HOLE INDICATE TURBULENCE AND MASS EJECTIONS PROPAGATING TOWARD EARTH.

III. EVENT PROBABILITIES 10-12 JULY

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 02/02/02

PCAE GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 8 JUL 147

ESTIMATED 9 JUL 149

PREDICTED 10-12 JUL 151/154/159

90-DAY MEAN 8 JUL 185

V. GEOMAGNETIC A INDICES

OBSERVED AFR 07 JUL 13 AP 08 JUL 13

ESTIMATED AFR 08 JUL 13 AFR/AP 09 JUL 07/12

PREDICTED AFR/AP 10-12 JUL 24/20 - 20/15 - 18/18

COTTERWARM

BT

HFUS 3 ECU 092200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 1908

JOINT USAE/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 09 JULY 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/1200Z TO 09/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE DURING THIS PERIOD. AN M2.1B OCCURRED AT 1317Z FROM REGION 3203 (S09E69), MINOR RADIO WAS ALSO OBSERVED. REGION 3203 IS NOW A C-E-TYPE GROUP. REGION 3204 (S27E65) IS NOW A LARGE D-TYPE GROUP. A SMALL AREA OF BRIGHT PLAGE HAS BEEN NUMBERED 3205 (S27E21).

II. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT OR NEAR MODERATE LEVELS DURING THE FORECAST PERIOD.

III. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED DURING THIS PERIOD. THE FIELD IS EXPECTED TO BE ACTIVE DURING MOST OF THE FORECAST PERIOD.

IV. EVENT PROBABILITIES 10 JULY - 12 JULY:

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 02/02/02

PCAF GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 09 JULY 148

PREDICTED 10-12 JULY 151/154/159

90-DAY MEAN 09 JULY 183

VI. GEOMAGNETIC INDICES

OBSERVED AFR/AP 08 JULY 11/12

ESTIMATED AFR/AP 09 JULY 09/12

PREDICTED AFR/AP 10-12 JULY 24/20 - 20/15 - 10/10

SOLARFLARE

PT