

WFUS 1 001 031300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 184A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 03 JULY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

02/1200Z TO 03/1200Z:

SOLAR ACTIVITY HAS BEEN AT MODERATE LEVELS DURING THE PAST 24 HOURS. REGION 3180 (S14W25) ACCOUNTED FOR BOTH OF THE M-CLASS EVENTS DURING THIS PERIOD, AN M1/2B AT 02/1303UT AND AN M2/2P AT 03/0129UT. THE OTHER NINE REGIONS ON THE SOLAR DISK HAVE BEEN FAIRLY QUIET.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. ALTHOUGH REGION 3180 HAS APPARENTLY RELEASED MUCH OF ITS ENERGY, IT STILL IS BELIEVED TO HAVE MAJOR FLARE POTENTIAL.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET OR UNSETTLED DURING THIS PERIOD. UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES: 04-06 JULY

CLASS M 10/80/80

CLASS X 10/10/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 02 JULY 163

ESTIMATED 03 JULY 158

PREDICTED 04-06 JULY 155/155/155

90 DAY MEAN 02 JULY 191

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 JULY 21 AP 02 JULY 26

ESTIMATED AFR 02 JULY 24 AFR/AP 03 JULY 10/15

PREDICTED AFR/AP 04-06 JULY 12/15 15/18 15/20

SOLTERWARN

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HFIS 3 BOM 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLO
SDF NUMBER 184B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 3 JULY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200Z
TO 03/2100Z:

SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 12 HOURS. AN M1/1B
FLARE AT 1912Z OCCURRED IN REGION 3188 (N11W77) WHICH IS SMALL AND
GROWING. IMPORTANT GROWTH IS ALSO TAKING PLACE IN REGION 3189
(S10W82) WHICH FORMED YESTERDAY NEAR REGION 3172. MINOR FLARES
CONTINUE NEAR THE SMALL DELTA CONFIGURATION IN REGION 3180
(S16W35). THIS REGION IS SLOWLY DECAYING BUT IS STILL A LARGE
CLASS F SPOT GROUP. FAINT PLAGE HAS ROTATED INTO VIEW NEAR NE
LIMB. REGION 3190 HAS FORMED AT NOSW19.

IB. SOLAR ACTIVITY FORECAST:

ACTIVITY AT WEST LIMB MAY EQUAL CONTINUED ACTIVITY IN REGION 3180
WITH OCCASIONAL CLASS M EVENTS AMONG AN INCREASING NUMBER OF CLASS
C EVENTS. THE RETURN OF REGION 3165 TO NE LIMB IS EXPECTED TO
BALANCE THE LOSS OF REGIONS 3172, 3188 AND 3189.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS REMAINED QUIET TO UNSETTLED TODAY.
CONDITIONS ARE EXPECTED TO BECOME MORE UNSETTLED TO ACTIVE THROUGH
THE NEXT 3 DAYS.

III. EVENT PROBABILITIES: 04 - 06 JULY

CLASS M 80/80/80

CLASS X 10/10/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 03 JULY 157

PREDICTED 04 - 06 JULY 155/155/155

90 DAY MEAN 03 JULY 190

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 JULY 28/26

ESTIMATED AFR/AP 03 JULY 05/08

PREDICTED AFR/AP 04 - 06 JULY 12/15 15/18 15/20

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