

HFUS 3 BOU 200500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 201A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 20 JULY 1977

IA. THE DISK REGIONS ARE STABLE AND QUIET. THERE HAS BEEN VERY
LITTLE CHANGE. AT 19/2240Z AN EPL WAS OBSERVED AND BY 19/2330Z THE
EVENT HAD BECOME A C-8 XRAY EVENT. THIS EVENT WAS OBSERVED AT
N35E90 WHICH IS THE AREA REGION 841 IS DUE TO RETURN.

IB. SOLAR ACTIVITY WILL CONTINUE AT A VERY LOW LEVEL.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IT IS EXPECTED THE
FIELD WILL CONTINUE UNSETTLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 20 JULY - 22 JULY

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 JULY 74

PREDICTED 20-22 JULY 76/77/79

90-DAY MEAN 19 JULY 84

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 JULY 07

ESTIMATED AFR/AP 19 JULY 19/22

PREDICTED AFR/AP 20-22 JULY 12/15 - 13/12 - 15/18

SOLTERWARN

BT

HFUS 3 BOU 201500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 201-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 20 JULY 1977

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. HOWEVER, SURGING AT NE 17
TRIGGERED AN ERUPTIVE PROMINENCE AT NE37 FROM 19/2245 - 2400Z. AS
THE PROMINENCE WAS ERUPTING, LOOPS FORMED OVER THE SURGE AREA AT
NE 17. THE LOOPS PERSISTED THROUGH 20/0515Z. CULGOORA REPORTED A
WEAK RADIO SOURCE AT 80 MHZ MOVING NE, INDICATING A POSSIBLE
MOVING TYPE IV EVENT. X-RAY MAXIMUM OF A C-9 WAS AT 19/2331Z WITH
A LONG DECAY TIME. MCMATH REPORTS A SPOT VISIBLE JUST INSIDE
EAST LIMB NEAR NE17.

IB. SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. VISIBLE STRUCTURE
DOES NOT SUPPORT SUSTAINED ACTIVITY. THE EAST LIMB EVENT MAY SUPPORT
THE CURRENT HIGH SPEED WIND STREAM IN APPROXIMATELY 48-60 HOURS.
LOW LEVEL PARTICLES MAY BE MEASURED AT SATELLITE LEVELS IN APPROX-
IMATELY 36-48 HOURS.

II. THE MAGNETIC FIELD WENT INTO A STORM LEVEL NEAR 20/0300Z AND
IS EXPECTED TO CONTINUE THIS ZULU DAY. STRONGLY ACTIVE TO MINOR
STORM CONDITIONS ARE EXPECTED THROUGH 22 JULY.

III. EVENT PROBABILITIES 20 JULY - 22 JULY

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 JULY 74

PREDICTED 20-22 JULY 77/79/81

90-DAY MEAN 19 JULY 84

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 JULY 07

ESTIMATED AFR/AP 19 JULY 19/22

PREDICTED AFR/AP 20-22 JULY 29/30 - 25/28 - 24/28

SOLTERWARN

BT

HFUS 1 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 201

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 20 JULY 1977

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. HOWEVER, SURGING AT NE 17
TRIGGERED AN ERUPTIVE PROMINENCE AT NE35 FROM 19/2245 - 2400Z.
AS THE PROMINENCE WAS ERUPTING, LOOPS FORMED OVER THE SURGE AREA
AT NE17. THE LOOPS PERSISTED THROUGH 20/0515Z. CULGOORA
REPORTED A WEAK RADIO SOURCE AT 80 MHZ MOVING NE, INDICATING A
POSSIBLE MOVING TYPE IV EVENT. A WEAK LONG-LIVED ENHANCEMENT
WAS ALSO OBSERVED AT CENTIMETRIC WAVELENGTHS. X-RAY MAXIMUM OF
C-9 WAS AT 19/2331Z WITH A LONG DECAY TIME. REGION 851 (N17E77,
OLD REGION 839) CONTAINS AN H-TYPE SPOT AND WEAK PLAGE STRUCTURE.
CURRENT OBSERVATIONS DO NOT INDICATE A MORE ACTIVE REGION BEYOND
EAST LIMB. THE OTHER DISK REGIONS ARE SMALL OR WEAK IN STRUCTURE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW.

II. THE MINOR STORM WHICH BEGAN NEAR 20/0300Z HAS DIMINISHED TO
ACTIVE CONDITIONS. THE FIELD IS EXPECTED TO REMAIN MODERATELY ACTIVE,
WITH SHORT PERIODS OF STORM CONDITIONS. A HALE SECTOR BOUNDARY
CURRENTLY AT CENTRAL MERIDIAN AND NOMINAL DELAY TIME FOR AN EAST
LIMB EVENT INDICATES A MINOR STORM (EVENT RELATED) TO BEGIN LATE
ON 22 JULY OR EARLY ON 23 JULY.

III. EVENT PROBABILITIES 21 - 23 JULY

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 JULY 77

PREDICTED 21 - 23 JULY 79/82/83

90-DAY MEAN 20 JULY 84

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 JULY 20

ESTIMATED AFR/AP 20 JULY 28/30

PREDICTED AFR/AP 21 - 23 JULY 25/25 - 24/24 - 30/30

SOLTERWARN

BT