

HFUS 3 BOU 120500
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 285A
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 12 OCTOBER 1977

IA. REGION 908 (N06W01) HAS PRODUCED TWO FLARES 12/0033Z A SUB-
FAINT AND 12/0206Z A SUB NORMAL WHICH PRODUCED AN M-5 X-RAY
EVENT AND WAS A TENFLARE WITH 2000 FLUX UNITS ON 2695 MHZ. THE
OTHER DISK REGION HAS BEEN QUIET.

IB. SOLAR ACTIVITY WILL CONTINUE AT A LOW LEVEL. CLASS C FLARES
ARE EXPECTED AND CLASS M FLARES ARE PROBABLE FROM REGION 908.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST
EIGHT HOURS AND IT IS EXPECTED THE FIELD WILL REMAIN UNSETTLED
DURING THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 12 OCTOBER - 14 OCTOBER

CLASS M 40/40/30

CLASS X 05/05/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 OCTOBER 96

PREDICTED 12-14 OCTOBER 96/96/95

90-DAY MEAN 11 OCTOBER 91

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 10 OCTOBER 04

ESTIMATED AFR/AP 11 OCTOBER 05/07

PREDICTED AFR/AP 12-14 OCTOBER 15/15 - 08/08 - 08/08

SOLTERWARN

BT

HFS 3 BOU 121500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 285-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 12 OCT 1977

IA. SOLAR ACTIVITY ABRUPTLY INCREASED EARLY TODAY AS REGION 908 (N06W03) AWAKENED FROM ITS DORMANT STAGE OF THE PAST SEVERAL DAYS. CULGOORA REPORTED AN IMPORTANCE 1B FLARE AT 120158 U.T. THAT REACHED X-RAY CLASS OF X-1. THIS FLARE ALSO PRODUCED SWEEP FREQUENCY BURST OF TYPE III FOLLOWED BY TYPE V AS WELL AS TYPE IV. DISCREET FREQUENCY BURST WERE AS HIGH AS 4500 FLUX UNITS ON 606 MHZ. THE FLUX AT 2695 MHZ ONLY REACHED 590 INSTEAD OF 2000 AS PREVIOUSLY REPORTED. ALSO A NEW SPOT GROUP IS EMERGING NEAR N20 AT CENTRAL MERIDIAN. THE NORTHEAST LIMB NOW REVEALS A TINY BIT OF PLAGE WHERE THE SURGING OCCURRED YESTERDAY.

IB. SOLAR ACTIVITY WILL BE AT A LOW TO MODERATE LEVEL FOR THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD EXPERIENCED PERIODS OF MAJOR STORM CONDITIONS DURING THE PAST 12 HOURS. UNSETTLED TO ACTIVE CONDITIONS SHOULD PERSIST FOR THE NEXT 24 HOURS WITH PERIODS OF MINOR STORM CONDITIONS IN NIGHTTIME SECTORS. A STORM RESULTING FROM THE 120158 U.T. FLARE SHOULD BE EXPECTED WITHIN THE NEXT 36 TO 48 HOURS.

III. EVENT PROBABILITIES 12 - 14 OCT

CLASS M 70/40/40

CLASS X 10/10/05

PROTON 30/30/30

PCAF RED

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 OCT 96

PREDICTED 12 - 14 OCT 100/100/100

90-DAY MEAN 11 OCT 91

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 10 OCT 04

ESTIMATED AFR/AP 11 OCT 05/07

PREDICTED AFR/AP 12 - 14 OCT 25/25 - 25/25 - 25/25

SOLTERWARN

BT

HFUS 1 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 285

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 12 OCT 1977

IA. SOLAR ACTIVITY HAS BEEN LIMITED TO CLASS C AND SUB C X-RAY BURST SINCE THE X-1 (IMP 1B) FLARE AT 120158 U.T.. REGION 908(N0SW13) REMAINS COMPLEX IN WHITE LIGHT AND THE PLAGE IS MODERATELY BRIGHT WITH FLUCTUATIONS. MT WILSON CONTINUES TO REPORT A DELTA CONFIGURATION IN THE LEADER PENUMBRA. NO SIGNIFICANT DECAY IN SPOT AREA HAS OCCURRED SINCE YESTERDAY. REGION 911 (N18E32) REMAINS STABLE AND UNIMPRESSIVE. A MEDIUM LARGE H SPOT (REGION 914) GROUP HAS ROTATED OVER THE EAST LIMB WITH A LIMITED AMOUNT OF ASSOCIATED PLAGE. ALSO, A SMALL A TYPE SPOT IS NOW VISIBLE NEAR N20W63 AND IS NUMBERED 913.

IB. SOLAR ACTIVITY WILL BE LOW TO MODERATE DURING THE NEXT 24 HOURS AS REGION 908 CONTINUES TO UNDERGO A RESTRUCTURING PROCESS.

II. THE GEOMAGNETIC FIELD IS ACTIVE. A SHORT PERIOD OF MAJOR STORM CONDITIONS WERE EXPERIENCED BETWEEN 120600 U.T. AND 121500 U.T.. GENERALLY UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS WITH PERIODS OF MINOR STORM CONDITIONS IN NIGHTTIME SECTORS. RECENT ANALYSIS NOW INDICATE THAT PARTICLE ENHANCEMENTS FROM THE 1B FLARE AT 120158 U.T. ARE UNLIKELY. HOWEVER, LOW ENERGY PARTICLE COUNTS AT SATELLITE LEVELS ARE FLUCTUATING AND THIS IS EXPECTED TO BE REFLECTED IN THE GEOMAGNETIC FIELD.

III. EVENT PROBABILITIES 13 - 15 OCT

CLASS M 70/40/40

CLASS X 10/10/05

PROTON 10/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 OCT 101

PREDICTED 13 - 15 OCT 101/102/102

90-DAY MEAN 12 OCT 91

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 11 OCT 10

ESTIMATED AFR/AP 12 OCT 28/33

PREDICTED AFR/AP 13 - 15 OCT 25/25 - 20/20 - 20/20

SOLTERWARN

BT