

HFUS 3 BOU 210430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 233A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 21 AUGUST 1977

IA. SOLAR ACTIVITY HAS REMAINED AT A VERY LOW LEVEL. REGION 864
(N19W71), A D-TYPE SPOT GROUP, HAS CONTINUED ITS GROWTH BUT HAS
DISPLAYED ONLY OCCASIONAL PLAGE FLUCTUATIONS DURING THE PAST SEVEN
HOURS. THERE APPEARS TO BE A NEW H-TYPE SPOT GROUP NEAR S27E82.

IB. SOLAR ACTIVITY IS EXPECTED TO STAY AT A GENERALLY VERY LOW
LEVEL. HOWEVER, OCCASIONAL C-CLASS X-RAY ACTIVITY IS LIKELY AND
ISOLATED M-CLASS ACTIVITY POSSIBLE DURING THE REST OF THE FORECAST
PERIOD.

II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST SEVEN HOURS.
QUIET TO SLIGHTLY UNSETTLED CONDITIONS ARE EXPECTED FOR THE REST
OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 21 AUGUST - 23 AUGUST

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 AUGUST 87

PREDICTED 21-23 AUGUST 88/89/89

90-DAY MEAN 20 AUGUST 86

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 AUGUST 20

ESTIMATED AFR/AP 20 AUGUST 08/07

PREDICTED AFR/AP 21-23 AUGUST 08/10 - 08/10 - 08/10

SOLTERWARN

HFUS 3 BOU 211500
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO
SDF NUMBER 233B
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 21 AUG 1977

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. A NEW REGION 874 (S26E74)
HAS ROTATED ONTO THE DISK AND EARLY REPORTS INDICATE AN H TYPE
SPOT.

IB. SOLAR ACTIVITY WILL REMAIN VERY LOW TO LOW.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED AND SHOULD
REMAIN SO THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 21-23 AUG

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 AUG 87

PREDICTED 21-23 AUG 88/89/89

90-DAY MEAN 20 AUG 86

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 AUG 20

ESTIMATED AFR/AP 20 AUG 08/07

PREDICTED AFR/AP 21-23 AUG 08/10 - 08/10 - 08/10

SOLTERWARN

ATTN DR BENZ - ARECIBO

UFLAE 85303 70821 46822 07030 70331 30332 80335 46922 07020

70529 40532 80536

PLAIN

CULGOORA EVENING REPORT 21/0000-0735Z AUG 1977

GOOD OBSERVING CONDITIONS. TWO SUBFAINT FLARES OCCURRED IN THE
CENTRAL PLAGE OF REGION 864 (N22W71), ALONG WITH NUMEROUS PLAGE
FLUCTUATIONS. THE ARCH FILAMENT SYSTEM IS ALMOST GONE NOW AND
SPOT GROWTH MAY HAVE CEASED. THE MAIN TRAILING PENUMBRA CONTAINS
THREE UMBRAE, THE LEADER CONTAINS ONE LARGE DARK UMBRA, AND THERE
ARE NO SIGNIFICANT INTERMEDIATE SPOTS. SMALL SPOTS HAVE RE-APPEARED
IN REGIONS 867 (N27W43, A-TYPE) AND 870 (N21W06, B-TYPE). WEAK
FIELDS EXIST THROUGHOUT THIS AREA AND THE REDEVELOPMENT IS UNIM-
PRESSIVE SO FAR. REGION 873 (N21W28) CONTINUES TO DEVELOP SLOWLY
BUT REMAINS UNIMPRESSIVE. A FILAMENT AT N35W35 WAS ACTIVE 0453-

0700Z BUT DID NOT DISAPPEAR. A PLAGE ENHANCEMENT OCCURRED AT
S27E80 AT 0140Z. NO SPOTS ARE VISIBLE THERE SO FAR. LIMBS QUIET.
A WEAK TYPE ONE NOISE STORM HAS BEEN DETECTED AT 160 MHZ.
THIS STORM WAS LOCATED IN THE NORTHWEST QUADRANT AND IS BELIEVED
TO BE ASSOCIATED WITH REGION 864.

HFUS 1 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 233

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 21 AUG 1977

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. THE DISK AND LIMBS HAVE BEEN
QUIET. REGION 873 (N19W38) IS WEAK MAGNETICALLY, HOWEVER, IT IS
A REVERSED POLARITY GROUP WITH 9 SPOTS.

IB. SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW TO LOW. REGION 873
POSSESSES SOME ENERGETIC FLARE POTENTIAL WHICH WILL INCREASE
IF DEVELOPMENT CONTINUES.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED THE PAST 24
HOURS. THE FIELD IS FORECAST TO BE GENERALLY UNSETTLED THRU
THE PERIOD.

III. EVENT PROBABILITIES 22-24 AUG

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 AUG 89

PREDICTED 22-24 AUG 88/87/86

90-DAY MEAN 21 AUG 85

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 AUG 08

ESTIMATED AFR/AP 21 AUG 07/07

PREDICTED AFR/AP 22-24 AUG 08/08 - 08/08 - 08/08

SOLTERWARN

BT