

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 UNSETLED 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

RCAF              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 UNSETLED 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 (N 19W38) 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 UNSETLED THE PAST 24 HOURS. THE FIELD IS FORECAST TO BE GENERALLY UNSETLED 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