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HFUS 1 BOU 270545

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 271A

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 27 SEPTEMBER 1972

IA. SINCE 26/2200Z, REGION 414 (S03W11) PRODUCED A SUB-BRILLIANT  
FLARE (C9 XRAY FLARE) IP AT 26/2225Z. THIS FLARE PRODUCED SMALL  
RADIO BURSTS ON 1400 MHZ AND 2700 MHZ, AS WELL AS A GROUP OF  
TYPE III BURSTS.

IB. NO CHANGE

II. NO CHANGE

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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HFUS BOU 271250

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 271B

JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 27 SEPT 1972

IA. FIVE SUBFLARES HAVE BEEN REPORTED SINCE 26/1300Z INCLUDING  
A SUBFLARE BRIGHT FROM REGION 414 (S04W20) MAXING 26/2228Z. THIS  
FLARE WAS X-RAY CLASS C-9 AND PRODUCED SMALL RADIO BURSTS AT  
1400 MHZ AND 2700MHZ, AS WELL AS A GROUP OF TYPE III BURSTS.  
REGIONS 414/416 (S04W15) ARE STILL THE MOST IMPRESSIVE ON THE  
DIXC AND STILL HOLD ENERGETIC POTENTIAL, BUT DECAY HAS STARTED.  
REGION 412 (S14W58) HAS SHOWN DECAY, AND REGION 419 (N17W61) IS  
STILL GROWING SLOWLY. A NEW REGION HAS APPEARED AT N20E28. LIMBS  
HAVE BEEN QUIET.

IB. SUBFLARES SHOULD CONTINUE FROM 412 AND 414/416. M-CLASS  
FLARES MAY BE PRODUCED AS 414/416 BREAKS UP.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET EXCEPT FOR THE PERIOD  
27/0300-0630Z WHEN A SEQUENCE OF VERY SYMMETRIC, SINUSOIDAL  
OSCILLATIONS WERE NOTED ON THE BOULDER D TRACE. OSCILLATIONS HAD  
A PERIOD OF THIRTY TO FORTY-FIVE MINUTES AND A MAXIMUM AMPLITUDE  
OF THIRTY GAMMAS. QUIET GEOMAGNETIC CONDITIONS ARE EXPECTED  
THRU 28 SEPT.

III. EVENT PROBABILITIES 27-29 SEPT

CLASS M 50/50/50

CLASS X 03/03/03

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 SEPT 127

PREDICTED 27-29 SEPT 126/123/120

90-DAY MEAN 26 SEPT 121.9

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 SEPT 05

ESTIMATED 26 SEPT 06

PREDICTED 27-29 SEPT 06/07/10

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HFUS BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 271

JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 27 SEPTEMBER 1972

IA. SOLAR ACTIVITY HAS REMAINED LOW. FIVE SUBFLARES HAVE BEEN  
REPORTED WITHIN THE LAST 24 HOURS. THE MOST ENERGETIC WAS A  
CLASS C6 IMPORTANCE SB AT 26/2225Z IN REGION 414 /S04W26/. THIS  
FLARE PRODUCED SMALL CENTIMETRIC RADIO BURSTS /25 FLUX UNITS AT  
2700 MHZ/ AND INTENSITY 2 TYPE III EMISSION AT 22-500 MHZ.

IONOSPHERIC DISTURBANCE EFFECTS WERE MINOR. MARKED DECAY WAS  
NOTED IN THE TRAILING SECTION OF REGION 416 /S04W19/ EARLY IN  
THE DAY. THE LATEST OBSERVATIONS WITH THE BOULDER H-ALPHA SCOPE  
AND SPECTROGRAPH, HOWEVER, INDICATE THAT REGENERATION MAY BE  
TAKING PLACE IN THIS AREA WITH THE EMERGENCE OF A NEW BIPOLE.

IB. INFREQUENT CLASS M EVENTS ARE POSSIBLE FROM THE 414/416  
COMPLEX. ONLY NON-ENERGETIC ACTIVITY IS EXPECTED FROM OTHER  
REGIONS NOW ON THE VISIBLE DISK. NO RETURNING REGIONS ARE DUE  
BACK BEFORE 1 OCTOBER.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET EXCEPT FOR A PERIOD OF  
MILDLY UNSETTLED CONDITIONS 27/0300-0630Z. THE FIELD SHOULD  
BE QUIET TO MILDLY UNSETTLED FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 28 SEPT-30 SEPT.

CLASS M 50/50/50

CLASS X 02/02/01

PROTON 02/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 27 SEPT 121

PREDICTED 28-30 SEPT 117/113/110

90-DAY MEAN 27 SEPT 121.8

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 SEPT 07

ESTIMATED 27 SEPT 07

PREDICTED 28-30 SEPT 07/10/10

SOLTERWARN

SPAN

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