

HFUS 1 BOU 090500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 282A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0500Z 9 OCT 1974

IA. SUBFLARE ACTIVITY WITH ASSOCIATED CLASS C XRAY BURSTS CONTINUES  
FROM REGION 503 (N08E38), WHICH EXHIBITS CONTINUING SLOW GROWTH IN  
WHITE LIGHT. REGION 501 (S18W05) MAY BE FORMING A DELTA CONFIGURA-  
TION IN THE TRAILER. XRAY BACKGROUNDS REMAIN HIGH.

IB. MODERATE TO HIGH ACTIVITY LEVELS ARE EXPECTED. ENERGETIC ACTIVITY  
FROM REGION 503 IS A DEFINITE POSSIBILITY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO MILDLY UNSETTLED. SIMILAR  
CONDITIONS ARE EXPECTED UNTIL A RECURRENT DISTURBANCE BEGINS LATE ON  
10 OCTOBER.

III. EVENT PROBABILITIES NO CHANGE

IV. OTTAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES NO CHANGE

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HFUS 1 BOU 091430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 282B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1430Z 09 OCT 1974

IA. ALTHOUGH THERE HAVE BEEN NO CLASS M EVENTS (AS MEASURED BY  
GOES) DURING THE LAST 23 HOURS, THE POTENTIAL FOR ENERGETIC  
ACTIVITY REMAINS HIGH. REGION 503 (N08E34) STILL CONTAINS DELTA  
CONFIGURATIONS, AND ITS PLAGE REMAINS BRIGHT AND FLUCTUATING WITH  
SEVERAL SUBFLARES OBSERVED. REGION 501 (S18W09) HAS SHOWN SPOT  
GROWTH AND MAY NOW CONTAIN A DELTA CONFIGURATION IN ITS TRAILING  
PORTION. THIS REGION HAS ALSO PRODUCED OCCASIONAL SUBFLARES AND  
IS SHOWING CONTINUOUS BRIGHTENINGS TO NEAR FLARE INTENSITY.  
REGION 500 (N05E01) HAS ALSO SHOWN SOME SPOT GROWTH OVERNIGHT  
AND AT 09/0546Z A 0B FLARE WAS ACCOMPANIED BY A C6 X-RAY CLASS  
EVENT.

IB. THE CHANCE FOR ADDITIONAL ENERGETIC EVENTS FROM THE REGIONS  
DESCRIBED ABOVE REMAINS HIGH. AS THE REGIONS ROTATE FURTHER WEST,  
THE PROBABILITY OF A PROTON EVENT WILL INCREASE.

II. A GEOMAGNETIC DISTURBANCE, PERHAPS AN EARLY RETURN OF THE  
RECURRENT DISTURBANCE, BEGAN EARLY THIS ZULU DAY. MAJOR  
GEOMAGNETIC STORM CONDITIONS WERE OBSERVED AT HIGH LATITUDES  
BETWEEN 03-09Z AND MINOR STORM CONDITIONS CONTINUE. MINOR STORM  
CONDITIONS SHOULD CONTINUE AT HIGH LATITUDES WITH ACTIVE TO MINOR  
STORM CONDITIONS EXPECTED AT MID LATITUDES.

III. EVENT PROBABILITIES 09 - 11 OCT

CLASS M 75/75/75

CLASS X 30/30/30

PROTON 05/15/25

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 OCT 126

PREDICTED 09 - 11 OCT 131/130/126

90-DAY MEAN 08 OCT 88

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 OCT 07

ESTIMATED AFR/AP 08 OCT 07/09

PREDICTED AFR/AP 09 - 11 OCT 20/40 - 25/40 - 30/42

SOLTERWARN

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HFUS BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 282

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 09 OCT 1974

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS WITH NO CLASS M EVENTS INDICATED BY GOES. HOWEVER, REGION 503 (N08E27) REMAINS LARGE AND VERY COMPLEX WITH STRONG DELTA CONFIGURATIONS OBSERVED. REGION 501 (S17W16) SHOWED SOME SPOT GROWTH DURING THE LAST 24 HOURS AND HAS BEEN THE SOURCE OF SEVERAL SUBFLARES, BUT THE REGION HAS SIMPLIFIED MAGNETICALLY WITH A SIMPLE BETA CONFIGURATION OBSERVED. REGION 500 (N05W02) PRODUCED A 0B, X RAY CLASS C6 FLARE AT 09/0546Z, BUT HAS NOW SHOWN CONSIDERABLE SPOT DECAY WITH NO ADDITIONAL ACTIVITY. TYPE IV CONTINUUM AT DEKAMETRIC WAVELENGTHS CONTINUES.

IB. REGION 503 RETAINS A HIGH POTENTIAL FOR ENERGETIC ACTIVITY. AS THIS REGION ROTATES FURTHER WEST, THE CHANCE OF A PROTON EVENT WILL INCREASE.

II. THE EXPECTED RECURRENT GEOMAGNETIC STORM HAS APPARENTLY ARRIVED SOMEWHAT EARLIER THAN ORIGINALLY ANTICIPATED. MAJOR STORM CONDITIONS WERE OBSERVED AT HIGH LATITUDES BETWEEN 09/03Z-09Z. MINOR STORM CONDITIONS HAVE BEEN OBSERVED SINCE THEN AND SHOULD CONTINUE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 10 OCT - 12 OCT

CLASS M 75/75/75

CLASS X 30/30/30

PROTON 15/25/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 OCT 129

PREDICTED 10 OCT-12 OCT 128/126/124

90-DAY MEAN 09 OCT 88

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 OCT 07

ESTIMATED AFR/AP 09 OCT 27/44

PREDICTED AFR/AP 10 OCT-12 OCT 30/42 - 30/42 - 30/42

SOLTERWARN

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