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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 258  
JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 14 SEP 1972  
IA. SOLAR ACTIVITY HAS BEEN VERY LOW WITH ONLY ONE SMALL SUBFLARE  
REPORTED IN THE LAST 24 HOURS. ALL REGIONS APPEAR STABLE AND  
UNIMPRESSIVE.  
IB. SOLAR ACTIVITY SHOULD CONTINUE AT LOW LEVELS WITH VERY LITTLE  
CHANCE OF ENERGETIC EVENTS. THERE HAS BEEN VERY LITTLE LIMB  
ACTIVITY AND NO MAJOR REGIONS ARE FORECAST TO RETURN.  
II. THE GEOMAGNETIC STORM TAPERED OFF RAPIDLY AFTER 0700Z ON  
THE 14TH AFTER PRODUCING A MAXIMUM K VALUE OF 7 BETWEEN 03Z AND  
06Z, NEAR LOCAL MIDNIGHT. SINCE 07Z, THE GEOMAGNETIC FIELD HAS  
BEEN QUIET. THE GEOMAGNETIC FIELD SHOULD BE UNSETTLED MUCH OF  
THE PERIOD WITH SUBSTORM ACTIVITY NEAR LOCAL MIDNIGHT PRODUCING  
A MAXIMUM K VALUE OF 4 OR 5 ON THE 15TH WITH DECREASING ACTIVITY  
ON THE FOLLOWING TWO NIGHTS.  
III. EVENT PROBABILITIES 15 SEP-17 SEP.  
CLASS M 25/25/25  
CLASS X 01/01/01  
PROTON 01/01/01  
PCAF GREEN  
IV. OTTAWA 10.7 CM FLUX.  
OBSERVED 14 SEP 098  
PREDICTED 15 SEP-17 SEP 100/102/105  
90-DAY MEAN 14 SEP 124  
V. GEOMAGNETIC A INDICES.  
OBSERVED FREDERICKSBURG 13 SEP 025  
ESTIMATED 14 SEP 048  
PREDICTED 15 SEP-17 SEP 014/012/010

NOTE. BEGINNING WITH THIS MESSAGE REPORTS OF SOLAR GEOPHYSICAL  
ACTIVITY WILL BE ISSUED JOINTLY BY THE SPACE ENVIRONMENT SERVICES  
CENTER OF NOAA AND THE AEROSPACE ENVIRONMENTAL SUPPORT CENTER  
OF THE AIR WEATHER SERVICE. THE FORMAT OF THESE JOINT MESSAGES  
WILL BE AS FOLLOWS.

I. SUMMARY /IA/ AND FORECAST /IB/ OF CURRENT SOLAR ACTIVITY  
AND ITS PROMPT GEOPHYSICAL EFFECTS.

II. SUMMARY AND FORECAST OF GEOMAGNETIC ACTIVITY.

III. EVENT PROBABILITIES FOR NEXT 3 DAYS AND SIGNIFICANT  
POLAR CAP ABSORPTION FORECAST /PCAF/ FOR NEXT 24 HOURS.

IV. OBSERVED, PREDICTED, AND 90-DAY MEAN VALUES FOR  
THE OTTAWA 10.7 CM FLUX.

V. OBSERVED, ESTIMATED, AND PREDICTED VALUES FOR THE  
MID-LATITUDE GEOMAGNETIC A-INDEX.

A PROTON EVENT IS DEFINED AS AN ENHANCEMENT TO 10 TIME PRE-EVENT  
LEVEL OR GREATER IN THE 21-70 MEV PARTICLE FLUX AT SATELLITE  
ALTITUDES. SIGNIFICANT POLAR CAP ABSORPTION IS DEFINED AS  
ABSORPTION OF 2 DB OR GREATER AT 30 MHZ UNDER DAYLIGHT CONDITIONS.  
THE PCAF WILL BE COLOR CODED.

PCAF-GREEN INDICATES NO PCA EXPECTED.

PCAF-YELLOW INDICATES THAT A REGION JUDGED CAPABLE OF  
PRODUCING A SIGNIFICANT PCA IS PRESENT ON THE VISIBLE  
DISK OF THE SUN.

PCAF-RED INDICATES THAT AN ENERGETIC SOLAR EVENT HAS OCCURRED  
AND/OR PROTONS HAVE BEEN DETECTED BY SATELLITES AND  
A SIGNIFICANT PCA IS EXPECTED TO BEGIN WITHIN 24 HOURS.

PCAF-IN PROGRESS INDICATES A SIGNIFICANT PCA IN PROGRESS AT  
REPORT TIME.

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SPAN  
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