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HFUS BOU 142200

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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