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HXUS BOU 020710

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 245A ISSUED 0500Z 02 SEPT 1971
NO ENERGETIC FLARES ARE EXPECTED FROM THE PORE-LIKE SPOT
GROUPS VISIBLE ON THE DISK. ANOTHER MASSIVE ERUPTION
FROM BEHIND THE WEST LIMB REMAINS A DISTINCT POSSIBILITY
DURING THE NEXT 24 HOURS.

A. NO FLARES HAVE BEEN OBSERVED SINCE ABOUT 01/2100Z AND
WITH THE EXCEPTION OF AN ACTIVE PROMINENCE NEAR S10W90,
BOTH LIMBS HAVE BEEN QUIET TOO. INACTIVITY ALONG THE SUN'S
EASTERN EDGE LENDS FURTHER SUPPORT TO A BEYOND-THE-WEST-
LIMB SOURCE OF YESTERDAY'S GROUND LEVEL AND PCA EVENTS.
IF REGION 235 WAS INDEED THE ORIGIN OF THE GEOPHYSICAL
ACTIVITY DESCRIBED EARLIER AND BELOW, IT MUST BE KEPT IN
MIND THAT ITS CENTROID WAS APPROXIMATELY 2.3 DAYS BEHIND
THE LIMB. SINCE THE REGION SPANNED NEARLY 15 DEGREES IN
LONGITUDE, THE MASSIVE ERUPTION COULD HAVE TAKEN PLACE AS
FAR AS 37 DEGREES BEYOND THE LIMB OR AS CLOSE AS 23.
OPTICALLY ONLY A FAINT WISP OF MATERIAL WAS IN EVIDENCE
NEAR 235'S LATITUDE DURING THE TIME OF THE CM BURST.
PEAK ABSORPTION OCCURRED ABOUT 02/0115Z ON THE THULE
RIOMETER-A VALUE NEAR 2.2DB UNDER DAYLIGHT CONDITIONS. TWO
HOURS LATER THE MAXIMUM ABSORPTION HAD SHIFTED TO LOWER
LATITUDES, PRODUCING READINGS AS HIGH AS 3.5 AND 2.4DB
AT FORT YUKON AND COLLEGE RESPECTIVELY. AT THIS TIME THE
MOST COMPLETE PARTICLE DATA STEM FROM THE VELA SERIES OF
SATELLITES. A QUICK SUMMARY OF THEIR GREATER THAN 25 MEV
SENSORS READS AS FOLLOWS: ONSET SOMETIME BETWEEN 01/1900
AND 2000Z, MAXIMUM AT 2300Z WITH A FLUX OF APPROXIMATELY
2560 PART/CM2/SEC. AND A MOST RECENT DATA POINT 3 HOURS AGO
AT 2280 PART/CM2/SEC. NEAR CONTINUOUS STRIP CHART DATA
FROM THE ATS-1 SATELLITE GAVE AN APPROXIMATE DELAY
FROM THE ONSET OF THE RADIO BURST TO THAT OF THE PARTICLES
OF 30 MINUTES. SUBSEQUENT FLUXES AS RECORDED BY THIS
GEOSTATIONARY DEVICES'S 5-21 MEV CHANNEL HAVE BEEN CON-
SISTENT WITH GROUND LEVEL ABSORPTION. NEUTRON MONITOR COUNTING
RATES WERE AS HIGH AS 12 PERCENT ABOVE BACKGROUND SOME
2 HOURS AND 20 MINUTES FROM THE INITIAL INCREASE (01/2030Z).
THE RECORDED COUNTS PER TEN MINUTE INTERVAL REMAINED AT
10 PERCENT OR GREATER ABOVE THE QUIET DAY MEAN FOR MORE THAN
2 HOURS.

B. THE COSMIC EVENT IN PROGRESS SHOULD CONTINUE TO BE
DETECTED ON THE GROUND THROUGH THE REMAINDER OF THE DAY.
EARTH IS NOT EXPECTED TO INTERCEPT WHATEVER STORM PARTICLES
REGION 235 UNDOUBTEDLY PRODUCED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE
24 HOUR PERIODS BEGINNING 02 SEPT/0000Z ENDING 04 SEPT/2400Z.

CLASS M OR GREATER 02/05/05
CLASS X 00/00/00
PROTON EVENTS 100 (PCA IN PROGRESS)/00/00

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HFUS BOU 022200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 245B ISSUED 2200Z 02 SEP 1971
NO SIGNIFICANT FLARES EXPECTED.

A. THE PCA EVENT CONTINUES. SPECIFIC SATELLITE FLUX LEVELS ARE SPARSE, BUT FLUX LEVELS WERE DOWN TO ABOUT HALF THEIR MAXIMUM AT 1700Z IN THE 10-100 MEV RANGE. ATS-1 5-21 MEV FLUX WAS ABOUT 900 PARTICLES PER CM² SEC AT 1630Z. 21-70 ATS-1 ENERGY LEVELS ARE UNAVAILABLE. THE THULE 30 MHZ RIOMETER HAD 3.1 DB ABSORPTION LATE IN THE THULE DAYTIME PERIOD. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. NOMINAL DECAY OF THE PROTON EVENT IS EXPECTED. NO FLARES OF SIGNIFICANCE ARE EXPECTED ON THE SUN. UNSETTLED GEOMAGNETIC CONDITIONS ARE EXPECTED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 03 SEP/0000Z ENDING 05 SEP/2400Z.

CLASS M OR GREATER 05/05/05

CLASS X 00/00/00

PROTON EVENTS IN PROGRESS/00/00

D. OTTAWA 10.7 CM FLUXES FOR 02/1400Z, 02/1700Z AND 02/2000Z WERE 90, 88 AND 87 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 03-05 SEP IS 091/093/095.

E. MAGNETIC A-FREDERICKSBURG FOR 01 SEP WAS 11. FOR 02 SEP ABOUT 01. PREDICTED AP FOR 03-05 SEP, 08/08/08.

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