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HXUS BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

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SDF NUMBER 047 ISSUED 2200Z 16 FEBRUARY 1972

A. SOLAR ACTIVITY REMAINS HIGH. REGION 063 /S15W08/ AND 051 /S17W03/ HAVE DECREASED IN BOTH SUNSPOT AND HALPHA STRUCTURE. COMPANION REGION 061 /S20E05/ HAS CONTINUED ITS SLOW GROWTH BUT HAS SIMPLIFIED ITS STRUCTURE. REGIONS 057 /S06E32/ AND 064 /S09E34/ CONTINUE SLOW GROWTH WITH SOME INCREASE IN NEUTRAL LINE COMPLEXITY. REGION 066 /N13E76/ AND 067 /N09E75/ HAVE CROSSED EAST LIMB. REGION 067 IS A E TYPE SPOT GROUP, AREA 380 MILLIONTHS. THIS REGION HAS ALREADY PRODUCED THREE CLASS M EVENTS THIS ZULU DAY. A SN FLARE AT 1730Z, RESPONDING TO A DISAPPEARING FILAMENT, IN REGION 052 /N24E02/ GAVE A COMPLEX BURST OF 632 FU AT 1420MHZ AND AN INTENSE IMPULSIVE BURST OF 914 FU AT 1740Z ON 2695 MHZ. MODERATE DEKAMETRIC CONTINUUM /30-80 MHZ, 1736-1855Z/ AND A MODERATE 184 MHZ NOISE STORM ACCOMPANIED THIS EVENT. ANOTHER SIMPLE BURST OF 424 FU AT 1420 MHZ /1835Z/ OCCURRED WITH A SN FLARE FROM REGION 067. THIS REGION PRODUCED A SN FLARE /NEAR 1938Z/ WITH STRONG IONOSPHERIC PHASE SHIFTS AND SMALL MICROWAVE BURST, XRAY CLASS PRESENTLY UNKNOWN. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED.

B. ONE TO FOUR CLASS M EVENTS ARE EXPECTED PER DAY. A CLASS X AND/OR PROTON EVENT IS POSSIBLE BUT NOT PRESENTLY EXPECTED. THE GEOMAGNETIC FIELD IS EXPECTED TO BE SLIGHTLY UNSETTLED UNTIL 18 FEB AND THEN BECOME STRONGLY UNSETTLED TO ACTIVE.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 17 FEB/0000Z ENDING 19 FEB/2400Z.

CLASS M OR GREATER 95/95/95

CLASS X 15/20/20

PROTON EVENT 15/20/25

D. OTTAWA 10.7 CM FLUXES FOR 16/1400Z 1700Z AND 2000Z WERE 155, 157 AND 159. PREDICTED 10.7 CM FLUXES FOR 17-19 FEB ARE 160/163/165.

E. MAGNETIC A-FREDERICKSBURG FOR 15 FEB WAS 11. FOR 16 FEB ABOUT 06. PREDICTED AP FOR 17-19 FEB ARE 06/18/18.

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