JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 352 ISSUED AT 2200Z ON 18 DEC 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100Z TO 18/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 7635 (N02E25) PRODUCED A MODERATE DURATION B3/SN AT 18/1533Z. A SMALL B-CLASS GROUP EMERGED AT N12W53 AND WAS NUMBERED AS REGION 7638. YOHKOH X-RAY IMAGES ARE SHOWING A MODERATE ENHANCEMENT AT THE NORTHEAST LIMB WHERE OLD REGION 7624 IS DUE TO RETURN IN TWO DAYS.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE AT A VERY LOW LEVEL. THERE IS A REMOTE POSSIBILITY REGION 7635 COULD PRODUCE ANOTHER LONG DURATION C-CLASS FLARE AS IT DID ON 17 DEC.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z: THE GEOMAGNETIC FIELD WAS MOSTLY QUIET TO UNSETTLED. ISOLATED ACTIVE CONDITIONS WERE EXPERIENCED AT MID AND HIGH LATITUDE SITES AT VARIOUS TIMES.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BECOME ACTIVE ON 19 DEC IN RESPONSE TO A DISAPPEARING FILAMENT OBSERVED ON 14-15 DEC FROM THE SOUTHWEST QUADRANT. UNSETTLED TO ACTIVE LEVELS ARE EXPECTED ON 20 DEC WITH PRIMARILY UNSETTLED CONDITIONS FORECAST FOR 21 DEC.
III. EVENT PROBABILITIES 19 DEC-21 DEC
CLASS M 01/01/01
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 18 DEC 085
PREDICTED 19 DEC-21 DEC 085/086/087
90 DAY MEAN 18 DEC 098
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 17 DEC 018/016
ESTIMATED AFR/AP 18 DEC 013/015
PREDICTED AFR/AP 19 DEC-21 DEC 020/022-018/018-012/012
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 19 DEC-21 DEC
A. MIDDLE LATITUDES
ACTIVE 30/30/25
MINOR STORM 20/15/10
MAJOR-SEVERE STORM 05/05/01
B. HIGH LATITUDES
ACTIVE 35/30/25
MINOR STORM 20/15/10
MAJOR-SEVERE STORM 10/05/01