JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 273 ISSUED AT 2200Z ON 30 SEP 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/2100Z TO 30/2100Z: SOLAR ACTIVITY WAS LOW. TODAY'S ACTIVITY WAS CHARACTERIZED BY OCCASIONAL C-CLASS FLARES. ALL OF THESE WERE FROM REGION 7590 (N12E36). DESPITE THE LOW LEVEL OF FLARE ACTIVITY THE REGION CONTINUES TO BE IMPRESSIVE LOOKING: GROWTH AND INCREASE OF INTENSITY OF PLAGE WERE NOTED. THE GROUP STILL SHOWS A DELTA CONFIGURATION IN THE TRAILER AREA. THE 245-610 MHZ SOLAR RADIO EMISSION BANDS WERE NOISY AND DISPLAYED FREQUENT BURST ACTIVITY. A SMALL H-TYPE GROUP ROTATED AROUND EAST LIMB AT S10 AND WAS ASSIGNED 7592 (S10E79). THE REMAINING REGIONS ON THE DISK WERE STABLE AND QUIET.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. THE CONTINUED GROWTH OF REGION 7590 SUGGESTS INCREASED PROBABILITY FOR AN M-CLASS LEVEL EVENT. THERE IS A SLIGHT CHANCE FOR AN ISOLATED MAJOR FLARE.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 30/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE FROM THE BEGINNING OF THE PERIOD THROUGH ABOUT 1200Z. SINCE THEN CONDITIONS HAVE BEEN GENERALLY QUIET.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE TOMORROW BECOMING MOSTLY ACTIVE ON DAY TWO. THE PREDICTION FOR ACTIVITY ABOVE BACKGROUND IS BASED ON RECURRENCE PATTERNS. CONDITIONS SHOULD BE MOSTLY UNSETTLED BY DAY THREE.
III. EVENT PROBABILITIES 01 OCT-03 OCT
CLASS M 70/70/70
CLASS X 15/15/15
PROTON 15/15/15
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 30 SEP 121
PREDICTED 01 OCT-03 OCT 125/125/125
90 DAY MEAN 30 SEP 093
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 29 SEP 015/015
ESTIMATED AFR/AP 30 SEP 012/015
PREDICTED AFR/AP 01 OCT-03 OCT 020/012-020/025-010/010
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 01 OCT-03 OCT
A. MIDDLE LATITUDES
ACTIVE 35/35/15
MINOR STORM 15/15/10
MAJOR-SEVERE STORM 10/10/05
B. HIGH LATITUDES
ACTIVE 35/35/15
MINOR STORM 20/20/10
MAJOR-SEVERE STORM 10/10/05