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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 127
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 06 MAY 1984
    ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/2100
TO 06/2100Z: SOLAR ACTIVITY WAS LOW. REGION 4480 (N01E64)
REMAINED A SINGLE, LARGE HSX SPOT IN WHITE LIGHT
CLASSIFICATION. THE EVENTS ASCRIBED TO IT YESTERDAY SHOULD HAVE
BEEN ATTRIBUTED TO THE NEWLY NUMBERED REGION 4481 (NØ7E76)
WHICH WAS EAST-NORTH-EAST OF REGION 4480. REGION 4481 WAS A EKO
(WHITE LIGHT) CLASSIFICATION WITH 650 MILLIONTHS AREA, 10
SPOTS, 14 DEGREES LONGITUDENAL EXTENT, AND A BETA MAGNETIC
CONFIGURATION. IT HAD SURGING AND POINT BRIGHTENINGS IN
ADDITION TO THE SIX SMALL C-LEVEL X-RAYS AND SUB-FLARES. BRIGHT
TOP KNOTS WERE SIGHTED LATE IN THE PERIOD BUT NO LEGS WERE SEEN
TO QUALIFY AS LOOPS. ONE UNCONFIRMED REPORT OF BETA-GAMMA
CONFIGURATION AND MORE SPOTS YET TO ROTATE ONTO THE DISC
IMPLIED A SIGNIFICANT FUTURE. A FOUR DEGREE LONG FILAMENT
DISAPPEARED FROM S20E24 AT 6/0240-0250Z JUST PRECEDING A 0N
FLARE FROM REGION 4478 (S17E15). IT WAS .8 DEGREES WIDE AND
DRIENTED EAST-WEST. ANOTHER FILAMENT NEAR S29W33 AT 6/0901Z
ALSO DISAPPEARED BETWEEN THAT TIME AND 2000Z. THIS FILAMENT WAS
APPROXIMATELY FIVE BY FIVE DEGREES SQUARE.
     SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
MODERATE. REGION 4481 SHOULD PROVIDE ANY ACTIVITY AS WELL AS A
FAIR CHANCE OF HIGH LEVELS. IT PROBABLY IS THE RETURNING REGION
4471 (NØ4, CAR-153) WHICH ROTATED AROUND THE WEST LIMB AS A DAO
CLASSIFICATION WITH ONLY EIGHT SPOTS AND 270 MILLIONTHS AREA.
CONJECTURE THAT IT IS EITHER STILL GROWING SLOWLY AND WILL
CONTINUE TO PRODUCE ACTIVITY, OR THAT IT HAS PEAKED IN
AREA/SPOT GROWTH AND NOW DECREASING (WITNESS THE MAJOR LOOPS
AND ACTIVITY OF YESTERDAY) WILL SUPPORT CONTINUING ENERGETIC
EVENTS THROUGHOUT THE FORECAST PERIOD. RETURNING REGION 4468
(NØ8, CAR-142) IS ALSO PUSHING UP AGAINST THE BACK OF RGN 4481
AND MAY ACCOUNT FOR SOME OF THE FAR EAST-NORTH-EAST ACTIVITY.
     GEOPHYSICAL ACTIVITY SUMMARY FROM 05/2100Z TO 06/2100Z:
GEOMAGNETIC ACTIVITY WAS AT ACTIVE TO MINOR STORM LEVELS. STORM
LEVELS WERE REPORTED AT HIGH LATITUDES UNTIL 6/0900Z. THIS WAS
ATTRIBUTED TO RECURRING ACTIVE CARRINGTON LONGITUDES. NOTE THE
DISAPPEARING FILAMENTS FROM S20E24 AT 6/0245Z (MID-POINT OF
TIME) AND FROM 829W33 AT 6/1430Z (MID-POINT OF TIME).
      GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS
EXPECTED TO BE ACTIVE. MINOR STORM LEVELS MAY BE REPORTED AT
HIGH LATITUDES DURING NIGHT-TIME PERIODS. AN INCREASE TO MAJOR
STORM LEVELS AT HIGH (AND MINORS AT MID) LATITUDES ARE EXPECTED
ON THE THIRD DAY (9 MAY) AS THE EFFECTS OF THE DISAPPEARING
FILAMENTS SHOULD ENHANCE ACTIVITY.
    EVENT PROBABILITIES 07 MAY-09 MAY
CLASS M
          80/80/80
CLASS X
           25/25/25
PROTON
           05/05/05
PCAF
           GREEN
    OTTAWA 10.7 CM FLUX
IV.
                   Ø6 MAY
OBSERVED
                           106
PREDICTED 07 MAY-09 MAY
                           108/112/116
90 DAY MEAN
                   06 MAY 130
   GEOMAGNETIC A INDICES
OBSERVED AFR/AP Ø5 MAY Ø17/026
ESTIMATED AFR/AP 06 MAY 016/025
PREDICTED AFR/AP 07 MAY-09 MAY 010/015-010/015-015/020
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