HFUS 1 BOU 021300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 061A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 02 MAR 1982
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/1200Z TO 02/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS WITH ONLY SMALL C-CLASS X-RAY EVENTS BEING RECORDED. REGION 3625 (N14W08) APPEARS TO BE STABILIZING AND REGION 3628 (N17E10) IS DECAYING. REGION 3629 (S20E34) IS GROWING AND HAS INCREASED IN MAGNETIC COMPLEXITY. REGION 3631 (S13E34), WHICH SHARES A MAGNETIC INVERSION LINE WITH 3629, IS GROWING RAPIDLY AND HAS AN ARCH FILAMENT SYSTEM, A COMPACT, FLUCTUATING PLAGE, AND NEAR-CONTINUOUS BRIGHT POINTS. A FILAMENT WHICH WAS PRESENT ON THE H-ALPHA PHOTO FOR 28 FEB WAS NO LONGER PRESENT ON 01 MARCH. THIS FILAMENT WAS LOCATED ON 28 FEB ON A NEUTRAL LINE LYING EAST OF REGION 3618 (S07W49) AND CROSSING THE SOLAR EQUATOR. NEUTRAL LINE RESTRUCTURING APPEARS TO HAVE OCCURED.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW WITH THE POSSIBILITY OF AN ISOLATED M-CLASS FLARE FROM REGION 3625 OR 3629.
II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT MAJOR STORM LEVELS DURING THE PAST 24 HOURS. THE STORM BEGAN WITH AN SSC 01 MARCH AT 1139Z WHICH WAS SEEN 33 MINUTES EARLIER AT THE ISEE-3 SPACECRAFT. THIS DELAY TIME EXTRAPOLATES TO A SOLAR SOURCE EARLY ON 27 FEB, WHICH COINCIDES WITH A FILAMENT DISAPPEARANCE REPORTED BY CULGOORA, AUSTRALIA. THEY REPORTED A LARGE, DARK FILAMENT LOCATED FROM N20E30 TO N50E90 WHICH LIFTED AND DISSIPATED BETWEEN 01/0000Z AND 01/0140Z FORMING AN ARCH ABOVE THE LIMB VISIBLE OUT TO .15 R. THERE IS NO APPROPRIATE FLARE SOURCE OR ACTIVE REGION WHICH HAS RECENTLY CROSSED THE WEST LIMB. THERE IS NO CORONAL HOLE ASSOCIATION. ISEE-3 DATA INDICATES THAT THE INTERPLANETARY DISTURBANCE IS WEAKENING AND THE STORM IS EXPECTED TO END WITHIN THE NEXT 24 HOURS. HOWEVER, A NEW DISTURBANCE ORIGINATING WITH TODAY'S FILAMENT DISAPPEANCE IS EXPECTED TO IMPACT ON 04 MARCH AND SHOULD KEEP GEOMAGNETIC CONDITIONS ACTIVE THROUGHOUT THE FORECAST PERIOD.
III. EVENT PROBABILITIES 03 MAR-05 MAR

CLASS M	40/40/40
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED		01 MAR	236
ESTIMATED		02 MAR	235
PREDICTED	03 MAR-05 MAR		240/235/230
90 DAY MEAN		01 MAR	200

V. GEOMAGNETIC A INDICES

OBSERVED AFR	28 FEB	010	AP 01 MAR	045	
ESTIMATED AFR	01 MAR	050	AFR/AP 02 MAR	065/065	
PREDICTED AFR/AP	03 MAR-05 MAR	019/020-025/020-015/012			

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HFUS 3 BOU 022200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 061B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 02 MAR 1982
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200Z TO 02/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THIS PERIOD WITH ONLY SMALL C-CLASS EVENTS BEING RECORDED. THE LARGEST EVENT THIS PERIOD WAS A C5/SN 02 MAR 1842UT FROM REGION 3625 (N14W10). NO NEW REGIONS WERE OBSERVED TODAY.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THIS FORECAST PERIOD. REGIONS 3625 AND 3629 (S20E27) MAY PRODUCE AN ISOLATED M-CLASS EVENT IF RAPID CHANGE OCCURS IN THE REGIONS. LITTLE ACTIVITY HAS BEEN NOTED ON THE EAST LIMB.
II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT MAJOR STORM LEVELS DURING MOST OF THIS PERIOD. AURORA WAS OBSERVED AS FAR SOUTH AS 35 DEGREES NORTH DURING THE MAIN PHASE OF THE STORM. THE FIELD IS EXPECTED TO BE AT OR NEAR MINOR STORM LEVELS UNTIL EARLY ON 03 MARCH WHEN GENERALLY ACTIVE CONDITIONS ARE EXPECTED. A NEW DISTURBANCE IS EXPECTED TO ARRIVE ON 04 MARCH WITH ACTIVE TO MINOR STORM CONDITIONS WITH ACTIVE CONDITIONS EXPECTED FOR THE REST OF THE PERIOD.
III. EVENT PROBABILITIES 03 MAR-05 MAR
CLASS M 40/40/40
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. OTTAWA 10.7 CM FLUX 238
OBSERVED 02 MAR 238
PREDICTED 03 MAR-05 MAR 240/235/230
90 DAY MEAN 02 MAR 220
V. GEOMAGNETIC A INDICES 066
OBSERVED AFR/AP 01 MAR 076/045
ESTIMATED AFR/AP 02 MAR 070/090
PREDICTED AFR/AP 03 MAR-05 MAR 019/025-025/025-015/015
SOLTERWARN
BT
NNNZSV
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