

## **Unusual High Level Solar Activity, December 2006**

### **Sequence of Events for Region 0930.**

#### 5 December

Large sunspot region emerges around eastern limb and flares.  
Region numbered as 0930.

Flare M1.8

**Flare X9.1 (1035 UT)**      Large CME and Type II sweep. CME glancing the earth.  
Minor Geomagnetic response only.

#### 6 December

**Flare M1.2 (0803 UT)**      **Short Wave Fadeout (SWF) over Australasian regions.**

Flare M6 (0825 UT)      SWF over India and Central and Southern Africa.

**Flare X6.6 (1847 UT)**      Large CME and Type II sweep. CME glancing the earth.  
Minor Geomagnetic response only.

**SWF New Zealand, South America, Central America,  
USA, Hawaii, South East Pacific and Polynesia.**

#### 7 December

Flare M2 (1916 UT)      SWF South East Pacific

#### 11 December

**Region 0930 reaches Central Meridian (~12 UT)**

#### 13 December

**Flare X3.4 (0241 UT)**      Type II sweep. Full Halo Frontside CME observed.  
**SWF for approximately 2 hours over all Australasian  
regions, SE Asia, China, Indian Ocean, Micronesia and  
Polynesia.**

#### 14 December

**CME impacts earth at 14 UT** causing major/severe geomagnetic storms and disruption  
to HF communications for 24 hours.

**Flare X1.6 (2215 UT)**      Type II sweep. Asymmetric Frontside CME observed.  
**SWF for approximately 1 hour** over Pacific, New  
Zealand and Far Eastern Australian regions.

#### 16 December

Assymmetric CME impacts the earth at 17 UT causing active geomagnetic conditions for  
12 hours.

#### 18 December

**Region rotates to far-side of solar disk** as beta-gamma-delta declining in area.