

From KSWC's perspective



KSWC's Work Procedures

✓ We take actions according to NOAA SWx scales



✓ If level 3+ event occurs, we provide the press release for public

Send alert messages KSWC level (SMS/email/fax, automatic) Notify to key customers NOAA Report to the Ministry (phone call, forecaster) SWx 3 Ministry level Scales Press release Status updates at website Issue a national space Notify to related Ministries weather disaster alert (Defense, Transport, Communication, National level (by Space Weather Disaster Energy, Meteorological, Security...) Management Manual)

Issues in SWx Services

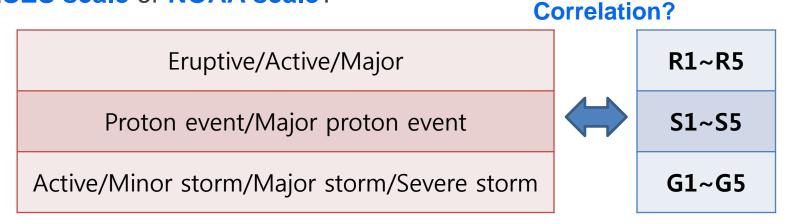
#1. Ambiguity in forecast information

#2. Too many frightened descriptions

#3. Lack of post event analysis

Issue #1: Ambiguity in forecasting

✓ ISES scale or NOAA scale?



✓ Probability number or Stop sign?

Geomagnetic A	Geomagnetic Activity		
Active	20/20/20		D1/D2/D3
Minor Storm	05/05/05	G1	GO/NG/NG
Major Storm	01/01/01	G2+	GO/NG/GO

Issue #1 : Ambiguity in forecasting How about using NOAA scale and probability for forecasting?

Institution (Input Time)	date -	Radio Blackouts (%)		Solar radiation Strom (%)	Geomagnetic Storms (mid-latitude) (%)		
		R1~R2	R3 or higher	S1 or higher	G1	G2 or higher	notes
BAO (Input time, (UT))	17						
	18						
	19						
IPS (Input time, (UT))	17						
	18						
	19						
SWPC (12:30(UT))	17						
	18						
	19						
NICT (Input time, (UT))	17						
	18						
	19						
KSWC (02:00(UT))	17	30	1	5	10	1	
	18	30	1	5	10	1	
	19	20	1	1	30	5	

Issue #2: Frightened descriptions





Huge solar flare shoots out particles at 3million mph as scientists predict weekend of powerful sunstorms

Scientists braced for 'solar tsunami' to hit earth

Scientists On High Alert: Massive Solar Flare Could Huge and Severe Damage The Power Grid

A Huge Solar Flare Will Bring The End Of The World In Months...

Issue #3: Post event analysis

- ✓ Collect disruption & damage information on the user sectors
- ✓ Evaluate the forecast & alert service quality on each event
- ✓ Share the information between RWCs.



