



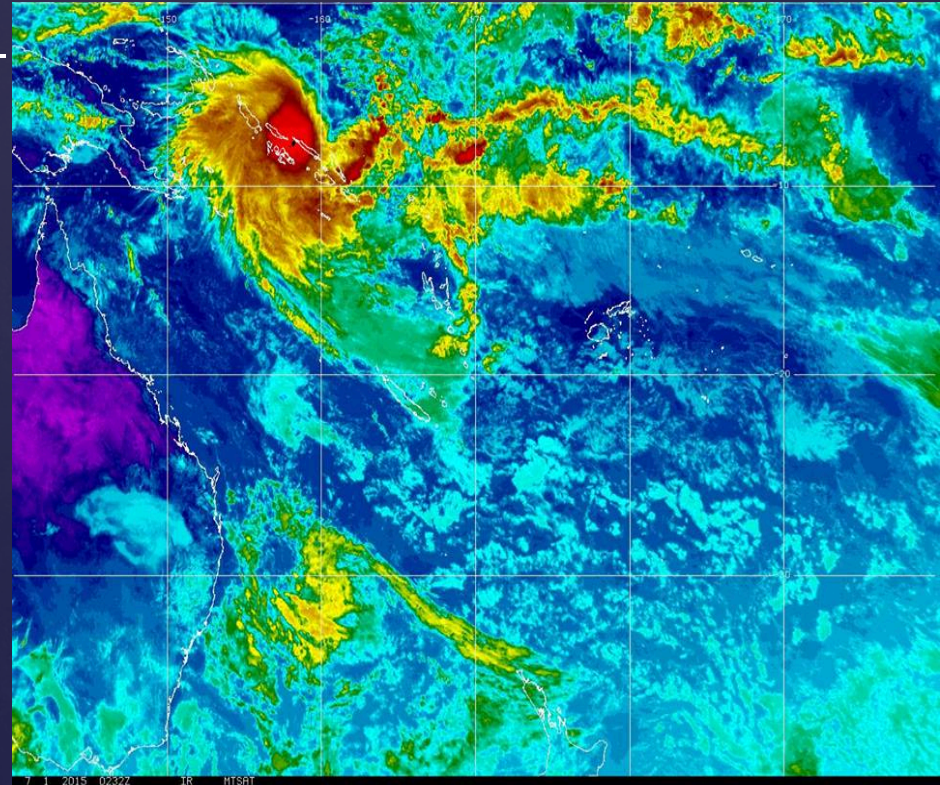
SIMS's expectations of new-generation satellites for hazard monitoring

6th Asia/Oceania Meteorological Satellite User Conference
Tokyo, Japan, 9 -13th November 2015

SIMS's top three hazards that can be monitored by satellite

HAZARD 1: TROPICAL CYCLONE

- ❖ TC RAQUEL (1st July 2015) – deaths stands at a total of eight (8) people
- ❖ 164 damage houses, 34 totally destroyed,
- ❖ Total of 1,047 communities affected, total population of 126,187 were affected.



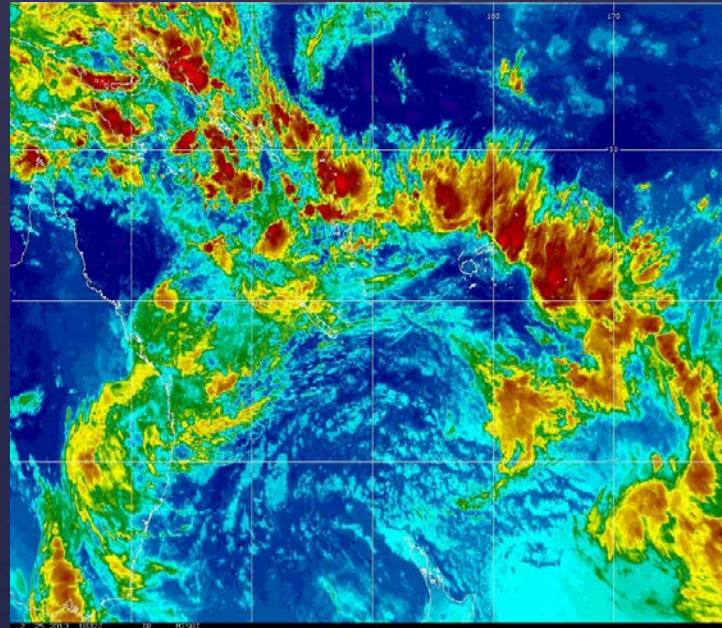
HAZARD 2: TORRENTIAL RAIN



- After torrential rain On 2nd and 3rd of April 2014 , severe flash flood affected the Solomon Islands, especially the capital Honiara and it left 22 people dead.
- 1,100 homes severely damage with 260 totally destroyed. Left around 10, 092 people homeless.

HAZARD 3: MONSOON ACTIVITY

- Flooding on low lying areas caused by heavy rain due to presence of a monsoon trough(26th February. 2013) .
Damage to homes, infrastructures and aviation hazards (cancellation of flights)



SIMS's expectations of new series of satellites for hazard monitoring

Hazard 1: tropical cyclones	<p>Multi-spectral bands: New signals derived from multi-spectral-band observations will support issuance of more effective warnings.</p>
Hazard 2: Torrential rain	<p>Multi spectral bands: New signals derived from multi-spectral band observation before extremely heavy rainfall are expected to be useful.</p> <p>High spatial resolution: These high resolution visible and infrared bands will help clarify atmospheric structure , hence we are able to identify areas of expected heavy rainfall.</p>

SIMS's expectations of new series of satellites for hazard monitoring

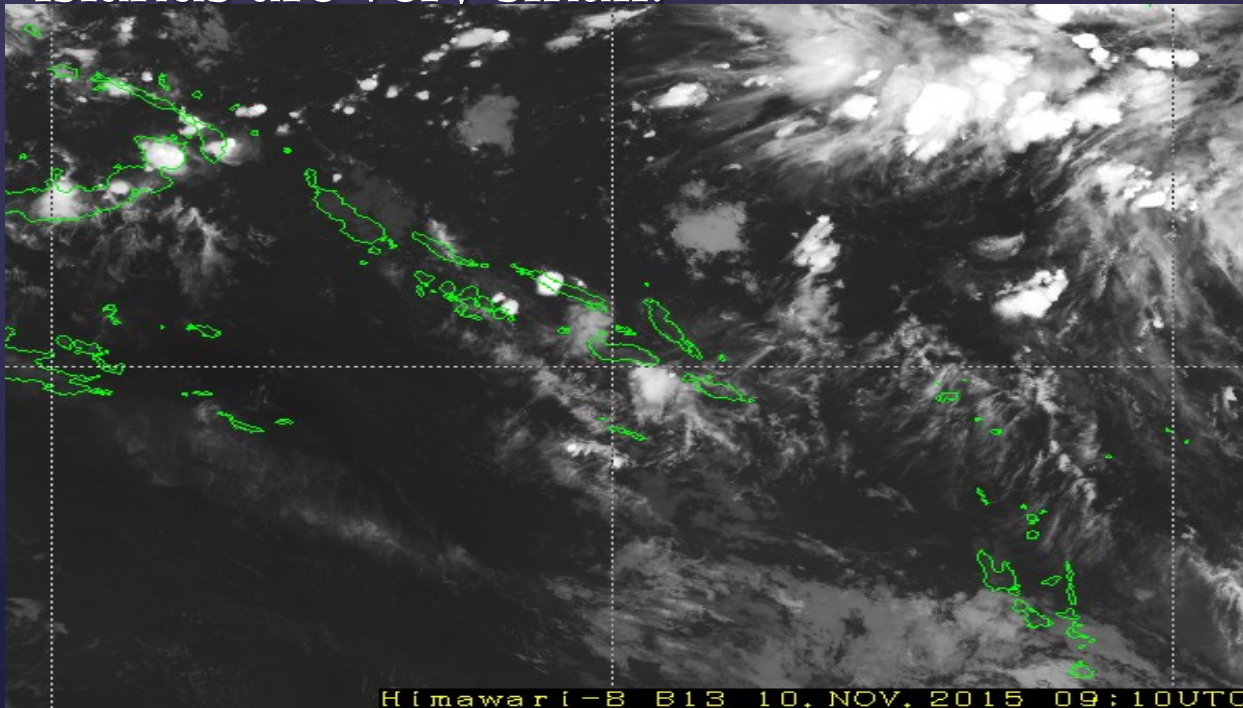
Hazard 3: Monsoon activity	<p>Rapid scanning: Data from rapid scanning observation will enable early detection of rapid cloud formations and or convections.</p> <p>High spatial resolution: These high resolution visible and infrared bands will help clarify atmospheric structure , hence we are able to identify areas of expected heavy rainfall.</p>

SIMS's requirements to get desired benefits from the new generation of satellites

Major hazard	Features of new generation GEO met. satellite
Hazard 1: tropical cyclones	Training in imagery analysis: <ul style="list-style-type: none">-Training would support the retrieval of new signals from multi-spectral band observation.-help forecasters to understand the different bands and identify features.
Hazard 2: Torrential rain	Easy-to-understand product: <ul style="list-style-type: none">- using a product made with multi-spectral band data that indicates new signals prior to extremely heavy rain.- Saves time and energy during severe weather events Training in imagery analysis:
Hazard 3: Monsoon activity	Easy-to-understand product: <ul style="list-style-type: none">-same as above Training in imagery analysis: <ul style="list-style-type: none">-same as above

SIMS's plans/expectations for utilization of new-generation geostationary meteorological satellite data

- ❖ Develop individual satellite sector over Solomon Islands domain (more higher resolution) since some of our islands are very small.



❖ Develop and integrate satellite data with other weather models and observations with overlaying capabilities (one stop shop)

❖ Improve Internet access and or other means of receiving satellite data without internet

❖ Satellite Training and education

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