# **SNG BURST HEIGHT RECORDS**

### Wong Shwei Lin



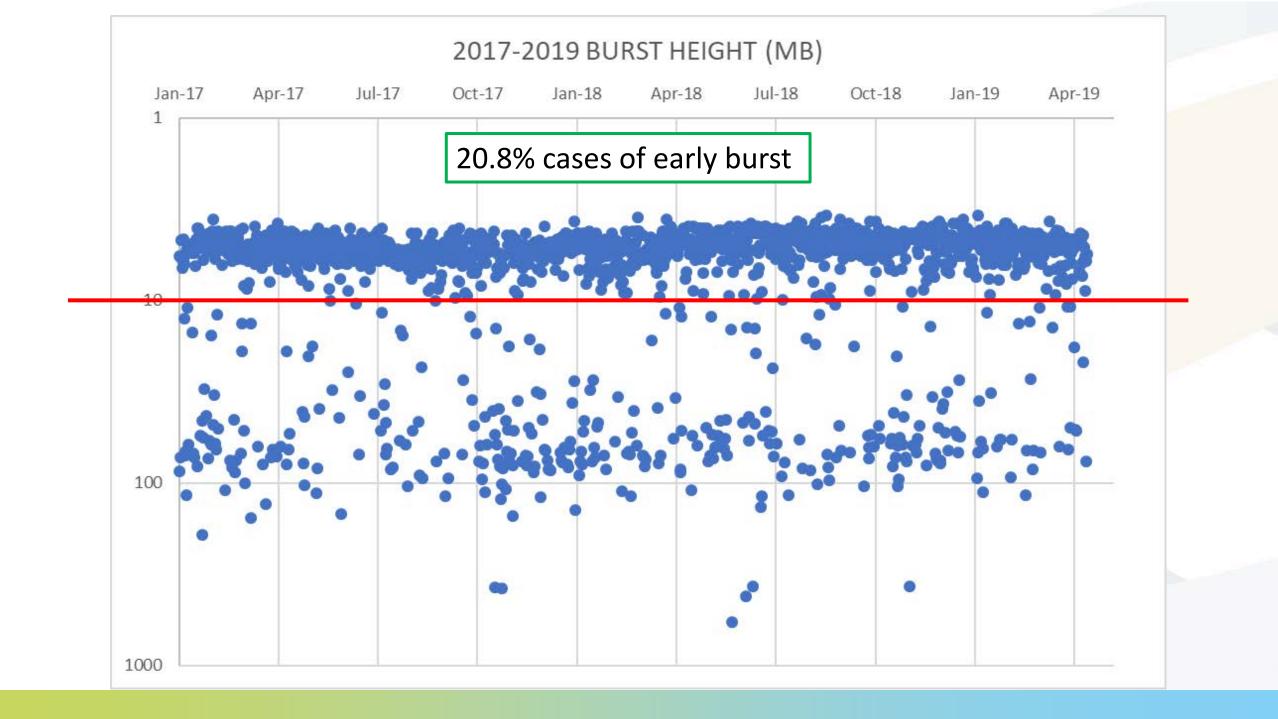
#### **SNG Setup**

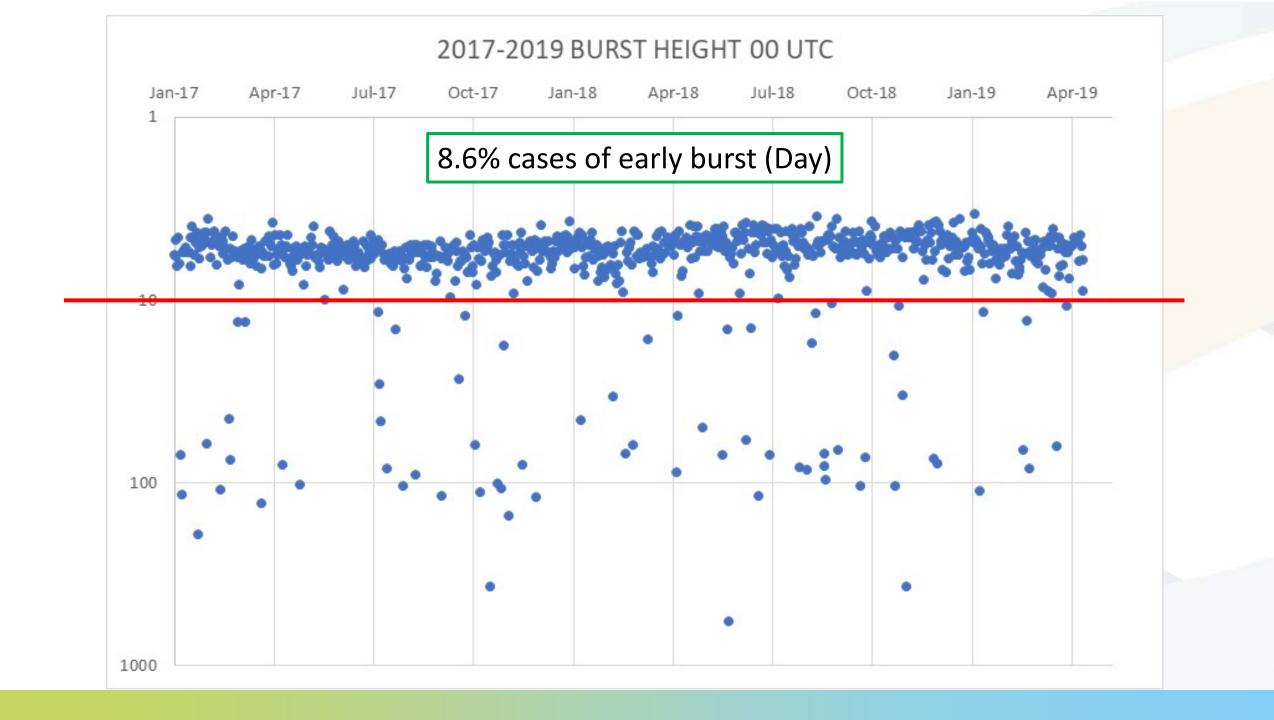
System:

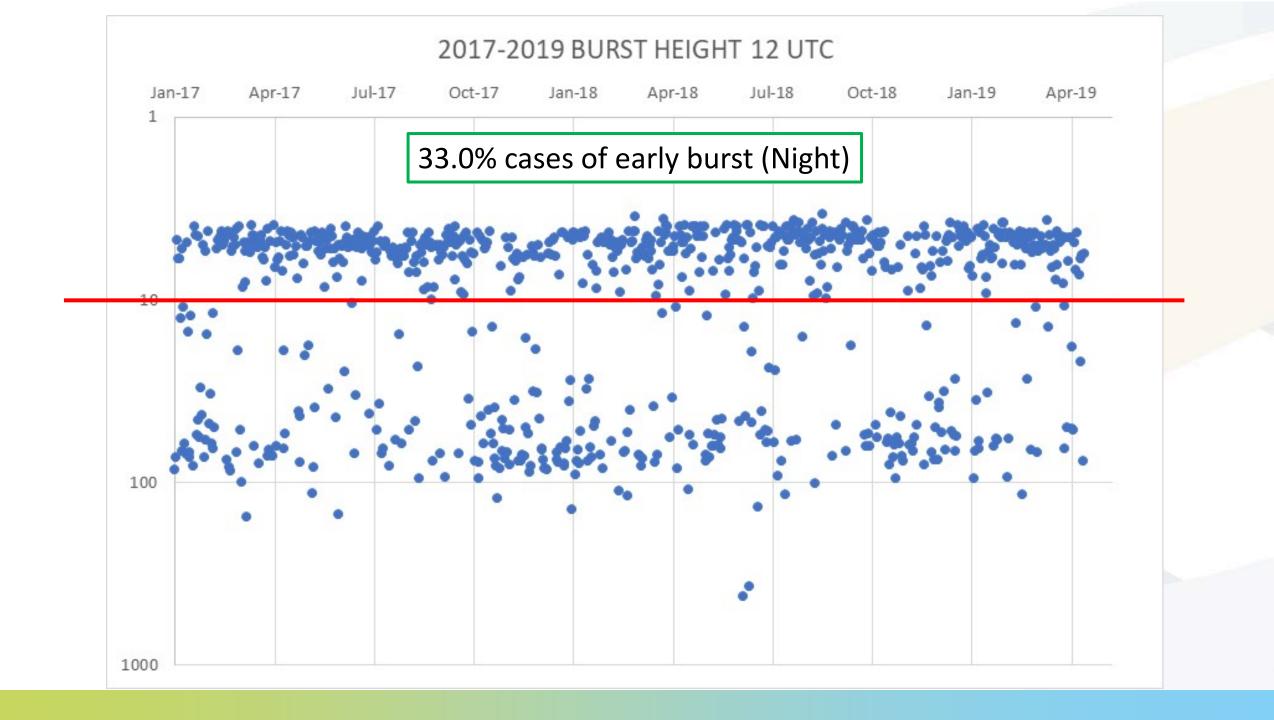
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Radiosonde – Vaisala RS41-SG (main); Graw DFM09 (backup)
Balloon – Totex TX1000 & TX1500
Ozonesonde – ECC SPC-6A
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GNSS – Trimble Alloy receiver, Zephyr 3 antenna
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Scheduling: Twice daily radiosonde releases Monthly ozonesonde releases Hourly GNSS with meteo-files transmission (1Hz obs)







#### **Quick look at data**

Day BE cases:	8.6%
Night BE cases:	33.0%

Mean 100hPA temperatures for BE cases: -80.6°C Mean 100hPA temperatures for the rest:

-80.1°C

\*Low clouds are observed ( $\geq 2$  Oktas): Day BE cases: 13.3% Night BE cases: 41.1%

\*Smaller datasets (314)

## Way Ahead

- Launch dual layer balloons during presence of significant low cloud cover
- Scientific evidence of efficacies of dual-layer balloons?
- Examine possible effects of IPWV over Singapore on premature bursts
- Suggestions?

