Summary of GRUAN Site Questionnaire

- R23 for CFH launches
- Helium
- Cloud observations
- Strategies on attaining burst altitude <10hPa
- Safety concerns on payload weight
- Parallel sounding data submission
- Descent data
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session “R23 replacement“ Wednesday 19-21 UTC

“Understanding the quality of radiosonde descent data” Bruce Ingleby in session “New Science” Thursday 14-16
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16 responses:

- Australia
- Beltsville
- Boulder
- Lauder
- Lindenberg
- Minamitorishima
- Ny-Ålesund
- Paris
- Payerne
- Potenza
- Réunion
- Singapore
- Sodankylä
- Syowa
- Tateno
- Tenerife
Use of helium / hydrogen?

- **helium**
- **hydrogen**
- **both**

Rising prices are an issue, not yet mission-critical.

mostly compressed gas bottles (only Australia generates on site)

*If you (a “helium-site“) are interested in experiences of a “hydrogen site“ – please contact TT Sites Chairs to establish contact.*
The diagram illustrates the status of cloud observations with a pie chart showing the percentage of locations reporting vs. those not reporting.

- **Reporting**
  - WMO code for cloud type and cloud fraction
  - Present weather description

- **Methodologies**
  - Visual observation
  - Sky imager
  - Ceilometer
  - Cloud radar

- **Standardized network-wide cloud treatment**

The projected GRUAN action item (C13) is indicated as follows:

→ *projected GRUAN action item (C13)*
Strategies on attaining burst altitude <10hPa

General Solution: Use of larger balloons
[e.g. Melbourne, Payerne, Potenza]

Polar regions / low temperature: Dipping of balloons in kerosene-based mixture
[e.g. Syowa, Davis, Ny-Ålesund]

Other approach needed: Require balloon manufacturers to improve
[e.g. Singapore, Tateno]

Justification of high ascent attainment

→ projected GRUAN action item (C16)
TT Sites  Action Item

Email ➔ Request to upload sites photos according to TN-9

*Site Photo Document Award*

promised to the first site to upload the photos
TT Sites  Action Item

Email → Request to upload sites photos according to TN-9

+ 

Site Photo Document Award

promised to the first site to upload the photos: SINGAPORE

Framed GRUAN photo artwork has been sent to Shwei Lin. Congratulations!
So far, only 9 stations have submitted their photos.

A photographic record of the site provides valuable metadata to both present and future users of GRUAN data.

How can the sites be supported in this?
- regular email reminders?
- include upload status to site report?
Sites Related GRUAN Topics

- helium / hydrogen
- cloud observation report
- high ascent attainment
- sites photos