Observations at Chinese stations during YOPP-SH

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Outline

• Radiosonde

• AWSs

• Future plan
1, Radiosonde at Dome-A and Zhongshan

- Kunlun station (Dome-A)
  - from 10\textsuperscript{th} Jan. 2019 to 20\textsuperscript{th} Jan. 2019
  - 21 radiosondes (twice daily at 06 UTC and 12 UTC)

- Zhongshan station
  - from 18\textsuperscript{th} Dec. 2018 to 10\textsuperscript{th} Feb. 2019
  - 55 radiosondes (once daily at 12 UTC)
  - data to GTS in real time
Kunlun station (Dome-A)

Zhongshan station

Zhongshan station

Zhongshan station
First soundings during 2018-19

First sounding (test) at Dome-A (Kunlun station)

First sounding at Zhongshan
Dome-A 21 Radiosondes combined

Temperature 0~5000m AGL

Temperature 0~100m AGL
Dome-A 21 Radiosondes combined

Wind Speed 0 ~ 10 km AGL

Surface wind direction
Zhongshan 55 Radiosondes combined

- **Temperature**
- **Wind Speed**
- **Specific Humidity**
- **Relative Humidity**
2, AWSs

- Inexpressible Island
  - 2 AWSs
- Panda-1100
- Panda-100
- Zhongshan

(Dome-A)
## Recent AWS installations

<table>
<thead>
<tr>
<th>AWS name</th>
<th>Longitude</th>
<th>Latitude</th>
<th>Elevation</th>
<th>Time of start</th>
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<tbody>
<tr>
<td>Inexpressible-island-1</td>
<td>163°39’57”E</td>
<td>74°56’19”S</td>
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<td>Inexpressible-island-2</td>
<td>163°42’33”E</td>
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<td>Panda-1100</td>
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<td>79°00’48”S</td>
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<td>Panda-100</td>
<td>76°39’14”E</td>
<td>70°13’02”S</td>
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AWSs at Inexpressible Island
Field work of the AWS Panda-100

Zhongshan
Kunlun (Dome-A)

Panda-100
Zhongshan
The AWS Panda-100 (starting 8th Feb. 2019)
3, Future Plan

• Regional Atmospheric Background Station on Dome A: 2020-2022

• more AWSs on traverse from Zhongshan to Dome-A, and at Inexpressible Island: 2021-

• UAV activities at Zhongshan: 2021-

• Aviation forecast for the fixed-wing aircraft traverse: 2021-
Fixed-wing of CHINARE (starting 2015)

Chinese National Antarctic Research Expedition (CHINARE)
Thank you!

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