Korean contribution for YOPP
SH SOP

June 27, 2019
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Jang Bogo
(74°37′S, 164°13′W)

King Sejong
(62°13′S, 58°47′W)

(Nov. to Feb.)
SOP activities at Korean Antarctic stations

• King Sejong Station (WMO #89251)
  – 92 daily radiosonde sounding from Nov 14, 2018 to Feb 14, 2019:
    once a day at 12UTC
    to make 2-times/day with Chilean Escudero station (00 UTC, Dr. Penny Rowe)
  – DFM09 of GRAW (German)
  – 24 soundings from Mar 14 to Nov 15
  – **GTS** from Oct 10. through Korea Meteorological Administration (KMA)
    (100hPa) IUKI01_RKSL_YYYYMMDDhhmm_89251.bfr
    (all) IUKI02_RKSL_YYYYMMDDhhmm_89251.bfr

• Jang Bogo Station (WMO #89859)
  – 86 daily radiosonde sounding from Nov 11, 2018 to Feb 11, 2019:
    once a day at 18UTC
    to make 4-times/day with Mario Zucchelli Station (00, 06, 12 UTC)
  – RS41 of Vaisala (Finland)
King Sejong Station

• Issues
  – failure of data transmission in very windy condition -> more helium
  – failure due to interference of neighboring new instrument -> fixed
  – DFM09 of GRAW (German)
King Sejong Station

2018.May09

2018.Jun27
Radiosonde launches during YOPP-SH SOP

Mean Tropopause ~9040 m; ABLH ~ 750 m
Jangbogo Station

Preliminary results in the talk by Wonseok Seo
Our view on SOP2

- Positive on SOP2
- King Sejong Station
  - 2020: (likely), possible from April, 60-days
  - 2021: (more feasible), possible from Jan 2021, 60~90 days
  - 12 UTC fits better than 00 UTC
- Jangbogo Station
  - 2020: (likely), determined by August
    cf. T.-J. Choi will serve as station leader from Nov. ‘19 to Oct ‘20
  - 2021: (positive but uncertain yet)

Funding for next three-year will be determined by Dec 2019

Thank you