## Instruments ( Surface Spectral Ultraviolet Radiation Data at Syowa Station )

Meteorological observatory (to 25th November 2016) Atmospheric science laboratory (tron 26th November 2016), to 31st January 2020) Fundamental observation building from 1st February 2020) SCLTEC Brewer MKII Spectrophotometer #034 (from February)  SCLTEC Brewer MKII Spectrophotometer #091 (from February)  SCLTEC Brewer MKII Spectrophotometer #091  SCLTEC Brewer MKII Spectrophotometer #094  SCLTEC Brewer MKII Spectrophotometer #034  SCLTEC Brewer MKII Spectrophotometer #034 (to January)  SCLTEC Brewer MKII Spectrophotometer #034 (to January)  SCLTEC Brewer MKII Spectrophotometer #168 (from February)  SCLTEC Brewer MKII Spectrophotometer #168 (mp February)  SCLTEC Brewer MKII Spectrophotometer #168  SCLTEC Brewer MKII Spectrophotometer #168 (from February)  SCLTEC Brewer MKII Spectrophotometer #168 (except September)  SCLTEC Brewer MKII Spectrophotometer #168 (except Selow)  Kipp & Zonen Brewer MKII Spectrophotometer #168 (except Selow)  Kipp & Zonen Brewer MKII Spectrophotometer #168  SCLTE	X/E A D	C + ITTL F C
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SCI-TEC Brewer MKIII Spectrophotometer #168(to January)  SCI-TEC Brewer MKII Spectrophotometer #091 (from February)  SCI-TEC Brewer MKIII Spectrophotometer #091(to January)  SCI-TEC Brewer MKIII Spectrophotometer #168 (from February)  SCI-TEC Brewer MKIII Spectrophotometer #168 (except September)  SCI-TEC Brewer MKIII Spectrophotometer #168 (except September)  SCI-TEC Brewer MKIII Spectrophotometer #168  SCI-TEC Brewer MKIII Spectrophotometer #168(to 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 2nd February)  Kipp & Zonen Brewer MKIII Spectrophotometer #168 (except below)  Kipp & Zonen Brewer MKIII Spectrophotometer #168  SCI-TEC Brewer MKIII Spectrophotometer #1	2003	SCI-TEC Brewer MKIII Spectrophotometer #168
SCI-TEC Brewer MKII Spectrophotometer #091 (from February)  SCI-TEC Brewer MKII Spectrophotometer #168 (from February)  SCI-TEC Brewer MKIII Spectrophotometer #168 (from February)  SCI-TEC Brewer MKIII Spectrophotometer #168  SCI-TEC Brewer MKIII Spectrophotometer #168  SCI-TEC Brewer MKIII Spectrophotometer #168 (except September)  SCI-TEC Brewer MKII Spectrophotometer #168  SCI-TEC Brewer MKIII Spectrophotometer #168(to 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 2nd February)  SCI-TEC Brewer MKIII Spectrophotometer #168 (except below)  Kipp & Zonen Brewer MKIII Spectrophotometer #168 (except below)  Kipp & SCI-TEC Brewer MKIII Spectrophotometer #168	2004	SCI-TEC Brewer MKIII Spectrophotometer #168
SCI-TEC Brewer MKII Spectrophotometer #091(to January)  SCI-TEC Brewer MKIII Spectrophotometer #168 (from February)  SCI-TEC Brewer MKIII Spectrophotometer #168  SCI-TEC Brewer MKIII Spectrophotometer #168  SCI-TEC Brewer MKIII Spectrophotometer #091 (September)  SCI-TEC Brewer MKII Spectrophotometer #091 (September)  SCI-TEC Brewer MKIII Spectrophotometer #168  2010 SCI-TEC Brewer MKIII Spectrophotometer #168  2011 SCI-TEC Brewer MKIII Spectrophotometer #168  2012 SCI-TEC Brewer MKIII Spectrophotometer #168(to 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 2nd February)  2013 SCI-TEC Brewer MKIII Spectrophotometer #168 (except below)  Kipp & Zonen Brewer MKIII Spectrophotometer #168 (except below)  SCI-TEC Brewer MKIII Spectrophotometer #168	2005	SCI-TEC Brewer MKIII Spectrophotometer #168(to January)
SCI-TEC Brewer MKIII Spectrophotometer #168 (from February)  SCI-TEC Brewer MKIII Spectrophotometer #168  SCI-TEC Brewer MKIII Spectrophotometer #168(to 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 2nd February)  Kipp & Zonen Brewer MKIII Spectrophotometer #168 (except below)  Kipp & Zonen Brewer MKIII Spectrophotometer #168 (except below)  SCI-TEC Brewer MKIII Spectrophotometer #168		SCI-TEC Brewer MKII Spectrophotometer #091 (from February)
SCI-TEC Brewer MKIII Spectrophotometer #168  SCI-TEC Brewer MKIII Spectrophotometer #1091 (September)  SCI-TEC Brewer MKIII Spectrophotometer #168  SCI-TEC Brewer MKIII Spectrophotometer #168(to 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 2nd February)  Kipp & Zonen Brewer MKIII Spectrophotometer #168 (except below)  Kipp & Zonen Brewer MKIII Spectrophotometer #168  SCI-TEC Brewer MKIII Spectrophotometer #249 (from 1st February)	2006	SCI-TEC Brewer MKII Spectrophotometer #091(to January)
SCI-TEC Brewer MKIII Spectrophotometer #168 (except September)  SCI-TEC Brewer MKII Spectrophotometer #091 (September)  SCI-TEC Brewer MKIII Spectrophotometer #168  2010 SCI-TEC Brewer MKIII Spectrophotometer #168  2011 SCI-TEC Brewer MKIII Spectrophotometer #168  2012 SCI-TEC Brewer MKIII Spectrophotometer #168 (to 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 2nd February)  2013 SCI-TEC Brewer MKIII Spectrophotometer #168 (except below)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 12th August to 30th August)  2014 SCI-TEC Brewer MKIII Spectrophotometer #168  2015 SCI-TEC Brewer MKIII Spectrophotometer #168  2016 SCI-TEC Brewer MKIII Spectrophotometer #168  2017 SCI-TEC Brewer MKIII Spectrophotometer #168  2018 SCI-TEC Brewer MKIII Spectrophotometer #168  2019 SCI-TEC Brewer MKIII Spectrophotometer #168  2020 SCI-TEC Brewer MKIII Spectrophotometer #168 (to 31st January)  Kipp & Zonen Brewer MKIII Spectrophotometer #249 (from 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #249 (from 1st February)		SCI-TEC Brewer MKIII Spectrophotometer #168 (from February)
SCI-TEC Brewer MKII Spectrophotometer #091 (September)  2009 SCI-TEC Brewer MKIII Spectrophotometer #168  2010 SCI-TEC Brewer MKIII Spectrophotometer #168  2011 SCI-TEC Brewer MKIII Spectrophotometer #168  2012 SCI-TEC Brewer MKIII Spectrophotometer #168 (to 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 2nd February)  2013 SCI-TEC Brewer MKIII Spectrophotometer #168 (except below)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 12th August to 30th August)  2014 SCI-TEC Brewer MKIII Spectrophotometer #168  2015 SCI-TEC Brewer MKIII Spectrophotometer #168  2016 SCI-TEC Brewer MKIII Spectrophotometer #168  2017 SCI-TEC Brewer MKIII Spectrophotometer #168  2018 SCI-TEC Brewer MKIII Spectrophotometer #168  2019 SCI-TEC Brewer MKIII Spectrophotometer #168  2020 SCI-TEC Brewer MKIII Spectrophotometer #168  2020 SCI-TEC Brewer MKIII Spectrophotometer #168 (to 31st January)  Kipp & Zonen Brewer MKIII Spectrophotometer #249 (from 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #249	2007	SCI-TEC Brewer MKIII Spectrophotometer #168
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2010 SCI-TEC Brewer MKIII Spectrophotometer #168 2011 SCI-TEC Brewer MKIII Spectrophotometer #168 2012 SCI-TEC Brewer MKIII Spectrophotometer #168(to 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 2nd February)  2013 SCI-TEC Brewer MKIII Spectrophotometer #168 (except below)  Kipp & Zonen Brewer MKIII Spectrophotometer #168 (except below)  2014 SCI-TEC Brewer MKIII Spectrophotometer #168 2015 SCI-TEC Brewer MKIII Spectrophotometer #168 2016 SCI-TEC Brewer MKIII Spectrophotometer #168 2017 SCI-TEC Brewer MKIII Spectrophotometer #168 2018 SCI-TEC Brewer MKIII Spectrophotometer #168 2019 SCI-TEC Brewer MKIII Spectrophotometer #168 2020 SCI-TEC Brewer MKIII Spectrophotometer #168 2020 SCI-TEC Brewer MKIII Spectrophotometer #168 2020 Kipp & Zonen Brewer MKIII Spectrophotometer #249 (from 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #249		SCI-TEC Brewer MKII Spectrophotometer #091 (September)
2012 SCI-TEC Brewer MKIII Spectrophotometer #168 2012 SCI-TEC Brewer MKIII Spectrophotometer #168(to 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 2nd February)  2013 SCI-TEC Brewer MKIII Spectrophotometer #168 (except below)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 12th August to 30th August)  2014 SCI-TEC Brewer MKIII Spectrophotometer #168  2015 SCI-TEC Brewer MKIII Spectrophotometer #168  2016 SCI-TEC Brewer MKIII Spectrophotometer #168  2017 SCI-TEC Brewer MKIII Spectrophotometer #168  2018 SCI-TEC Brewer MKIII Spectrophotometer #168  2019 SCI-TEC Brewer MKIII Spectrophotometer #168  2020 SCI-TEC Brewer MKIII Spectrophotometer #168  2020 SCI-TEC Brewer MKIII Spectrophotometer #168(to 31st January)  Kipp & Zonen Brewer MKIII Spectrophotometer #249 (from 1st February)  2021 Kipp & Zonen Brewer MKIII Spectrophotometer #249	2009	SCI-TEC Brewer MKIII Spectrophotometer #168
SCI-TEC Brewer MKIII Spectrophotometer #168(to 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 2nd February)  SCI-TEC Brewer MKIII Spectrophotometer #168 (except below)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 12th August to 30th August)  SCI-TEC Brewer MKIII Spectrophotometer #168  Kipp & Zonen Brewer MKIII Spectrophotometer #249 (from 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #249	2010	SCI-TEC Brewer MKIII Spectrophotometer #168
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2013 SCI-TEC Brewer MKIII Spectrophotometer #168 (except below)  Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 12th August to 30th August)  2014 SCI-TEC Brewer MKIII Spectrophotometer #168  2015 SCI-TEC Brewer MKIII Spectrophotometer #168  2016 SCI-TEC Brewer MKIII Spectrophotometer #168  2017 SCI-TEC Brewer MKIII Spectrophotometer #168  2018 SCI-TEC Brewer MKIII Spectrophotometer #168  2019 SCI-TEC Brewer MKIII Spectrophotometer #168  2020 SCI-TEC Brewer MKIII Spectrophotometer #168  2020 SCI-TEC Brewer MKIII Spectrophotometer #168(to 31st January)  Kipp & Zonen Brewer MKIII Spectrophotometer #249 (from 1st February)  2021 Kipp & Zonen Brewer MKIII Spectrophotometer #249	2012	SCI-TEC Brewer MKIII Spectrophotometer #168(to 1st February)
Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 12th August to 30th August)  2014 SCI-TEC Brewer MKIII Spectrophotometer #168  2015 SCI-TEC Brewer MKIII Spectrophotometer #168  2016 SCI-TEC Brewer MKIII Spectrophotometer #168  2017 SCI-TEC Brewer MKIII Spectrophotometer #168  2018 SCI-TEC Brewer MKIII Spectrophotometer #168  2019 SCI-TEC Brewer MKIII Spectrophotometer #168  2020 SCI-TEC Brewer MKIII Spectrophotometer #168  2020 SCI-TEC Brewer MKIII Spectrophotometer #168(to 31st January)  Kipp & Zonen Brewer MKIII Spectrophotometer #249 (from 1st February)  2021 Kipp & Zonen Brewer MKIII Spectrophotometer #249		Kipp & Zonen Brewer MKIII Spectrophotometer #209 (from 2nd February)
2014 SCI-TEC Brewer MKIII Spectrophotometer #168  2015 SCI-TEC Brewer MKIII Spectrophotometer #168  2016 SCI-TEC Brewer MKIII Spectrophotometer #168  2017 SCI-TEC Brewer MKIII Spectrophotometer #168  2018 SCI-TEC Brewer MKIII Spectrophotometer #168  2019 SCI-TEC Brewer MKIII Spectrophotometer #168  2020 SCI-TEC Brewer MKIII Spectrophotometer #168(to 31st January)  Kipp & Zonen Brewer MKIII Spectrophotometer #249 (from 1st February)  2021 Kipp & Zonen Brewer MKIII Spectrophotometer #249	2013	SCI-TEC Brewer MKIII Spectrophotometer #168 (except below)
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Kipp & Zonen Brewer MKIII Spectrophotometer #249 (from 1st February)  Kipp & Zonen Brewer MKIII Spectrophotometer #249	2019	SCI-TEC Brewer MKIII Spectrophotometer #168
2021 Kipp & Zonen Brewer MKIII Spectrophotometer #249	2020	SCI-TEC Brewer MKIII Spectrophotometer #168(to 31st January)
		Kipp & Zonen Brewer MKIII Spectrophotometer #249 (from 1st February)
2022 Kipp & Zonen Brewer MKIII Spectrophotometer #249	2021	Kipp & Zonen Brewer MKIII Spectrophotometer #249
	2022	Kipp & Zonen Brewer MKIII Spectrophotometer #249

Meteorological observatory
It was adjacent to the south of Fundamental observation building.
Ground level was 18m above mean sea level and the instruments height was 6m above ground level.

Atmospheric science laboratory
300m SE of Fundamental observation building and 10m above mean sea level and the instruments height was 6m above ground level.

Fundamental observation building
Ground level is 18m above mean sea level and the instruments height is 29m above ground level.