

Instrument	Manufacturer	Location	Start of operation	Observation mode
Active remote sensing of clouds and rain				
Ka-Band cloud radar (JOYRAD-35)	METEK	Jülich	2011	continuous
Micro rain radar (MRR-01)	METEK	Bonn	2008	continuous
Micro rain radar (MRR-02)	METEK	Bergheim	2008	continuous
Micro rain radar (MRR-03)	METEK	Bonn-Roleber	2008	continuous
Micro rain radar (MRR-04)	METEK	Jülich	2008	continuous
W-Band cloud radar (JOYRAD-94)	RPG	Jülich	2015	continuous
X-Band cloud radar (JOYRAD-10)	METEK	Jülich	2018	continuous
X-Band polarimetric radar (BoXPol)	EEC / Gamic	Bonn	2010	continuous
X-Band polarimetric radar (JuXPol)	EEC / Gamic	Sophienhöhe	2009	continuous
Passive remote sensing of clouds and rain				
K/V-Band Microwave radiometer (TOPHAT)	RPG	Jülich	2010	continuous
Microwave radiometer (ADMIRARI)	RPG	Bonn	2007	campaigns
Profiling of winds, humidity, aerosols and temperature				
Ceilometer (CHM15k-01)	Jenoptik/Lufft	Bonn	2011	continuous
Ceilometer (CHM15k-02)	Jenoptik/Lufft	Jülich	2013	continuous
Ceilometer (CT25k)	Vaisala	Jülich	2007	continuous
Doppler wind lidar (HALO)	HALO Photonics	Jülich	2012	continuous
Radiosondes	Graw			campaigns
Spectral and broadband solar and infrared sensors				
Infrared pyrometer (TOPHAT)		Jülich	2010	continuous
Infrared radiation (broadband)	Eppley / Kipp&Zonen	Bonn	2011	continuous
Infrared spectrometer (AERI)	ABB	Jülich	2011	continuous
Photovoltaic module (PVM)		Jülich	2016	(continuous)
Pyranometer (CMP21)	Kipp&Zonen	Jülich		continuous
Pyrgeometer (CGR4)	Kipp&Zonen	Jülich		continuous
Pyrheliometer (CHP1)	Kipp&Zonen	Jülich		continuous
Shadowband radiometer (MFRSR)	YES Inc.	Jülich	2015	continuous
Solar radiation (direct/diffuse)	Middleton	Bonn	1994	continuous

Sun photometer (Cimel)	Cimel	Jülich	2012	continuous
Total sky imager (TSI)	AXIS	Jülich	2009/2015	continuous

In-situ and mobile observations

Atmospheric pressure	Vaisala	Bonn	1995	continuous
Disdrometer (Parsivel-01)	OTT	Bonn	2011	continuous
Disdrometer (Parsivel-02)	OTT	Jülich	2013	continuous
Disdrometer (Thies-01)	Thies	Bonn	2007	continuous
Disdrometer (Thies-02)	Thies	Bonn	2007	continuous
Pluviometer (Pluvio-01)	OTT	Bonn	2010	continuous
Pluviometer (Pluvio-02)	OTT	Jülich	2014	continuous
Scintillometer (BLS900)	Scintec	Bonn	2009	continuous
Temperature/humidity (Humicap-01)	Vaisala	Bonn	2009	continuous
Temperature/humidity (Humicap-02)	Vaisala	Bonn	2009	continuous
Temperature/humidity (Psychro)	Theodor Friedrichs	Bonn	1994	continuous
Tipping rain gauge (Gauge)	Thies	Bonn	2001	continuous
Trailer			2014	campaigns
Wind speed and direction	Theodor Friedrichs	Bonn	1994	continuous