

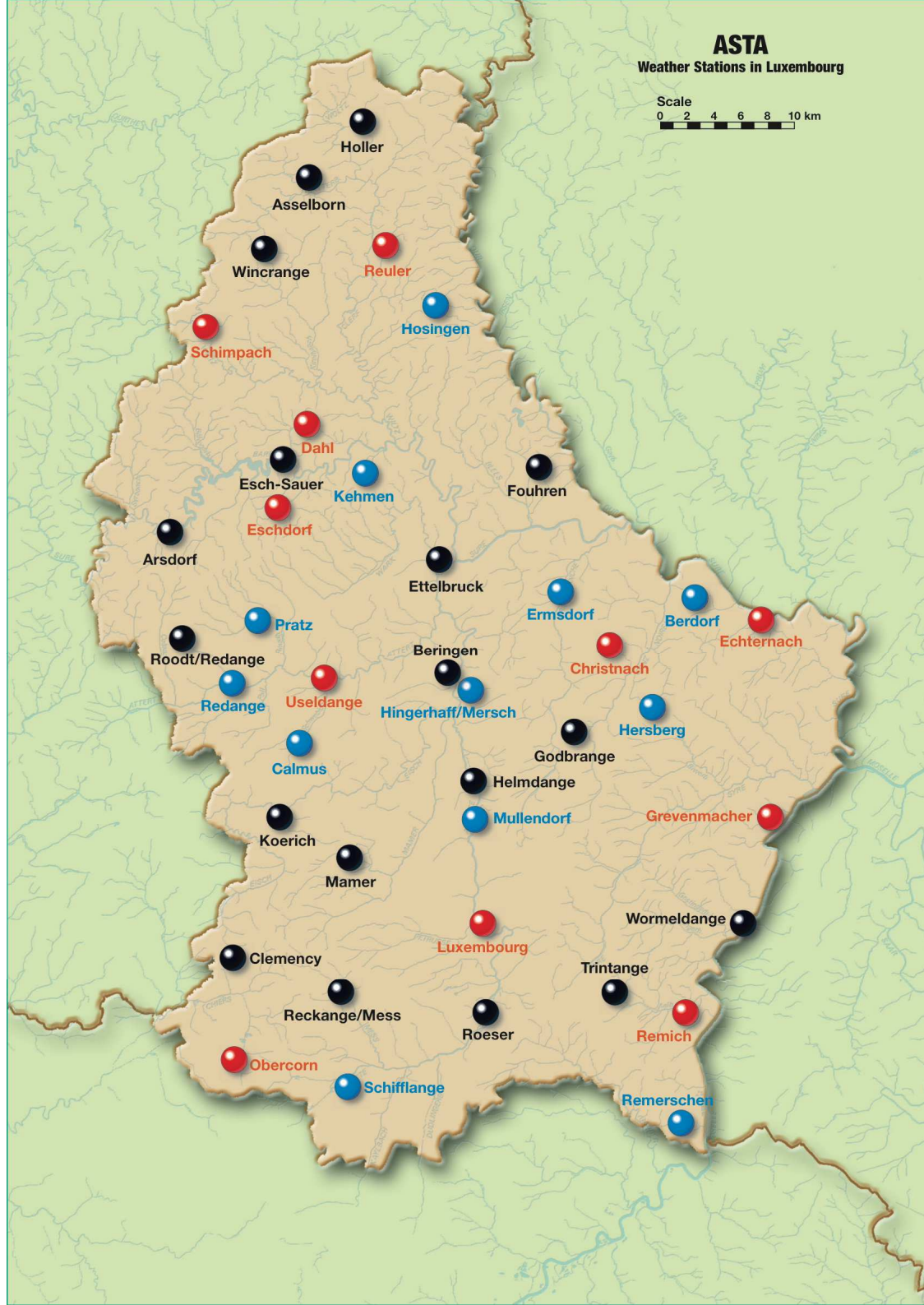


MINISTÈRE DE L'AGRICULTURE, DE LA VITICULTURE
ET DU DÉVELOPPEMENT RURAL

Administration des services techniques de l'agriculture



Administration des Services Techniques de l'Agriculture



Overview meteorological observation stations



Manually operated pluviometers

Berdorf
Calmus
Ermsdorf
Hosingen
Hersberg
Hingerhaff/Mersch
Kehmen
Müllendorf
Pratz
Redange
Remerschen
Schifflange



Secondary automatic meteorological stations

Arsdorf
Asselborn
Beringen
Clemency
Esch/Sûre
Ettelbruck
Fouhren
Godbrange
Helmdange
Holler
Koerich
Mamer
Reckange
Roeser
Roodt
Trintange
Wintrange
Wormeldange



Primary automatic meteorological stations

Christnach
Dahl
Echternach
Eschdorf
Grevenmacher
Luxembourg
Oberkorn
Remich
Reuler
Schimpach
Useldange

Metadaten

STATIONSNAME	OST (Y) LUREF	NORD (X) LUREF	STATIONSHÖHE	INBETRIEBNAHME	MESSGRÖSSE	BEZEICHNUNG	MESSTYP	EINHEIT	AUFLÖSU
ECHTERNACH	99810	965602	43m	01/07/2000	TEMP 2m	TP 2M	mittel	°C	10 min
winmoni 07	6.443379521369934	49.803102542100184			TEMP 2m	Max2M	maximum	°C	10 min
727279	E 06°26'35"	N 49°48'10"			TEMP 2m	Min2m	minimum	°C	10 min
ECHT					Temp + 5cm	TSMoy	mittel	°C	10 min
					Temp + 5cm	TSMay	maximum	°C	10 min
GPRS	62135362610	0.4.13.22:10000			Temp + 5cm	TSMay	minimum	°C	10 min
					Temp -5 cm	TP_05	mittel	°C	10 min
					Temp -15 cm	TP_15	mittel	°C	10 min
					Temp -30 cm	TP_30	mittel	°C	10 min
					Temp -50 cm	TP_50	mittel	°C	10 min
					Temp -1m	TP_1m	mittel	°C	10 min
					Niederschlag	Pluv.	Menge	mm/mq	10 min
					rel. Luftfeuchte	Hum.	mittel	%	10 min
					Windrichtung	DirVt	Mittel	360°	10 min
					Windgeschwindigkeit	VitVt	Mittel	m/s	10 min
					Windgeschwindigkeit	Rafal	Maximum	m/s	10 min
					Sonnenscheinintensität	Pyr.	Mittel	Watt/mq	10 min
statid 3					Sonnenscheindauer	Solar	Menge	Stunden	10 min
REULER	70579	1254774	92m	01/07/2000	TEMP 2m	TP 2M	mittel	°C	10 min
winmoni 09	6.036560654601999	50.06331401868402			TEMP 2m	Max2M	maximum	°C	10 min
	E 06°02'17"	N 50°03'44"			TEMP 2m	Min2m	minimum	°C	10 min
REUL					Temp + 5cm	TSMoy	mittel	°C	10 min
					Temp + 5cm	TSMay	maximum	°C	10 min
GPRS	621 357 539	10.4.13.30:10000			Temp + 5cm	TSMay	minimum	°C	10 min
					Temp -5 cm	TP_05	mittel	°C	10 min
					Temp -15 cm	TP_15	mittel	°C	10 min
					Temp -30 cm	TP_30	mittel	°C	10 min
					Temp -50 cm	TP_50	mittel	°C	10 min
					Temp -1m	TP_1m	mittel	°C	10 min
					Niederschlag	Pluv.	Menge	mm/mq	10 min
					rel. Luftfeuchte	Hum.	mittel	%	10 min
					Windrichtung	DirVt	Mittel	360°	10 min
					Windgeschwindigkeit	VitVt	Mittel	m/s	10 min
					Windgeschwindigkeit	Rafal	Maximum	m/s	10 min
					Sonnenscheinintensität	Pyr.	Mittel	Watt/mq	10 min
					Sonnenscheindauer	Solar	Menge	Stunden	10 min
					Luftdruck QNH	Press	Mittel	hPa	10 min
statid 1					Schneehöhe	Neige	maximum	cm	10 min
REMICH	93514	678562	07 m	25/12/2002	TEMP 2m	TP 2M	mittel	°C	10 min
winmoni 03	6.354936361312866	49.54518545205513			TEMP 2m	Max2M	maximum	°C	10 min
	E 06°21'19"	N 49°32'42"			TEMP 2m	Min2m	minimum	°C	10 min
REMI					Temp + 5cm	TSMoy	mittel	°C	10 min
					Temp + 5cm	TSMay	maximum	°C	10 min
GPRS	62145015010	0.4.13.23:10000			Temp + 5cm	TSMay	minimum	°C	10 min
					Temp -5 cm	TP_05	mittel	°C	10 min
					Temp -15 cm	TP_15	mittel	°C	10 min
					Temp -30 cm	TP_30	mittel	°C	10 min
					Temp -50 cm	TP_50	mittel	°C	10 min

Parameters

Temperature

qty.	sensor	station	active since	East (WGS 84)	North (WGS 84)	alt
29	air temp. 2m average	Echternach	01/07/2000	6.443379521369934	49.803102542100184	243 m
	air temp. 2m. min	Reuler	01/07/2000	6.036560654601999	50.06331401868402	492 m
	air temp. 2m. max	Remich	25/12/2002	6.354936361312866	49.54518545205513	207 m
	rel. air humidity	Merl	01/07/2000	6.091559529304504	49.61294537475866	307 m
	rain	Oberkorn	01/07/2000	5.90089738368988	49.51230580713626	378 m
		Grevenmacher	02/06/2004	6.435413360595703	49.6808758344955	190 m
		Schimpach	01/07/2000	5.847459554634042	50.00932529881125	379 m
		Useldange	22/02/2001	5.9674859046936035	49.767396708710294	280 m
		Christnach	11/02/2008	6.240148544311523	49.78725001992424	349 m
		Eschdorf	07/05/2007	5.93660831451416	49.878756954989015	520 m
		Holler	08/05/2007	6.046616435050964	50.12204715416913	457 m
		Ettelbruck	15/07/2004	6.0975489020347595	49.85172125025982	202 m
		Godbrange	02/07/2004	6.235690712928772	49.73637304152957	325 m
		Koerich	16/07/2004	5.9452879428863525	49.67938327464582	262 m
		Mamer	02/03/2005	6.019306182861328	49.633538986548174	315 m

Windspeed and direction

qty.	sensor	station	active since	East (WGS 84)	North (WGS 84)	alt
10	wind direction	Echternach	01/07/2000	6.443379521369934	49.803102542100184	243 m
	wind speed average	Reuler	01/07/2000	6.036560654601999	50.06331401868402	492 m
		Remich	25/12/2002	6.354936361312866	49.54518545205513	207 m
		Merl	01/07/2000	6.091559529304504	49.61294537475866	307 m
		Oberkorn	01/07/2000	5.90089738368988	49.51230580713626	378 m
		Grevenmacher	02/06/2004	6.435413360595703	49.6808758344955	190 m
		Schimpach	01/07/2000	5.847459554634042	50.00932529881125	379 m
		Useldange	22/02/2001	5.9674859046936035	49.767396708710294	280 m
		Christnach	11/02/2008	6.240148544311523	49.78725001992424	349 m
		Eschdorf	07/05/2007	5.93660831451416	49.878756954989015	520 m

Soil temperature

qty.	sensor	station	active since	Longitude (WGS 84)	Latitude (WGS 84)	alt
12	air temp. 5cm	Echternach	01/07/2000	6.443379521369934	49.803102542100184	243 m
	soil temp. -30 cm	Reuler	01/07/2000	6.036560654601999	50.06331401868402	492 m
	soil temp. -50 cm	Remich	25/12/2002	6.354936361312866	49.54518545205513	207 m
	soil temp. -100 cm	Merl	01/07/2000	6.091559529304504	49.61294537475866	307 m
		Oberkorn	01/07/2000	5.90089738368988	49.51230580713626	378 m
		Grevenmacher	02/06/2004	6.435413360595703	49.6808758344955	190 m
		Schimpach	01/07/2000	5.847459554634042	50.00932529881125	379 m
		Useldange	22/02/2001	5.9674859046936035	49.767396708710294	280 m
		Christnach	11/02/2008	6.240148544311523	49.78725001992424	349 m

Networks, procedures, dissemination, archival, analyses

ASTA

Data handling, processing, dissemination

- Measurement intervals at 10 min
- Automatic data transfers (AGRIMETEO)
- Data validation as part of cooperation with CRP-GL
- Free near-realtime data availability via web-interface

Lux. NC 2-5 ref.:

VIII / p. 241f

NC IDR checklist ref.:

I-9 / Tab. 18&21 / p. 16ff

Slide source:

ASTA



Networks, procedures, dissemination, archival, analyses

ASTA

Data usage, agrometeorology

Lux. NC 2-5 ref.:

VIII / p. 241f

NC IDR checklist ref.:

I-9 / Tab. 18&21 / p. 16ff

Slide source:

ASTA

- Forecasting / Early warning systems: reduction of natural disasters on agriculture
- Direct links
 - Geoportal (<http://www.geoportal.lu>)
 - Rheinland-Pfalz DLR
 - Ponts et Chaussées
 - Step (Le Syndicat intercommunal pour l'exploitation de la station d'épuration de Bettembourg et pour la réalisation de toutes activités de recyclage et de gestion économique)
 - Isip (Informationssystem Integrierte Pflanzenproduktion)
 - LUWG (Landesamt für Umwelt, Wasserwirtschaft und Gewerbeaufsicht)
- Convention with “Dienstleistungszentrum Ländlicher Raum Rheinhessen-Nahe- Hunsrück (DLR RNH)”, prevention of diseases
 - Fruit-growing: apple scab
 - Viticulture: Plasmopara viticola (Peronospora) and Oidium
 - Apiculture : Varroa
- SENTINELLE research project with CRP-GL