

Fumaroles Location

	DR01	DR02	DR03	DR04	DR05	DR06	TIF01	PZN_L01	PZN_L02	PZN_L03	PZN_L04	AGR_05	AGR_06	MNU_01	MNU_02	MNU_03	MNU_04	MNU_05	PZN_H01	PZN_H02	PZN_H03
Latitude	40.721721°	40.721721°	40.722128°	40.722128°	40.722128°	40.722128°	40.720001°	40.736790°	40.736790°	40.736790°	40.736790°	40.737027°	40.737027°	40.735940°	40.735940°	40.735940°	40.735594°	40.735594°	40.735785°	40.735785°	40.735785°
Longitude	13.878800°	13.878800°	13.879470°	13.879470°	13.879470°	13.879470°	13.879726°	13.885419°	13.885419°	13.885419°	13.885419°	13.885986°	13.885986°	13.880814°	13.880814°	13.880814°	13.879280°	13.879280°	13.887895°	13.887895°	13.887895°

Fumaroles - Tmax (°C) - Thermal camera

Thermal camera	DR01	DR02	DR03	DR04	DR05	DR06	TIF01	PZN_L01	PZN_L02	PZN_L03	PZN_L04	AGR_05	AGR_06	MNU_01	MNU_02	MNU_03	MNU_04	MNU_05	PZN_H01	PZN_H02	PZN_H03
January 2016					84.5	80.8	62.3	89.6	17.2	35.2	71.0	91.5	98.6	96.1	91.6	93.7			75.3	81.1	21.2
February 2016	95.8	85.3	94.8	101.6	97.8	78.1	59.1	96.1	42.1	26.6	92.2	94.1	98.8	98.8	98.3	97.7	90.9	90.4	92.5	83.8	23.0
March 2016	97.6	96.0	94.0	99.0	92.5	80.0	61.4	96.3	43.4	24.2	91.8	90.1	97.0	98.4	93.6	97.5	92.2	90.9	89.6	67.5	21.6
April 2016	97.3	82.3	95.8	98.7	94.4	79.0	61.8	96.7	51.3	30.8	95.8	93.9	97.2	98.1	96.6	98.0	90.6	91.7	87.1	58.1	26.7
May 2016	82.8	58.9	94.5	97.9	89.2	76.4	65.1	98.0	49.2	29.3	89.8	91.8	95.8	98.6	97.2	97.6	88.7	91.2	88.7	68.1	27.7
June 2016	69.3	71.6	97.5	97.8	96.3	91.3	63.4	97.6	57.3	41.9	79.2	96.4	94.5	95.5	97.6	98.2	90.1	90.7	80.9	70.1	41.9
July 2016	75.0	98.0	98.1	99.0	97.8	74.6	66.4	98.2	89.9	89.0	94.6	94.0	95.8	97.5	97.5	97.0	89.2	89.8	84.0	68.0	33.4
August 2016	92.8	76.1	97.3	99.0	99.3	80.0	69.7	98.1	72.4	53.5	95.6	97.0	96.7	98.3	98.3	98.6	90.3	89.1	93.2	85.2	42.2
September 2016	86.5	78.9	97.6	99.0	96.7	76.4	67.8	95.6	46.4	27.6	92.9	98.1	97.0	98.4	98.2	98.3	90.2	89.6	88.9	76.6	28.1
October 2016	81.2	71.0	96.6	99.0	86.0	85.0	69.2	94.9	43.8	30.1	45.0	96.7	93.7	98.2	98.4	97.5	89.0	88.9	86.5	76.1	28.8
November 2016	76.6	74.0	97.6	98.9	96.8	83.1	65.5	92.4	97.9	98.7	86.4	97.0	95.4	98.4	98.4	98.2	90.3	89.2	95.2	88.3	24.8
December 2016	64.1	51.6	96.1	101.0	88.3	91.4	63.1	95.4	26.8	23.4	41.7	97.2	94.7	96.3	97.1	97.5	90.1	90.0	72.2	73.7	19.0
January 2017																					
February 2017																					
March 2016																					
April 2017																					
May 2017																					
June 2017	96.9	97.5	97.7	97.9	98.4	94.6	64.6	99.8	98.2	94.5	94.5	96.4	95.5	99.1	97.4	99.3	92.3	91.0	96.6	90.2	39.1
July 2017	95.0	92.6	98.2	99.1	97.9	98.3	67.8	99.7	82.5	46.8	96.5	95.0	96.7	99.1	98.2	98.7	91.6	90.3	93.9	87.8	32.1
August 2017																					
September 2017	90.5	75.0	92.2	99.6	81.0	94.7	67.8	95.2	49.9	35.7	49.1	97.3	94.5	98.4	94.2	95.0	92.9	90.2	84.6	81.2	29.9
October 2017	85.7	72.6	88.7	99.7	94.5	94.3	68.5	95.5	96.4	88.1	75.6	96.5	93.7	97.6	92.3	97.6	92.1	91.2	89.7	87.5	24.6
November 2017	80.0	64.7	95.1	99.7	95.3	93.1	67.5	89.9	50.0	36.2	38.0	97.8	96.0	97.7	95.9	95.0	92.6	90.7	77.9	75.1	21.4
December 2017																					
median value	82.8	76.1	96.6	99	95.35	80	64.25	96.2	47.8	30.45	90.8	95.25	96.25	98.25	97.55	97.65	90.2	90	87.9	74.9	27.2
Altitude (m a.s.l.)	290	290	310	310	310	310	370	270	270	270	270	252	252	320	320	320	295	295	390	390	390

Fumaroles - Tmax (°C) - Thermocouple

Thermocouple	DR01	DR02	DR03	DR04	DR05	DR06	TIF01	PZN_L01	PZN_L02	PZN_L03	PZN_L04	AGR_05	AGR_06	MNU_01	MNU_02	MNU_03	MNU_04	MNU_05	PZN_H01	PZN_H02	PZN_H03
January 2016																					
February 2016	98.0	98.3	98.5	94.9	98.5	94.2	60.7	93.1	44.0	30.9	98.4	92.0	98.2	97.9	97.5	97.8	90.7	89.7	91.0	93.6	22.0
March 2016	98.1	97.9	97.9	97.6	98.3	93.2	64.2	98.5	48.5	30.7	98.5	98.6	98.5	97.5	97.4	97.3	91.4	90.5	97.6	90.0	28.8
April 2016	98.3	98.0	98.3	92.4	98.5	91.8	64.6	97.6	53.3	38.5	98.6	97.3	98.5	96.5	96.8	97.1	91.8	91.3	97.6	96.4	31.1
May 2016	92.4	94.7	98.9	82.4	99.2	89.9	65.6	95.0	45.4	36.1	95.9	98.4	98.2	96.7	96.4	86.8	91.5	91.6	98.0	72.6	32.6
June 2016	90.3	98.3	97.6	98.3	98.6	98.6	64.8	95.8	64.2	47.8	98.7	98.5	98.3	96.6	97.1	96.3	89.2	90.6	96.8	96.0	38.7
July 2016	92.3	98.6	98.7	98.4	98.7	95.5	69.5	97.8	94.6	98.4	98.4	98.1	98.0	97.5	97.4	98.3	90.5	90.5	98.8	97.8	37.1
August 2016	97.4	98.0	93.7	98.9	98.6	85.7	70.9	97.3	79.4	70.9	98.5	97.8	97.2	97.1	96.5	97.4	89.6	90.2	98.2	87.2	36.5
September 2016	89.3	95.7	98.9	98.4	98.0	98.1	70.5	90.4	54.5	41.7	98.7	98.3	98.3	97.6	97.2	97.5	89.0	89.3	97.3	91.9	36.6
October 2016	98.8	97.4	98.4	99.1	70.0	98.7	65.9	88.7	60.1	46.7	87.3	98.5	97.6	97.0	96.8	97.5	89.0	89.2	98.4	95.8	37.5
November 2016	97.5	96.9	98.1	98.3	98.2	97.9	66.4	97.9	97.2	97.4	97.0	98.3	98.3	98.0	97.5	97.5	89.4	86.1	98.4	97.8	32.4
December 2016	71.3	75.0	98.6	98.6	97.8	96.5	64.5	90.2	37.8	33.2	87.1	96.4	98.4	97.3	96.7	94.7	88.0	88.0	96.0	89.9	28.9
January 2017																					
February 2017																					
March 2016																					
April 2017																					
May 2017																					
June 2017	98.2	98.6	98.5	98.4	98.4	98.4	61.0	97.5	97.8	97.8	97.8	97.7	97.8	97.1	97.6	97.4	90.8	90.0	97.1	97.3	38.7
July 2017	97.7	98.0	98.2	98.5	98.2	98.2	65.6	96.9	84.5	61.6	97.6	97.8	97.7	97.0	97.0	97.3	90.6	88.2	98.4	94.5	41.2
August 2017																					
September 2017	98.2	97.4	93.5	98.5	96.2	98.8	68.3	95.4	64.1	49.0	92.5	97.9	98.0	97.7	97.5	97.6	91.6	88.9	96.9	76.7	40.3
October 2017	96.7	97.2	98.5	97.9	95.3	98.0	68.0	97.9	98.1	98.3	97.8	98.5	98.3	97.1	97.3	97.9	90.7	90.7	98.0	94.4	35.1
November 2017	90.1	90.8	97.2	98.7	95.4	92.1	68.5	94.6	68.1	54.4	80.0	98.4	98.0	97.6	97.6	98.1	91.5	90.6	95.7	91.2	29.0
December 2017																					
median value	97.4	97.9	98.4	98.3	98.5	95.5	65.6	95.8	54.5	41.7	98.4	98.3	98.3	97.3	97.1	97.4	89.6	90.2	97.6	93.6	32.6
Altitude (m a.s.l.)	290	290	310	310	310	310	370	270	270	270	270	252	252	320	320	320	295	295	390	390	390

Note: Maximum temperature of fumaroles acquired with both the thermal camera and the thermocouple for the entire monitoring period. The location of the measurement points can be also seen on figure 2 of the manuscript.