

Supplementary Material to:

“Systematic investigation of bromine monoxide in volcanic plumes from space by using the GOME-2 instrument”

by Hörmann et al. 2012

This document contains:

- 1) A detailed discussion on the determination of the SO₂ SCD threshold of 1×10^{18} molec/cm² for the combined SO₂ product in case of major volcanic eruptions (Sect. 3.5).
- 2) The daily maps of GOME-2 SO₂ and BrO data for all volcanic plumes that have been found to show evidence for the abundance of volcanic BrO in the time period from January 2007 – June 2011. The volcanic plumes were categorized in three different categories, each one representing a different class of BrO to SO₂ relationship (see Sect. 5 and Tab. 3-5 in the paper). Like in the paper, the maps show the offset corrected SO₂ and BrO SCDs of all satellite ground pixels in the regarded area (left row) and the extracted plume pixels with SO₂ SCDs $> 3\sigma^*$ (right row). Additionally the correlation plots for the linear fit are shown.
- 3) The main results from the SO₂ and BrO analysis for all 772 systematically extracted volcanic plumes listed in tabular form, including the event number, the corresponding volcano, the measurement date, max. BrO SCD [molec/cm²], max. SO₂ SCD the coincidence of max. SO₂ and BrO SCD in the same GOME-2 ground pixel, the BrO/SO₂ slope from the linear fit, the ratio of the max. SO₂ and BrO SCD and the coordinates of the regarded area.

Determination of the SO₂ SCD threshold for the combined SO₂ product

For the determination of the SO₂ SCD threshold above which the SO₂ AR (326.5-335.3 nm) is used instead of the SO₂ SR (312.1-324 nm), we took advantage of the experiences from a case study on the influence of different SO₂ evaluation wavelength ranges for the Kasatochi eruption in 2008 (Bobrowski et al., 2011).

Figure 1 shows both the SO₂ SCDs for the SR and AR within the volcanic plume of Kasatochi during the first 4 days of the eruption as detected by GOME-2. It is clearly visible that the SO₂ SCDs for the AR are much larger for a major part of the individual measurements on each day. However, as the 1:1 slope indicates, the differences are generally small for SCDs below $\sim 1 \times 10^{18}$ molec/cm². For the different days different relationships are found, mainly by two processes:

- 1) The volcanic aerosols are gradually removed from the plume, which leads to changes in the envelope's curvature and the formation of individual „branches“ in the correlation plots, probably caused by different aerosol amounts (Bobrowski et al., 2011).
- 2) The SO₂ concentration inside the plume decreases, so that the differences in the SO₂ SCDs between the SR and AR become smaller.

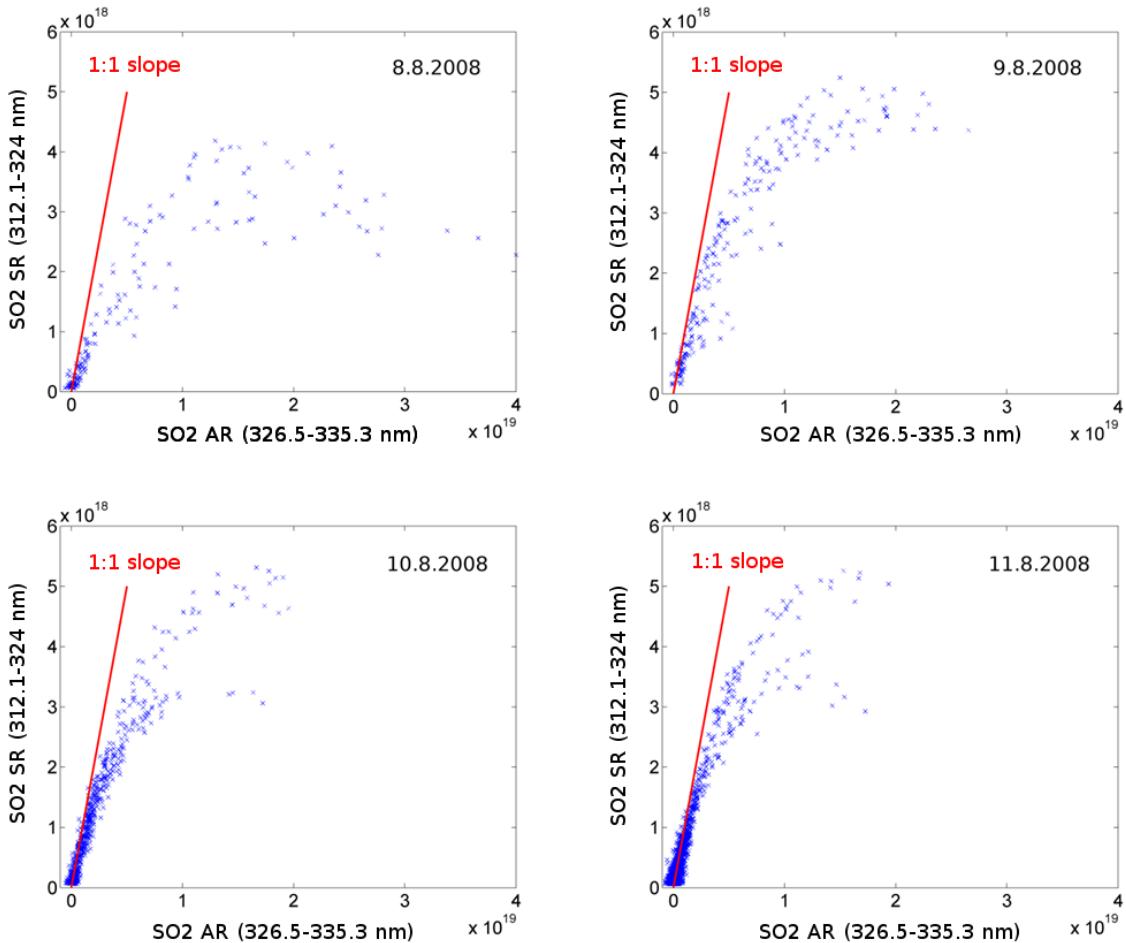


Figure 1: SO₂ SCDs for the SO₂ SR (312.1-324 nm) vs. the SO₂ AR (326.5-335.3 nm) during the first 4 days of the Kasatochi eruption in August 2008. While generally much larger SCDs are found for the SO₂ AR, a linear relationship between both retrievals can be observed for SO₂ SCDs up to $\sim 1 \times 10^{18}$ molec/cm².

To demonstrate how well the SO_2 SCDs for both retrievals merge into each other for the combined SO_2 product, Figure 2 shows the SCDs for the SO_2 SR (red) and the combined retrieval (blue). To show the consistency of the transition from the SO_2 SR to AR, the data were sorted in increasing order by the SO_2 SCDs from the SR. For lower SCDs, the red and the blue points are identical, as they represent all measurements where the results from the SR were taken into account for the combined product.

Figure 2 shows that the SCDs for both evaluation schemes merge seamlessly into each other (best seen in the lower two panels). The differences within the transition area between SO_2 SR and AR at $\sim 1 \times 10^{18}$ molec/cm² are relatively small. Here, the SCD values for the AR scatter around the SCDs for the SR. On the one hand this is caused by the reduced sensitivity of the alternative fit range (and thereby a larger fit error), on the other hand by the differences in the SCD due to reduction of non-linear retrieval effects. For larger SCDs in the SO_2 SR, these differences get more and more pronounced. Once again it can be seen that the presence of volcanic aerosols results in a large scatter of the data, which is decreasing with time as the aerosols are gradually removed from the plume.

Generally, it should be noted that the Kasatochi eruption is a rather extreme example, because the plume contained an extraordinary large amount of aerosols. For volcanic plumes during similar strong eruptions but with less aerosols, the scatter and underestimation of SO_2 SCDs $< 1 \times 10^{18}$ molec/cm² is supposed to be less pronounced. Nevertheless, a fixed threshold of 1×10^{18} molec/cm² remains a good solution for the majority of all investigated cases.

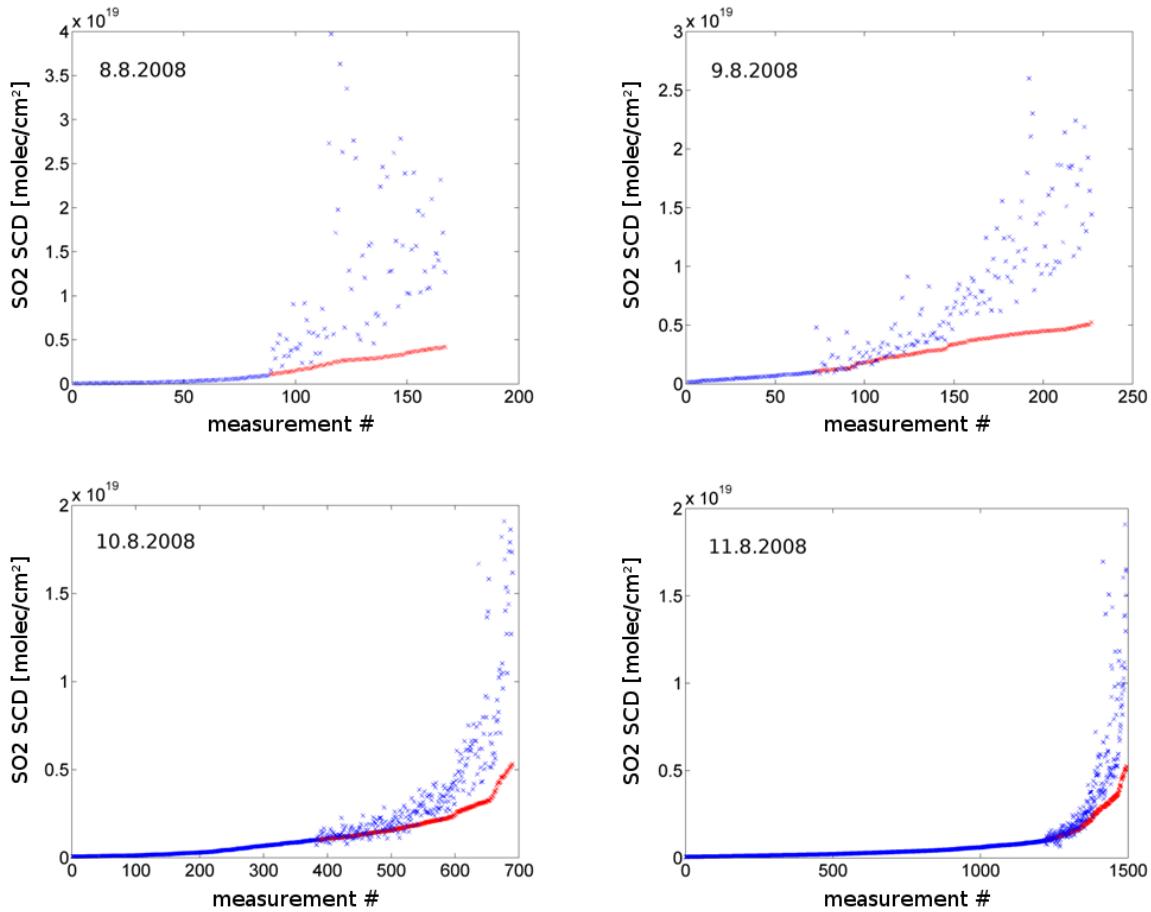
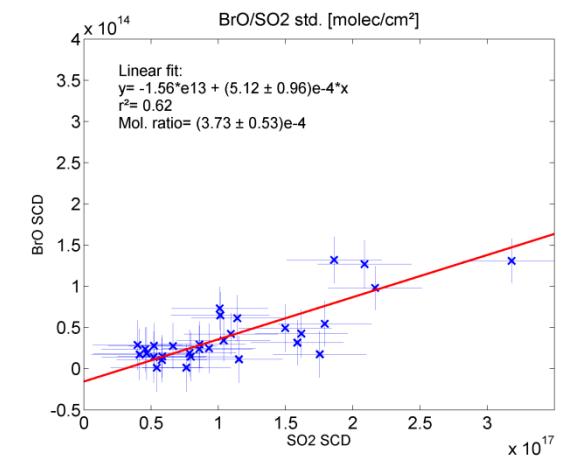
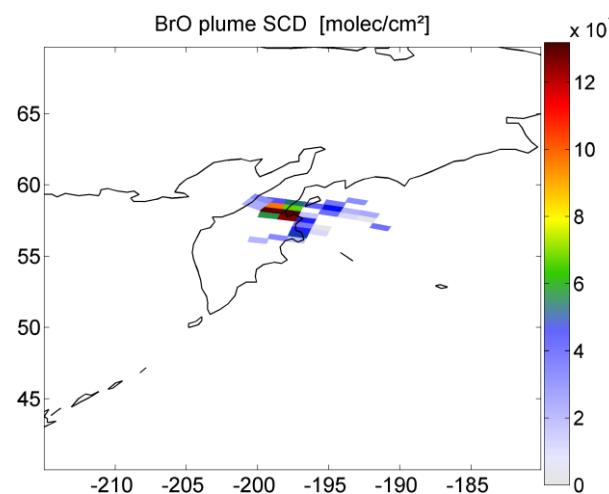
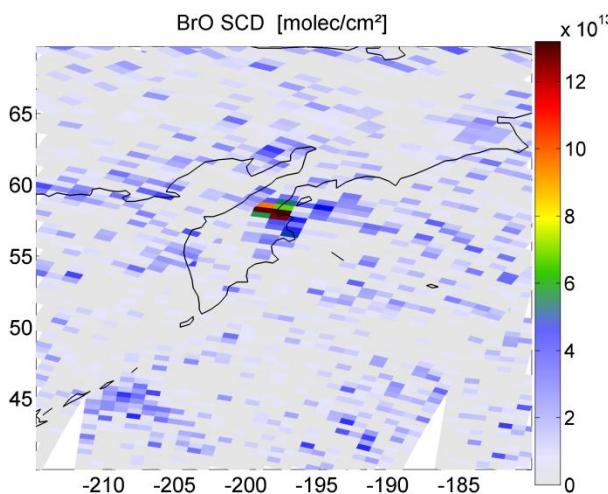
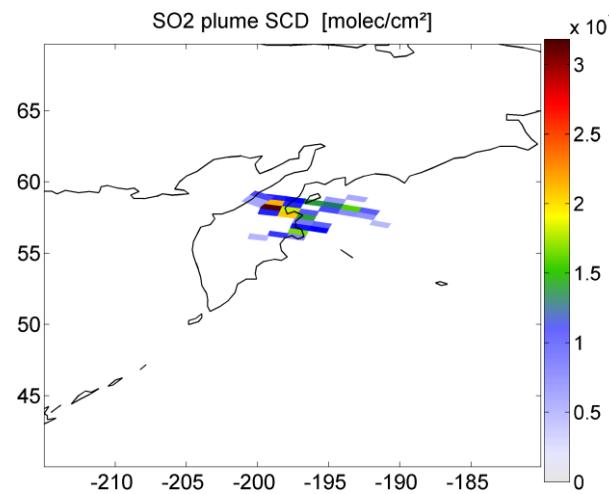
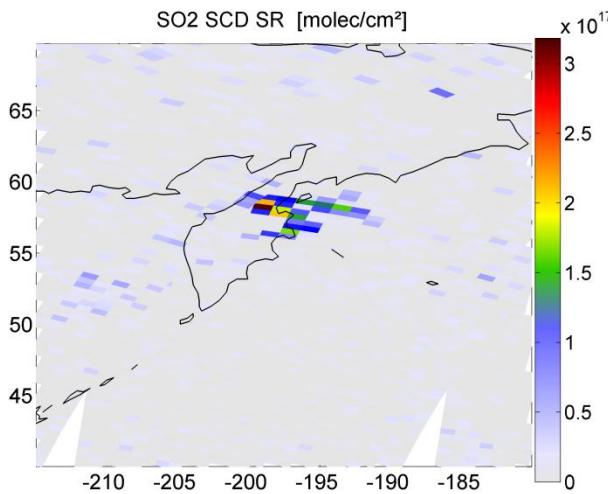


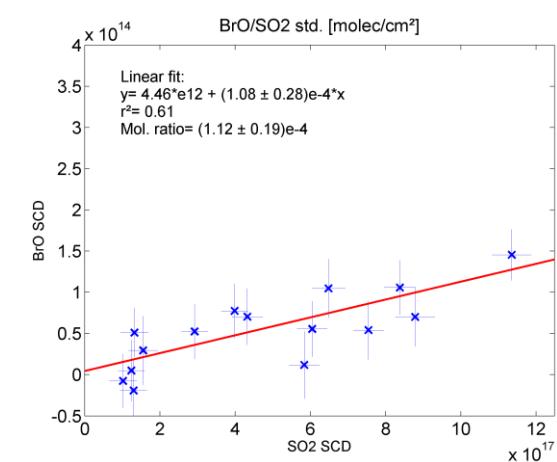
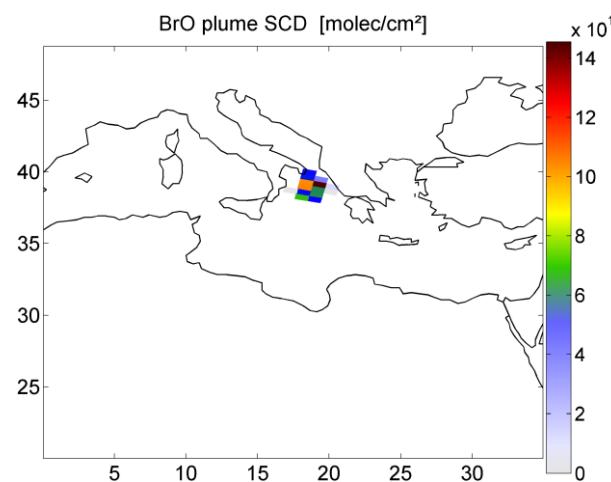
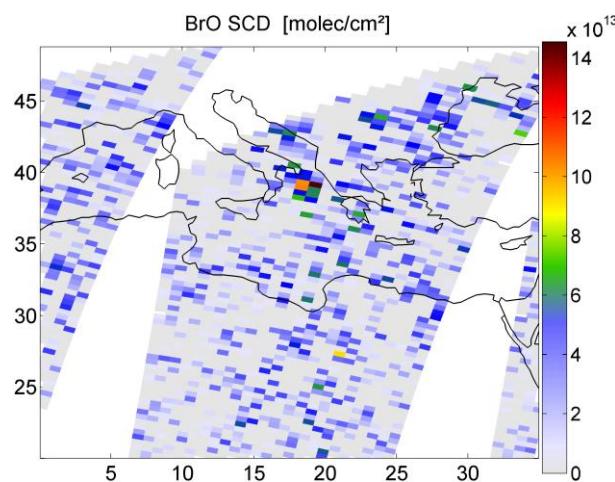
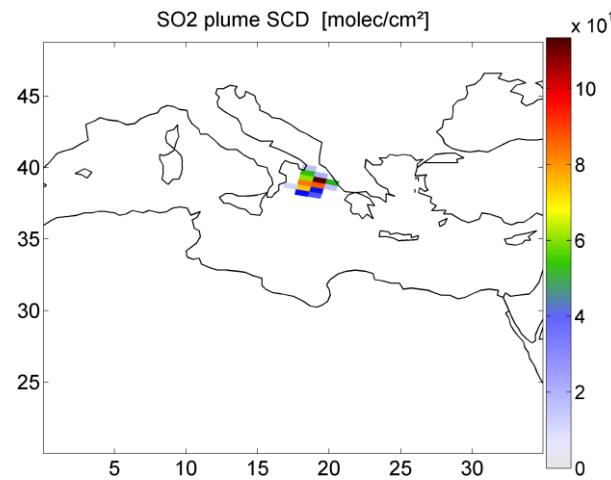
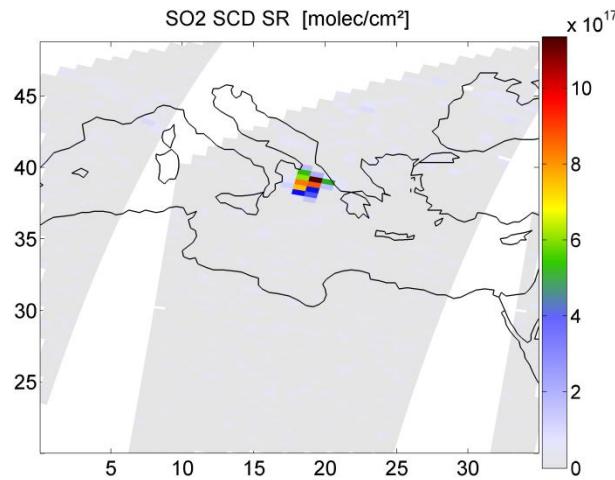
Figure 2: SO_2 SCDs for the SO_2 SR (red) vs. the SCDs for the combined SO_2 SCD product (blue) during the first days of the Kasatochi eruption, sorted by the SCDs for the SR. The results for both evaluation schemes merge seamlessly into each other.

Category I

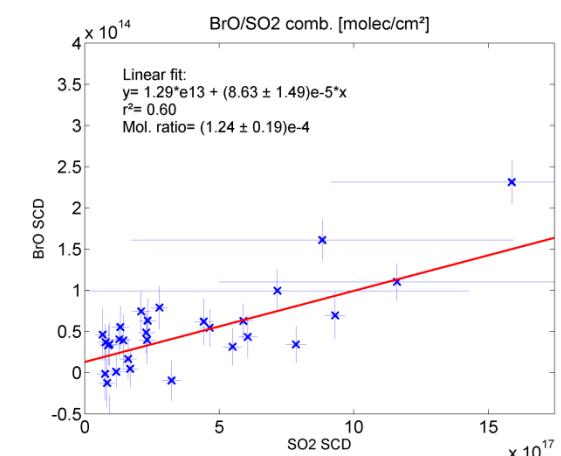
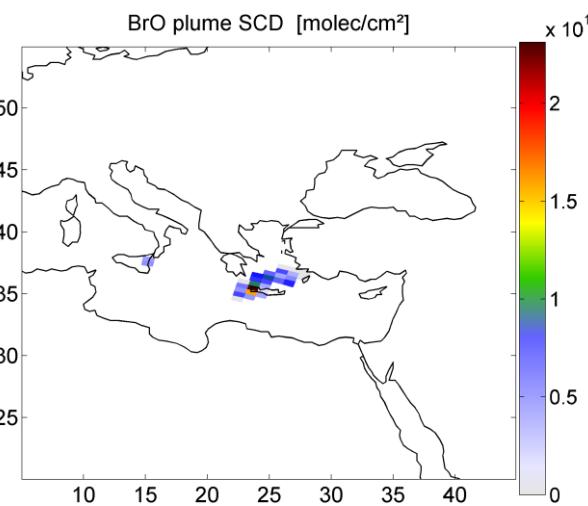
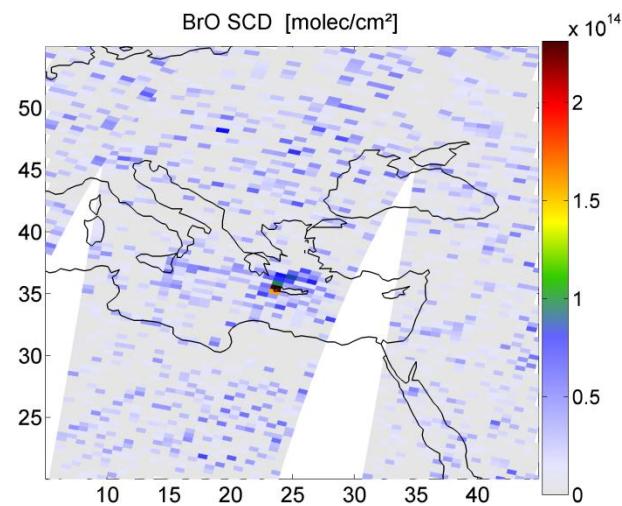
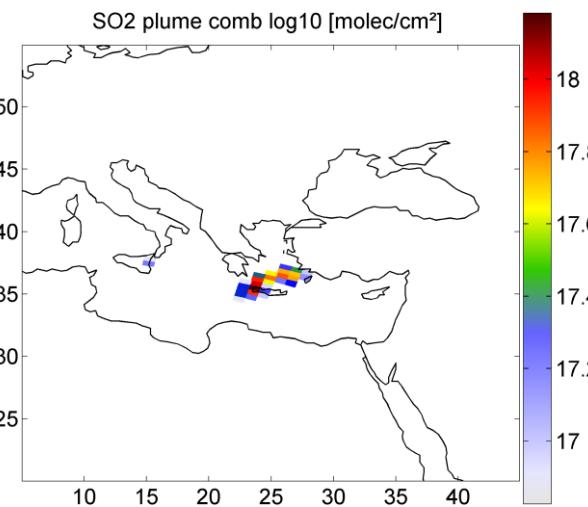
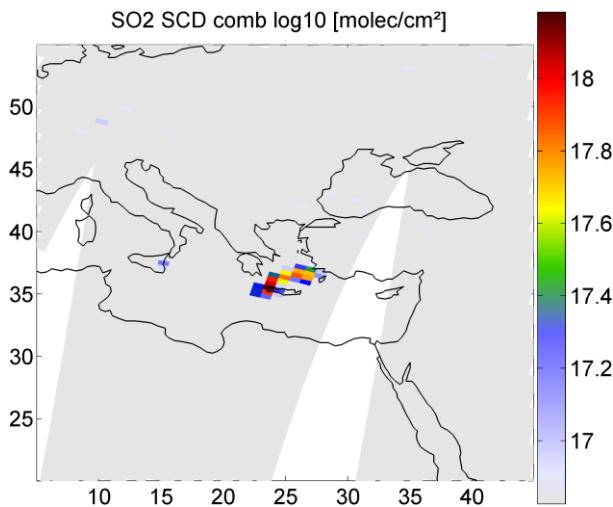
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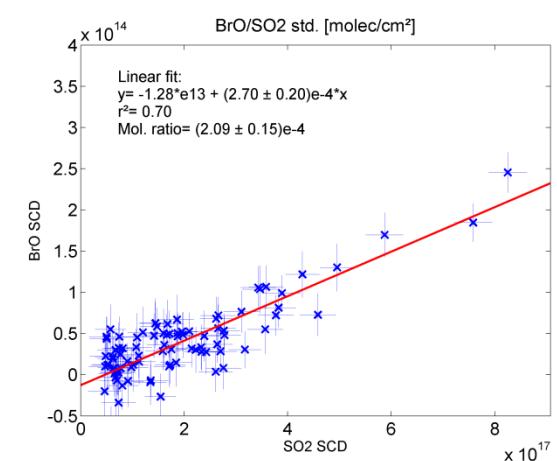
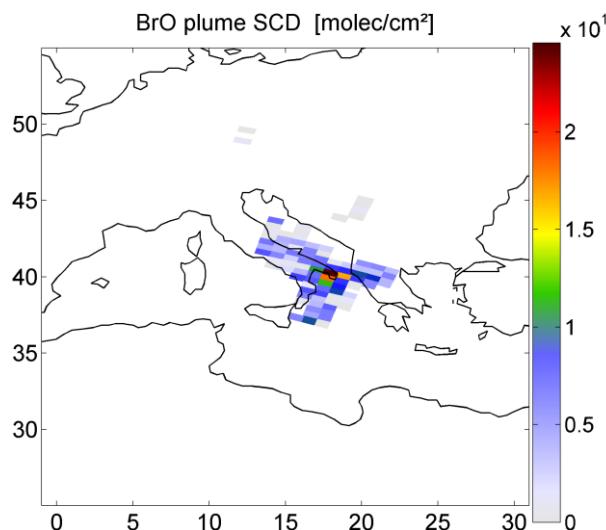
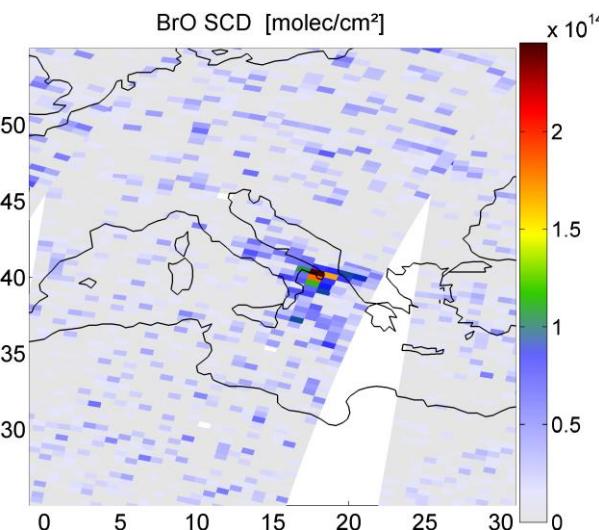
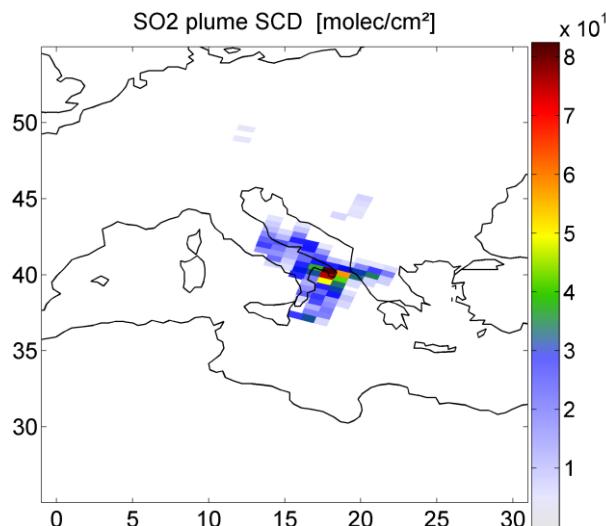
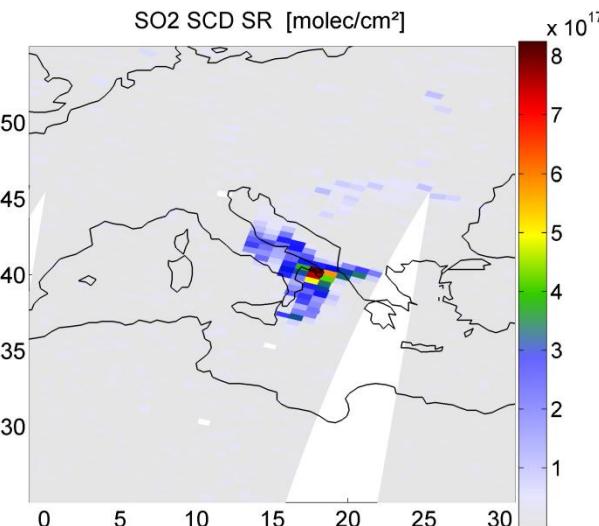
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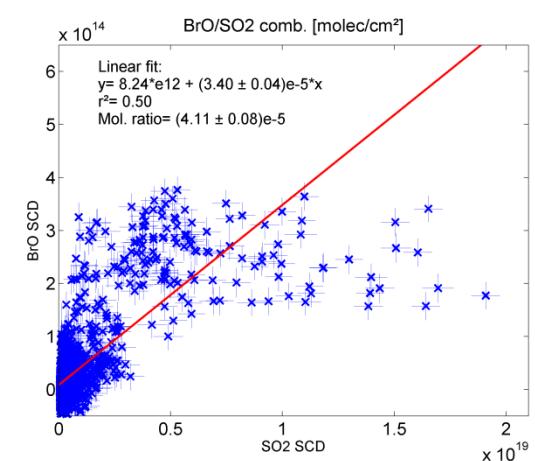
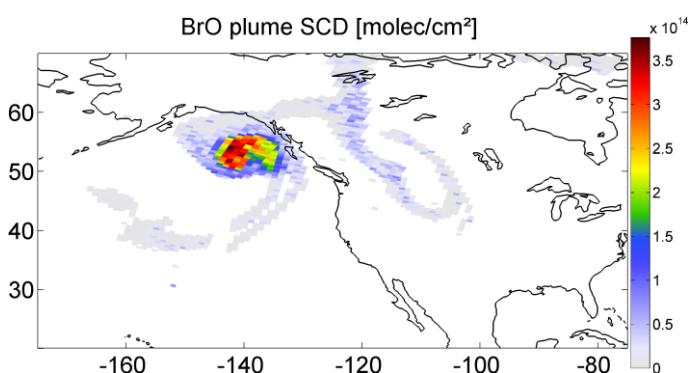
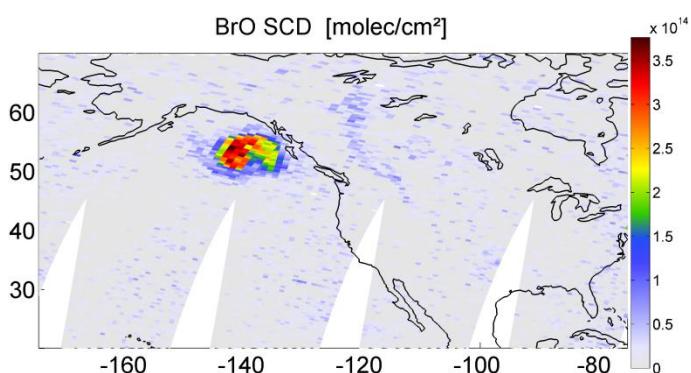
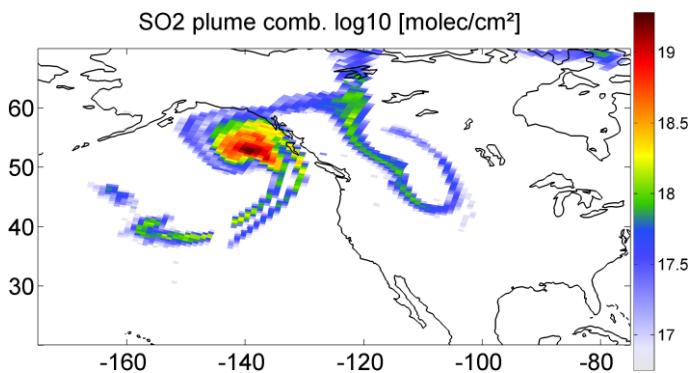
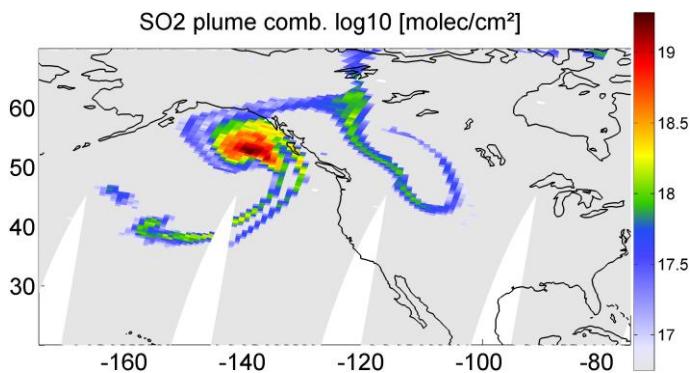
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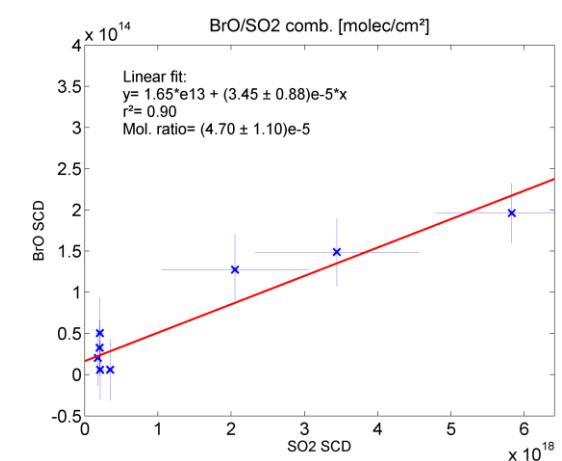
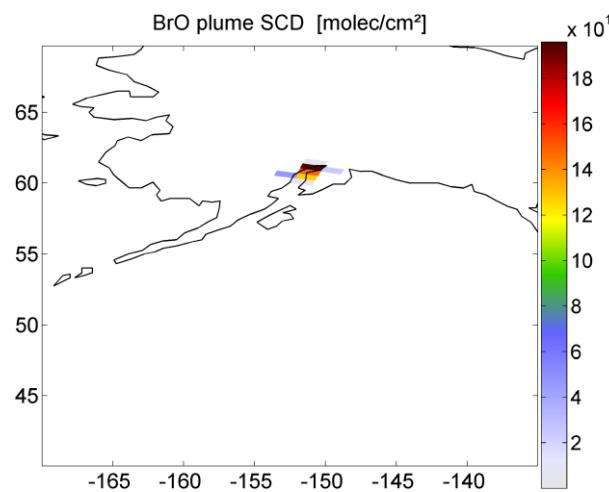
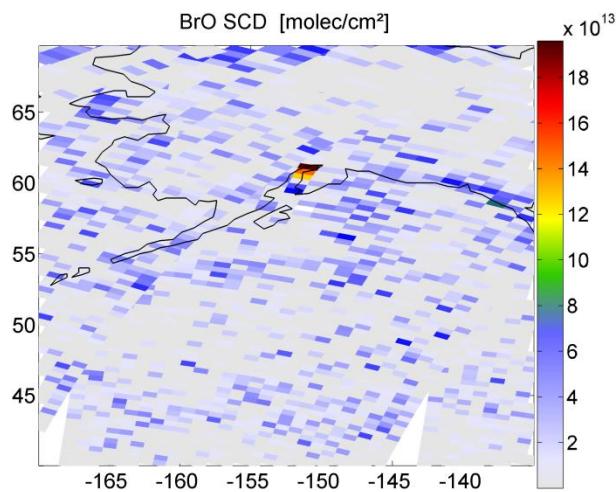
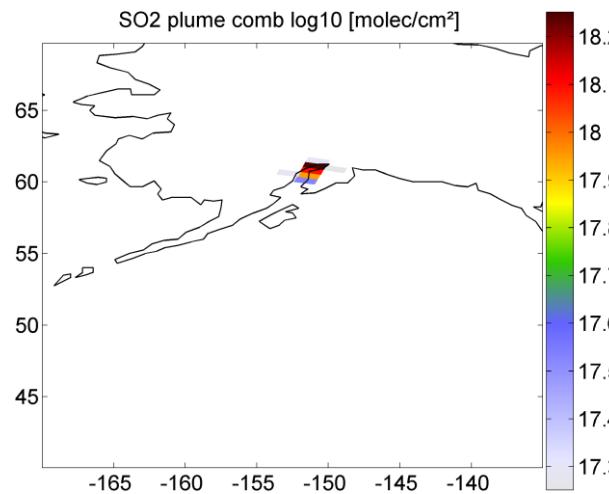
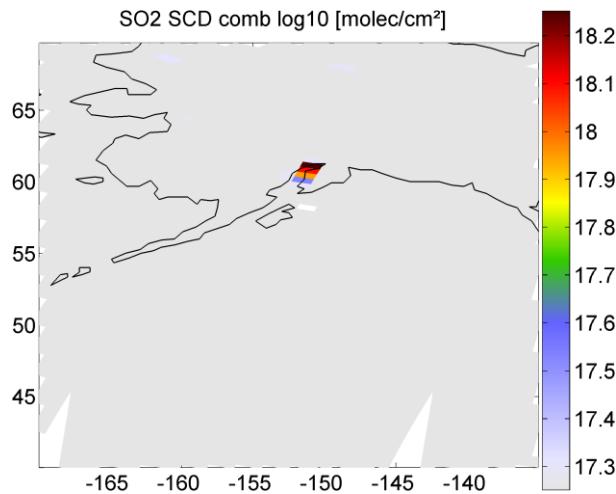
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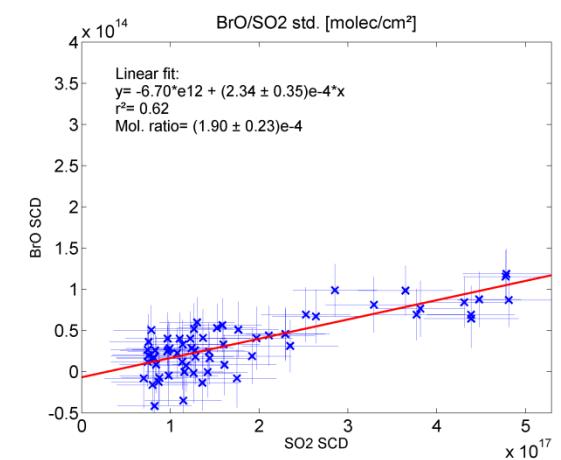
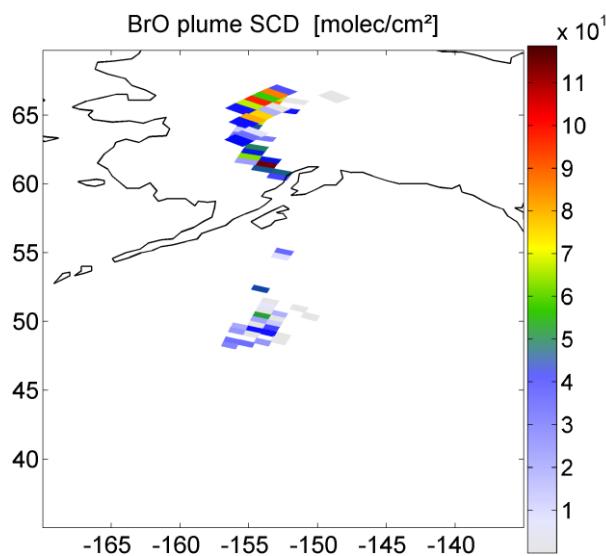
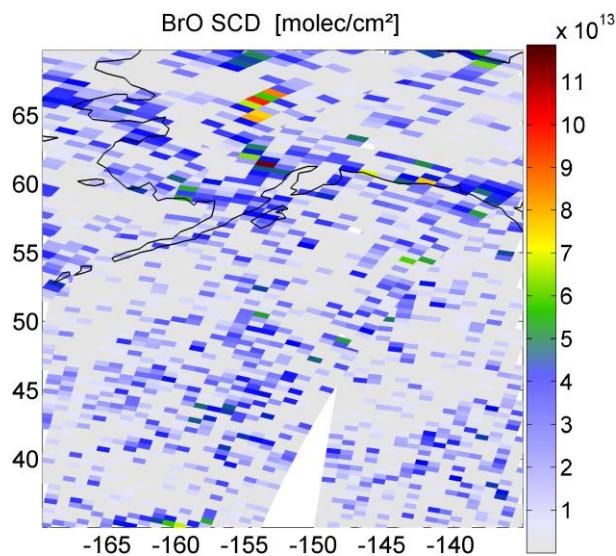
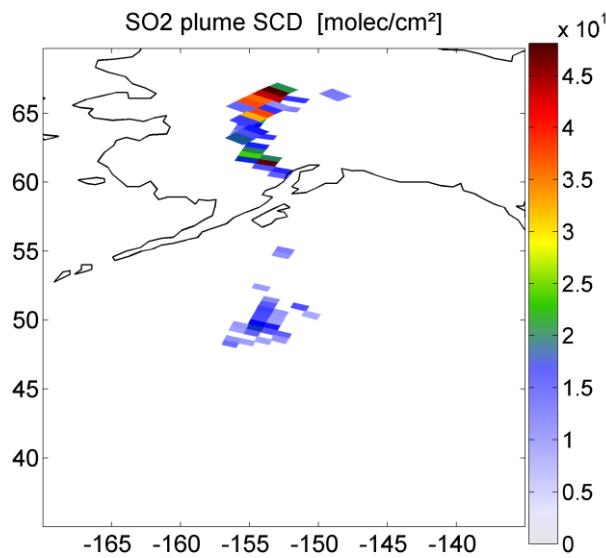
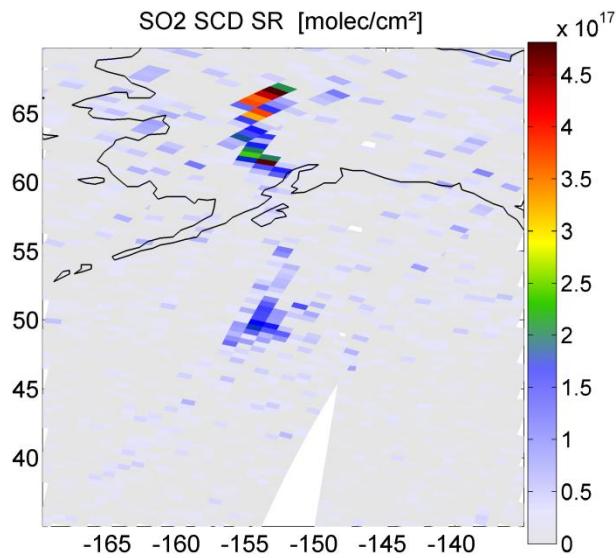
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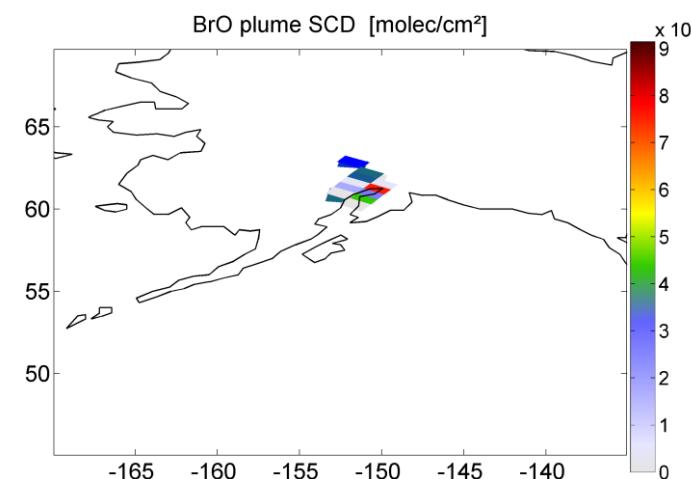
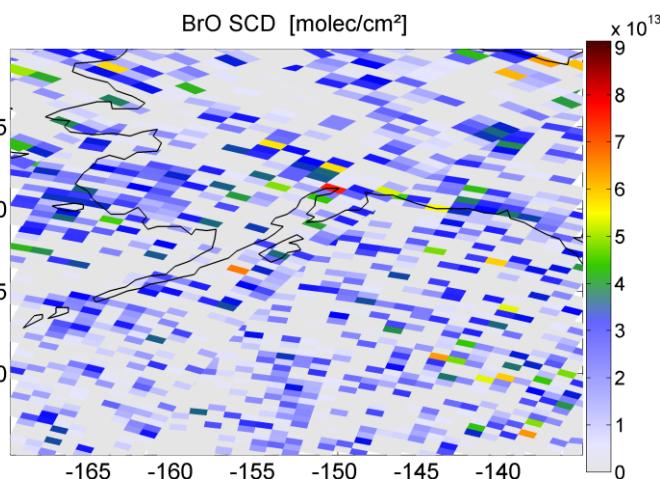
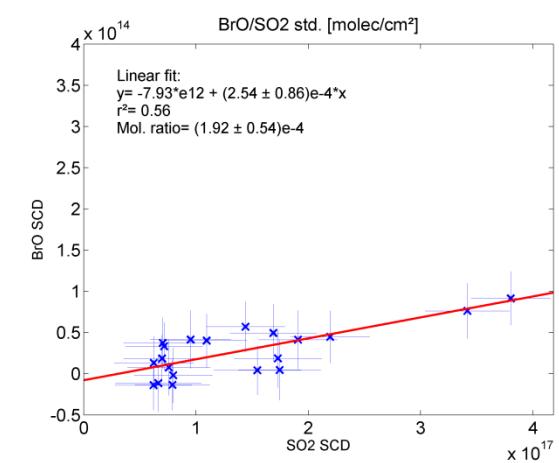
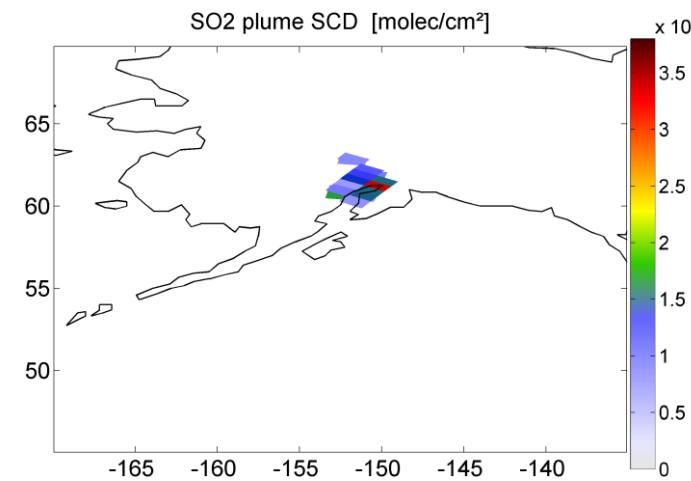
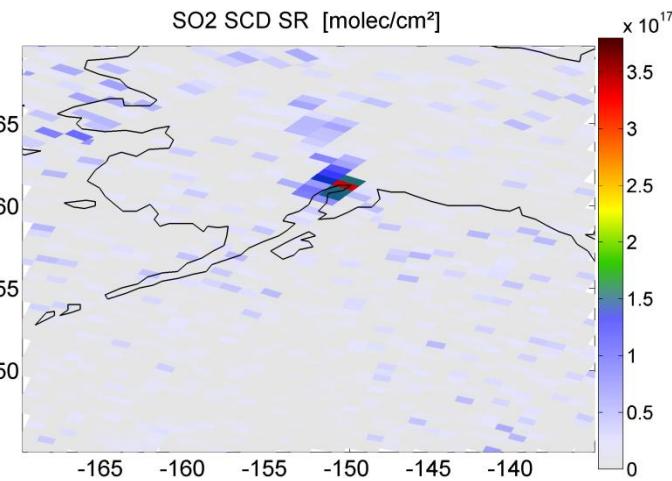
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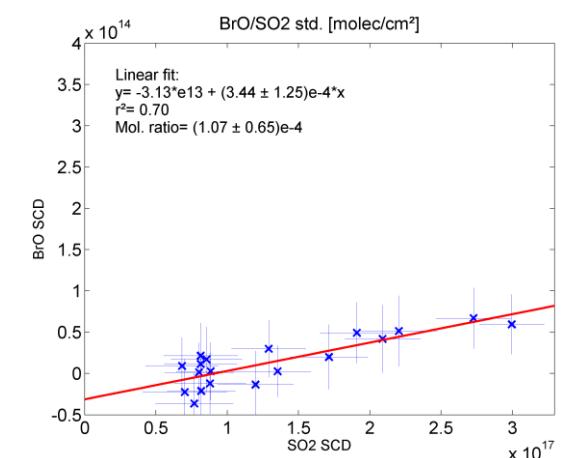
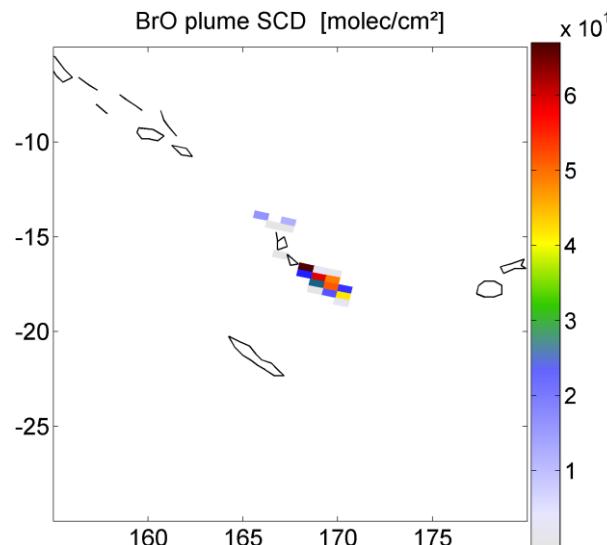
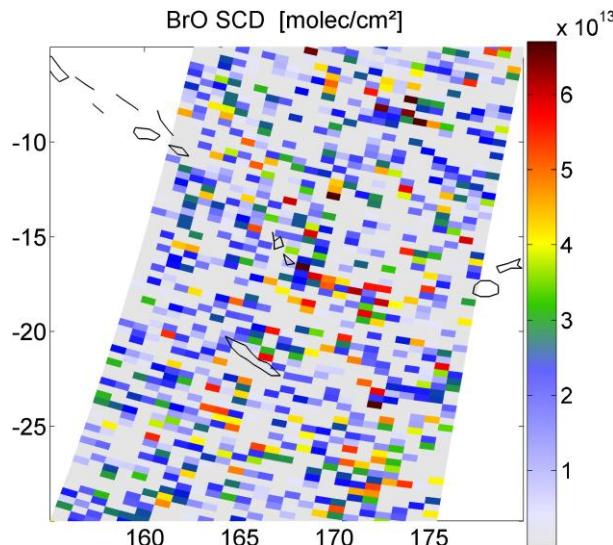
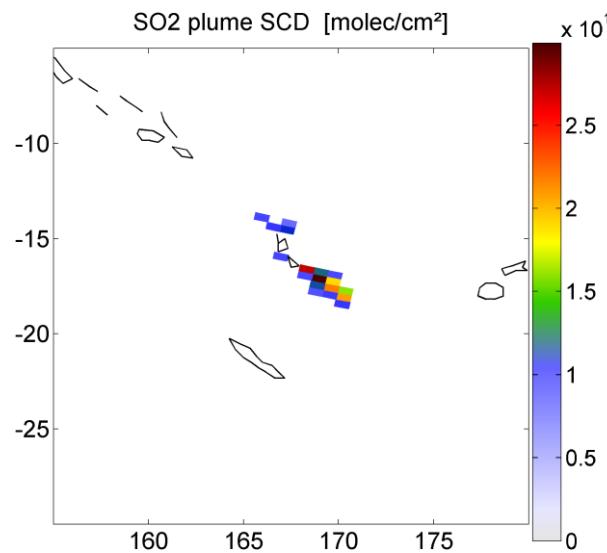
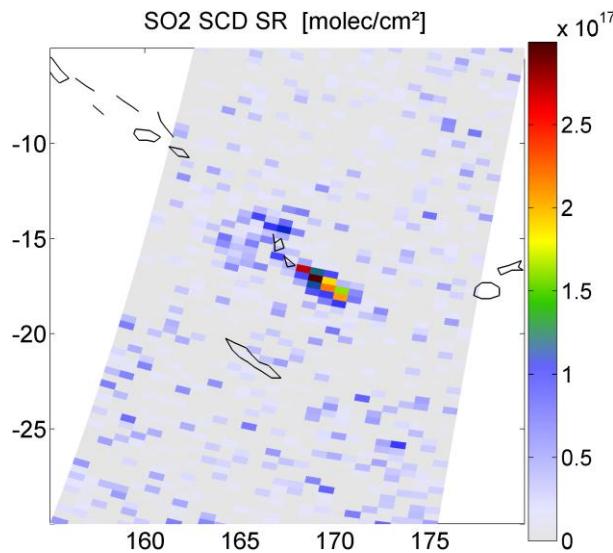
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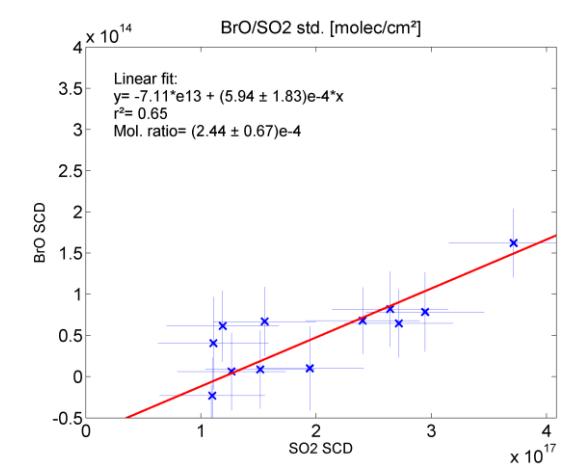
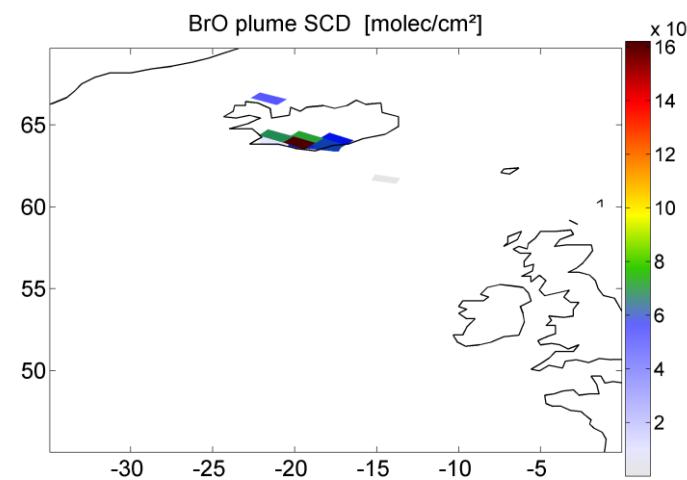
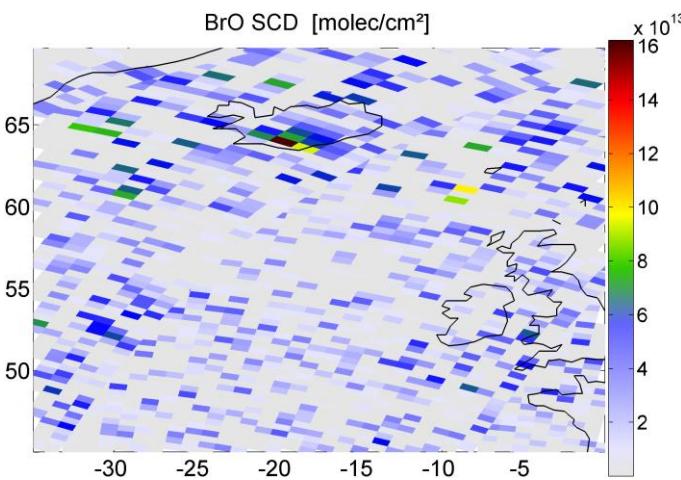
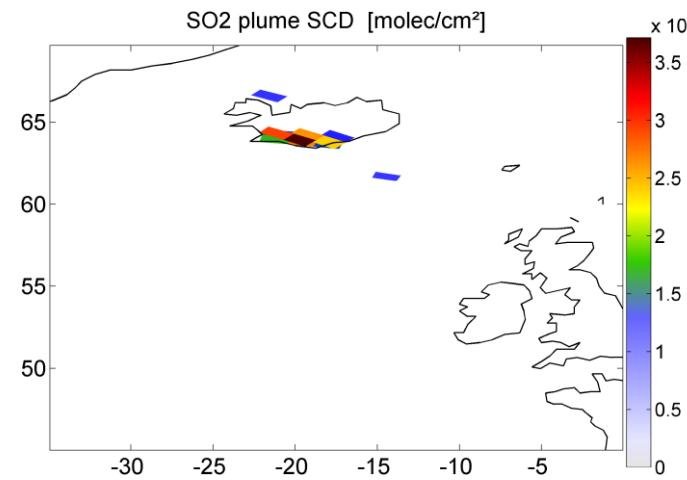
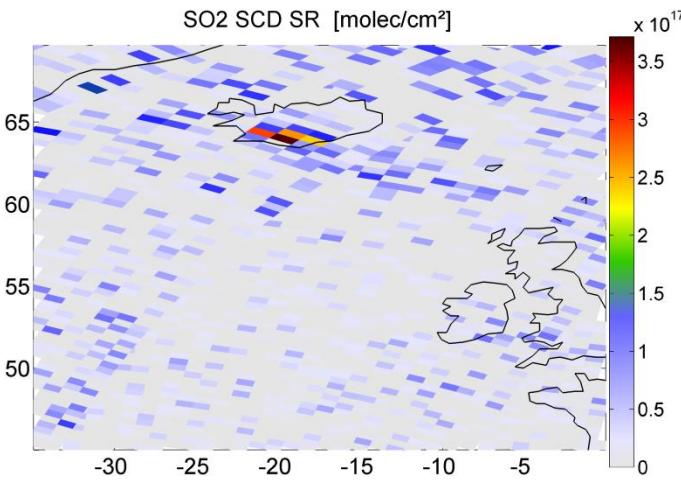
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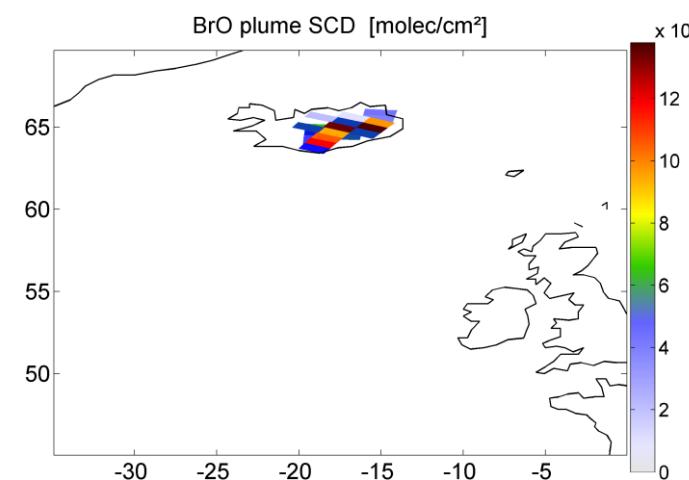
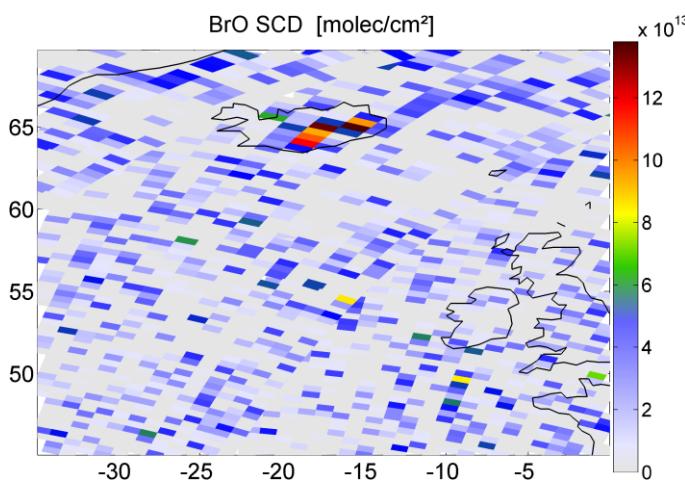
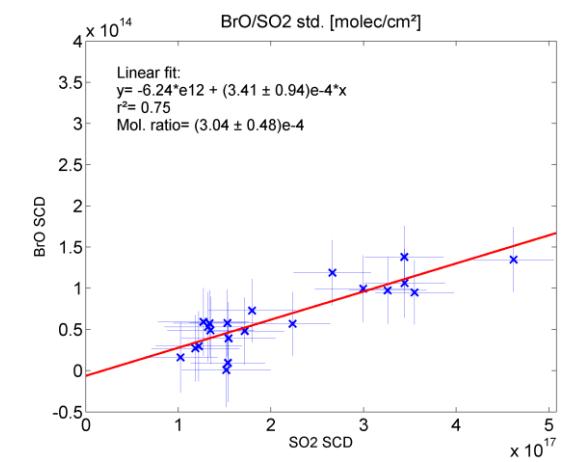
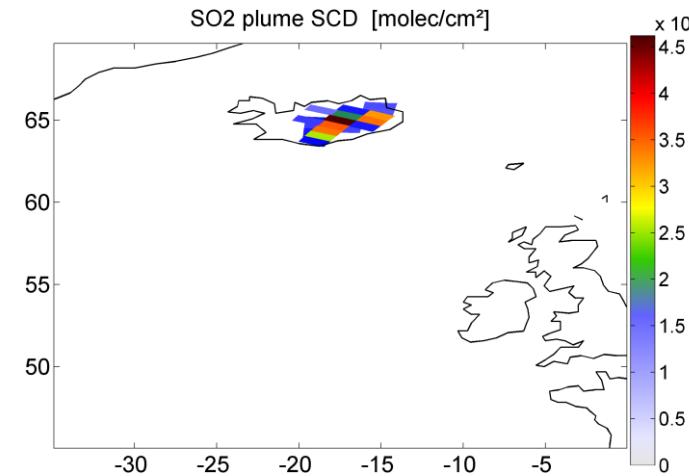
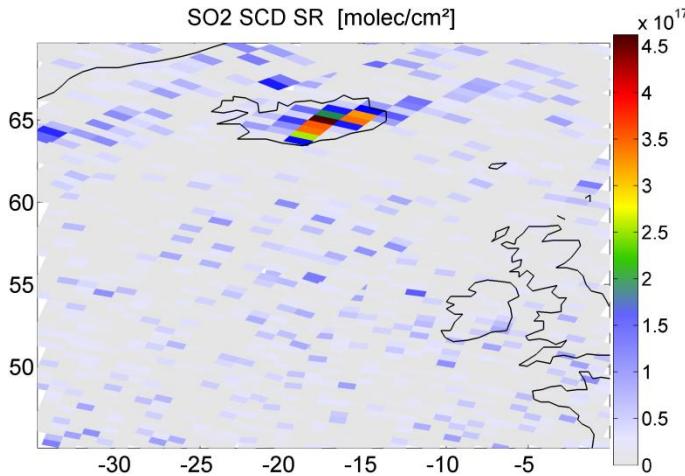
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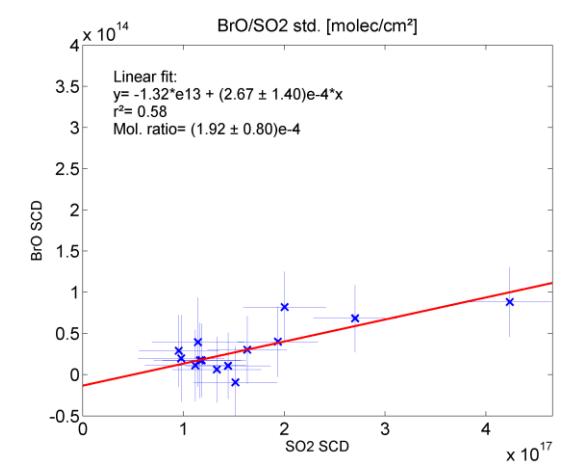
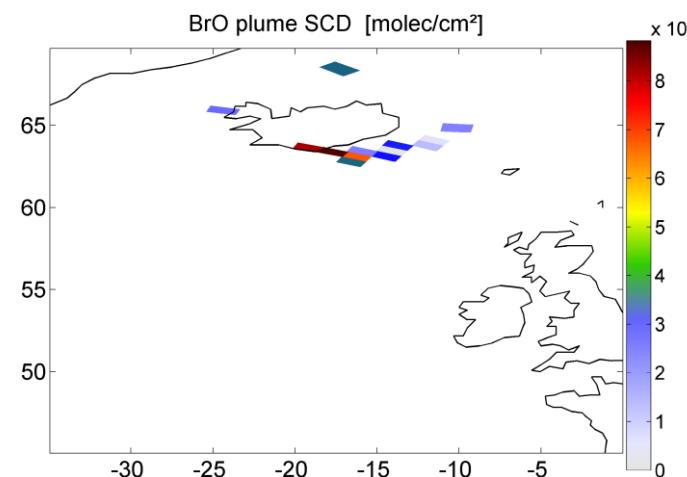
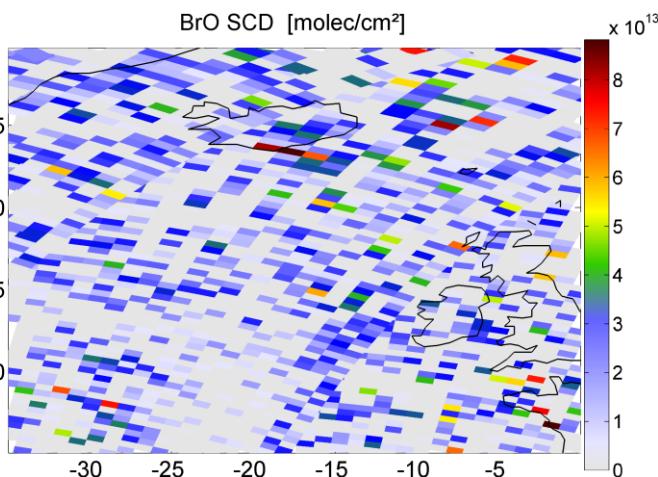
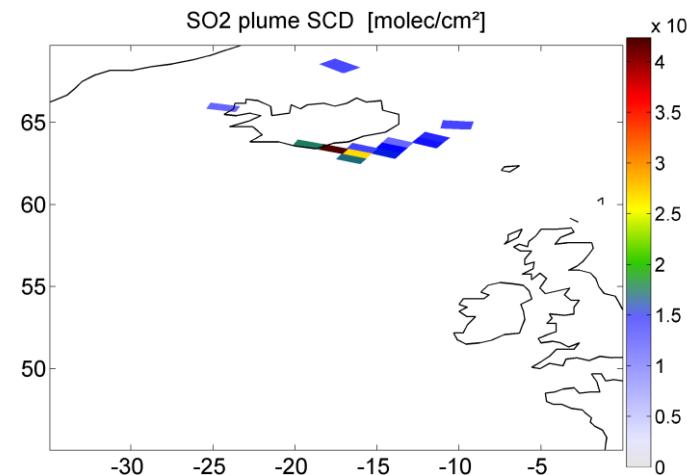
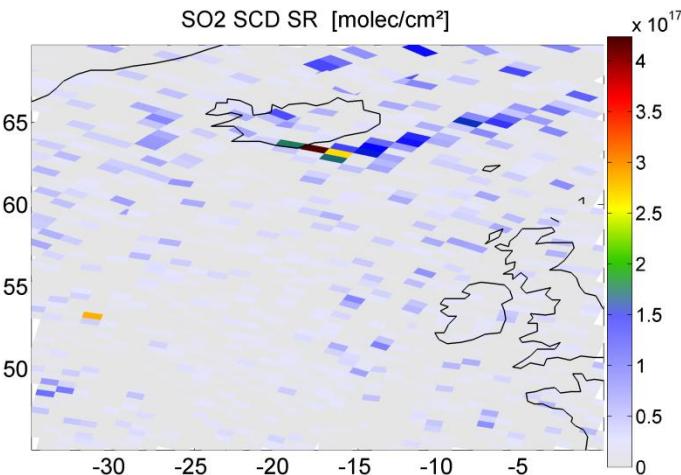
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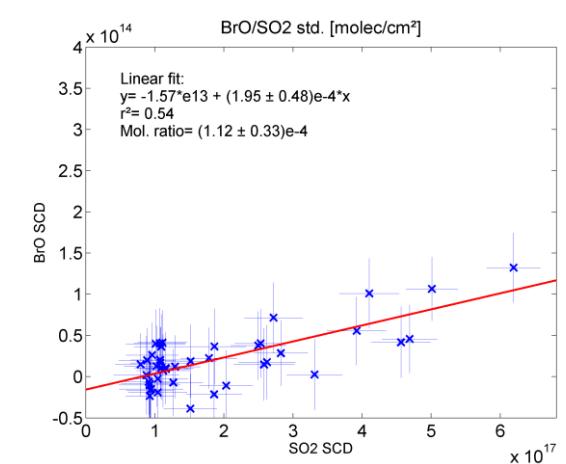
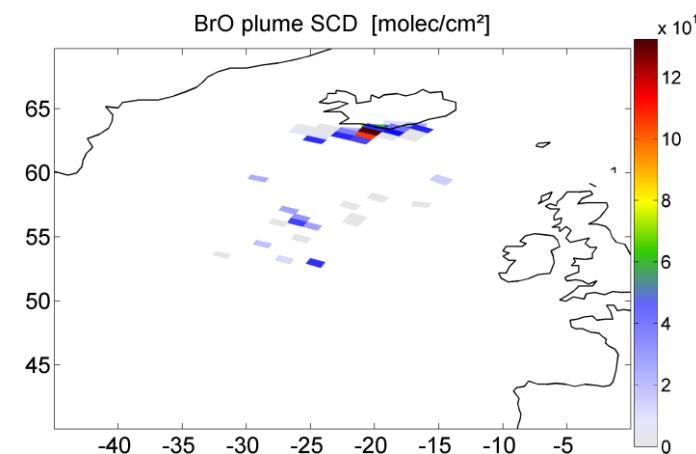
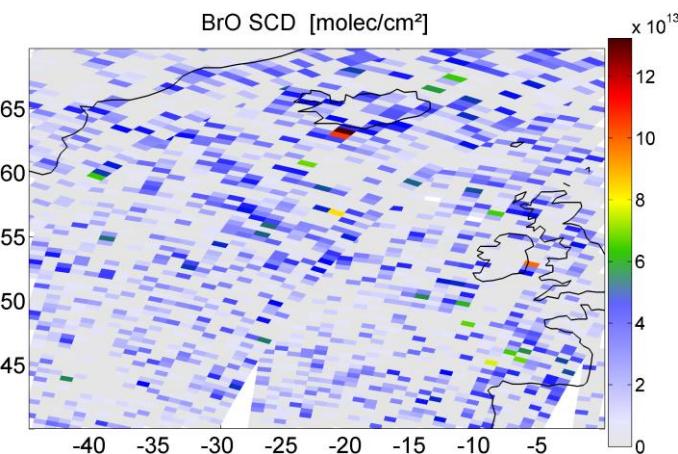
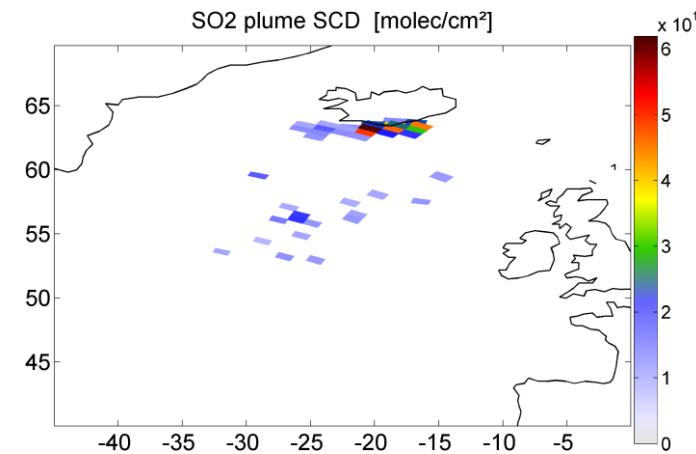
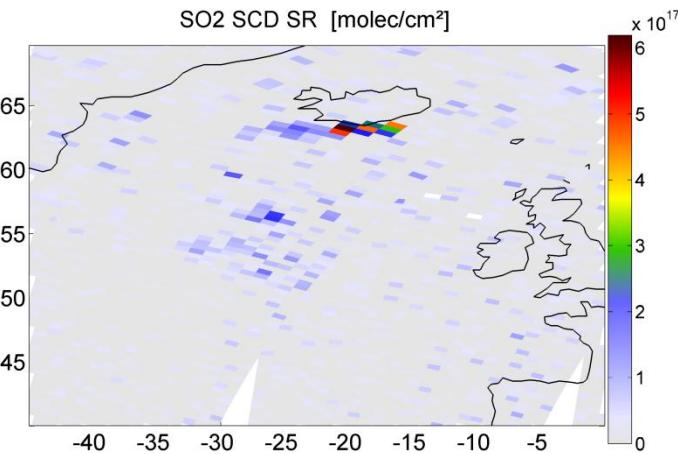
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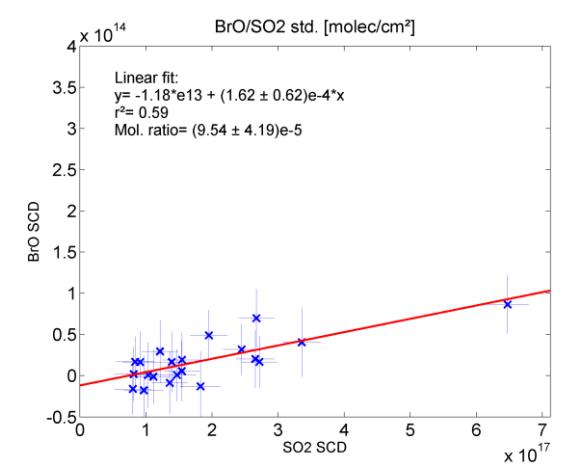
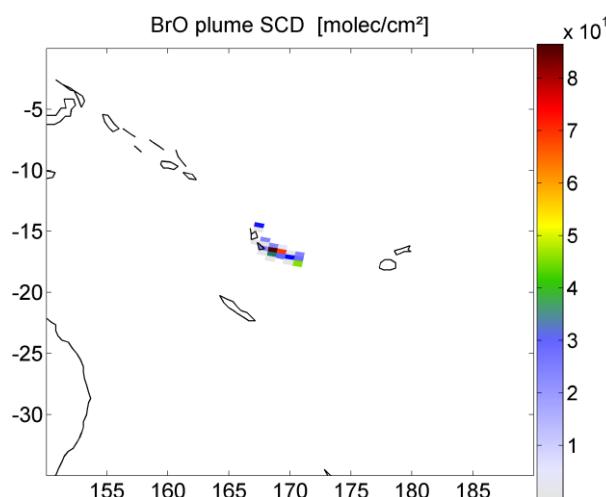
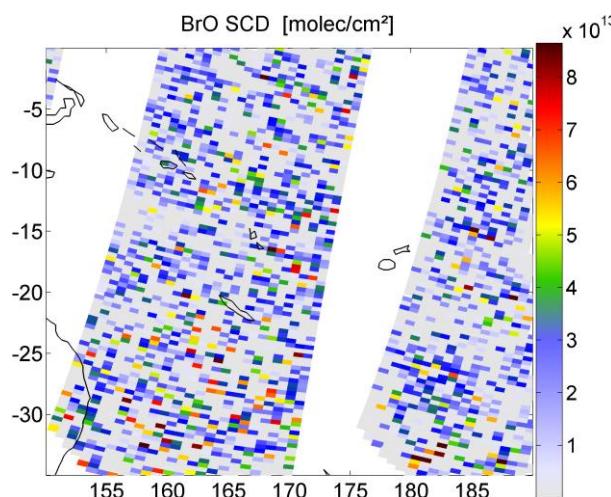
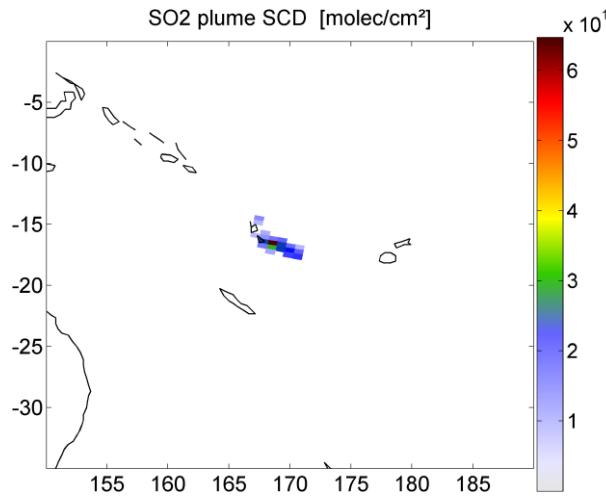
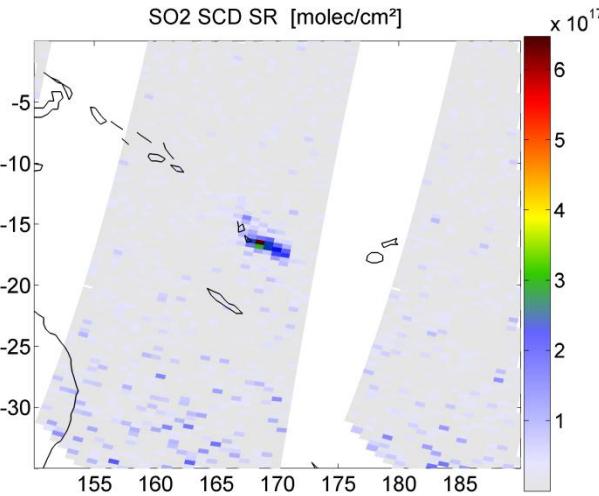
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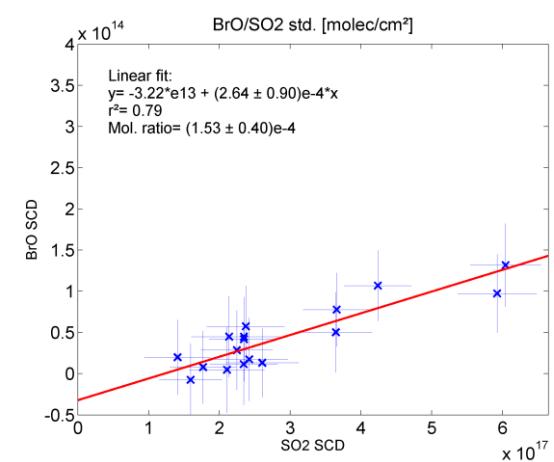
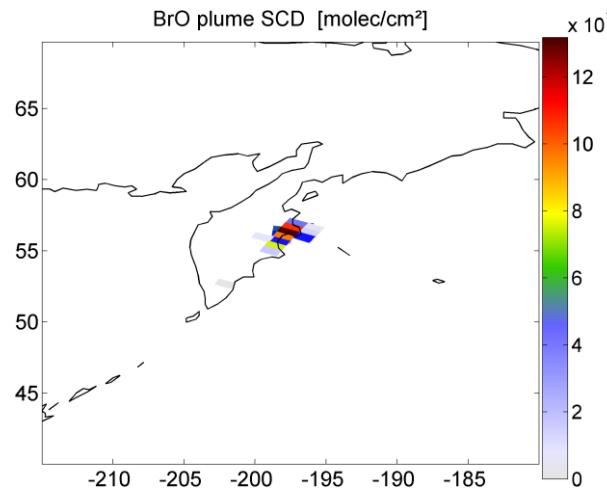
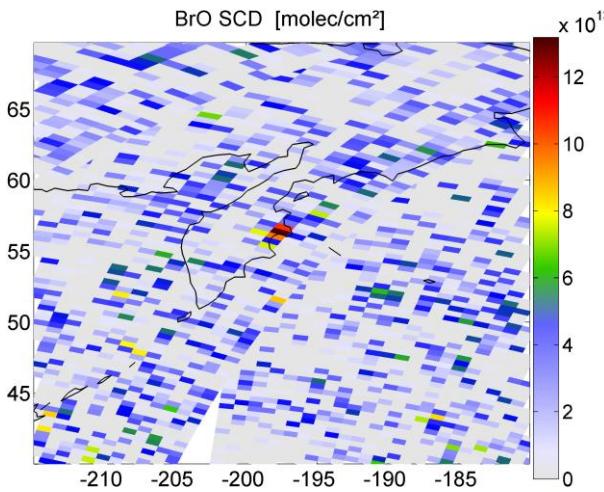
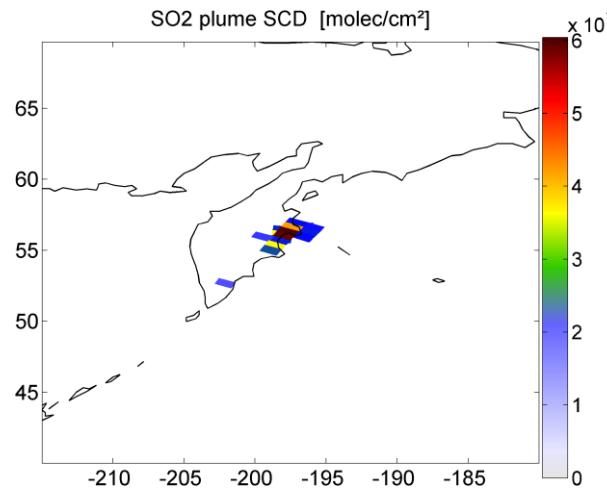
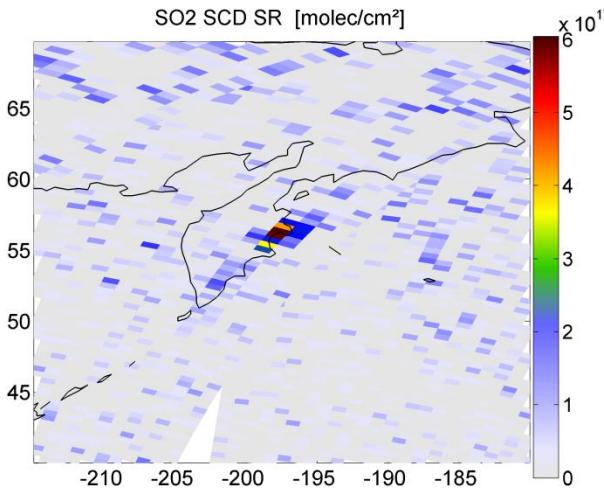
#550 Eyjafjallajökull 29.04.2010



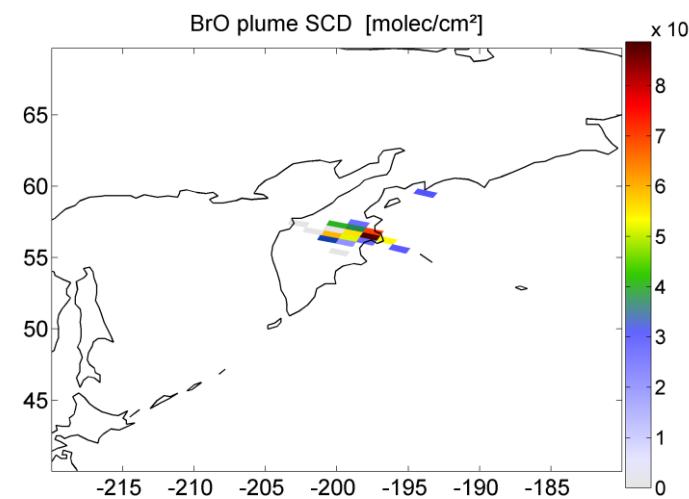
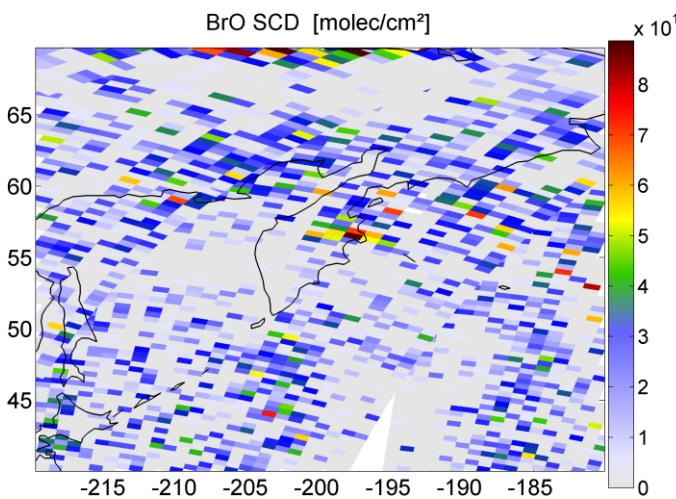
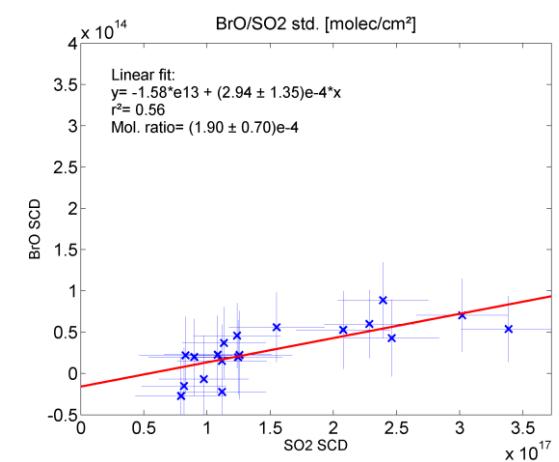
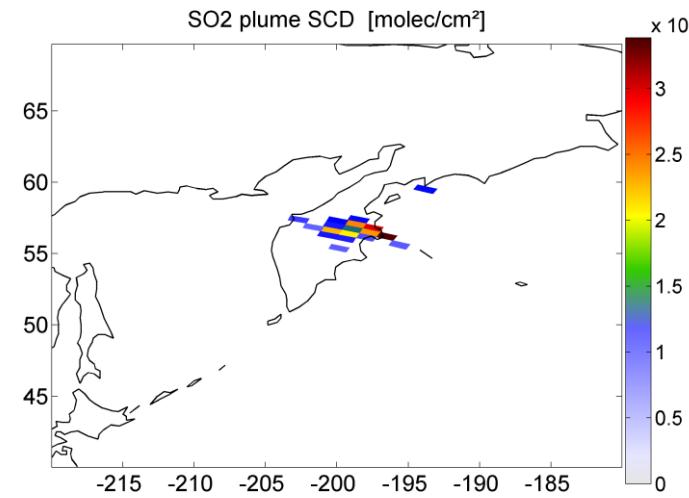
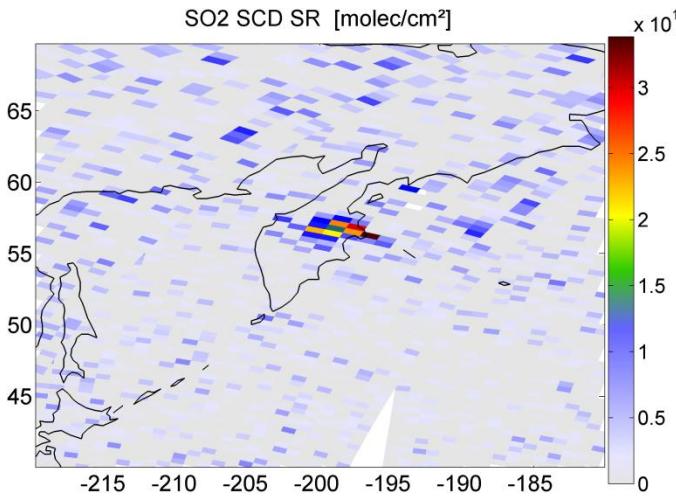
#563 Ambrym 11.05.2010



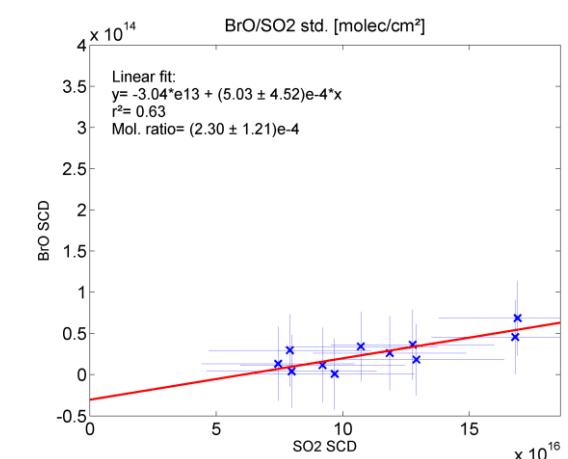
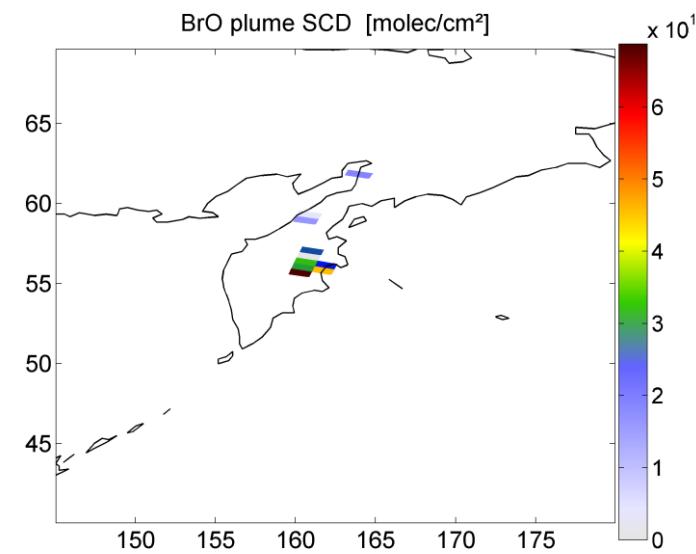
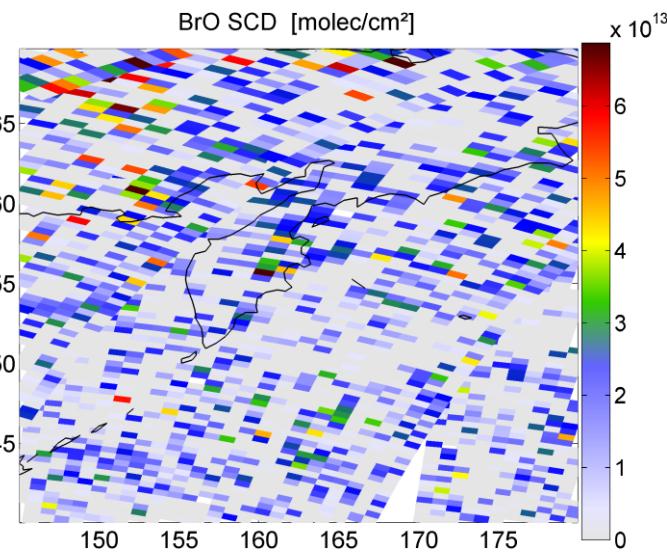
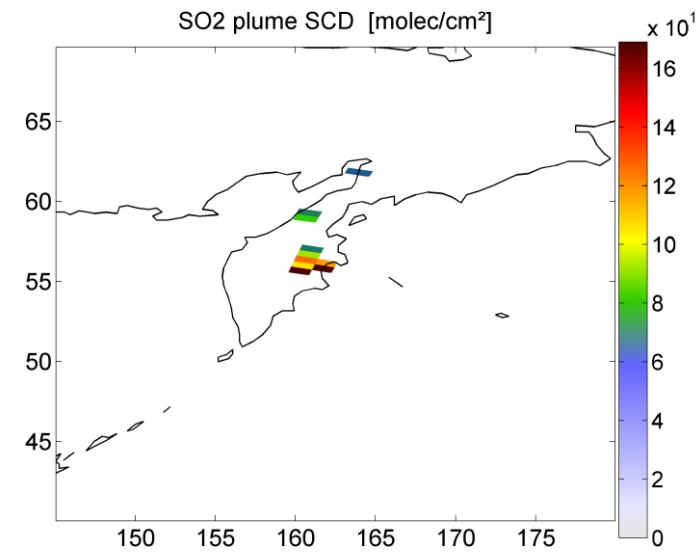
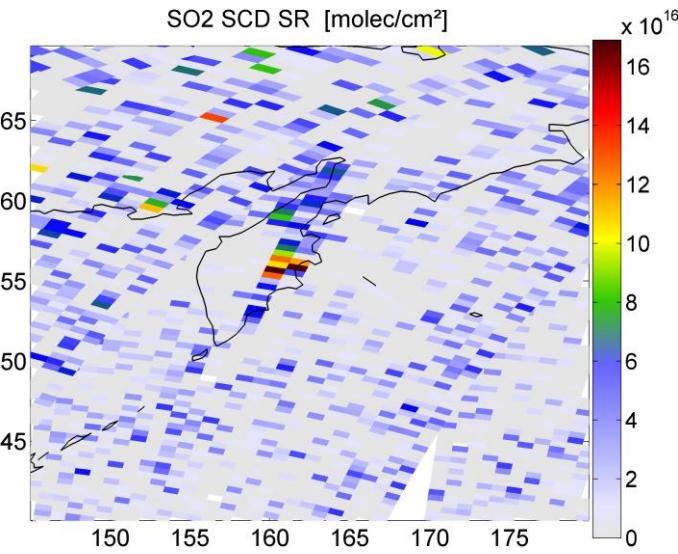
#675 Kliuchevskoi* 29./30.03.2011



#700 Kizimen* 08./09.05.2011

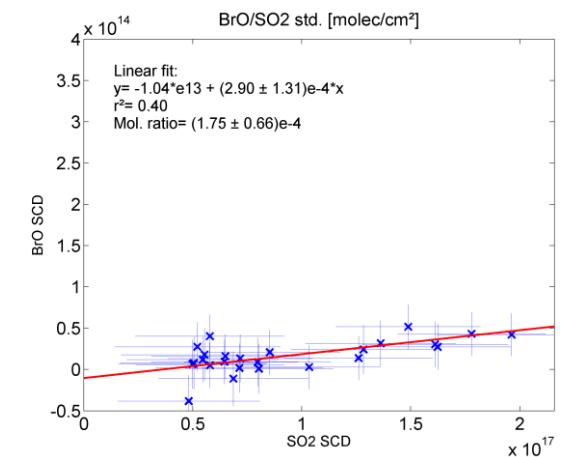
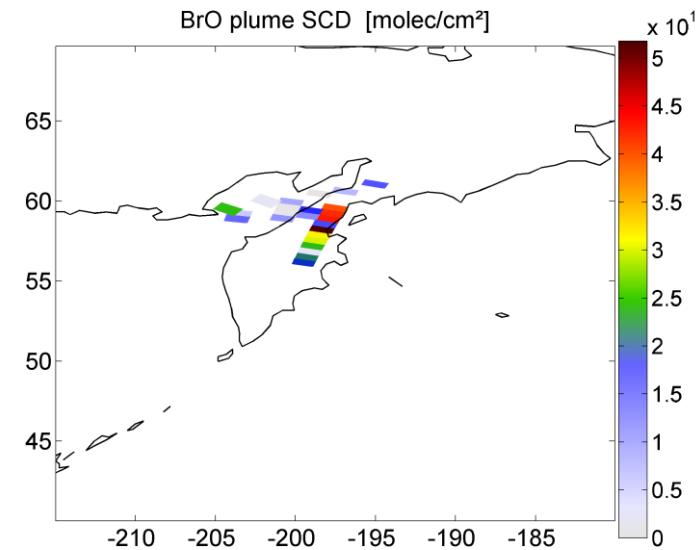
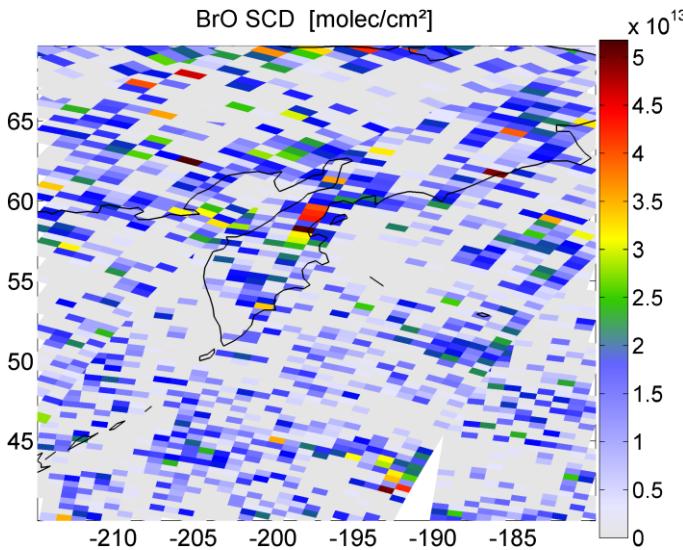
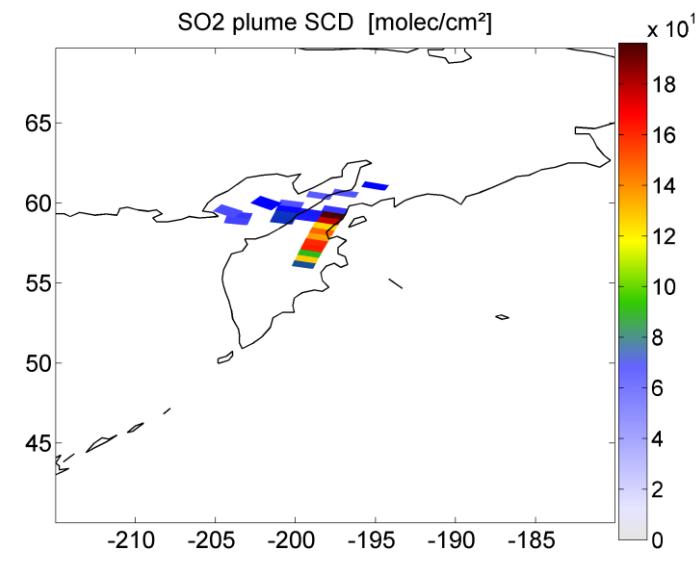
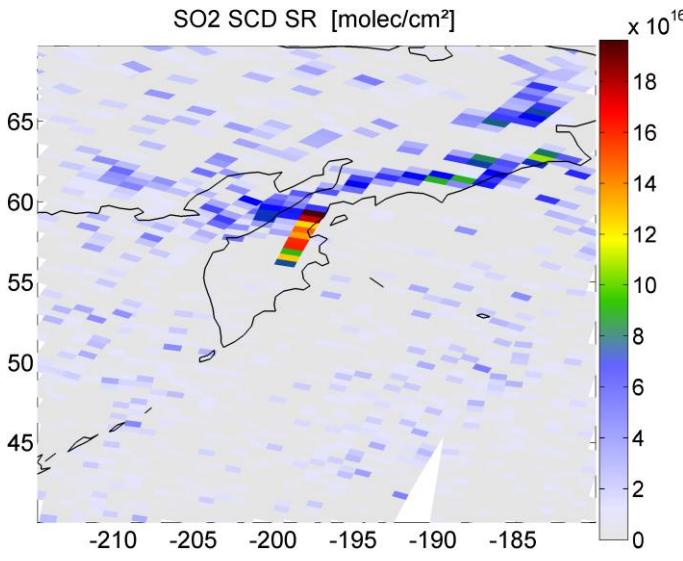


#740 Kizimen* 07.06.2011

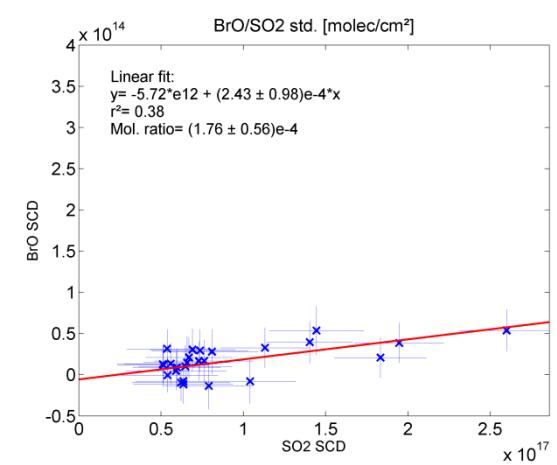
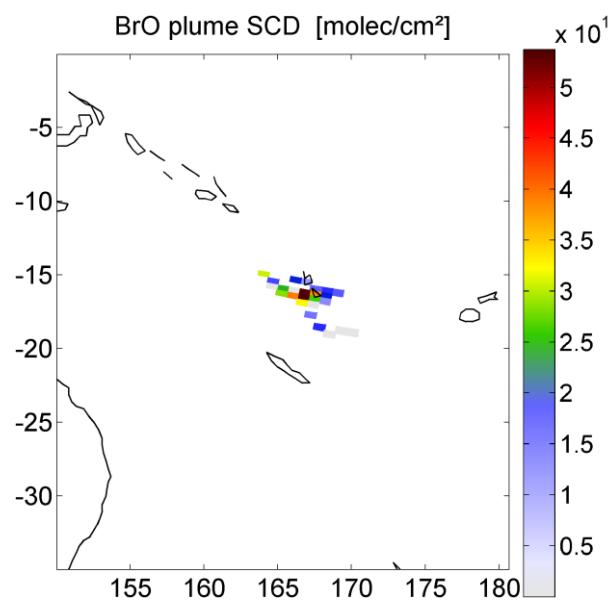
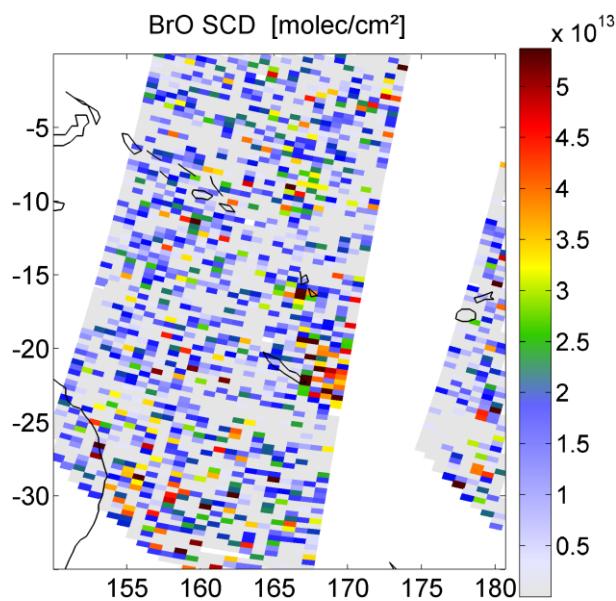
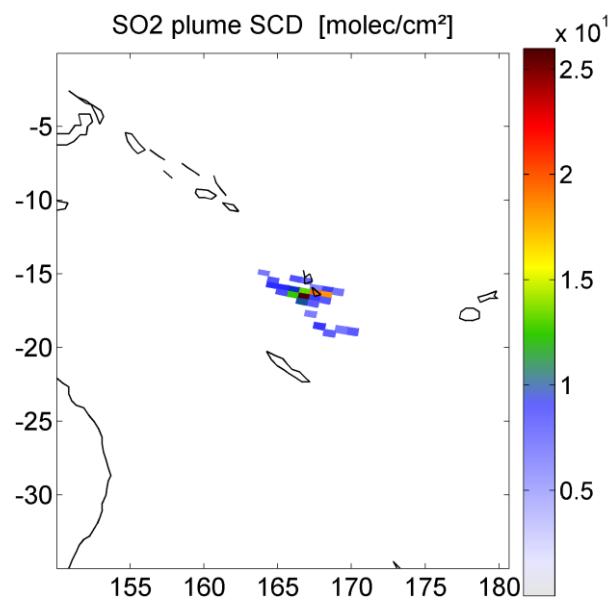
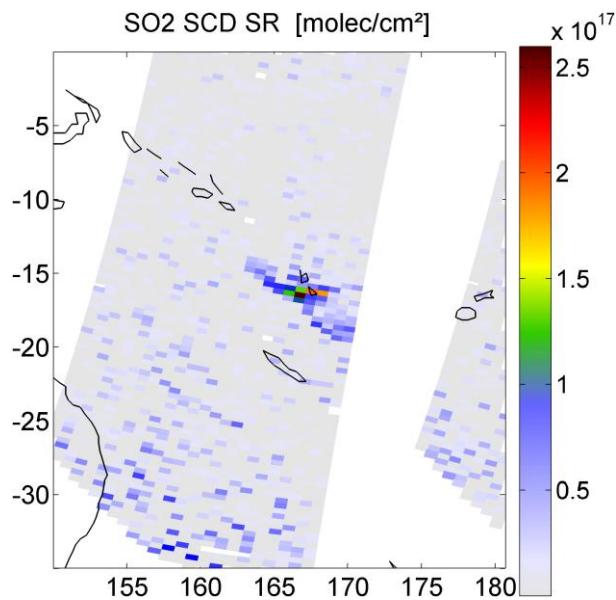


Category II

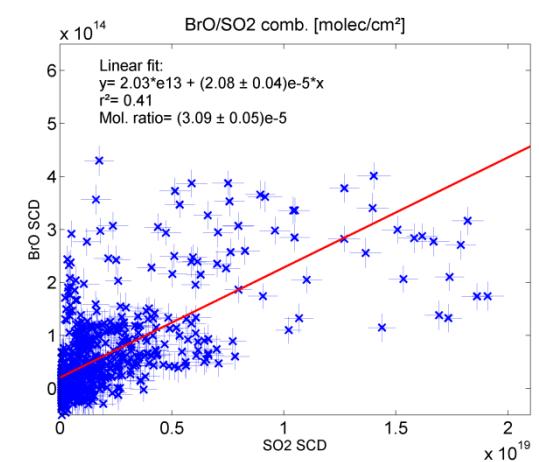
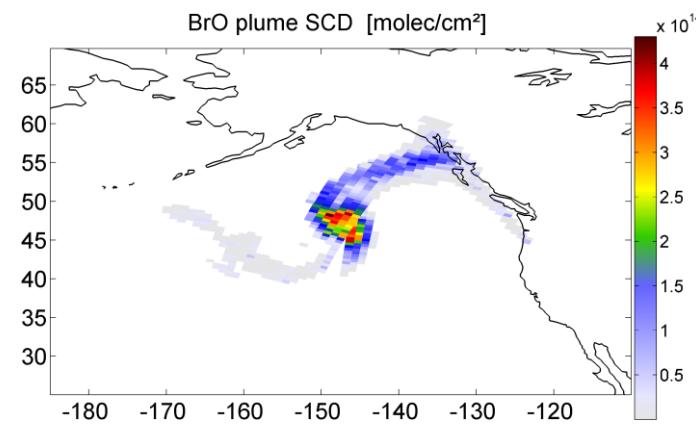
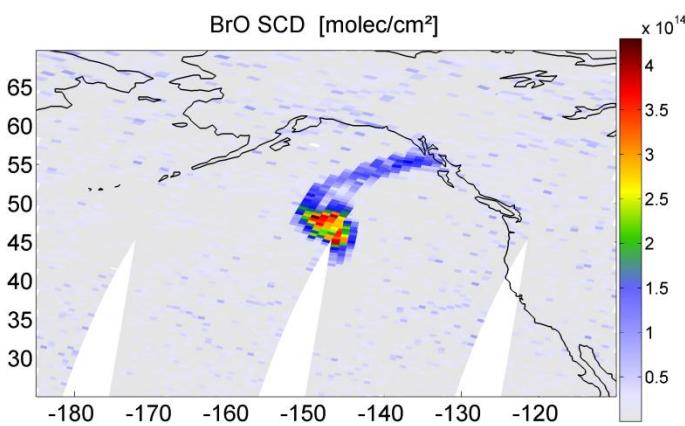
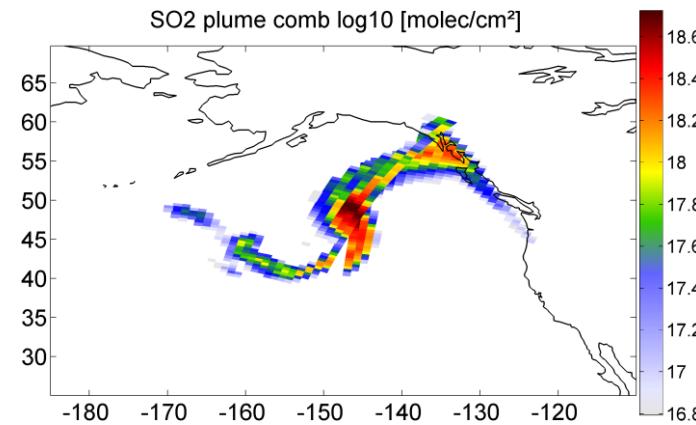
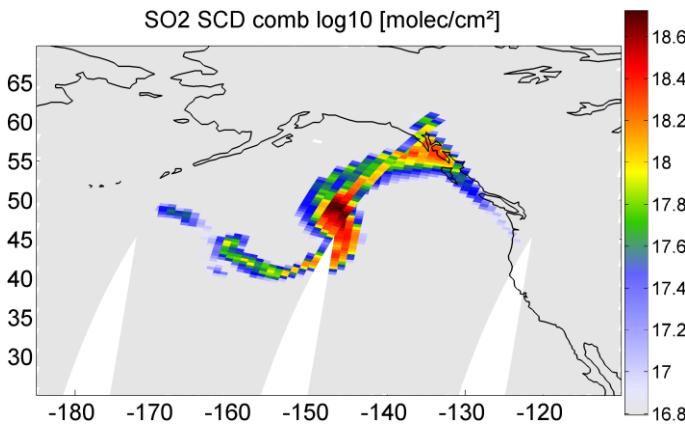
#28 Kliuchevskoi 20./21.05.2007



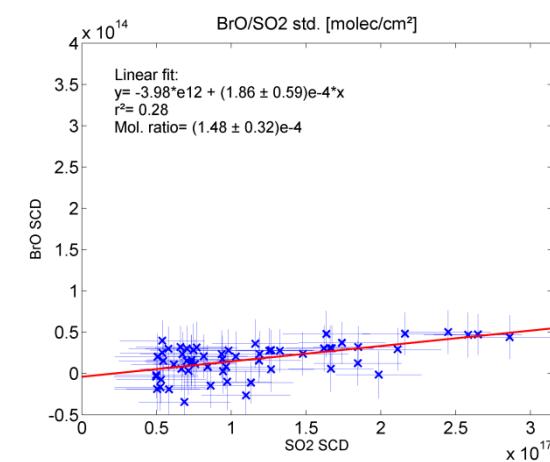
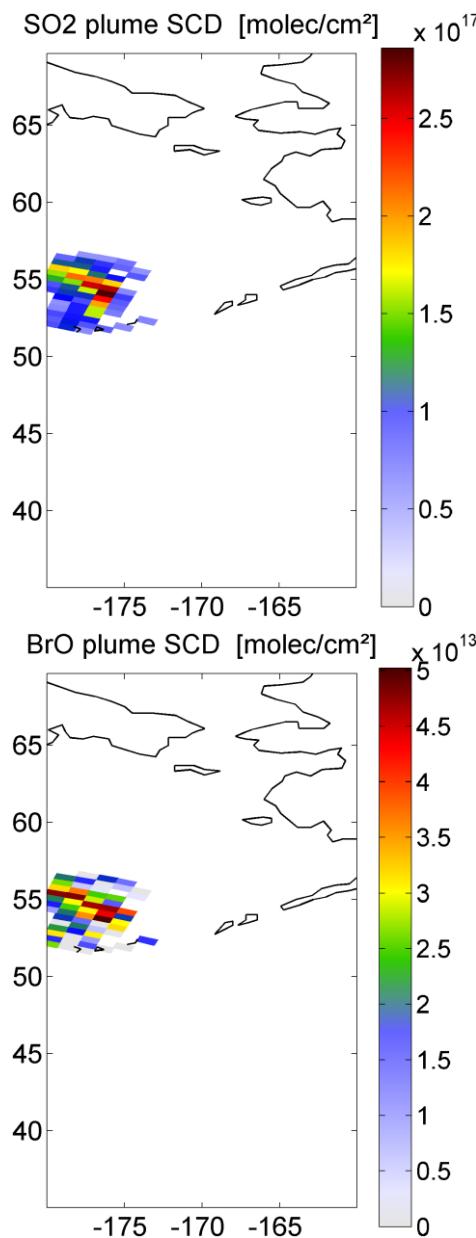
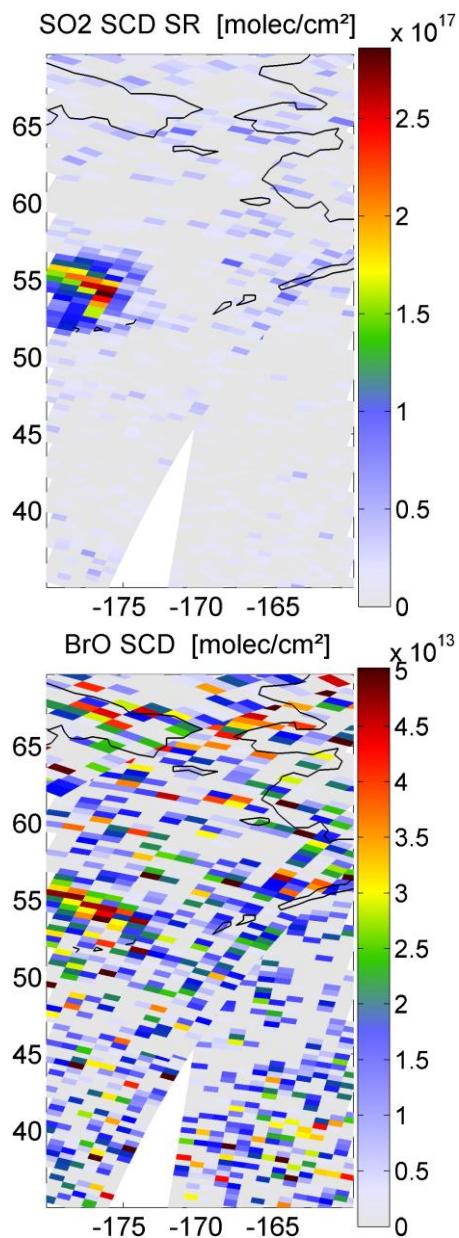
#48 Ambrym 16.07.2007



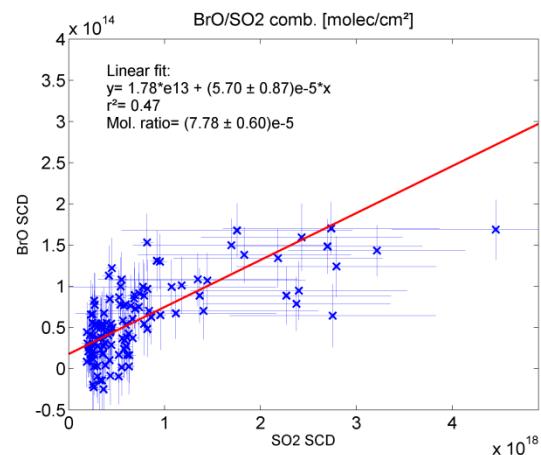
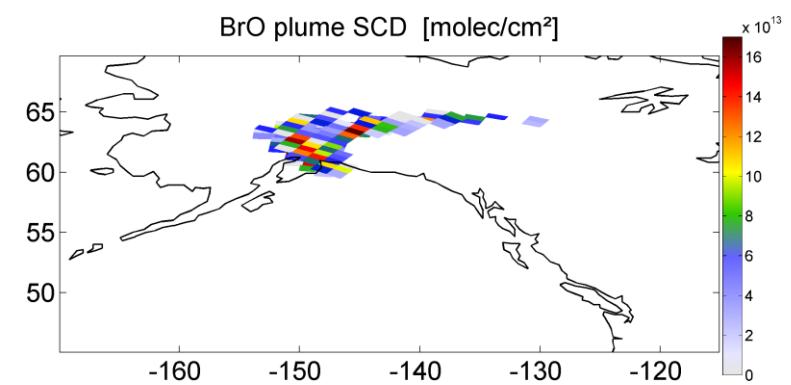
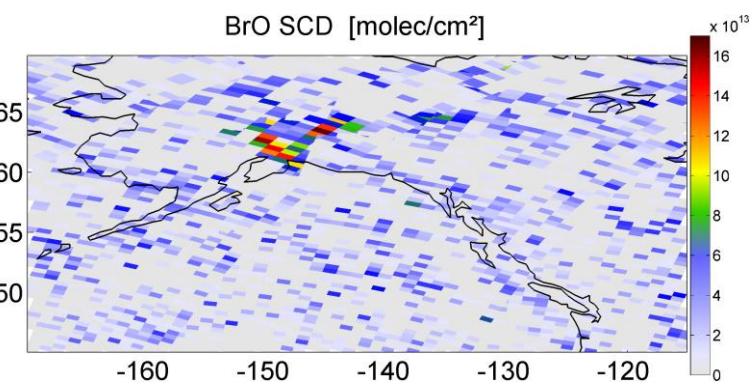
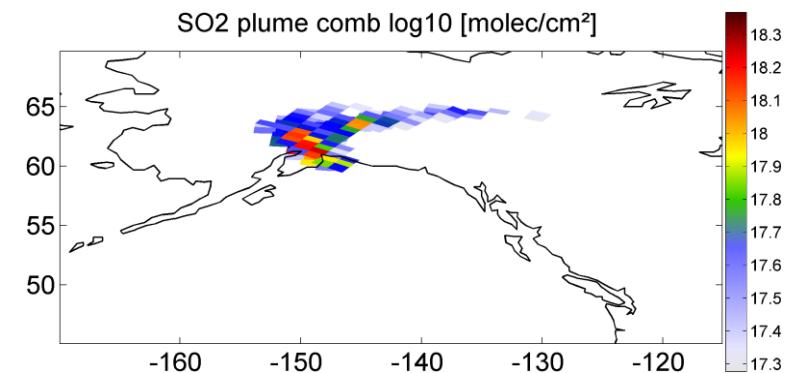
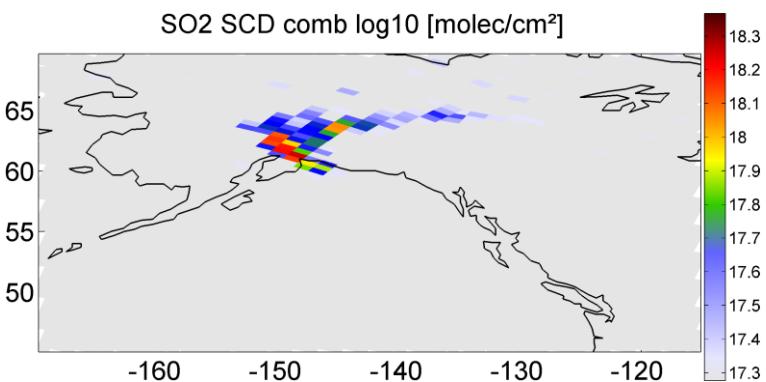
#163 Kasatochi 10.08.2008



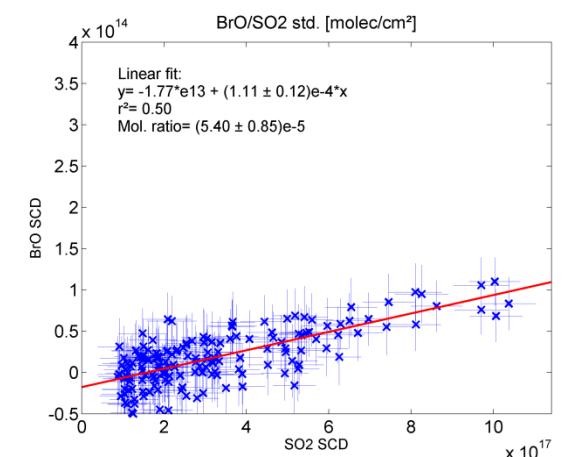
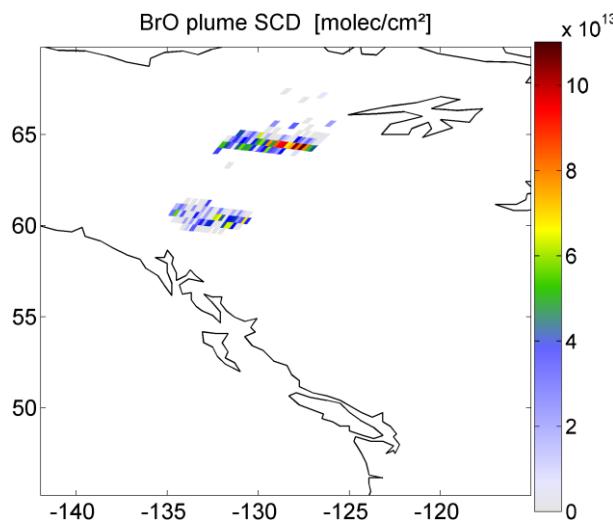
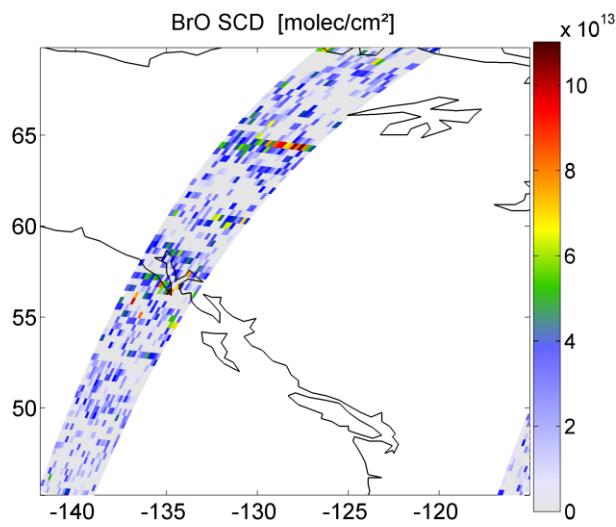
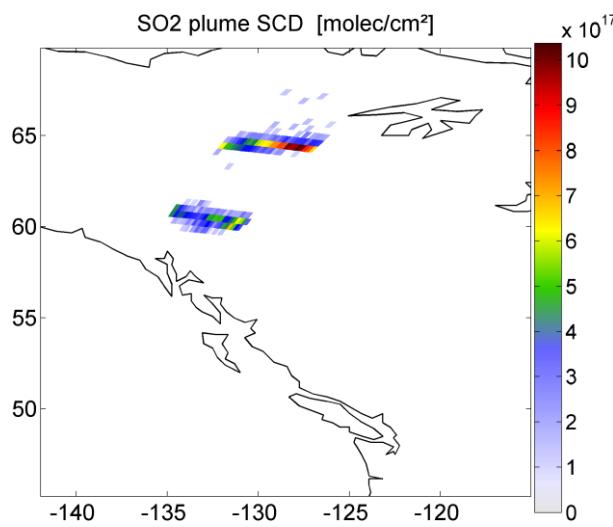
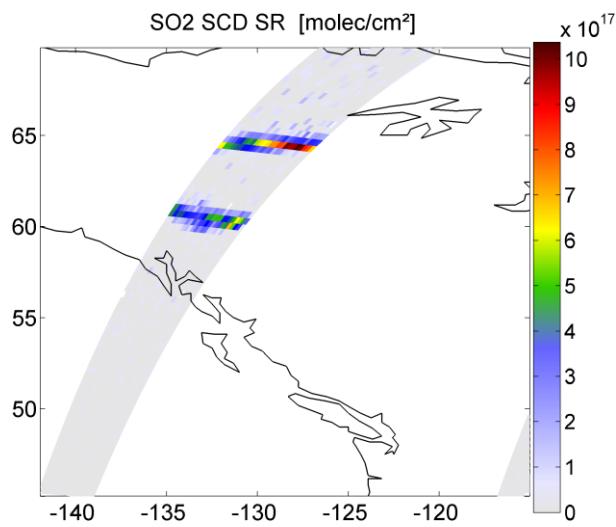
#186 Kasatochi 20.08.2008



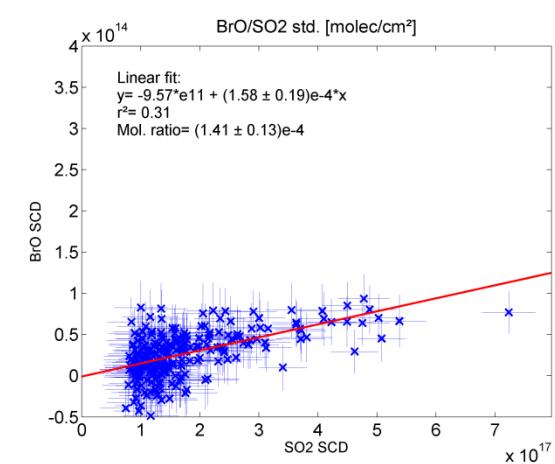
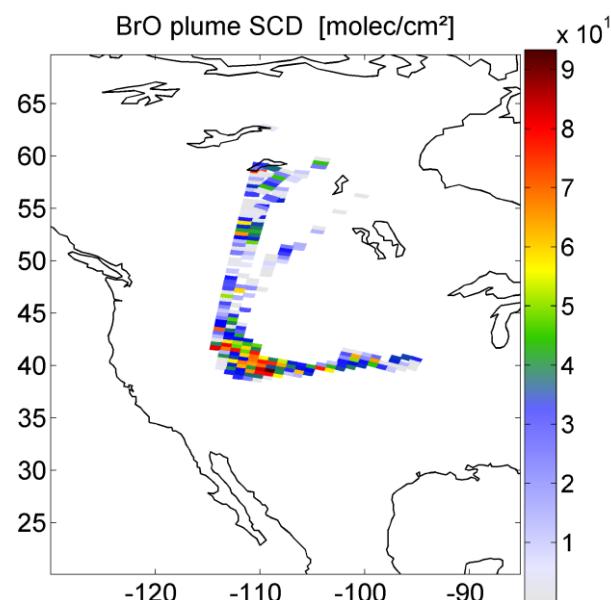
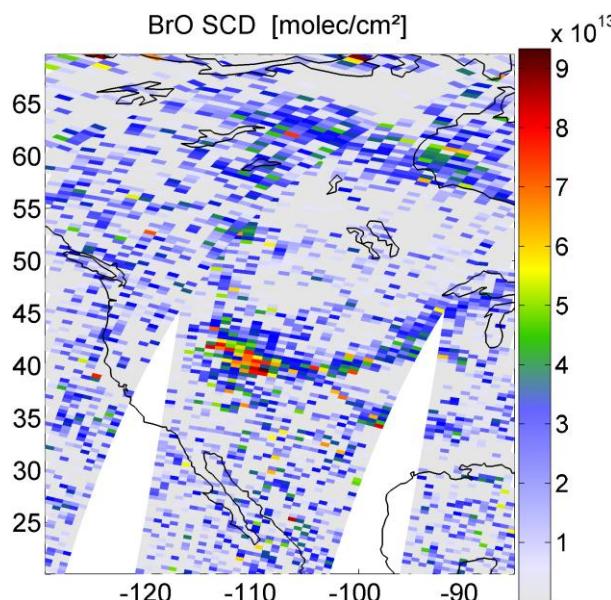
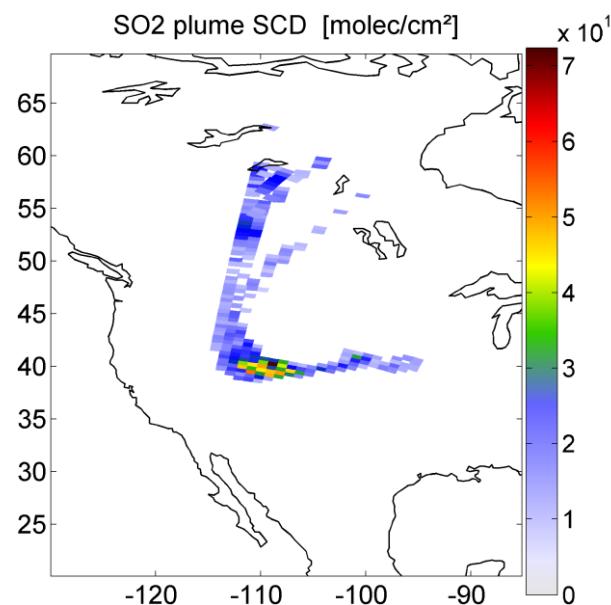
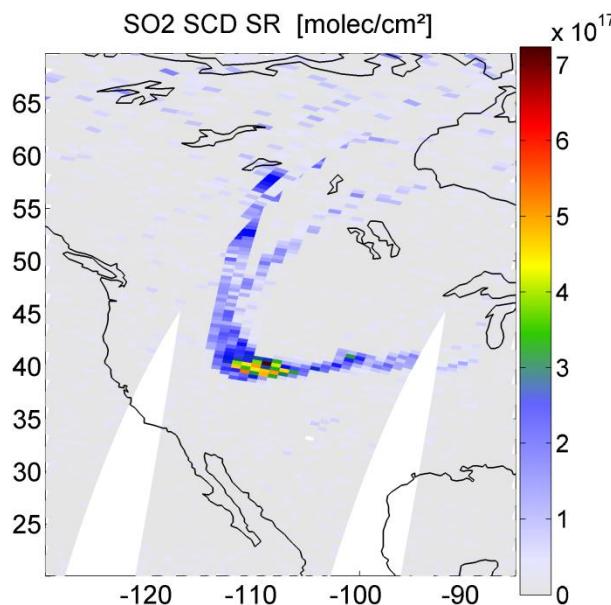
#278 Redoubt 23.03.2009



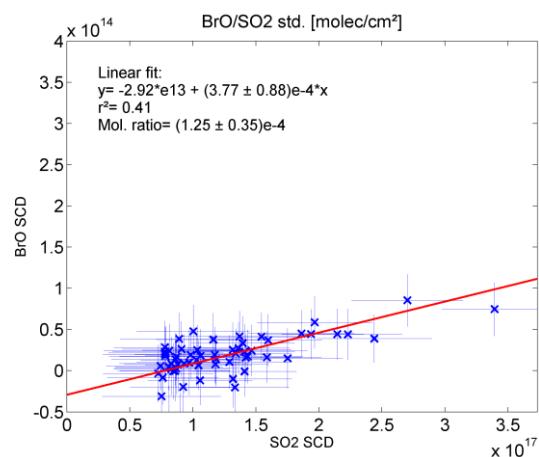
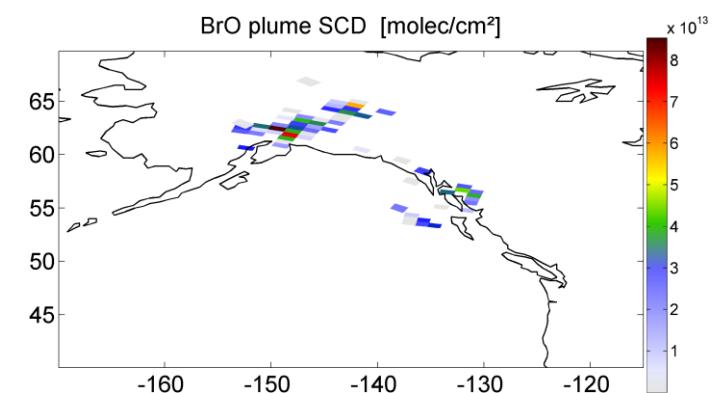
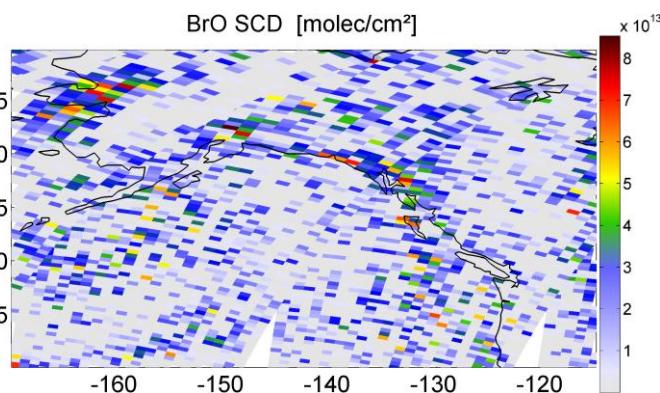
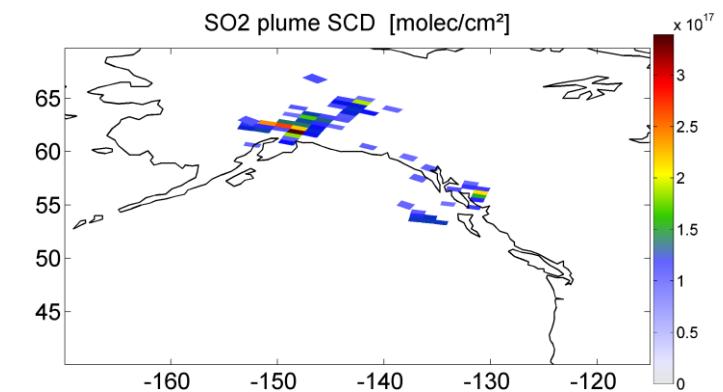
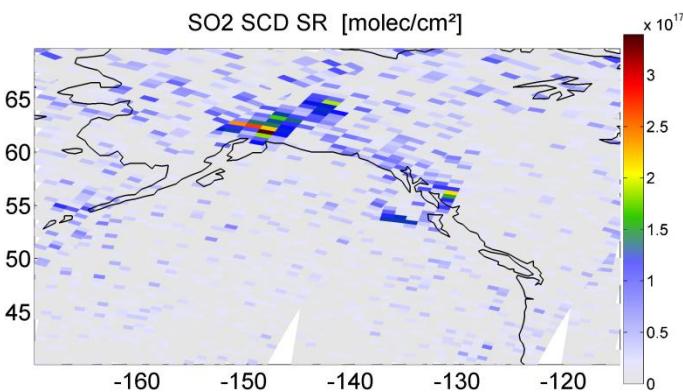
#279 Redoubt 24.03.2009



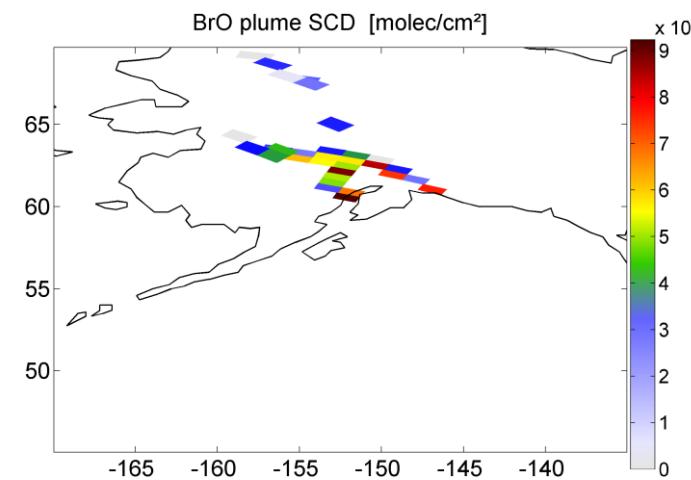
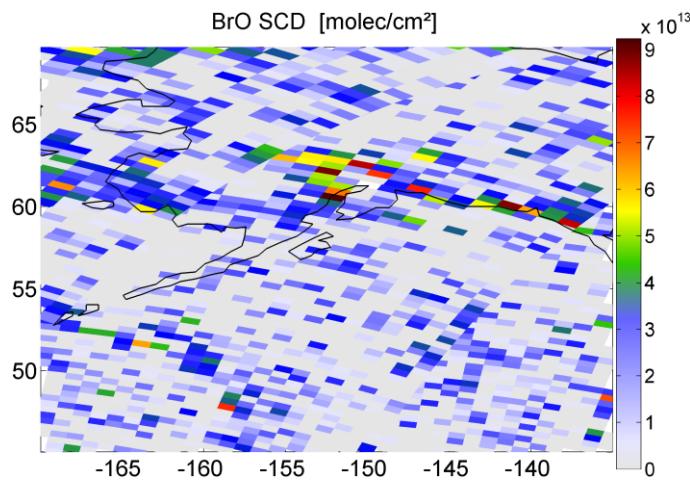
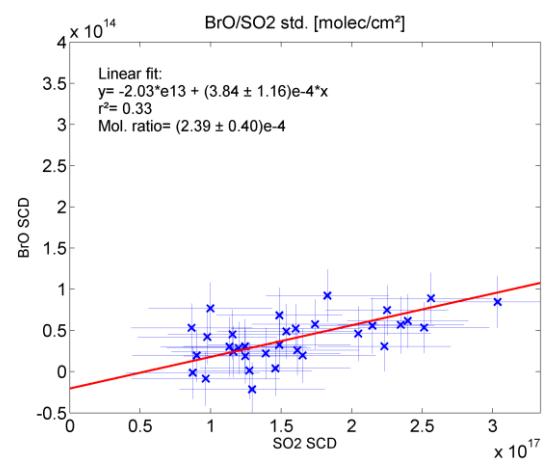
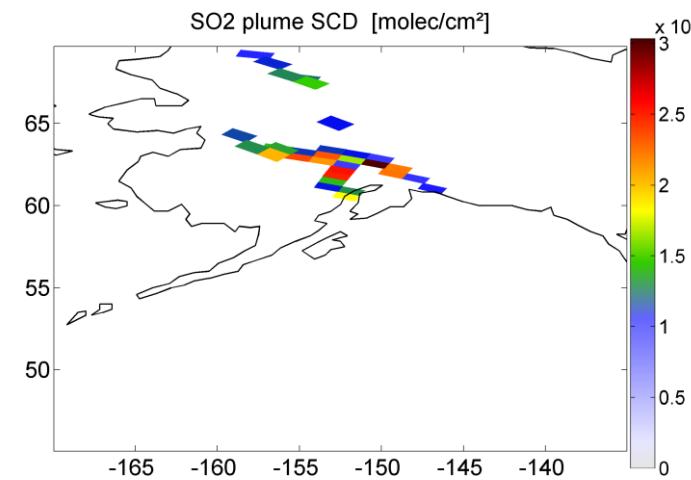
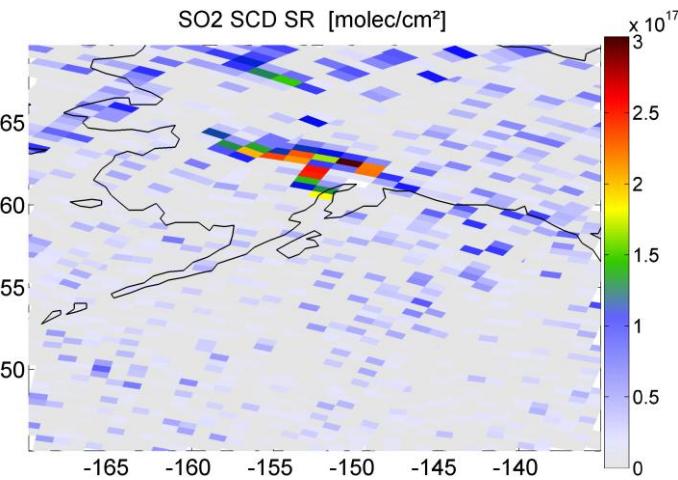
#281 Redoubt 26.03.2009



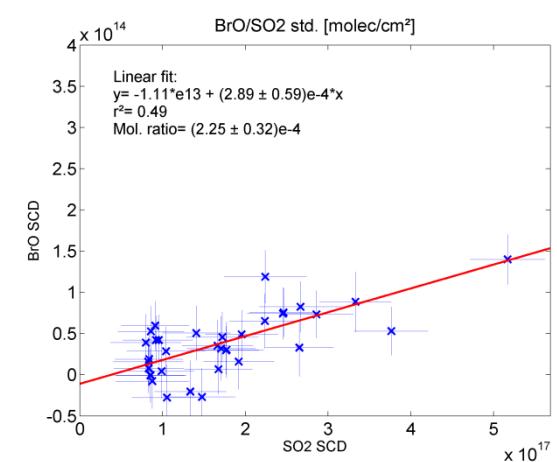
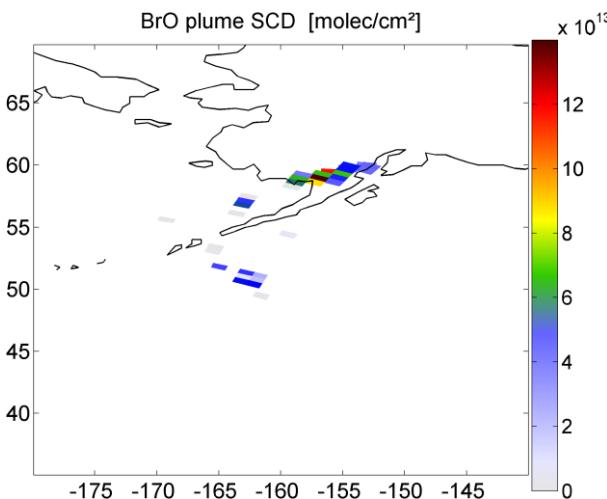
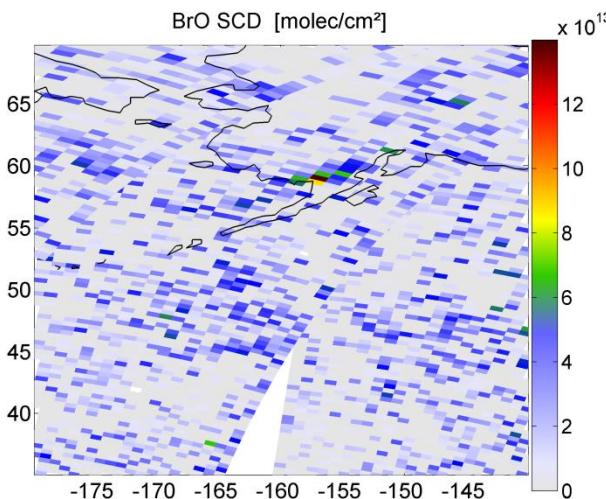
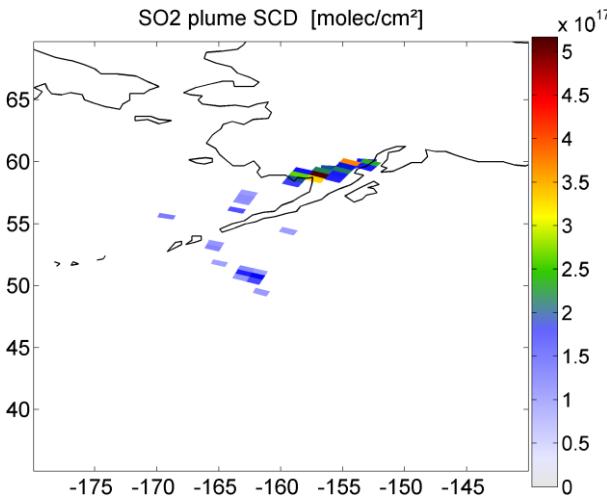
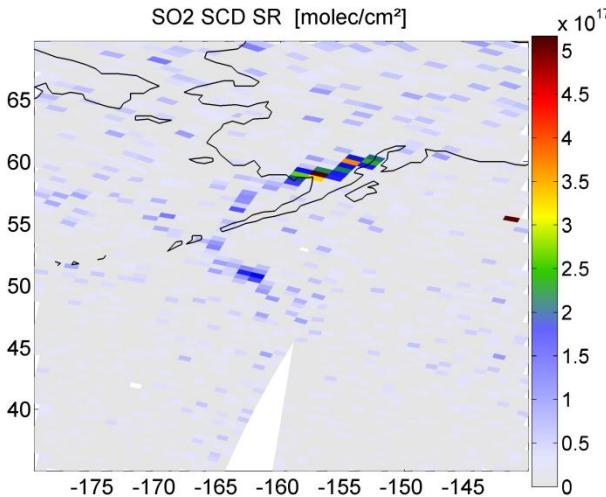
#306 Redoubt 09.04.2009



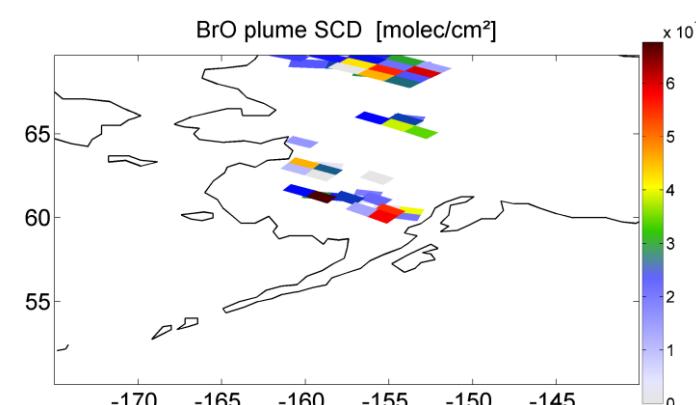
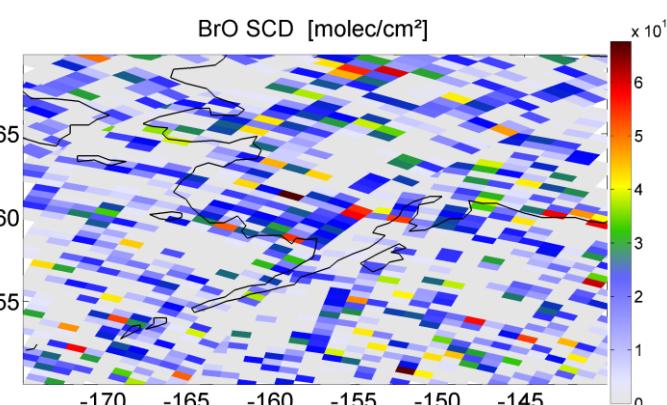
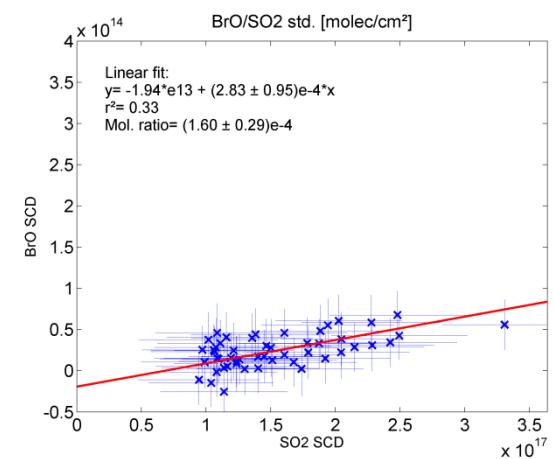
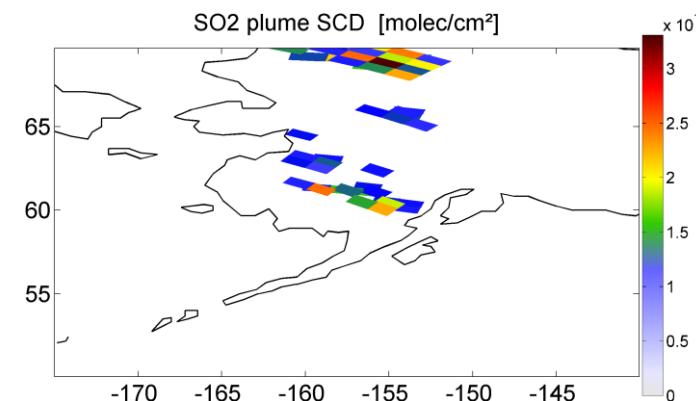
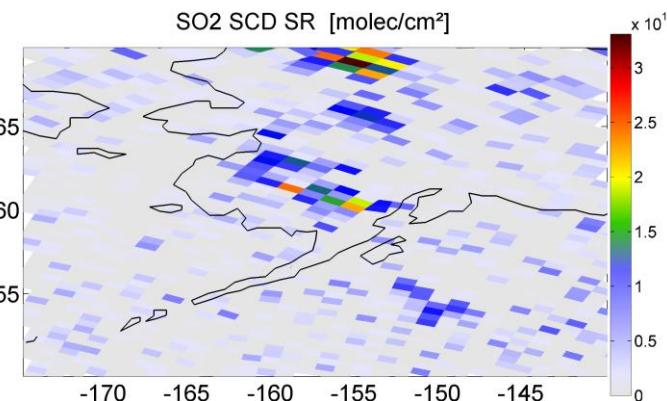
#312 Redoubt 13.04.2009



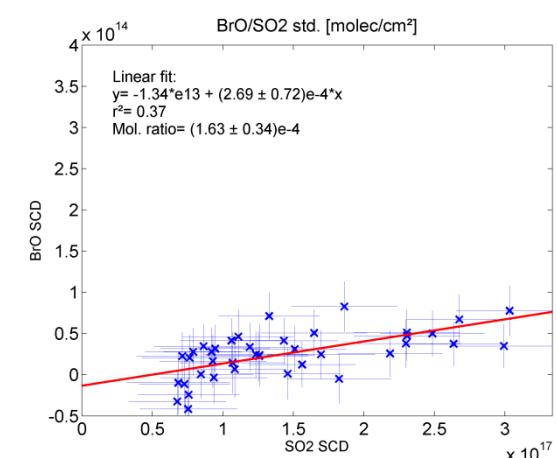
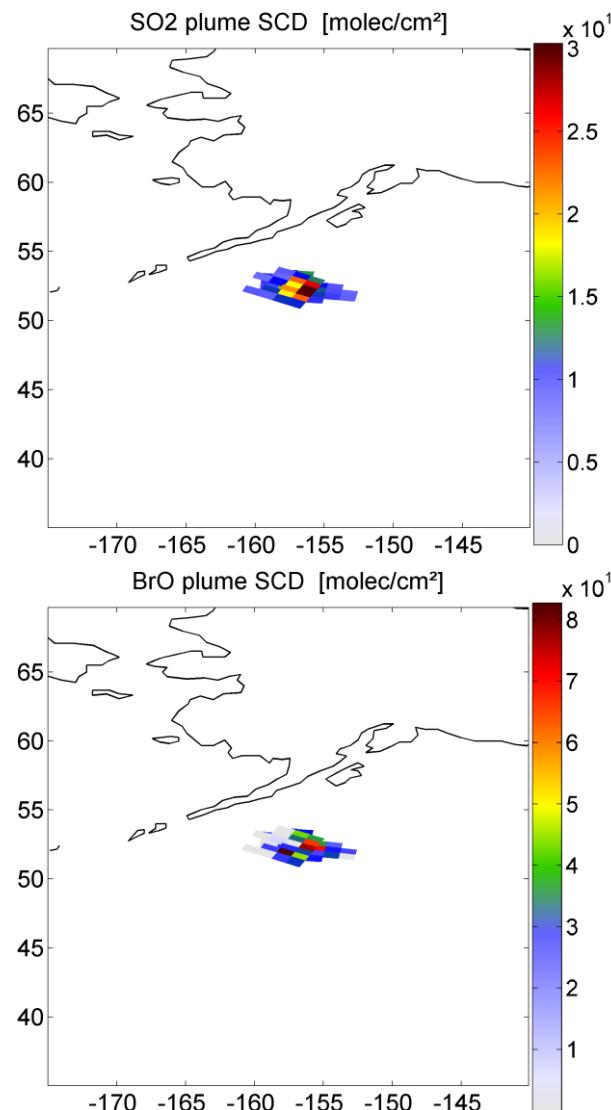
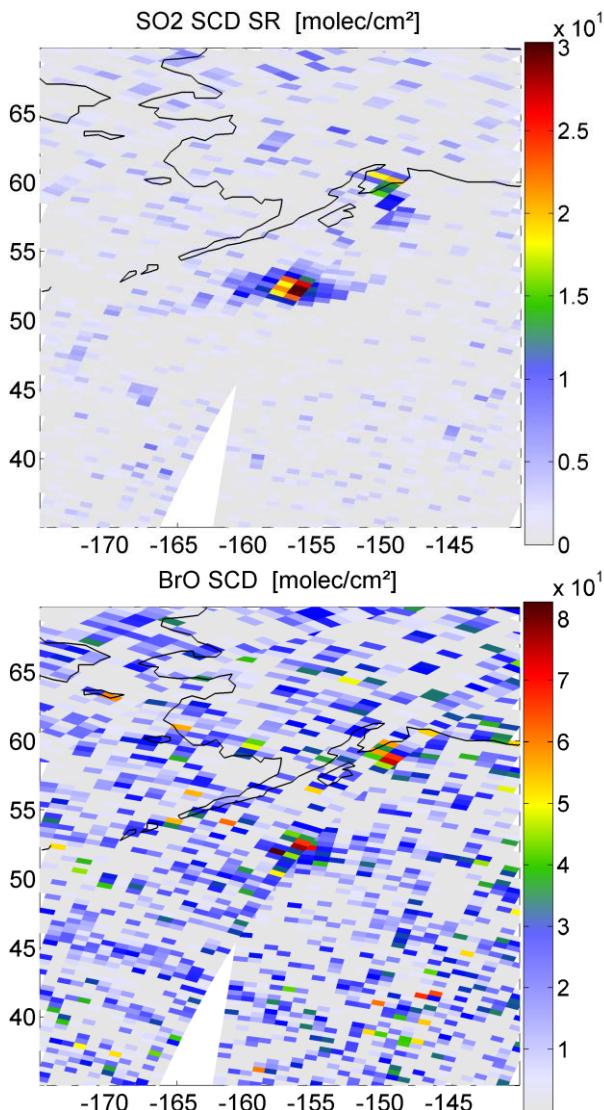
#317 Redoubt 16.04.2009



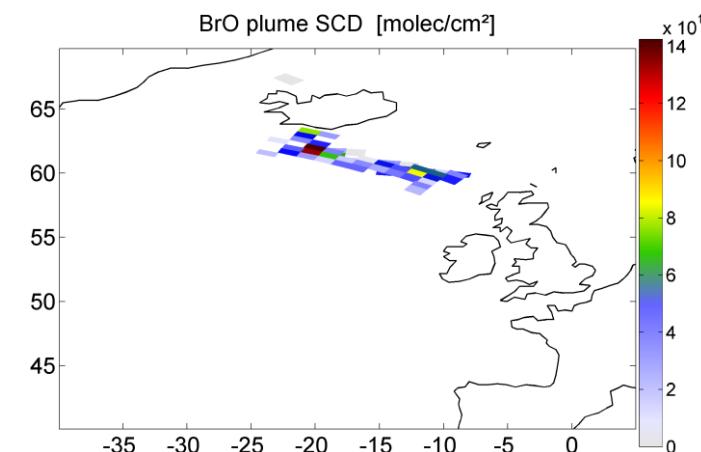
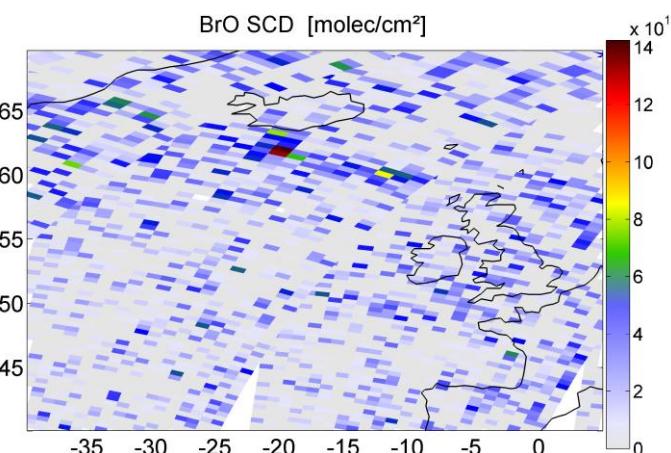
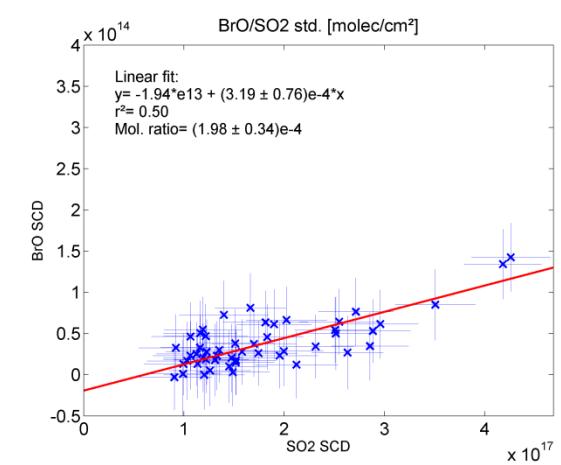
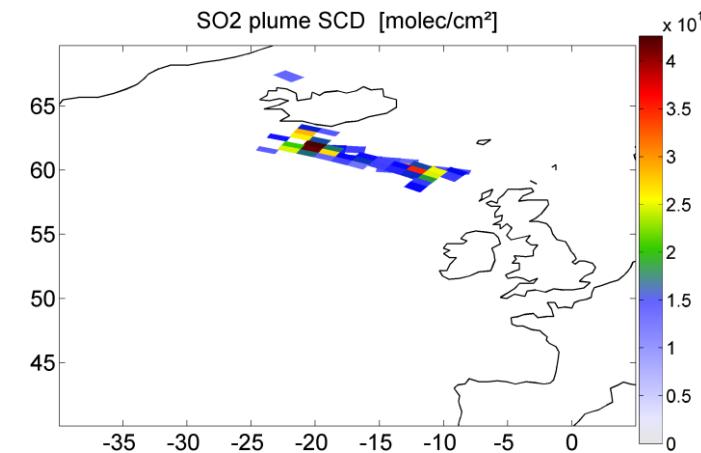
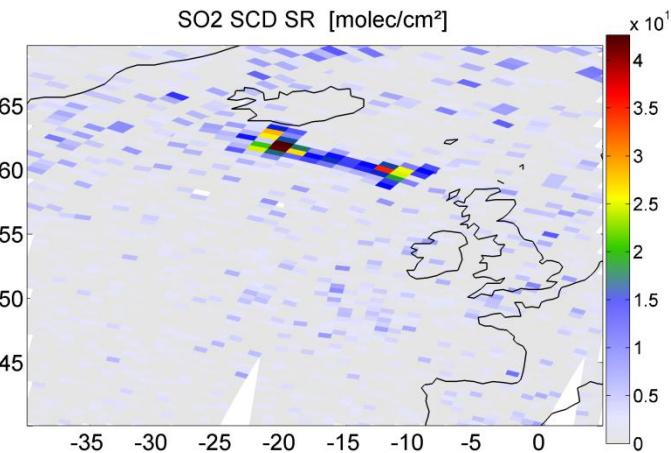
#324 Redoubt 19.04.2009



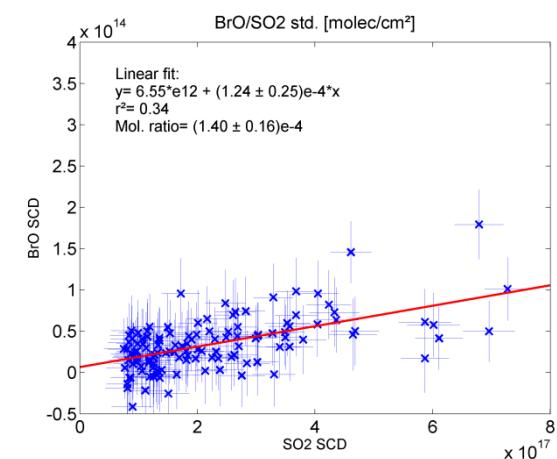
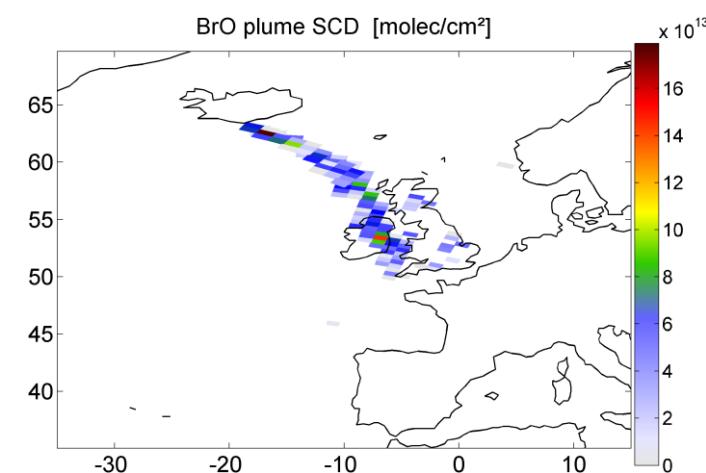
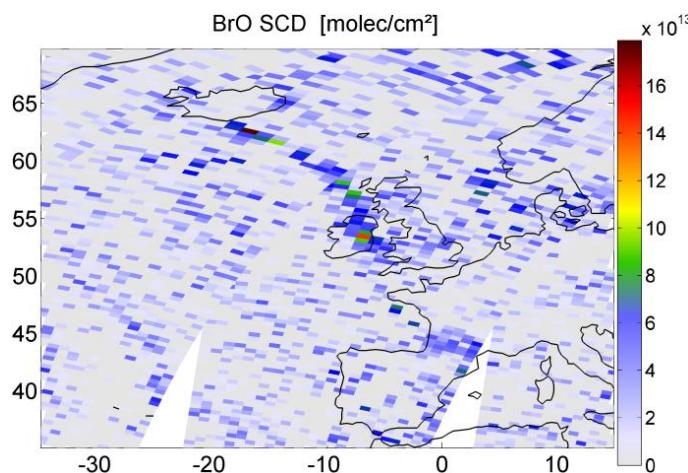
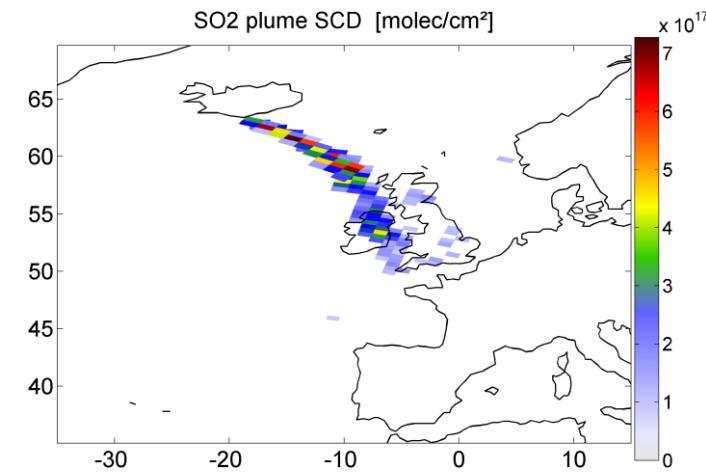
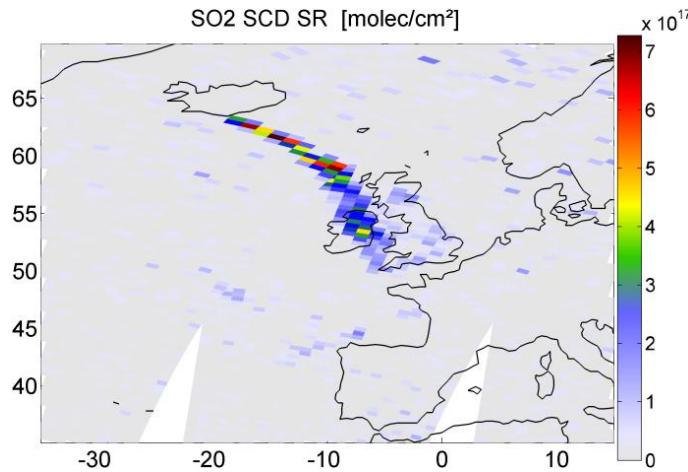
#344 Redoubt 05.05.2009



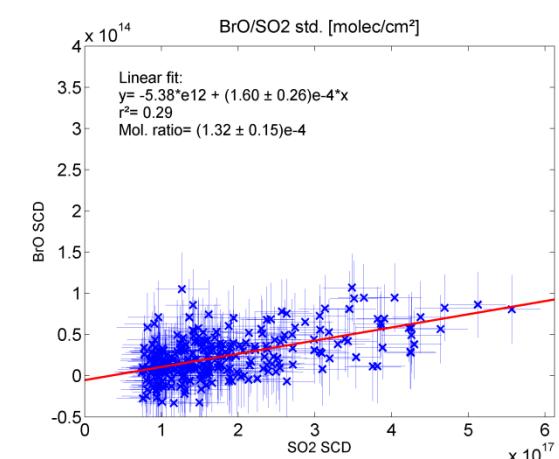
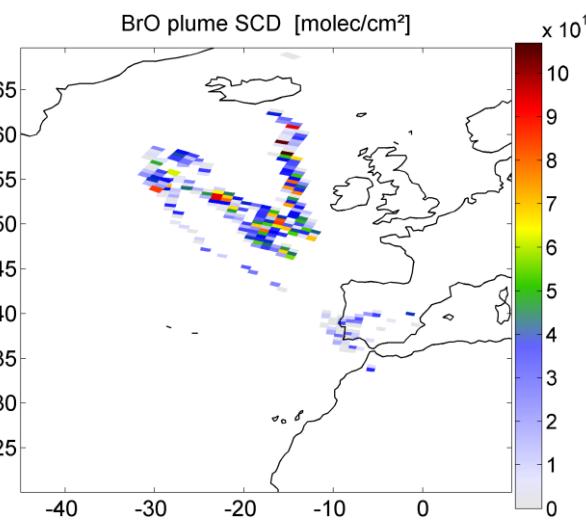
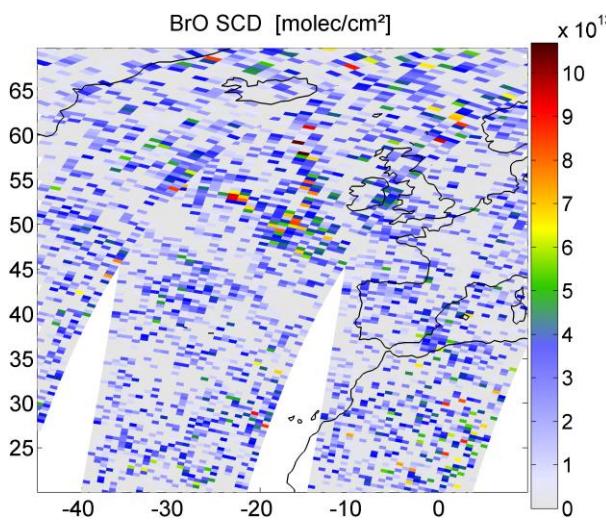
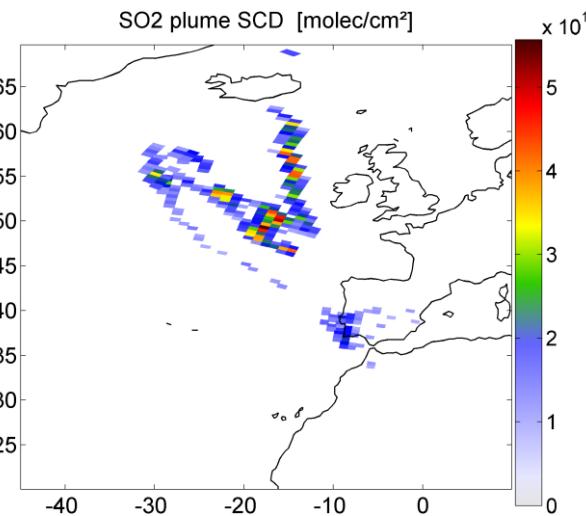
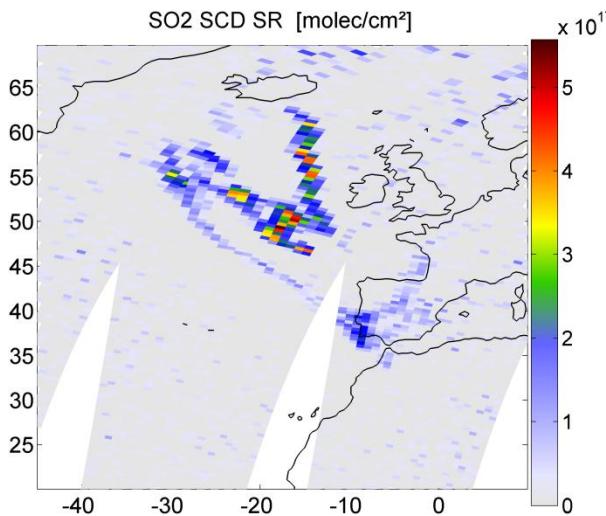
#551 Eyjafjallajökull 30.04.2010



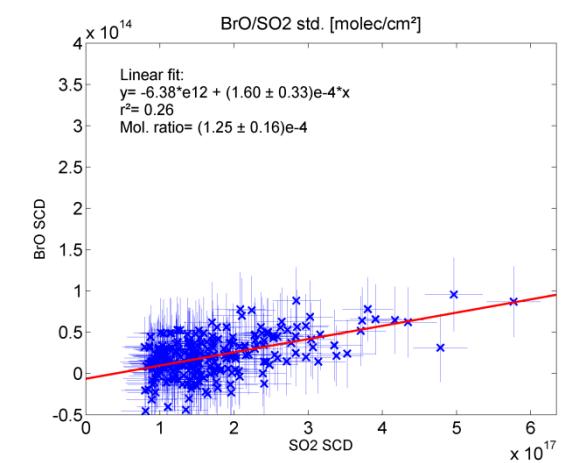
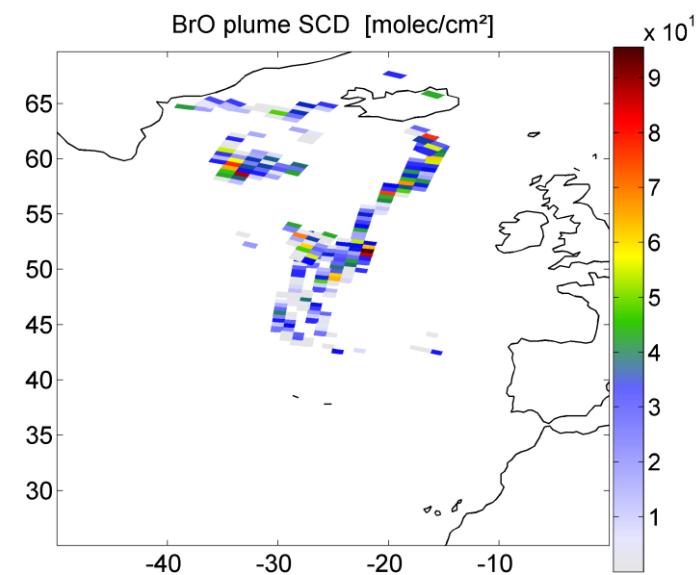
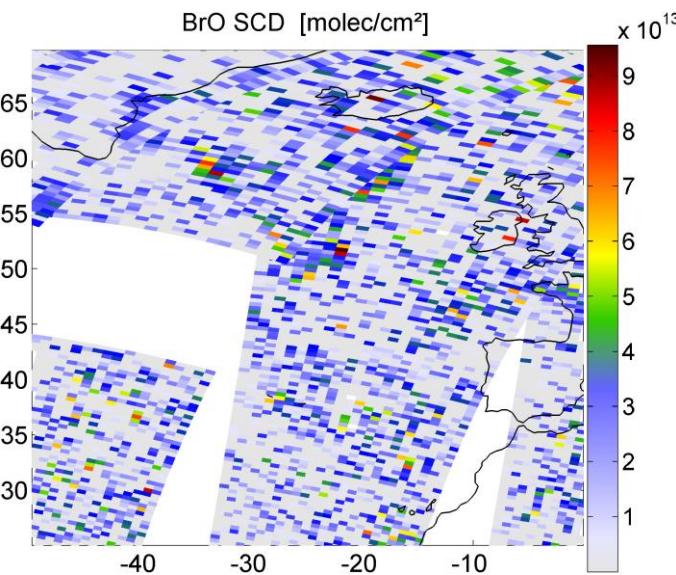
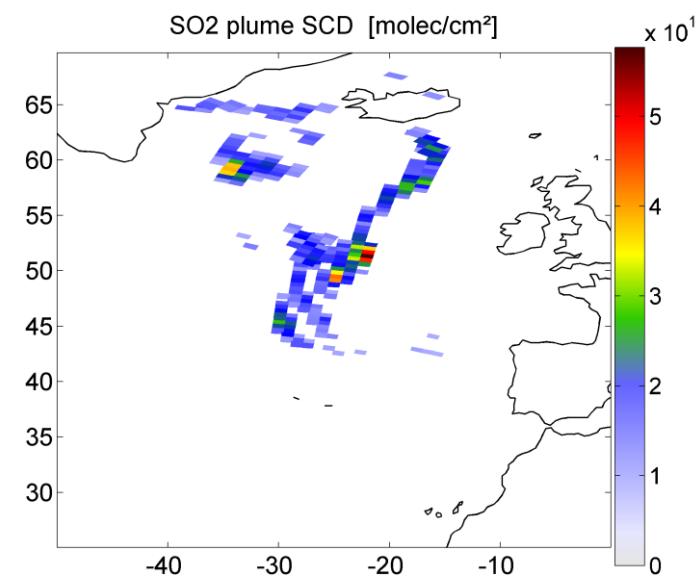
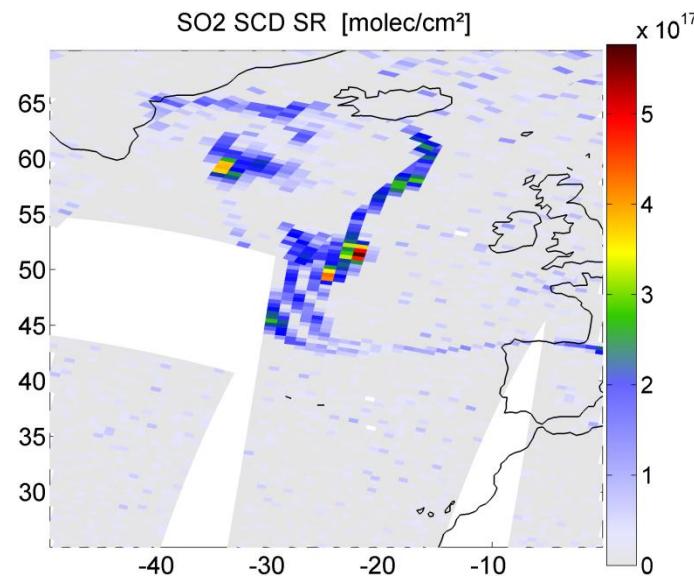
#555 Eyjafjallajökull 05.05.2010



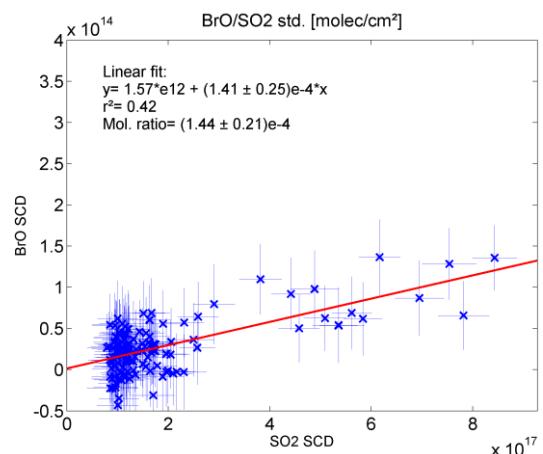
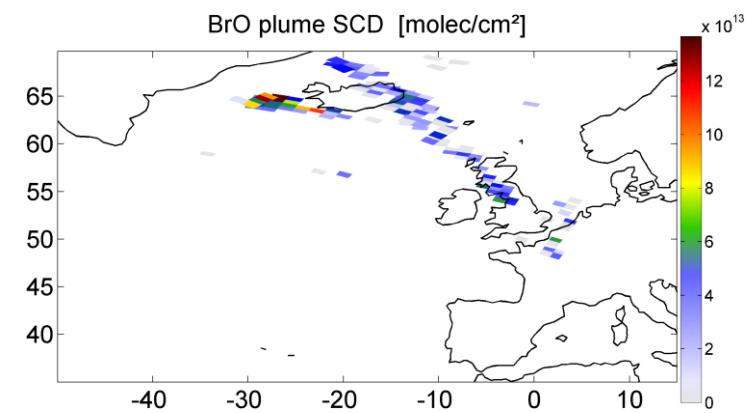
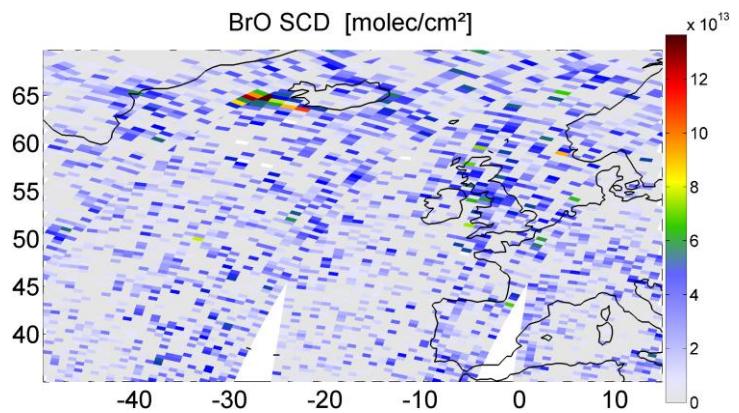
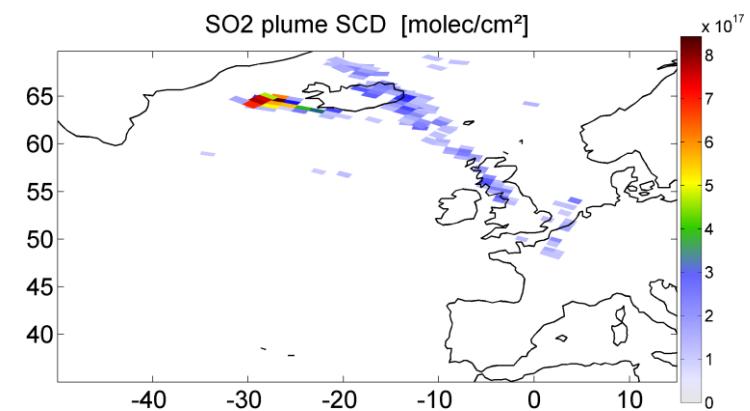
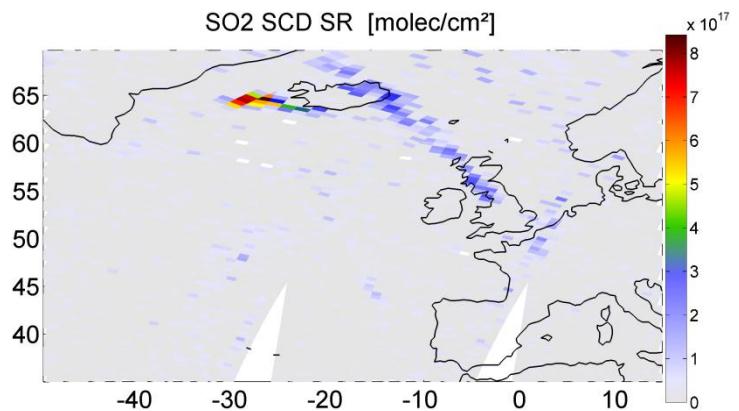
#557 Eyjafjallajökull 07.05.2010



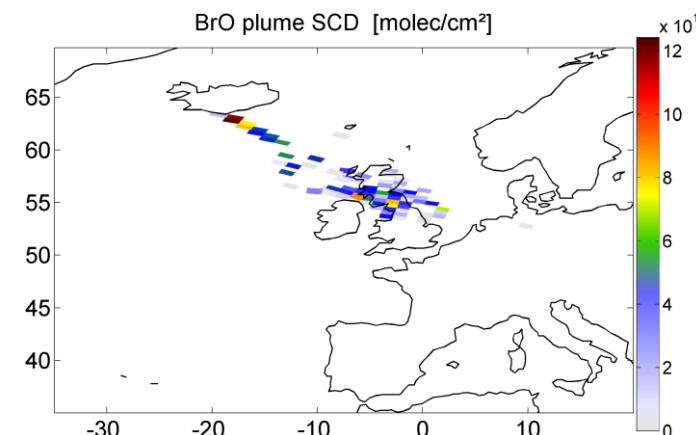
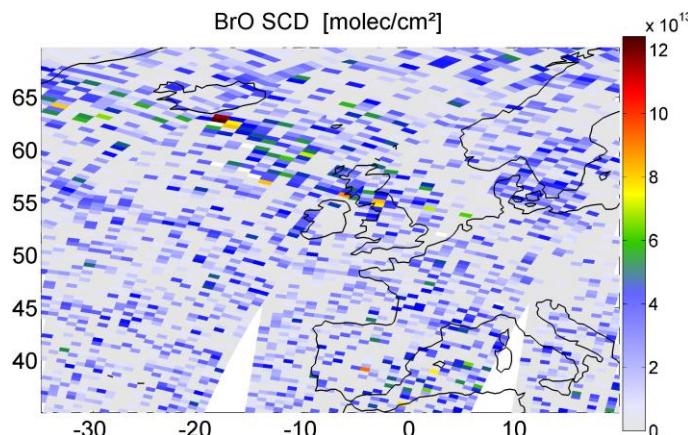
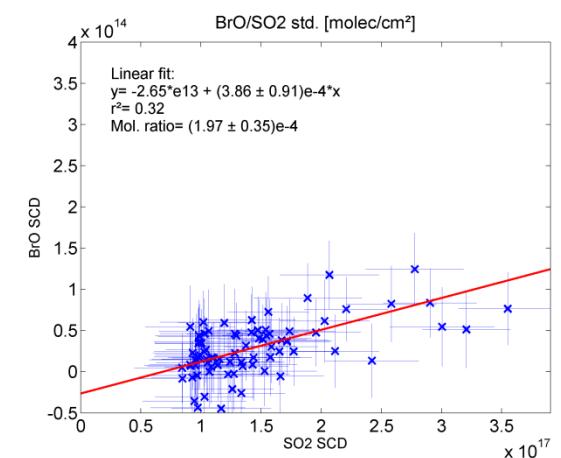
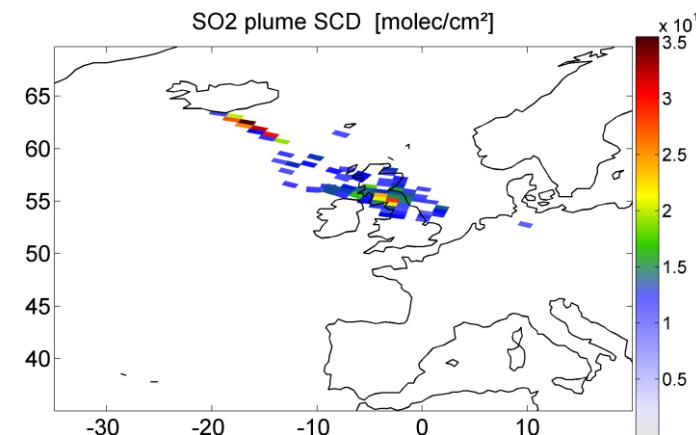
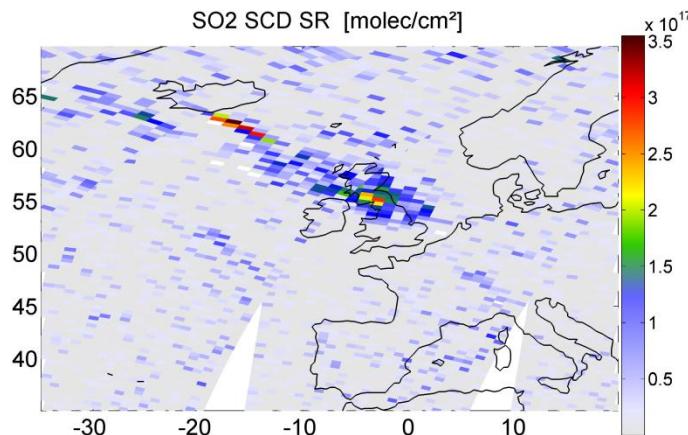
#558 Eyjafjallajökull 08.05.2010



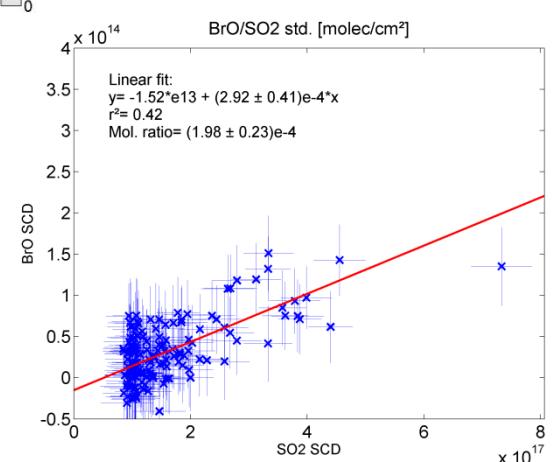
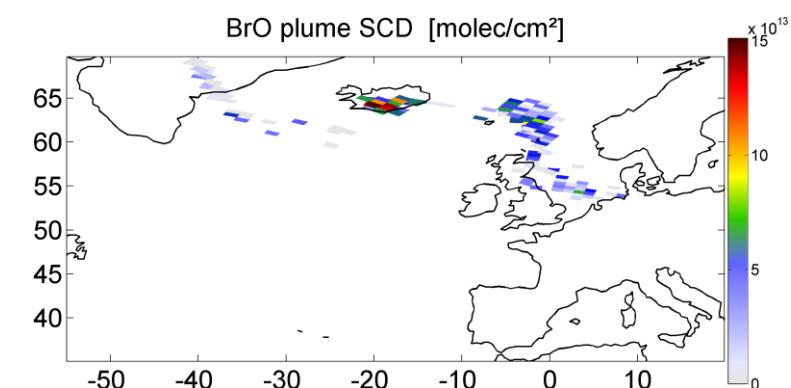
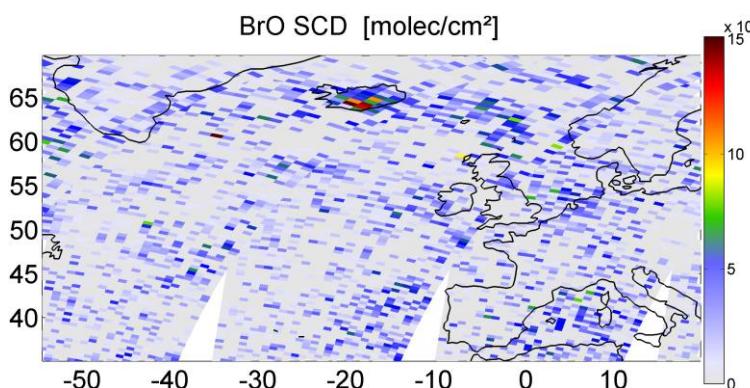
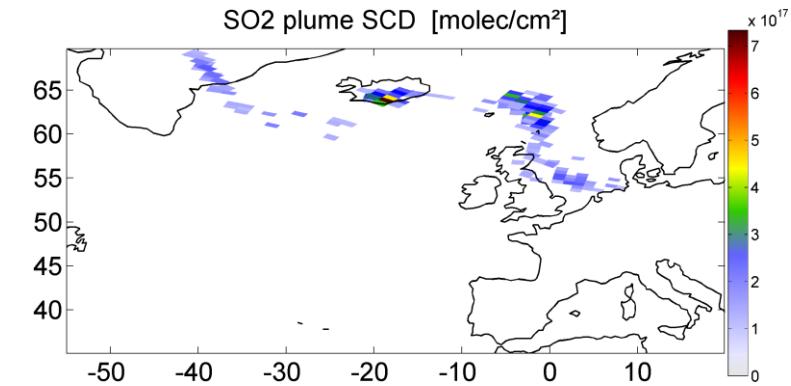
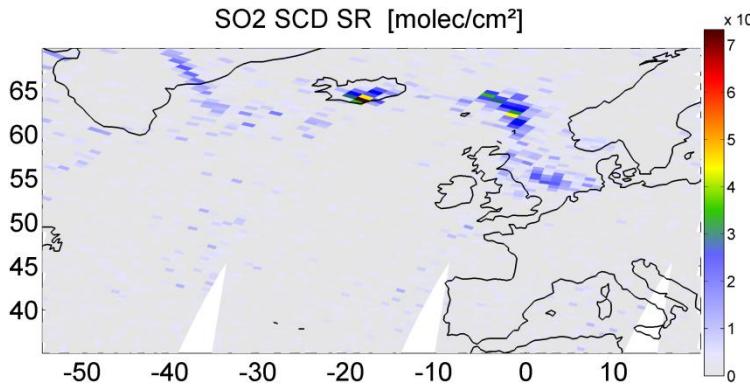
#568 Eyjafjallajökull 14.05.2010



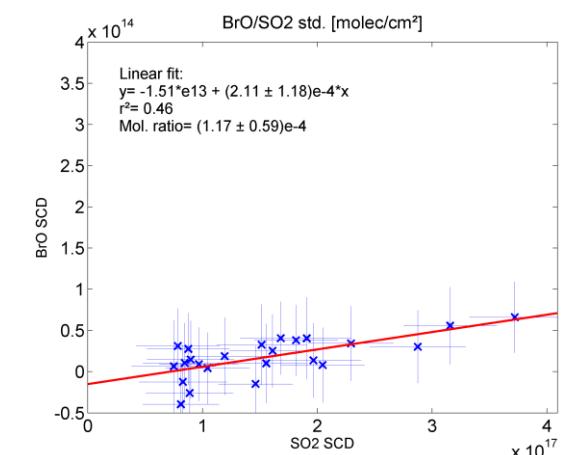
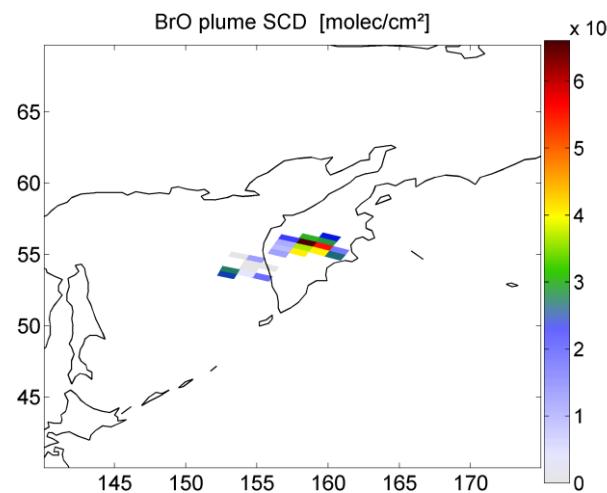
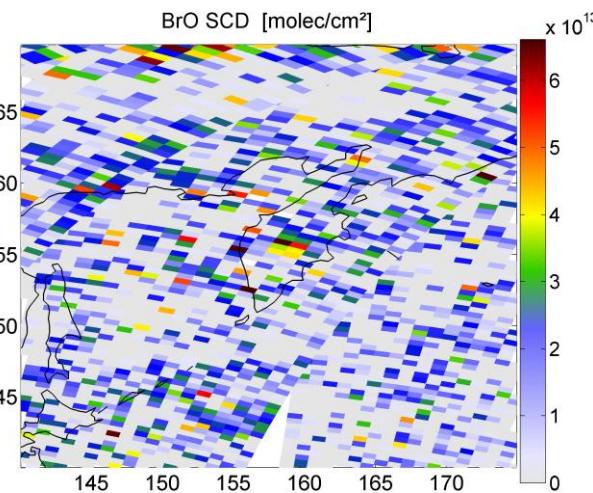
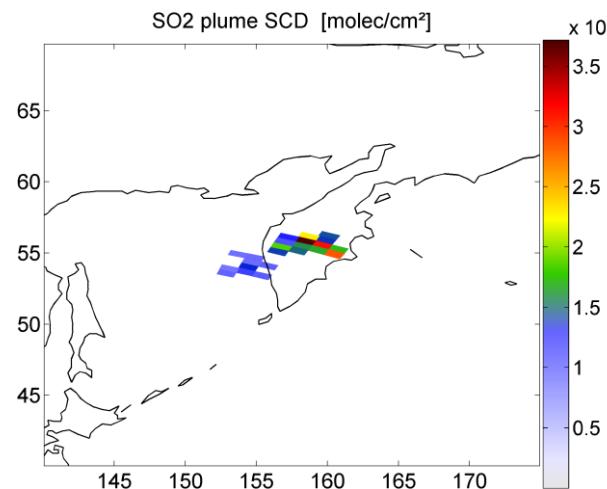
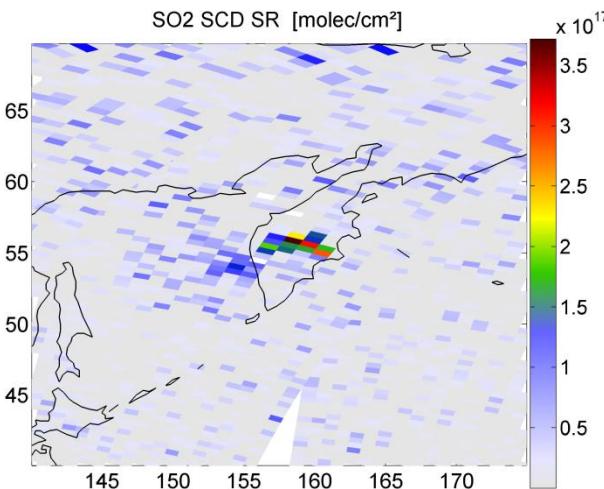
#570 Eyjafjallajökull 16.05.2010



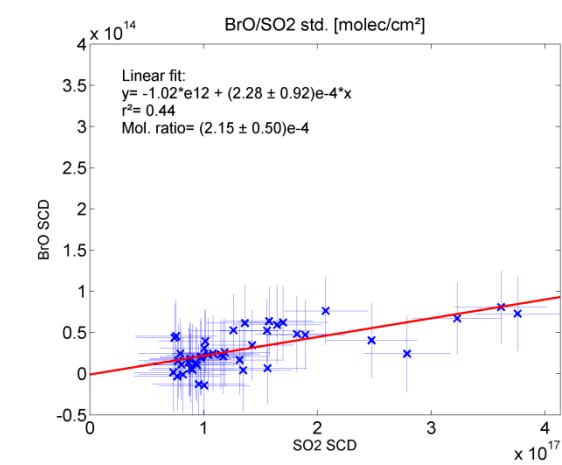
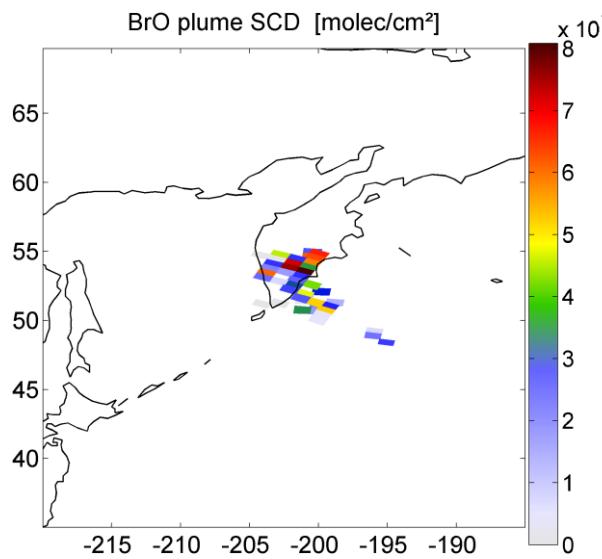
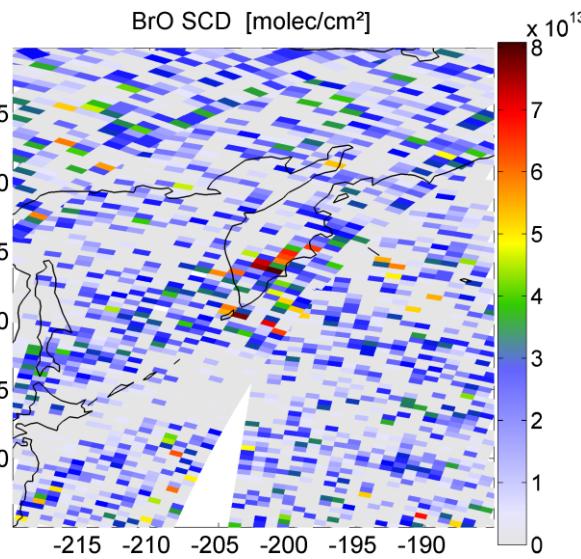
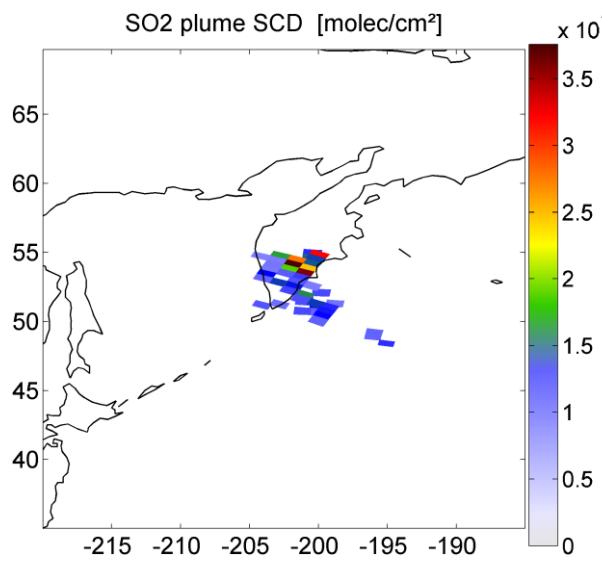
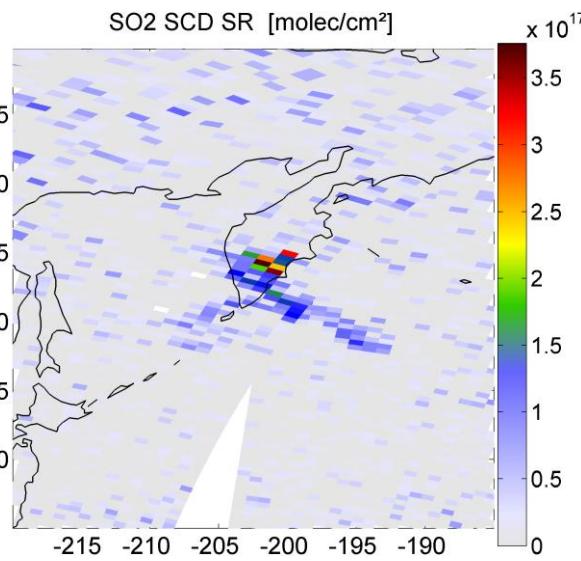
#572 Eyjafjallajökull 17.05.2010



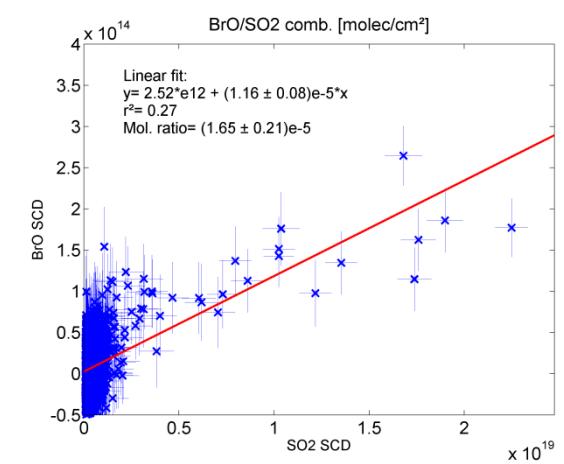
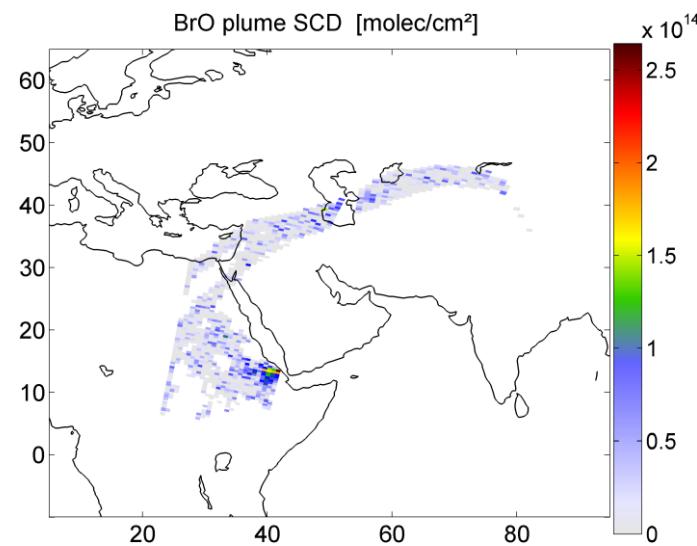
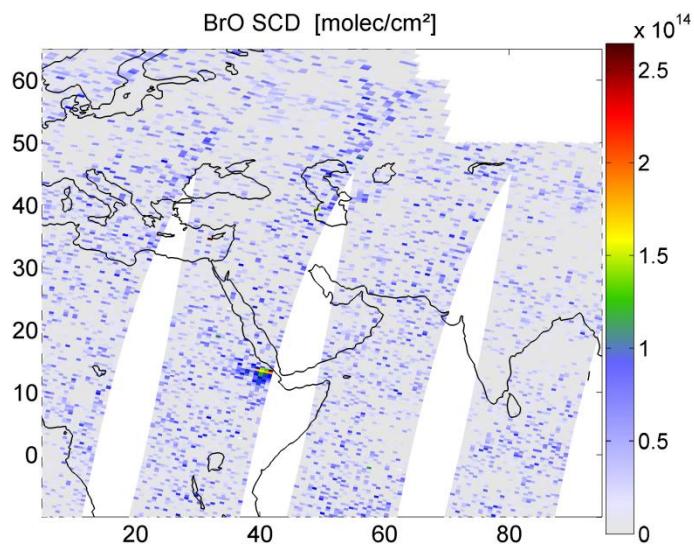
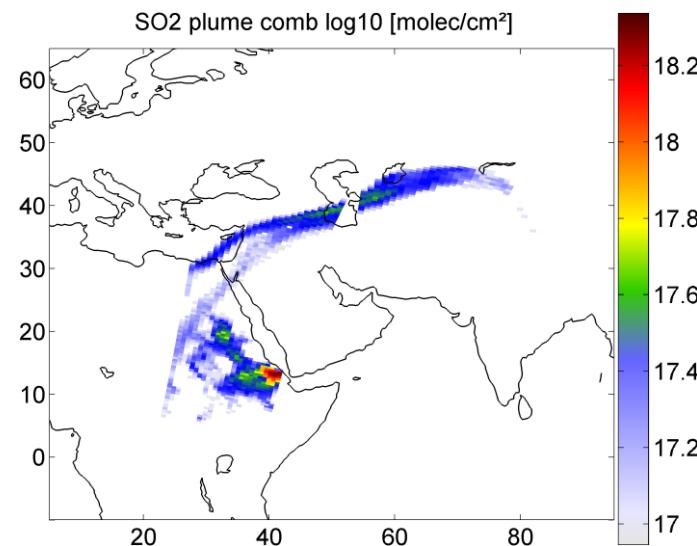
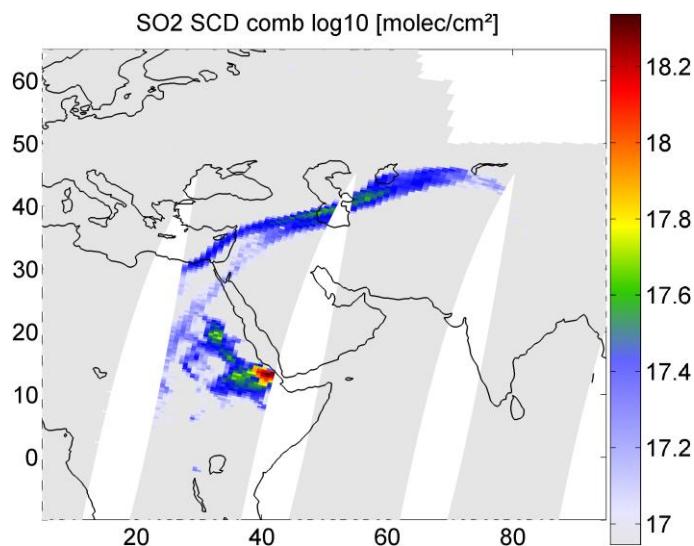
#696 Kizimen 03.05.2011



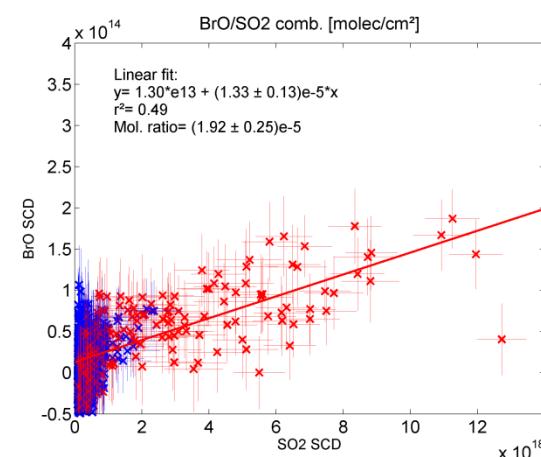
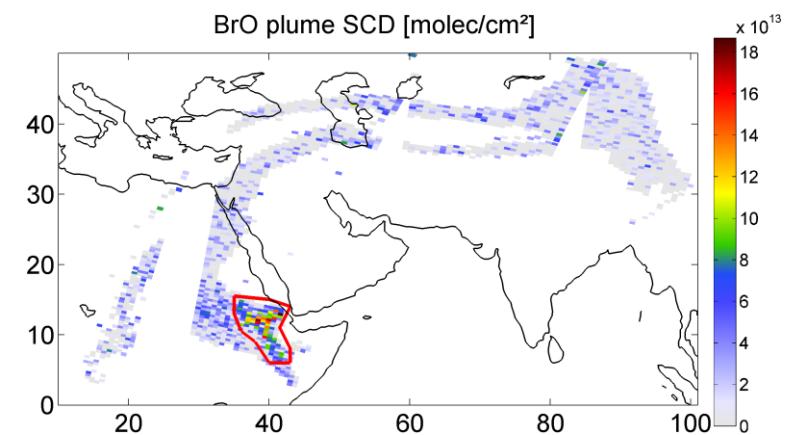
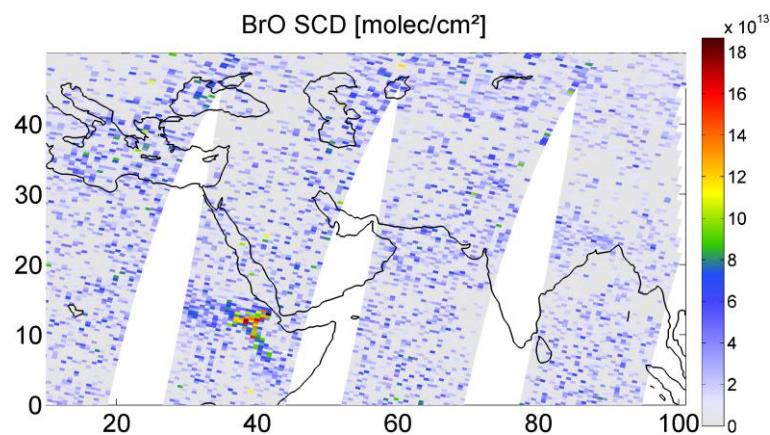
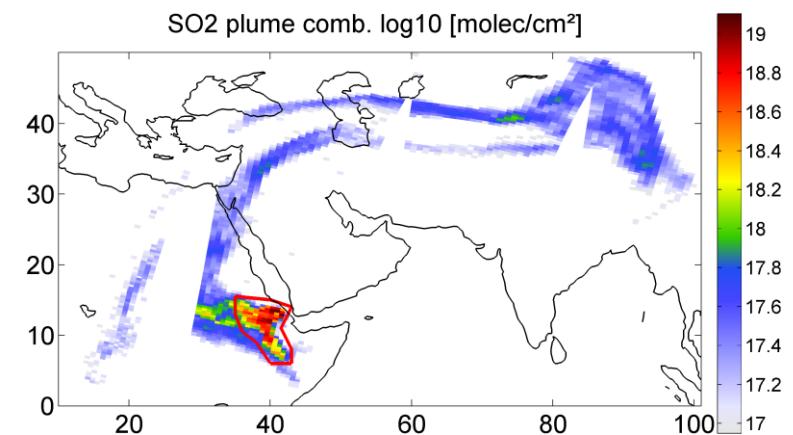
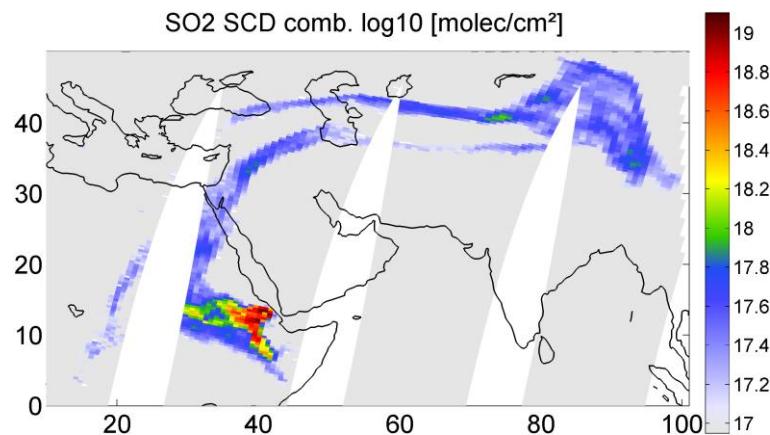
#706 Kizimen* 21./22.05.2011



#748 Nabro 15.06.2011

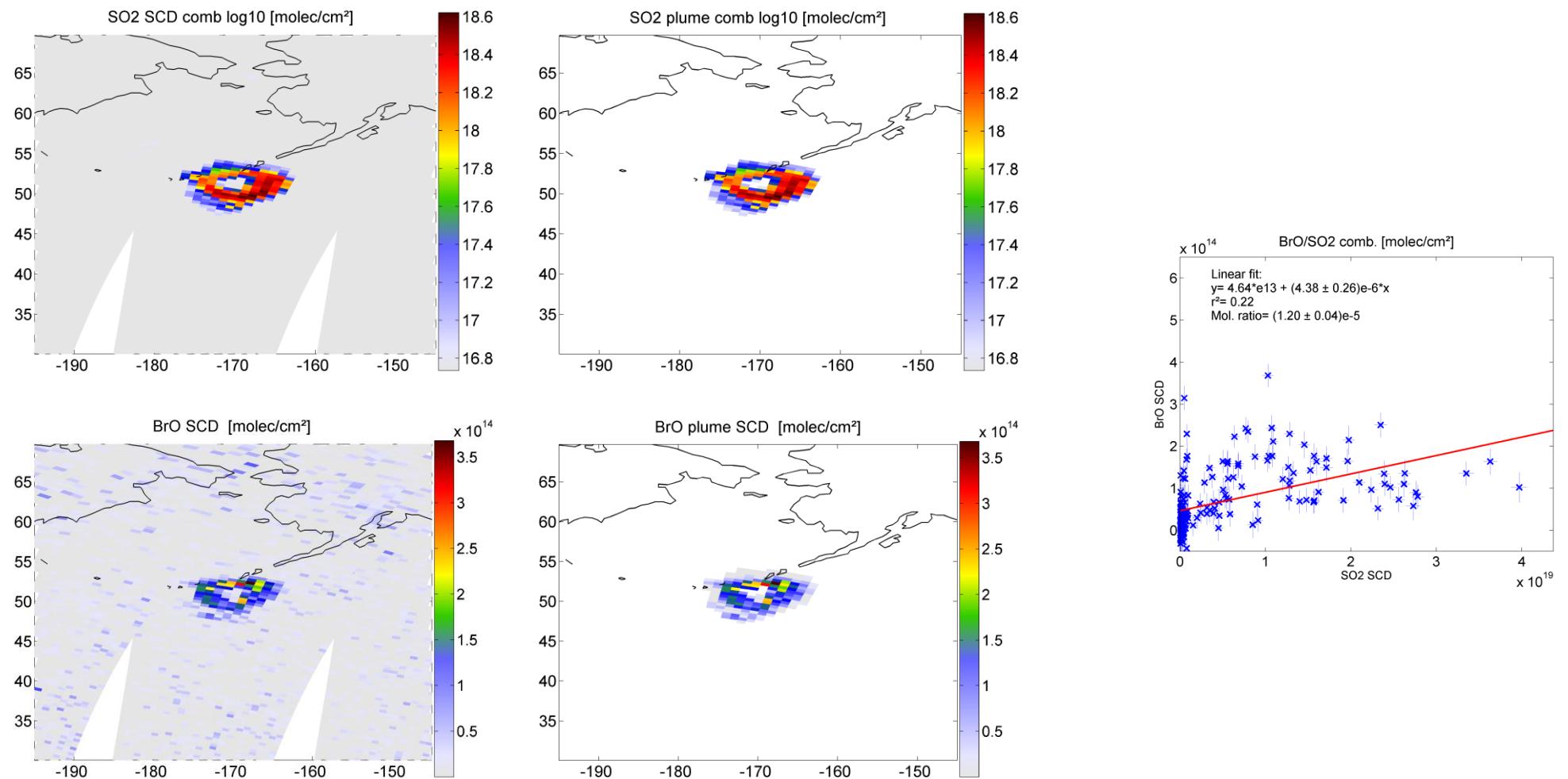


#749 Nabro 16.06.2011

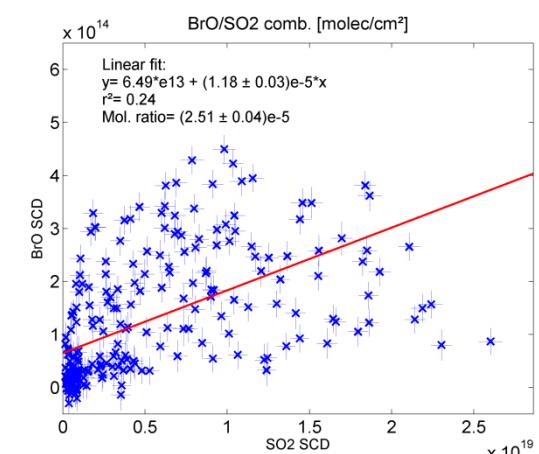
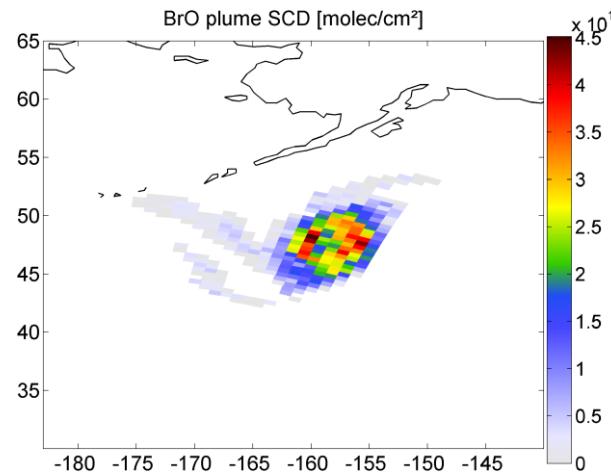
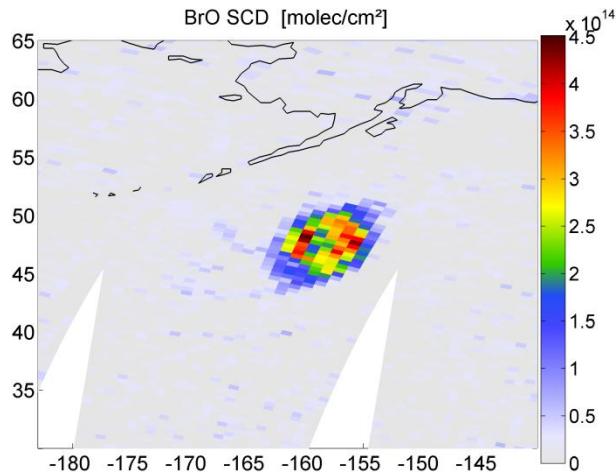
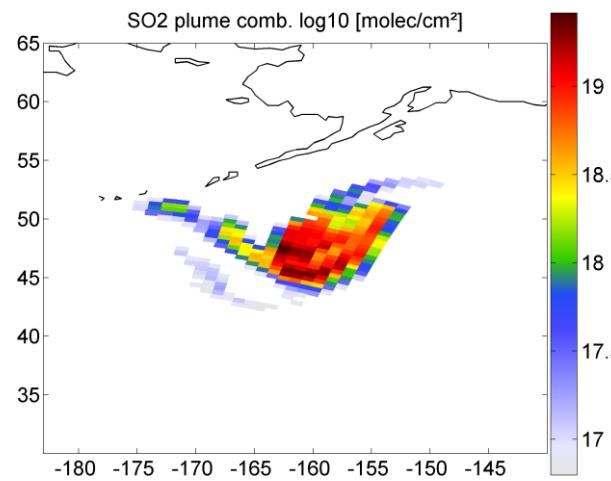
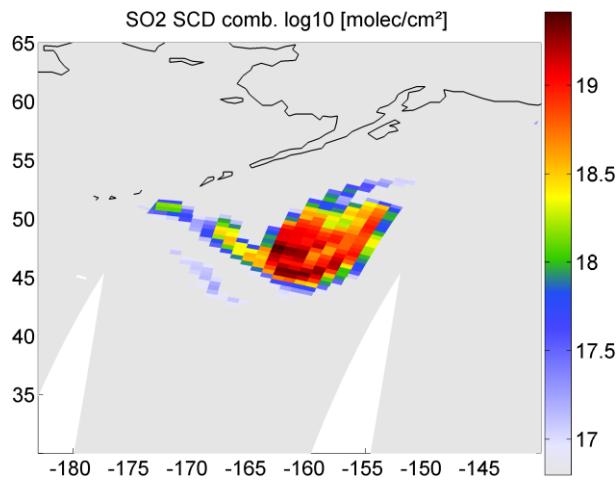


Category III

#160 Kasatochi 08.08.2008

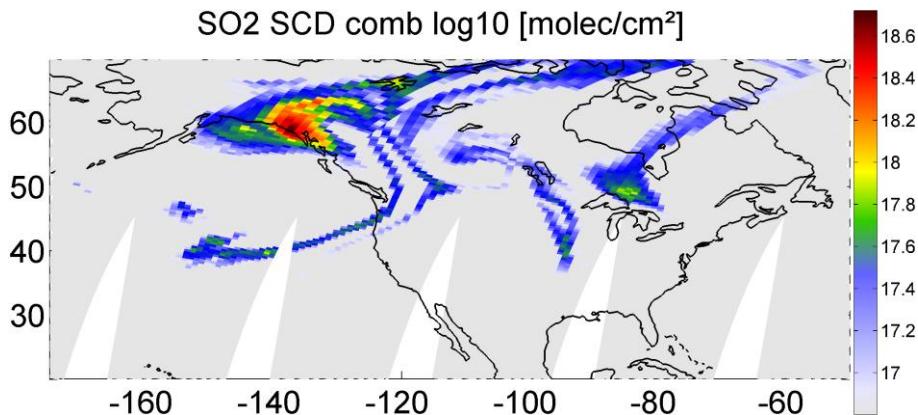


#162 Kasatochi 09.08.2008

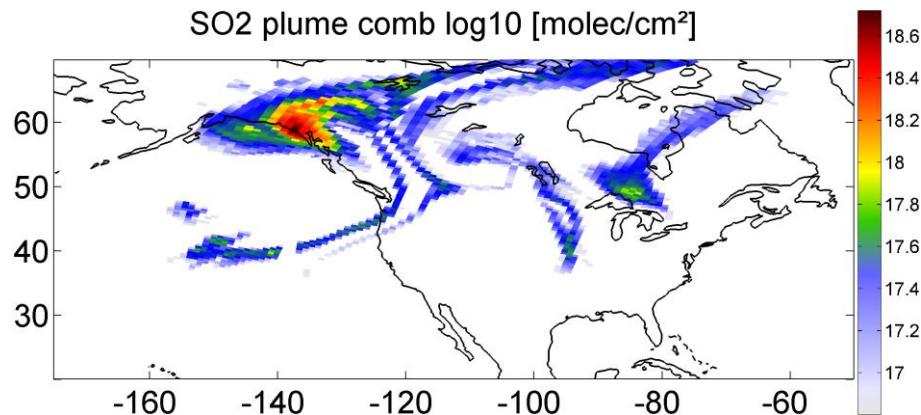


#165 Kasatochi 12.08.2008

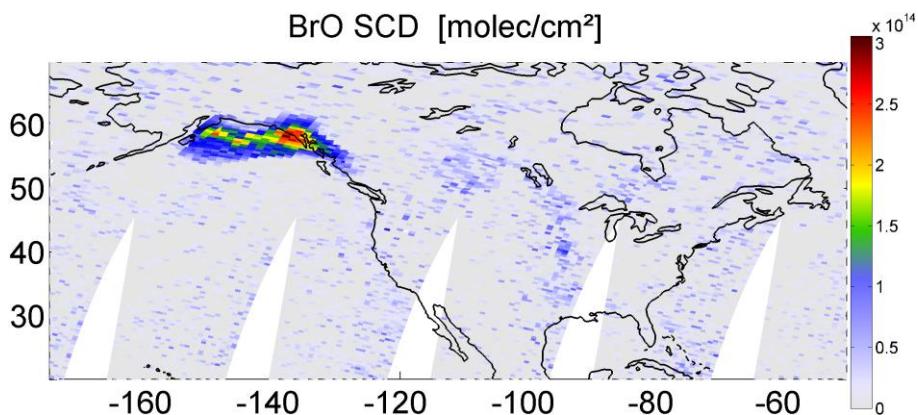
SO₂ SCD comb log10 [molec/cm²]



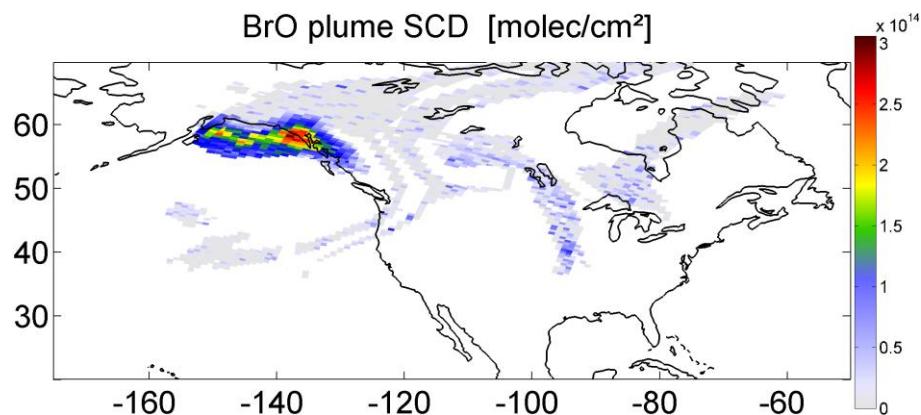
SO₂ plume comb log10 [molec/cm²]



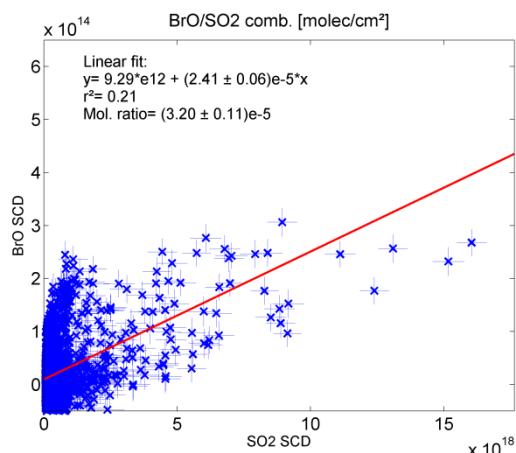
BrO SCD [molec/cm²]



BrO plume SCD [molec/cm²]

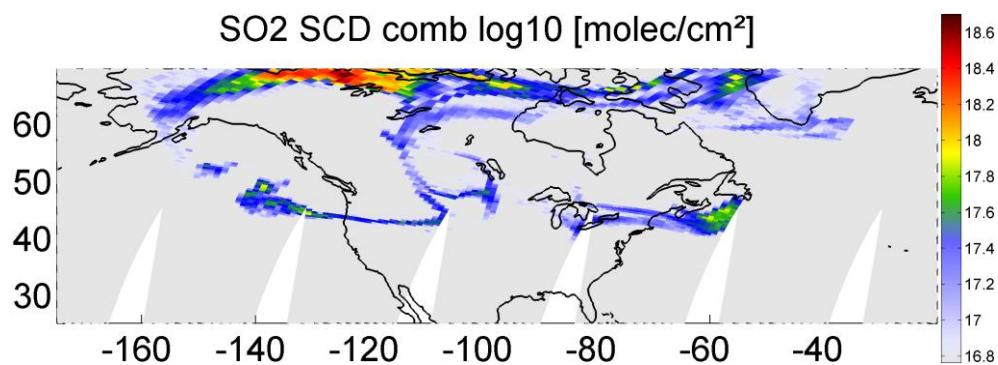


x 10¹⁴ BrO/SO₂ comb. [molec/cm²]

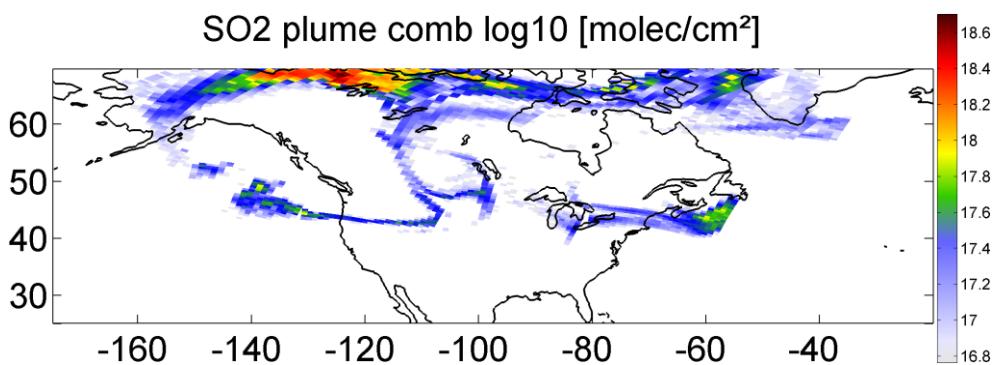


#167 Kasatochi 13.08.2008

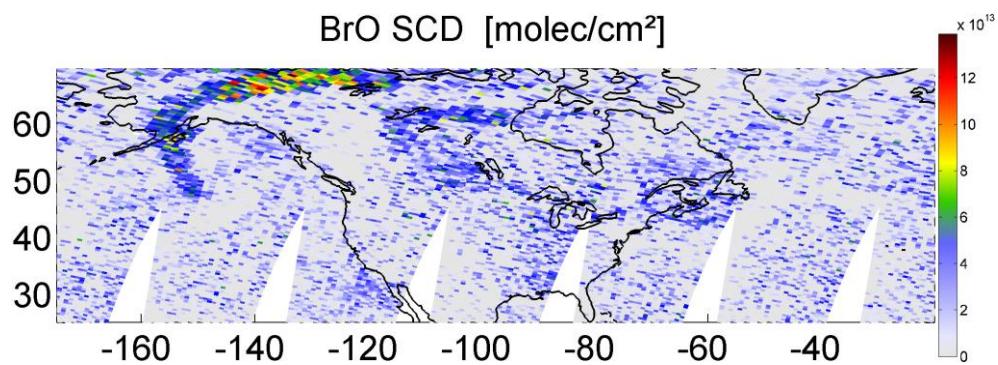
SO₂ SCD comb log10 [molec/cm²]



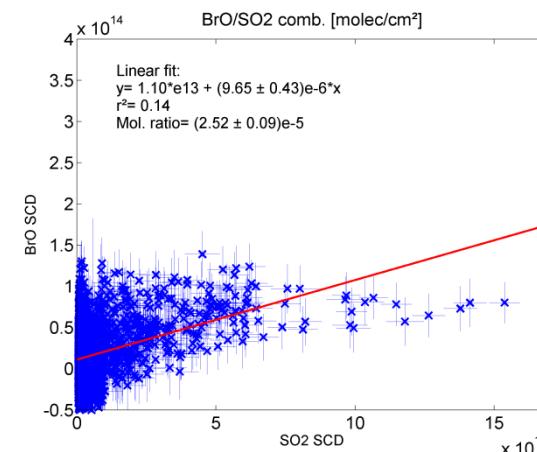
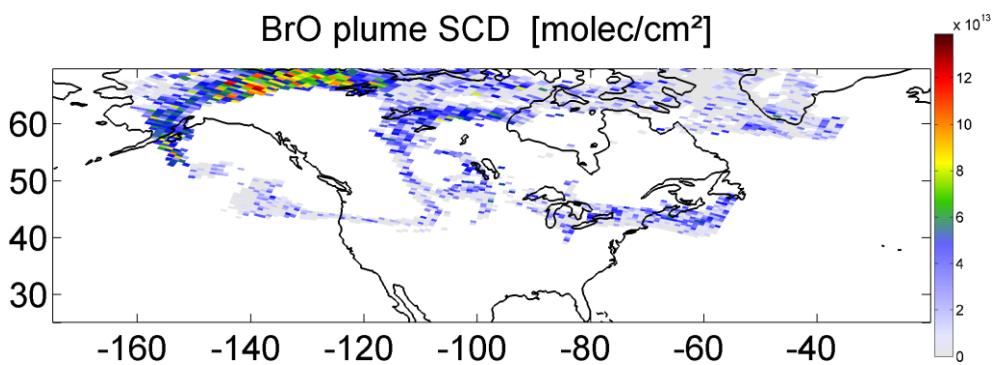
SO₂ plume comb log10 [molec/cm²]



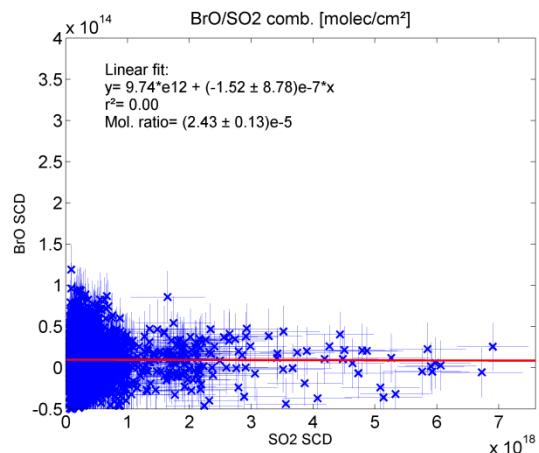
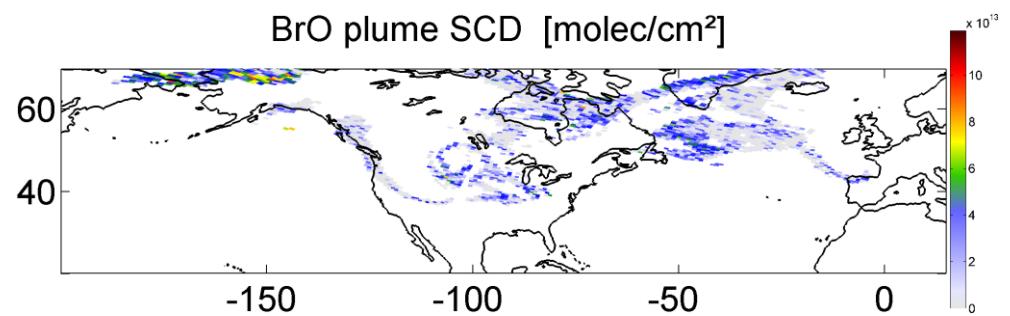
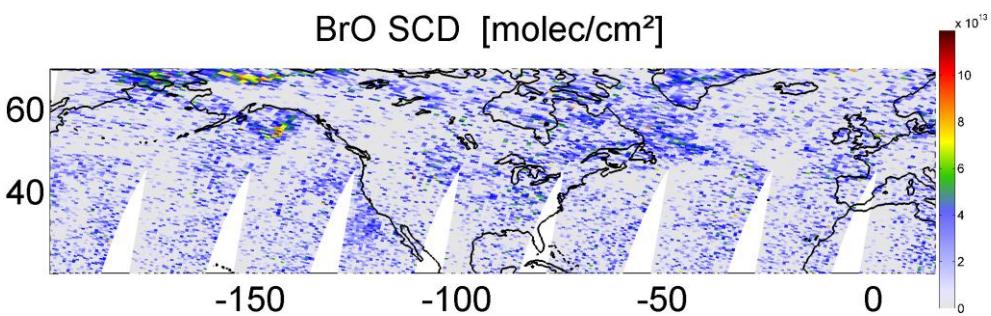
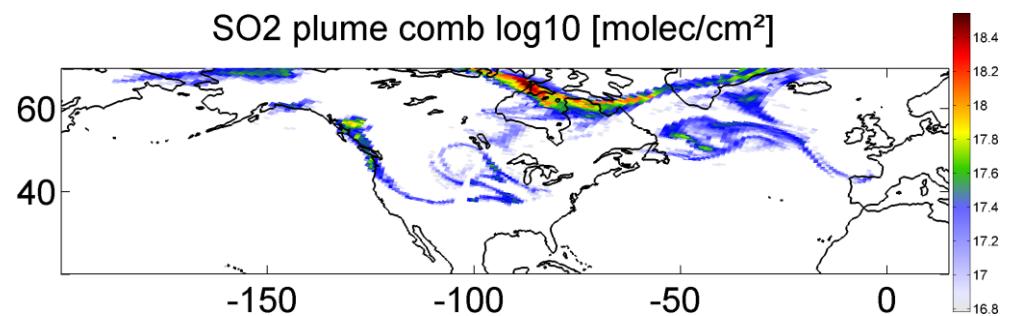
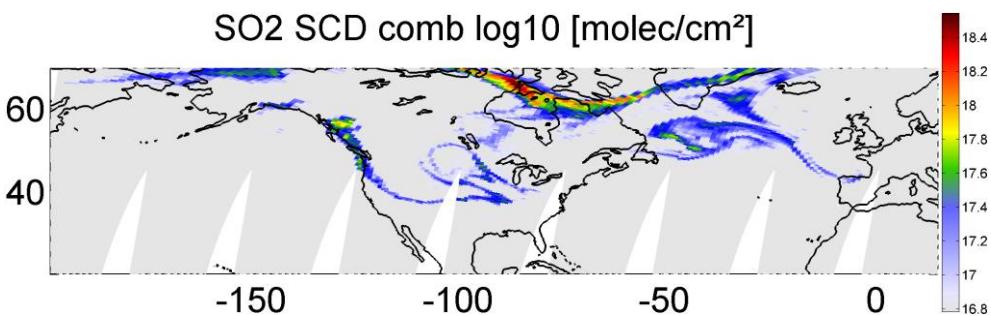
BrO SCD [molec/cm²]



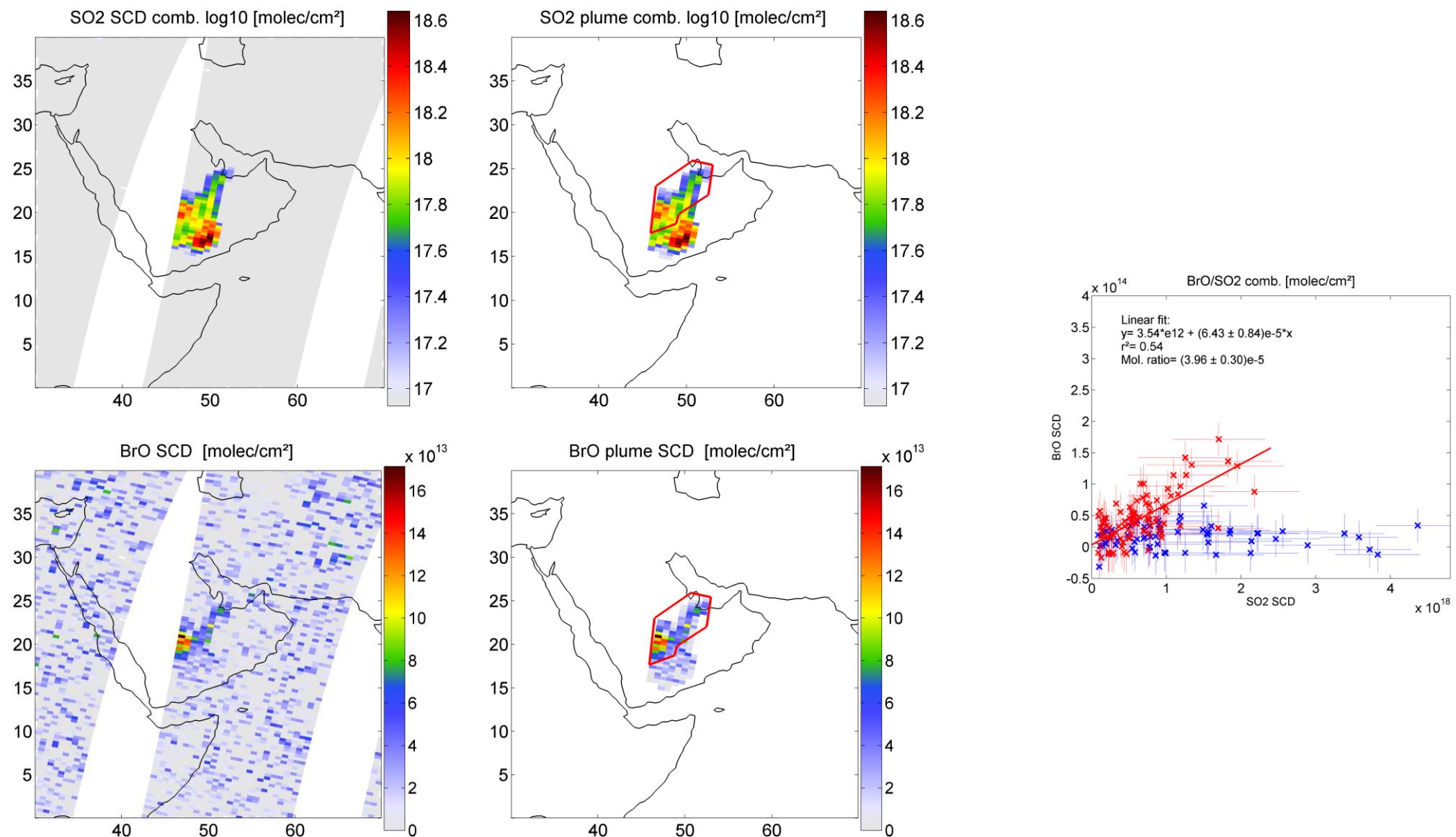
BrO plume SCD [molec/cm²]



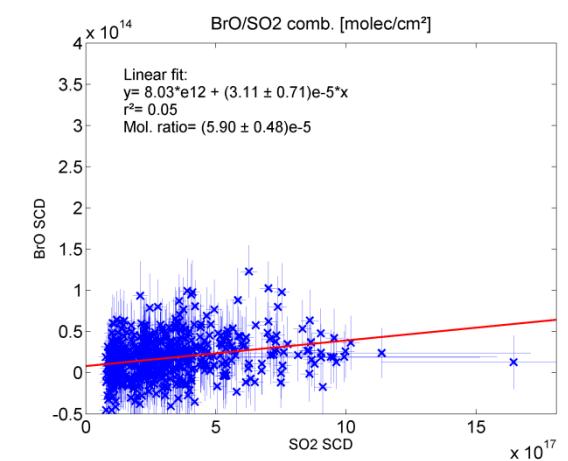
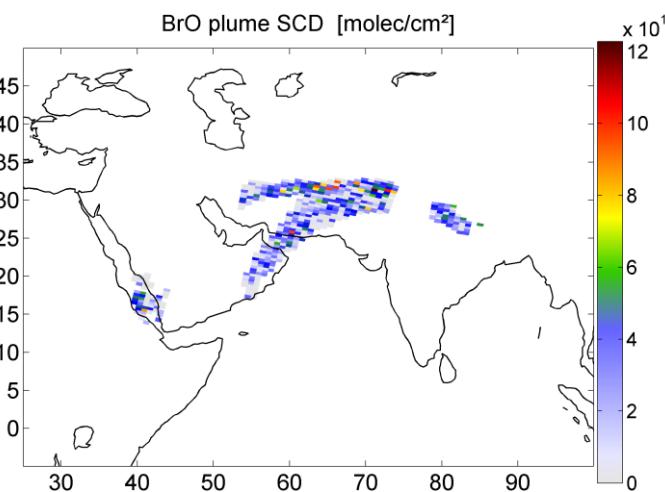
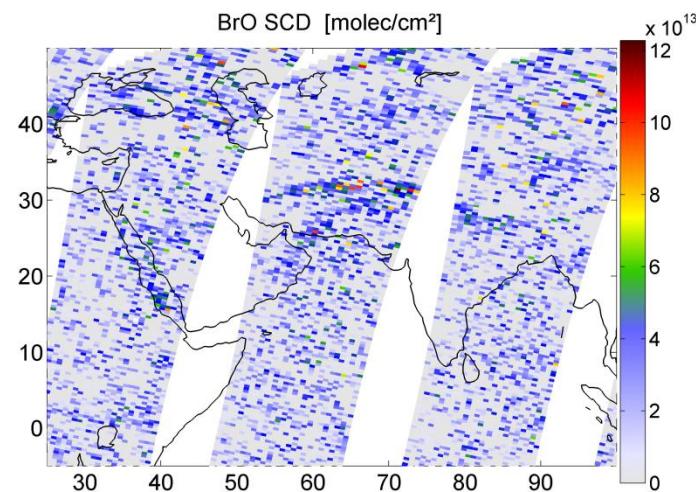
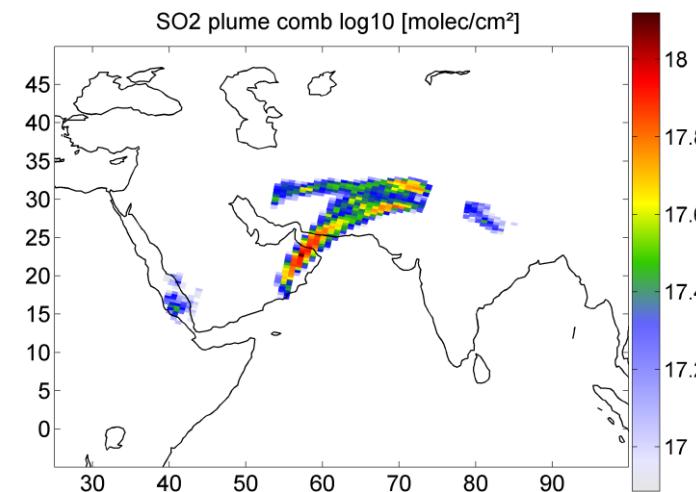
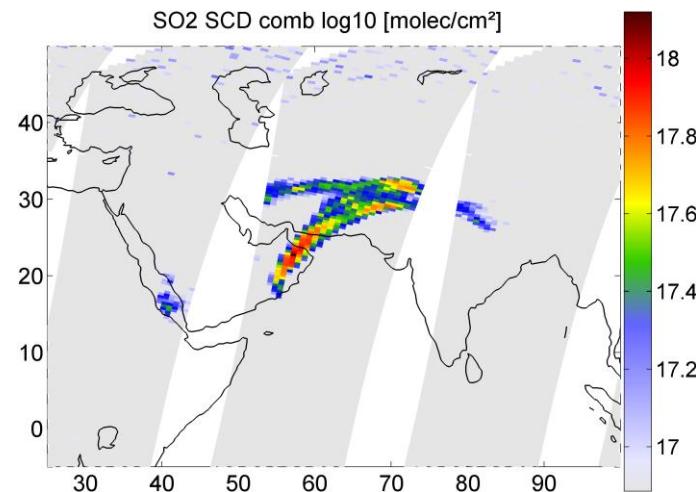
#169 Kasatochi 14.08.2008



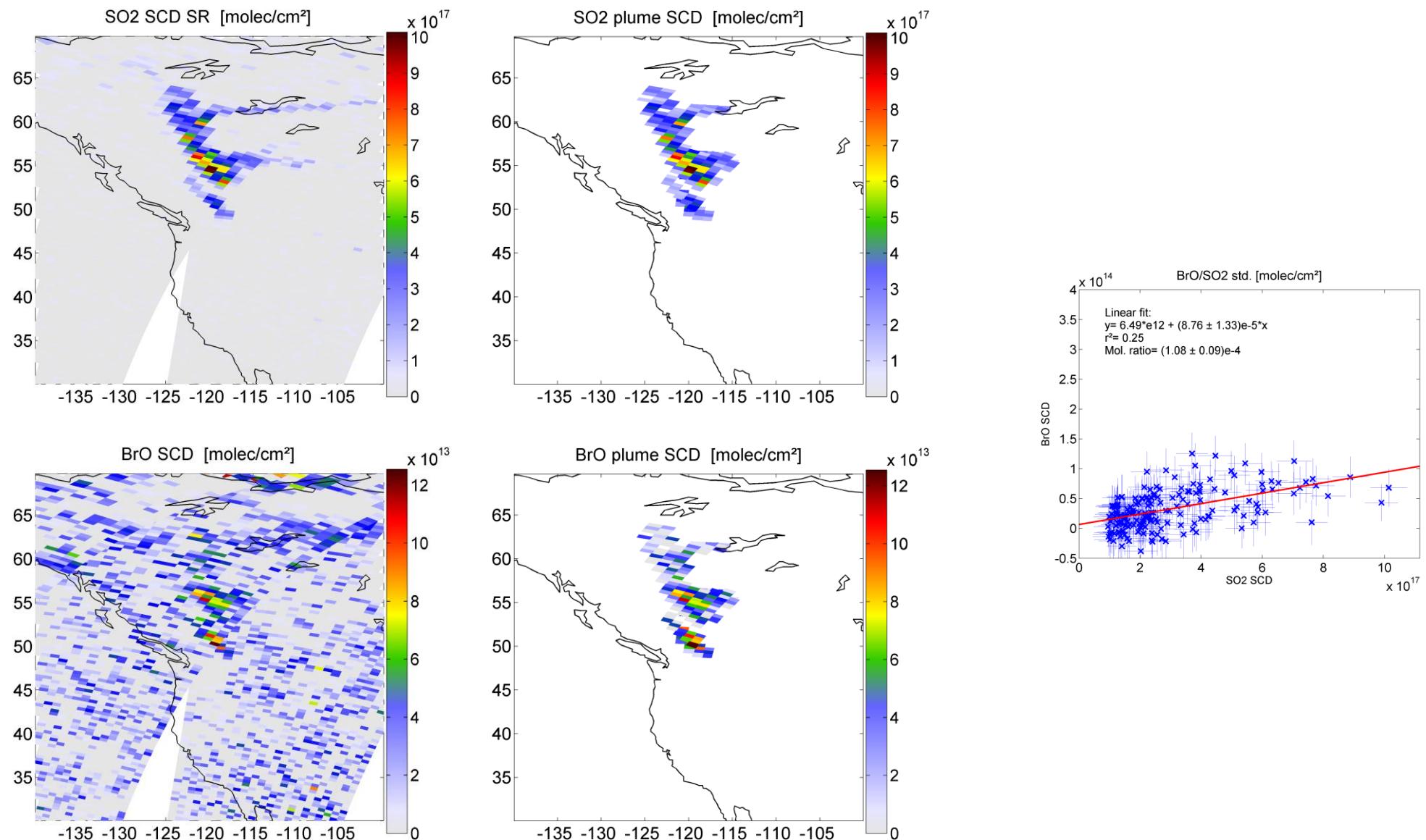
#249 Dalaffilla 04.11.2008



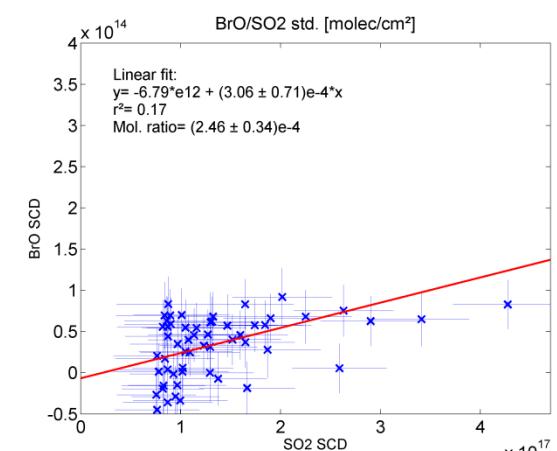
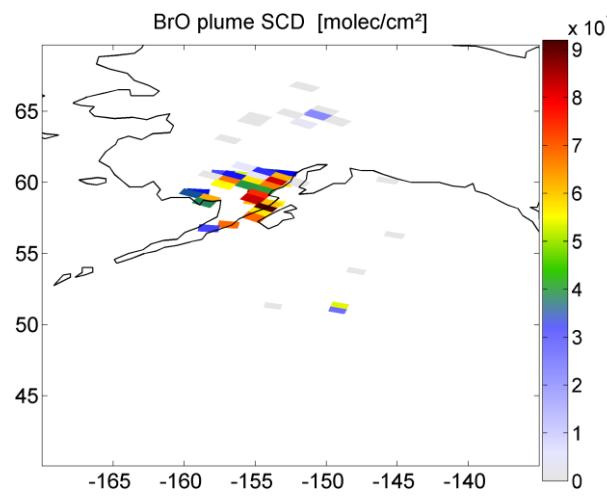
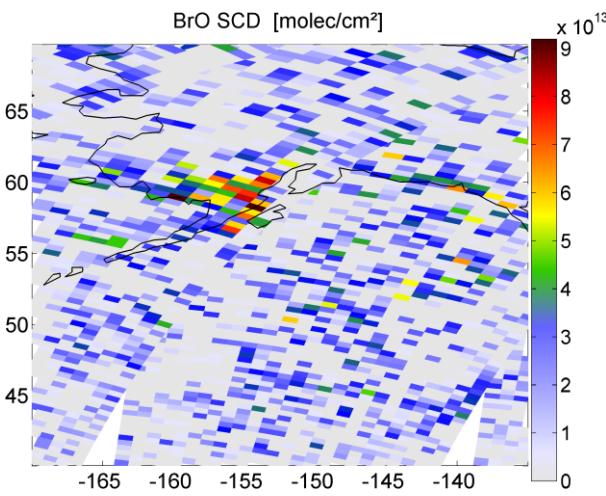
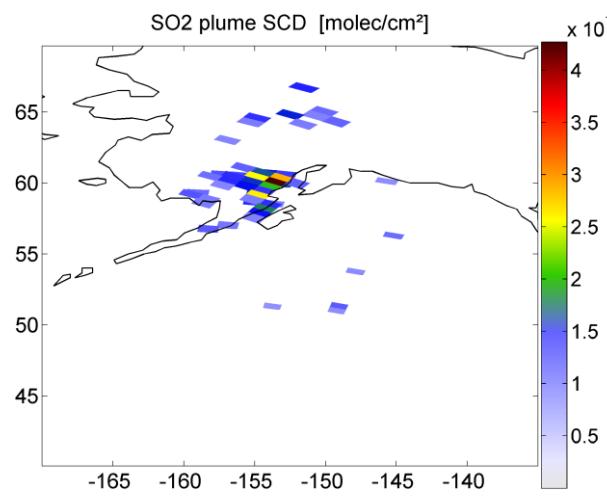
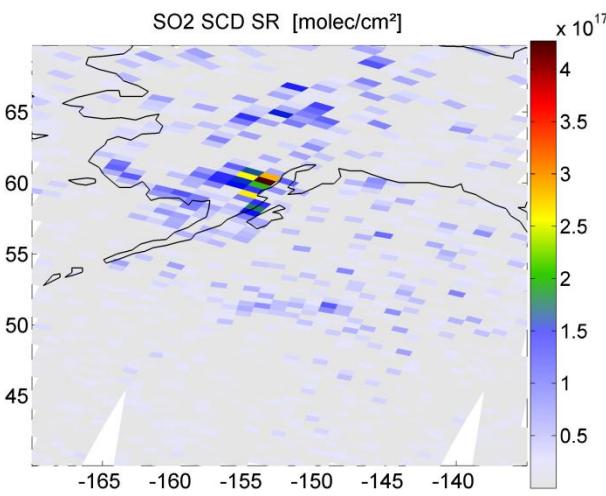
#250 Dalaffilla 05.11.2008



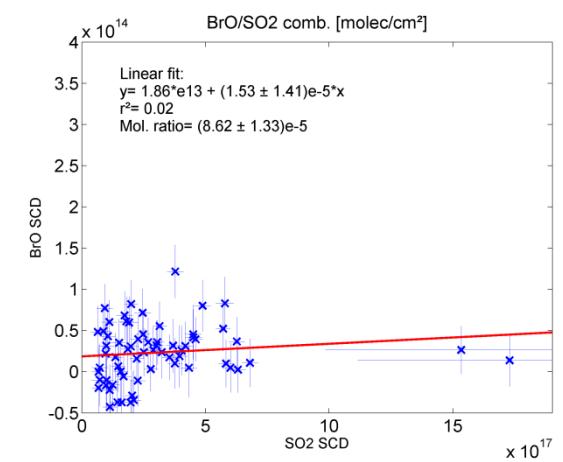
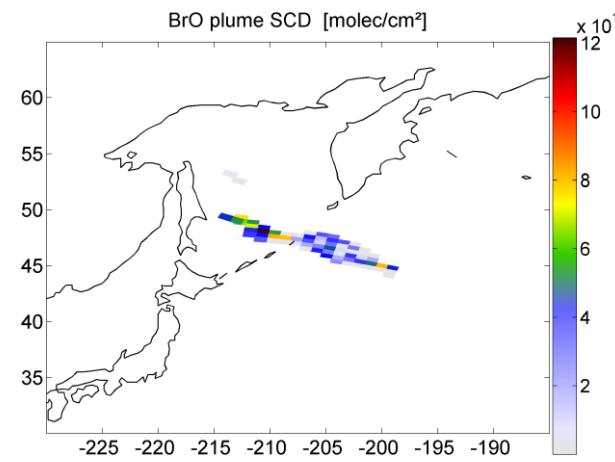
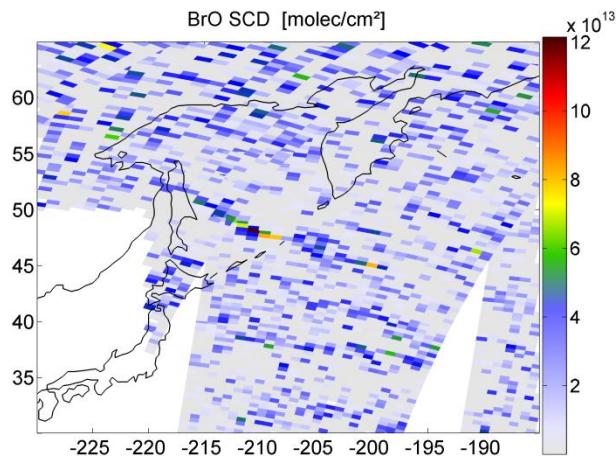
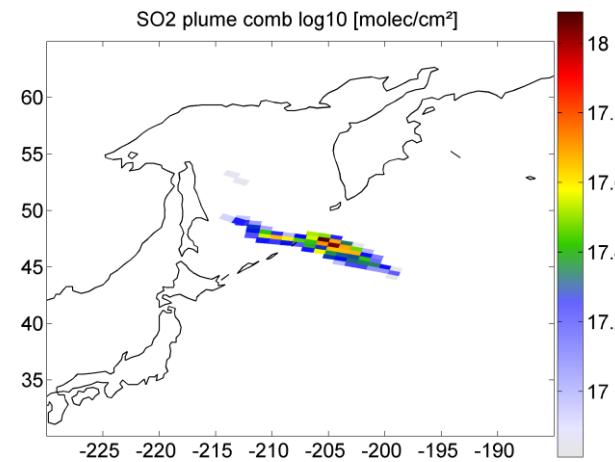
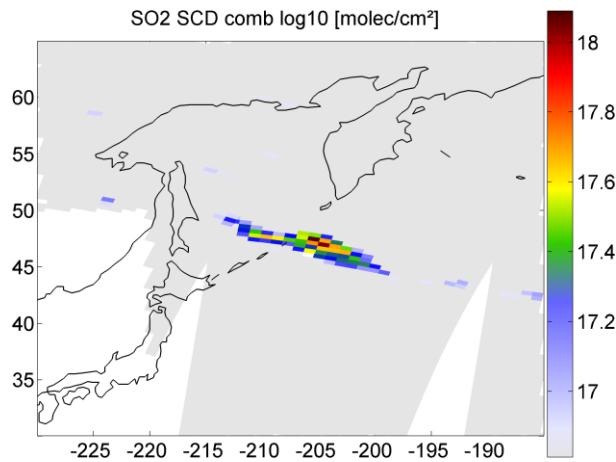
#280 Redoubt 25.03.2009



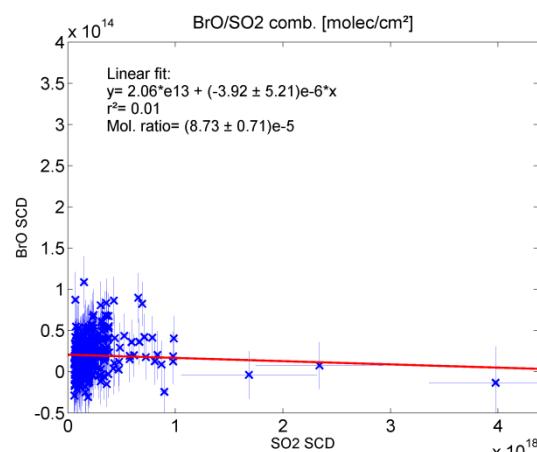
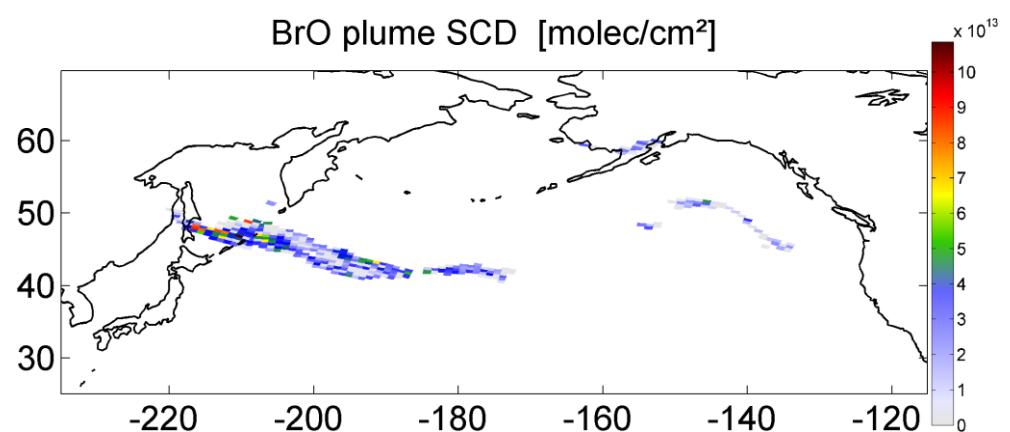
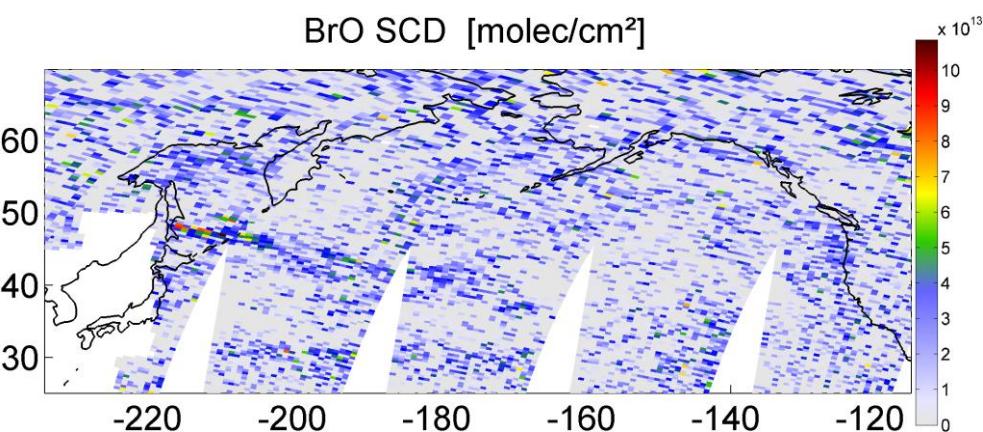
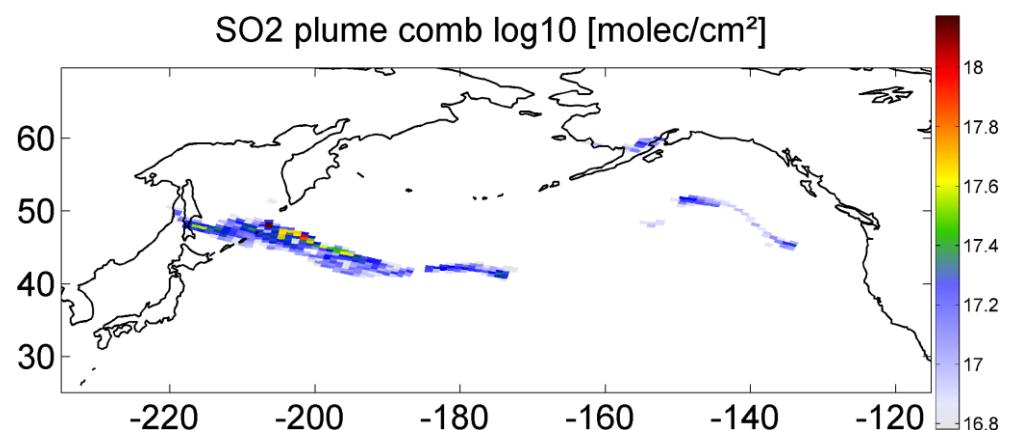
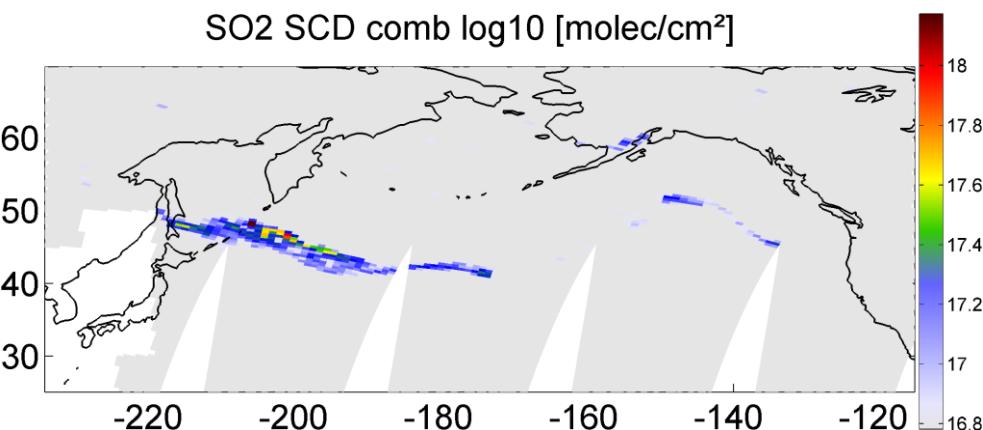
#326 Redoubt 20.04.2009



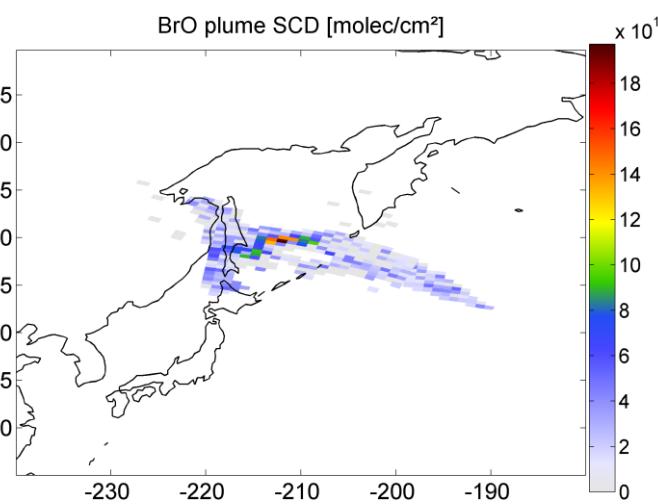
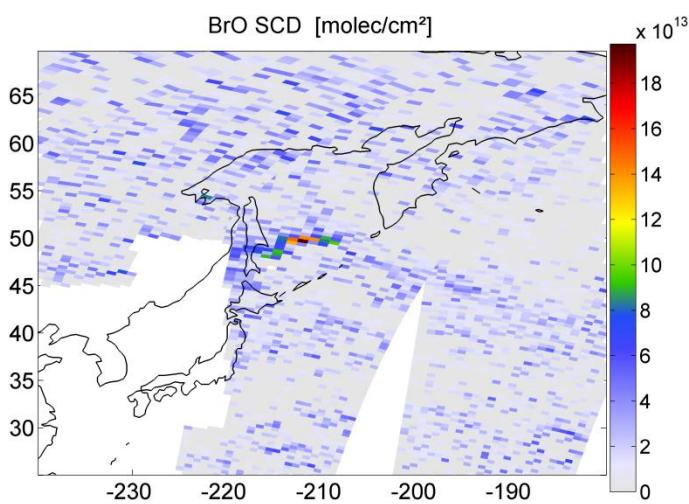
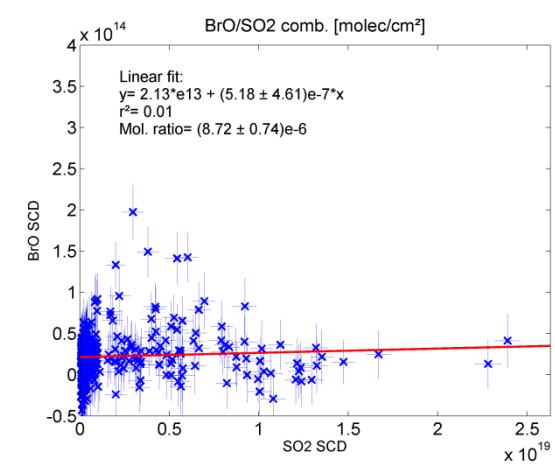
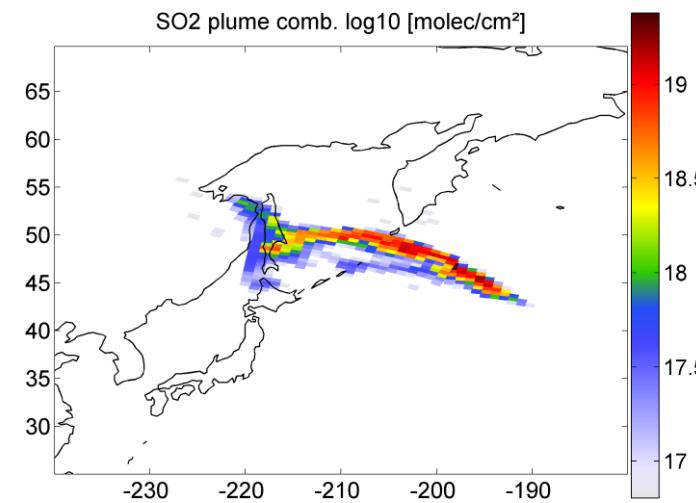
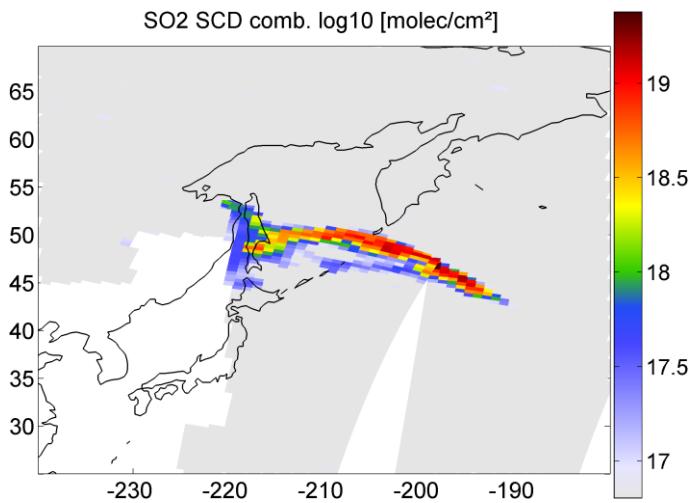
#369 Sarychev 12./13.06.2009



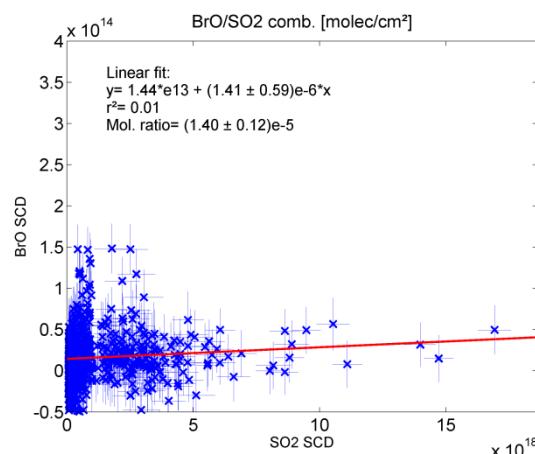
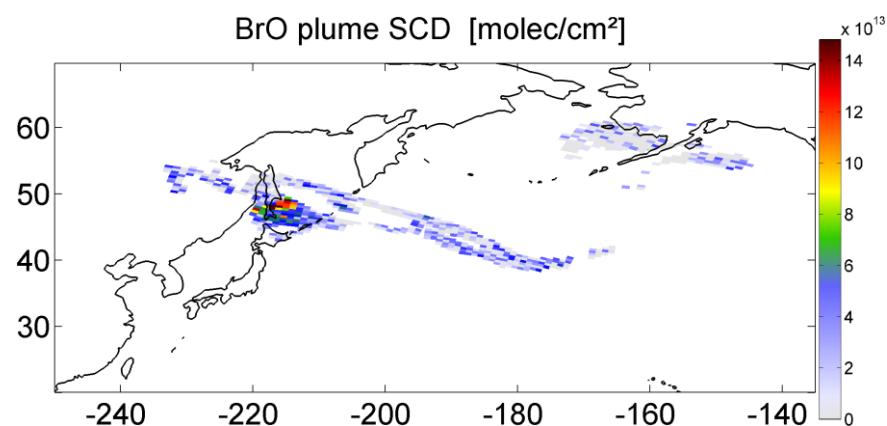
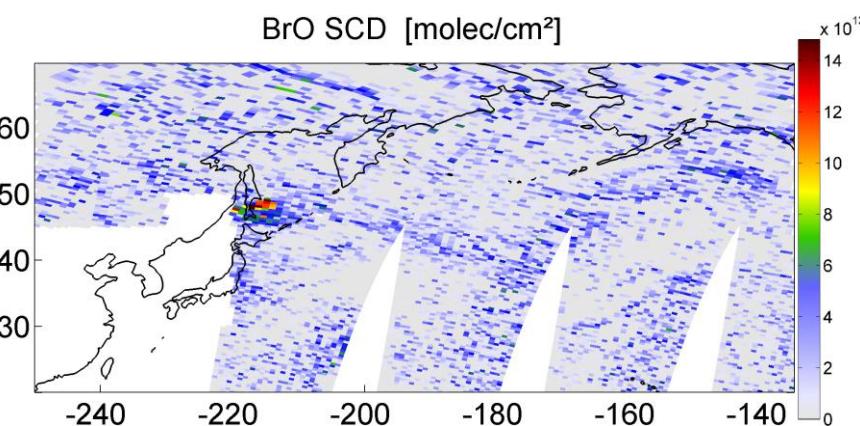
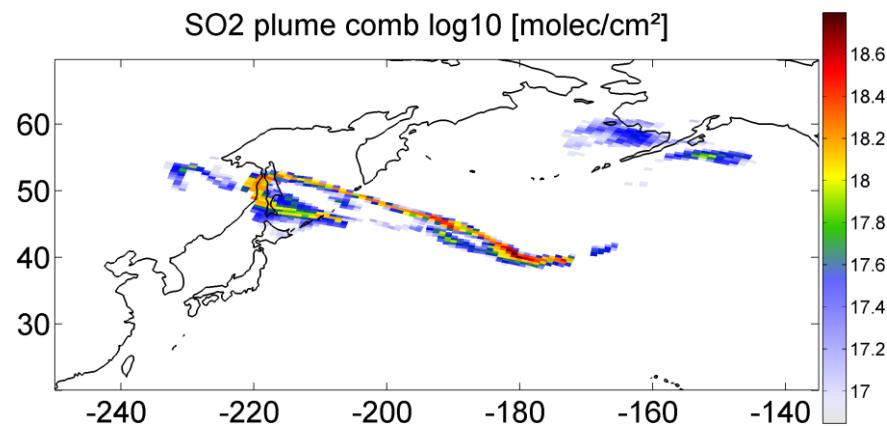
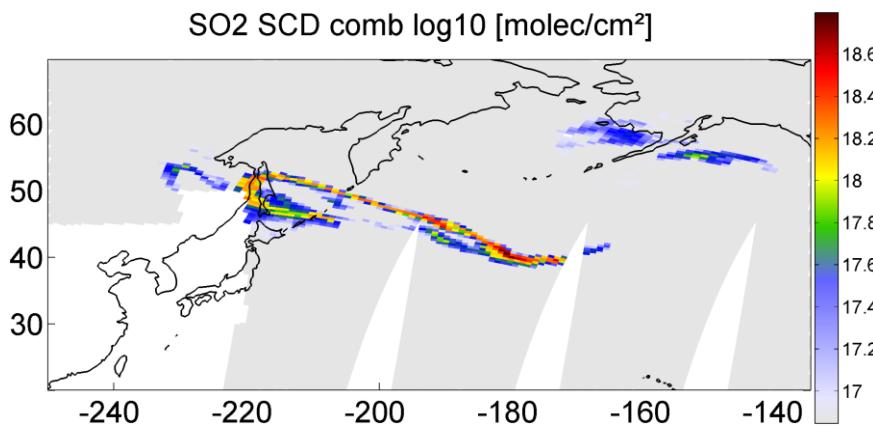
#370 Sarychev 13./14.06.2009



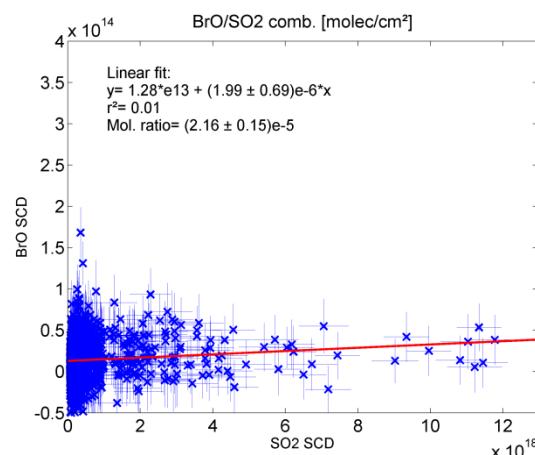
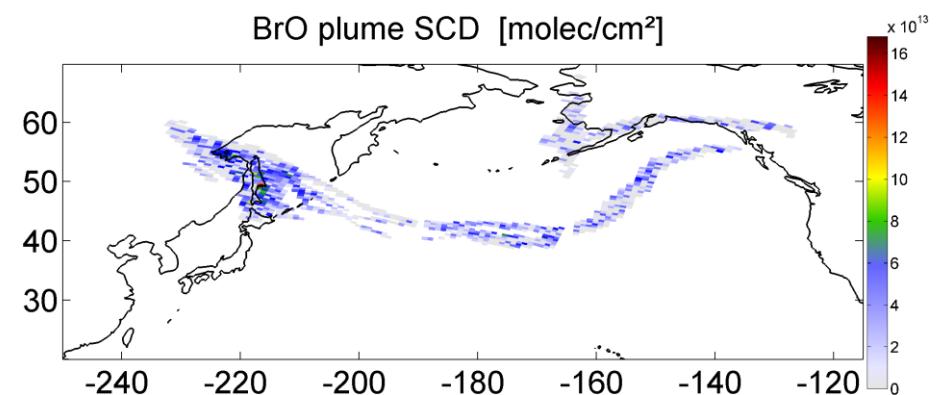
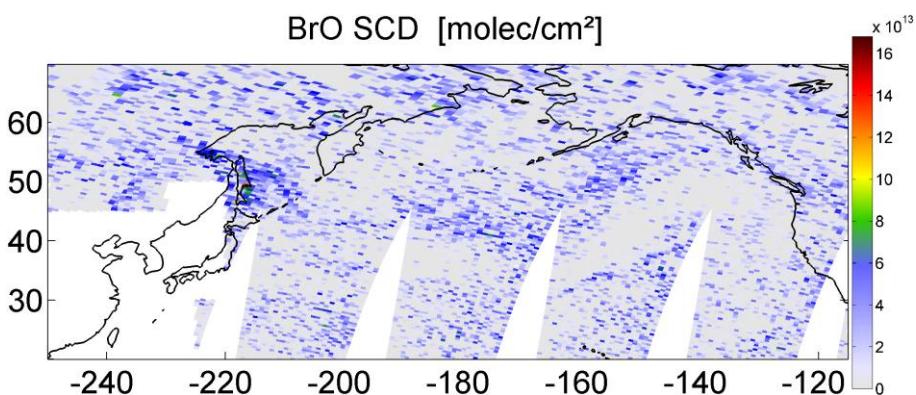
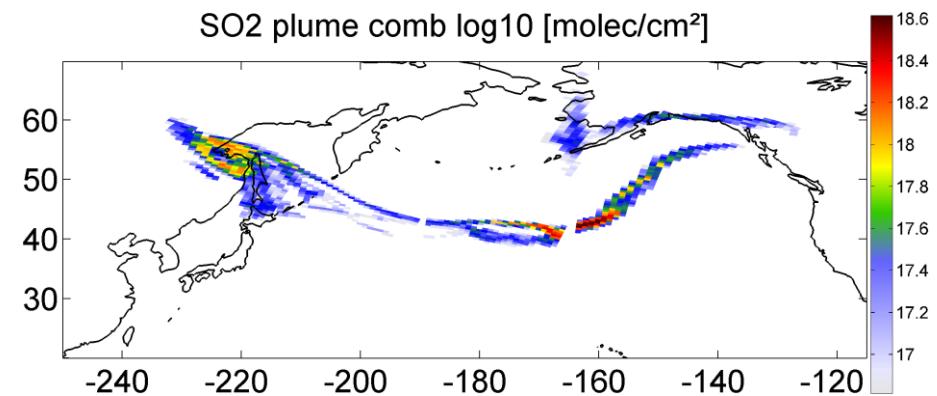
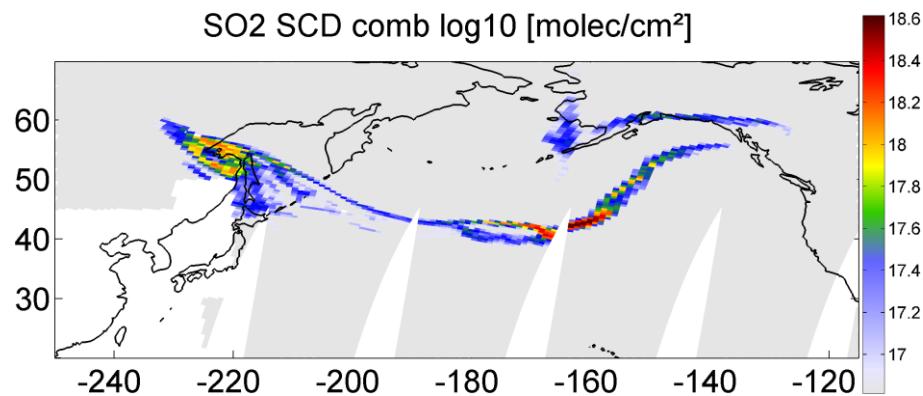
#375 Sarychev 15./16.06.2009



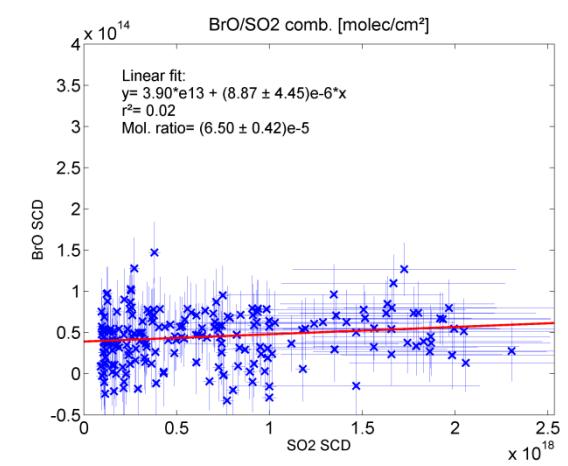
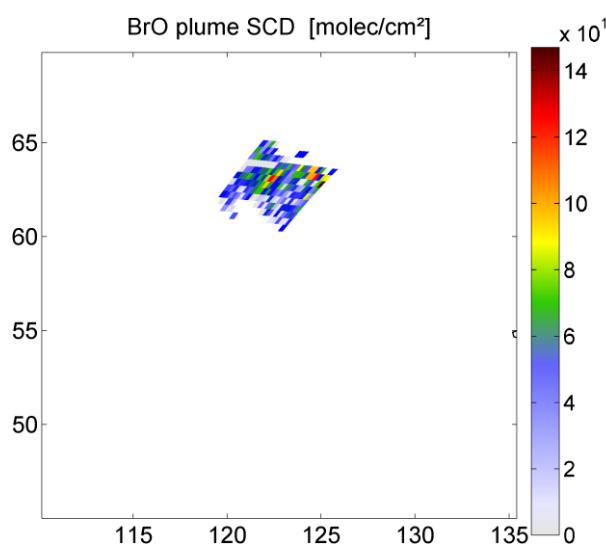
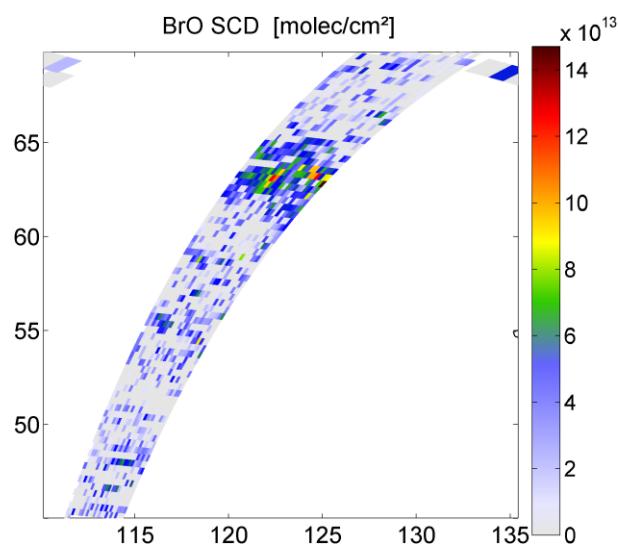
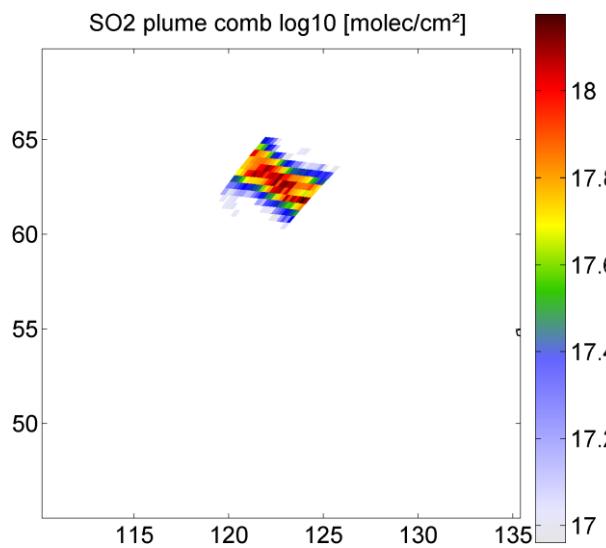
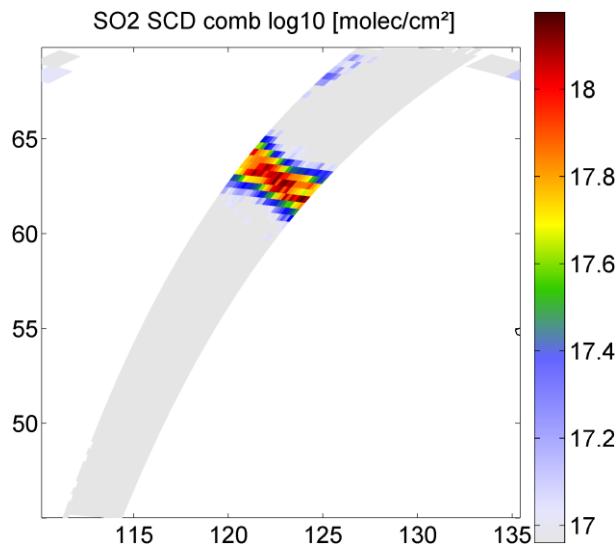
#377 Sarychev 16./17.06.2009



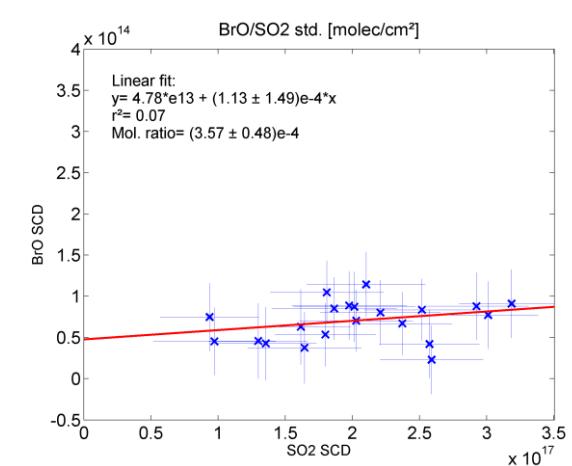
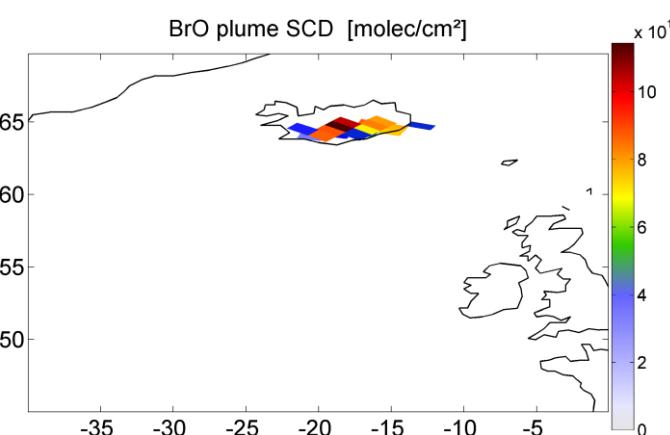
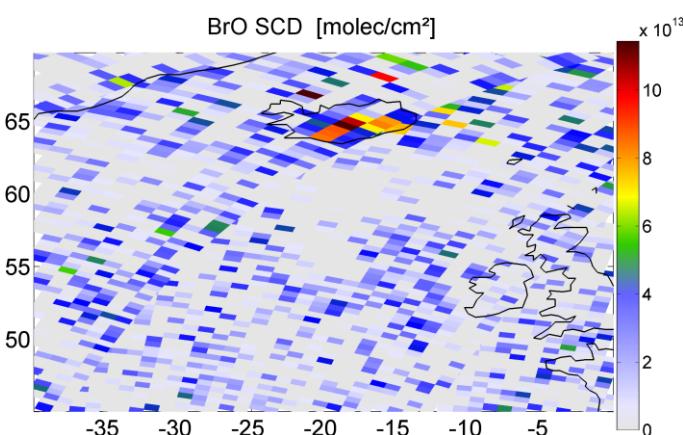
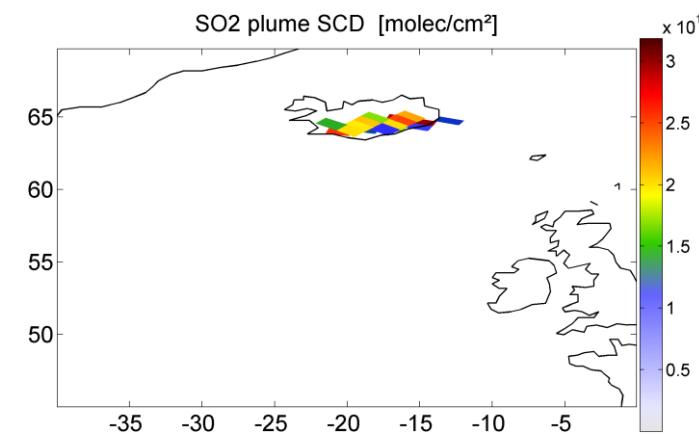
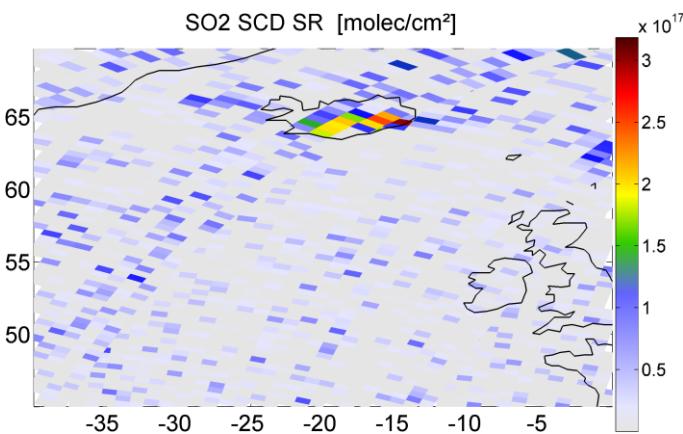
#378 Sarychev 17./18.06.2009



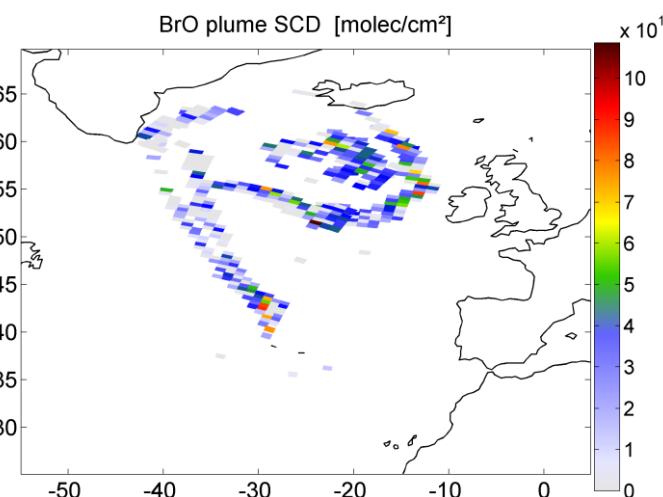
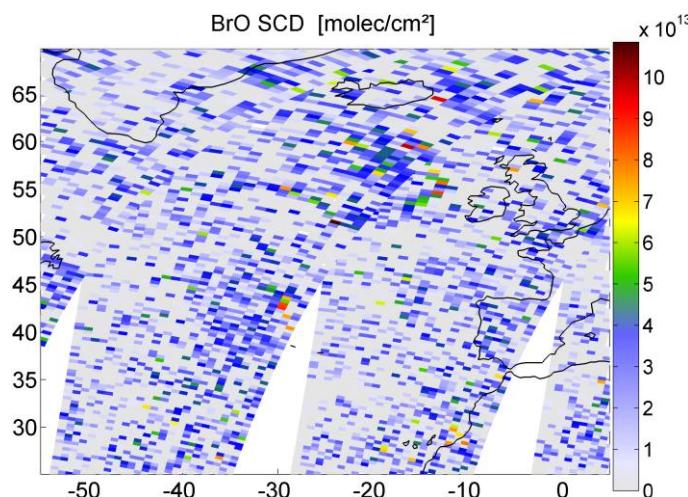
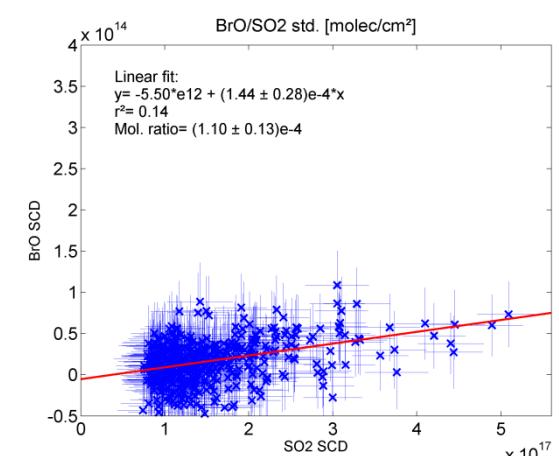
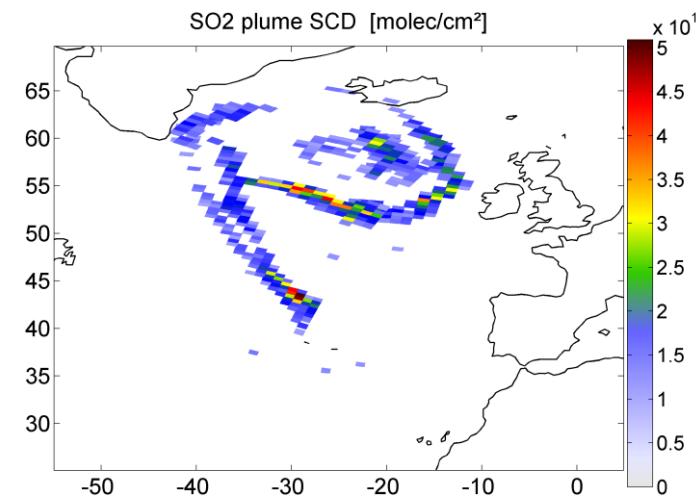
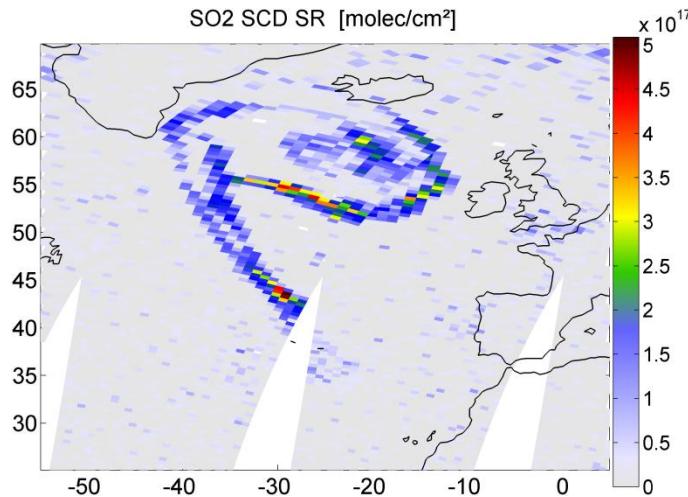
#380 Sarychev 19.06.2009



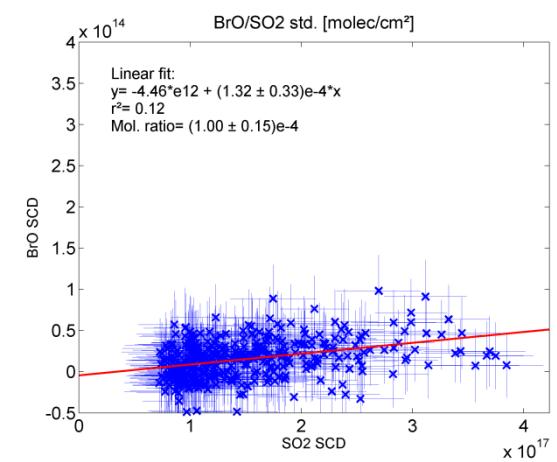
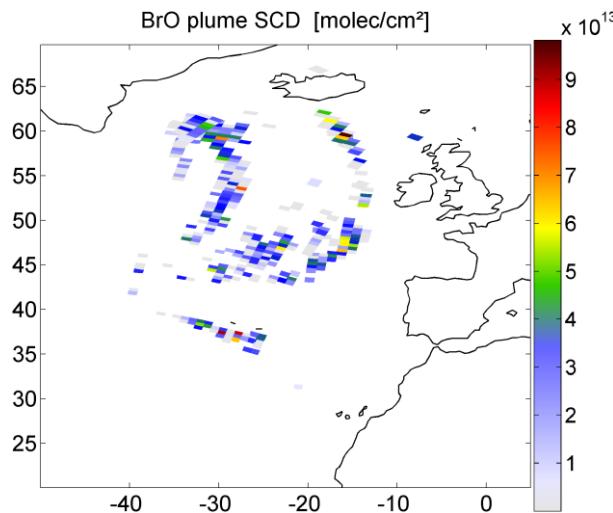
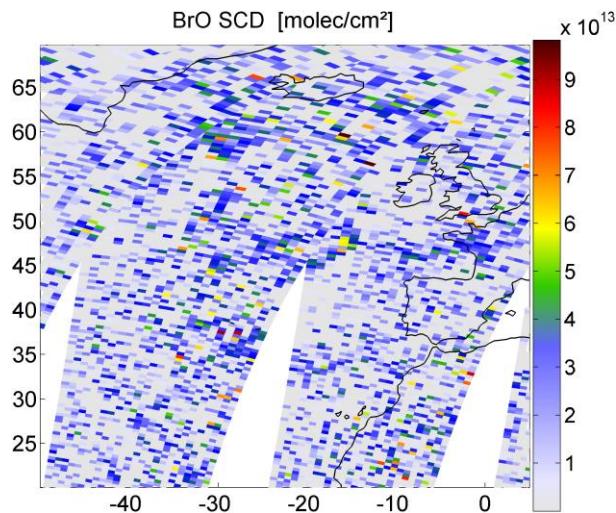
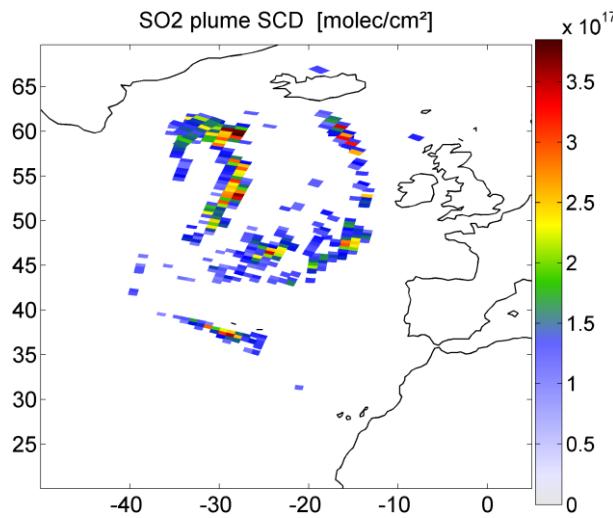
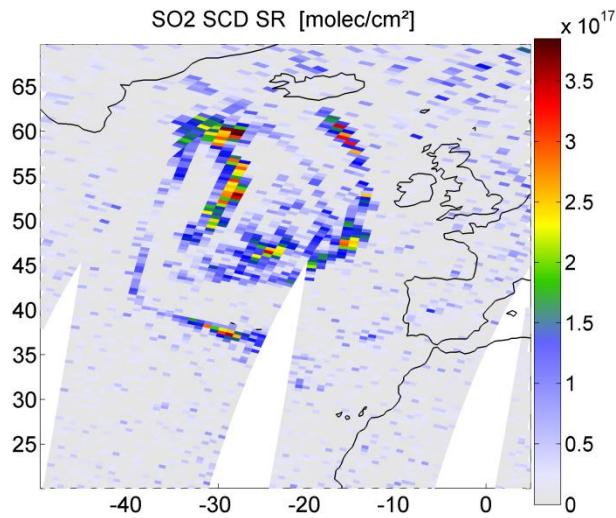
#548 Eyjafjallajökull 27.04.2010



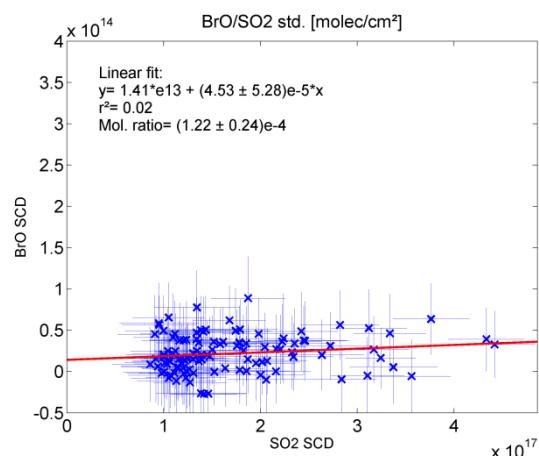
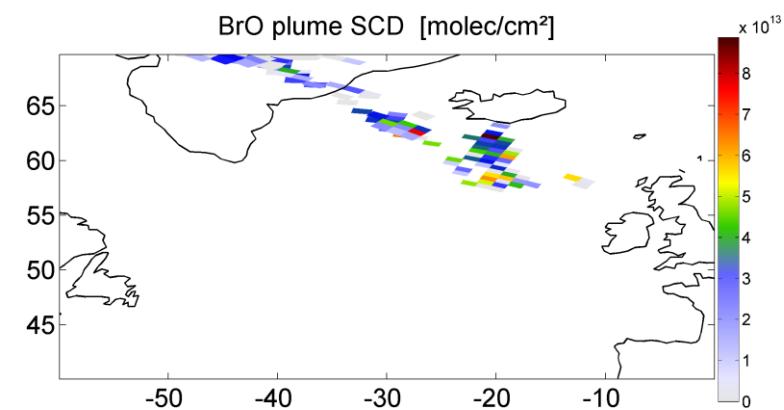
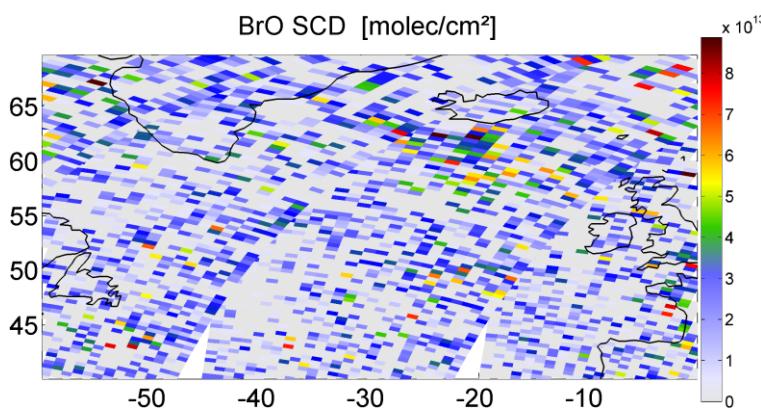
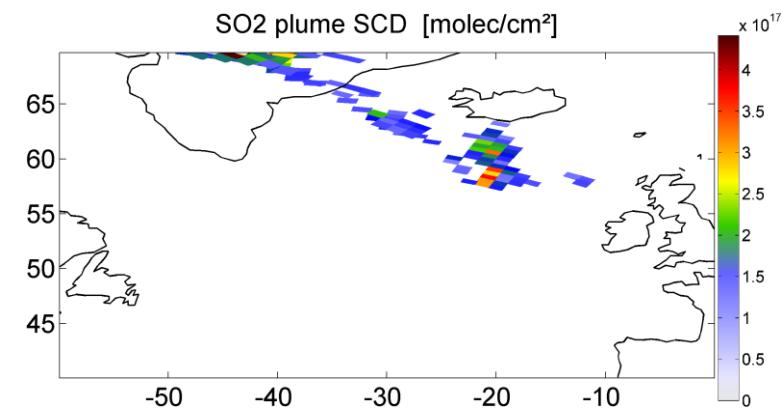
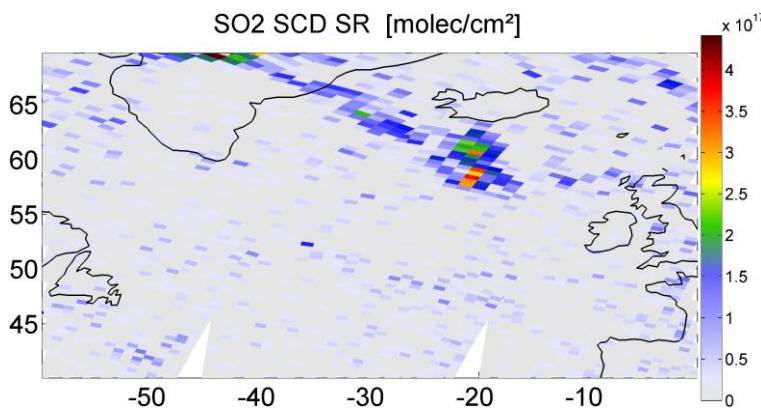
#559 Eyjafjallajökull 09.05.2010



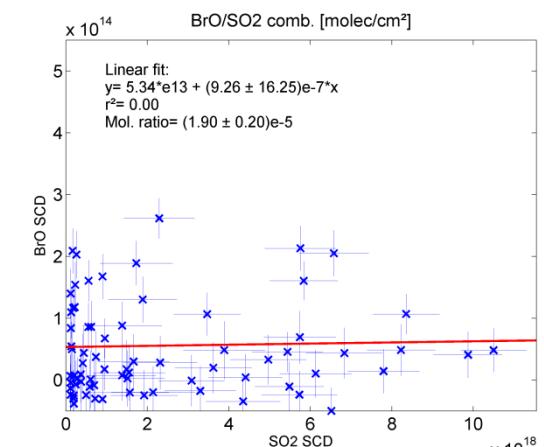
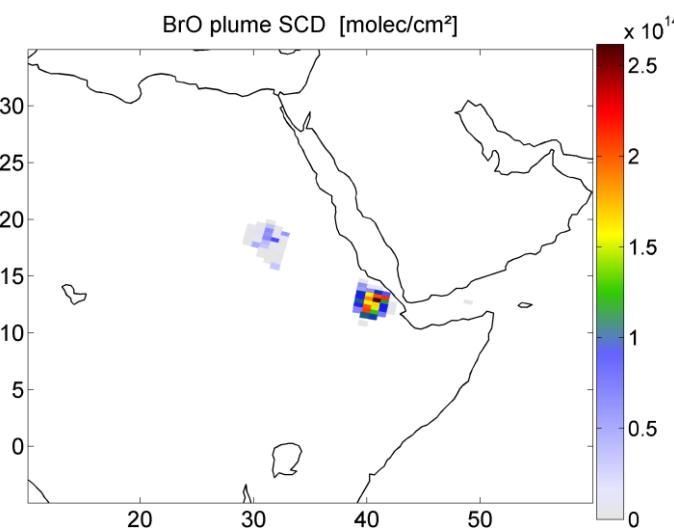
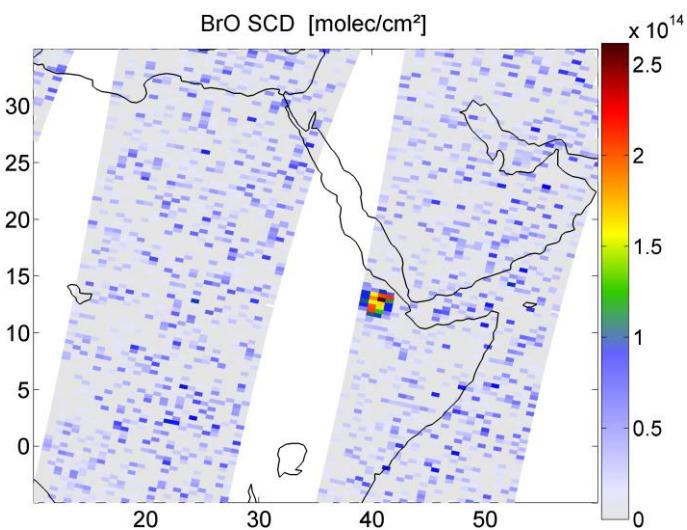
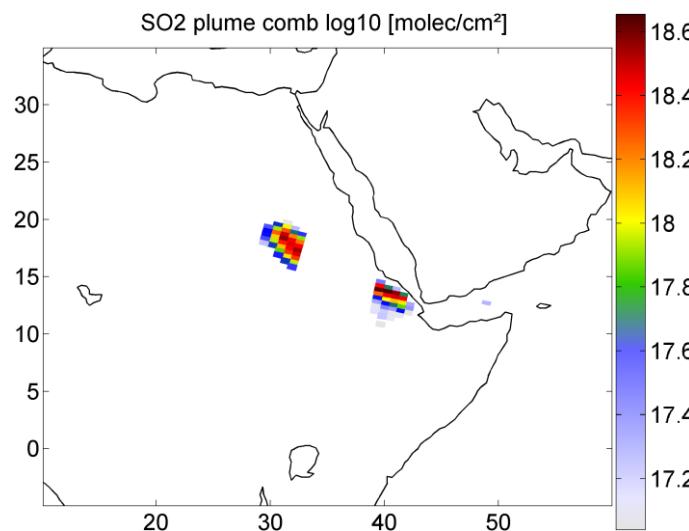
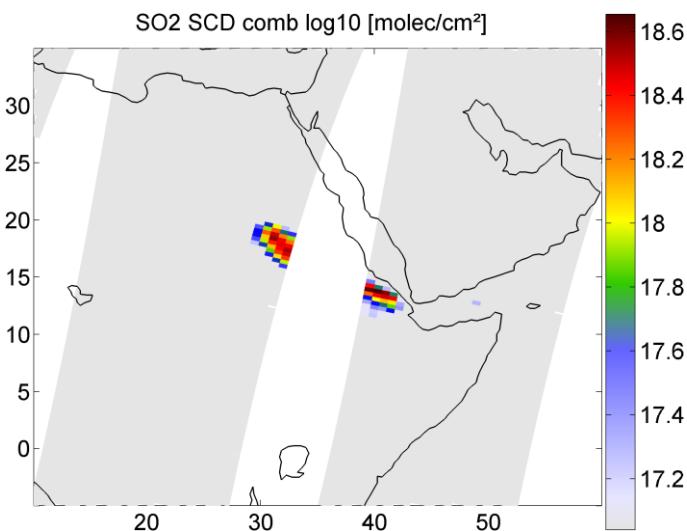
#560 Eyjafjallajökull 10.05.2010



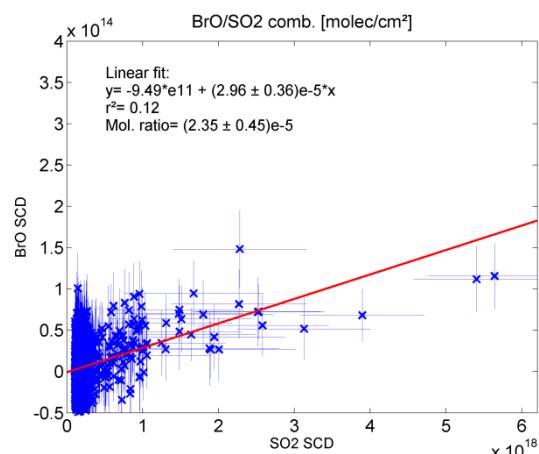
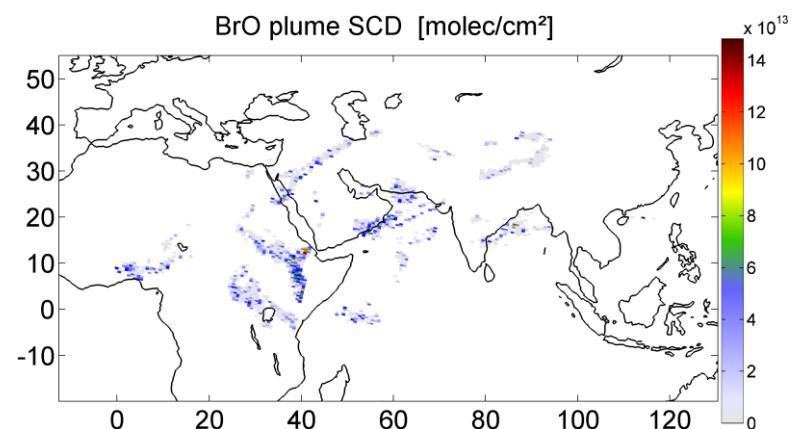
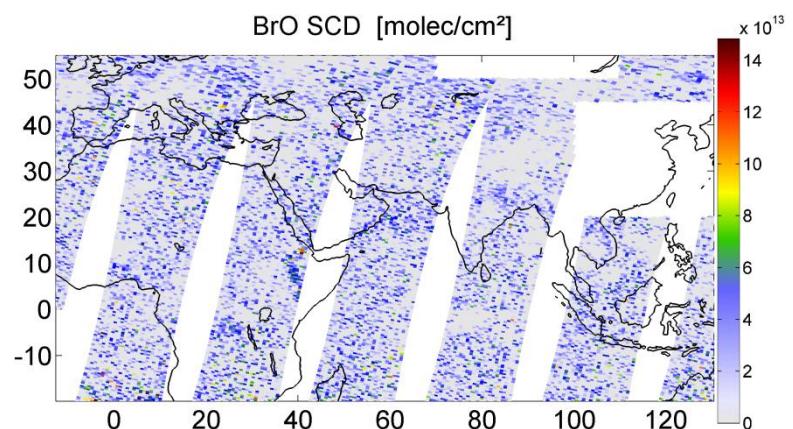
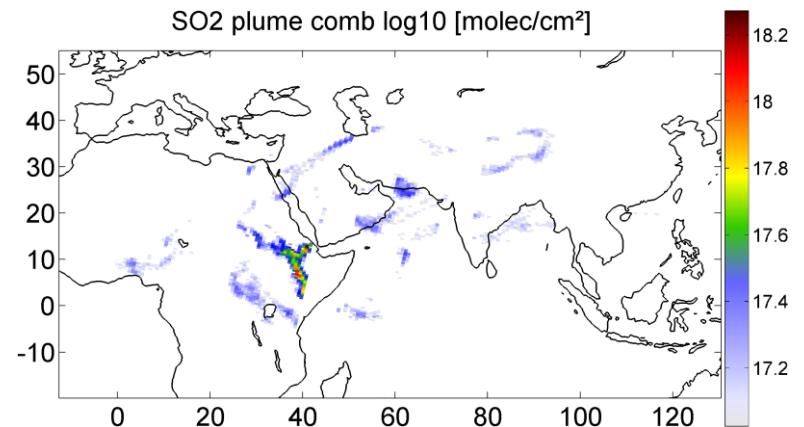
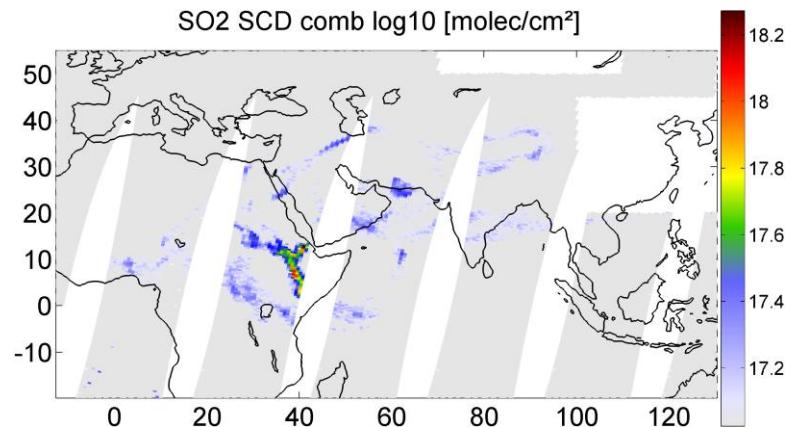
#569 Eyjafjallajökull 15.05.2010



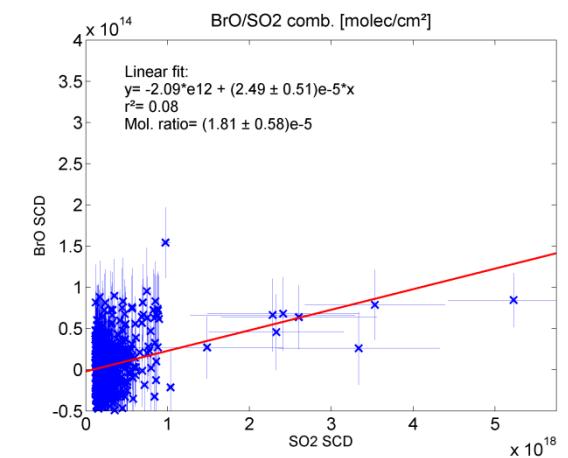
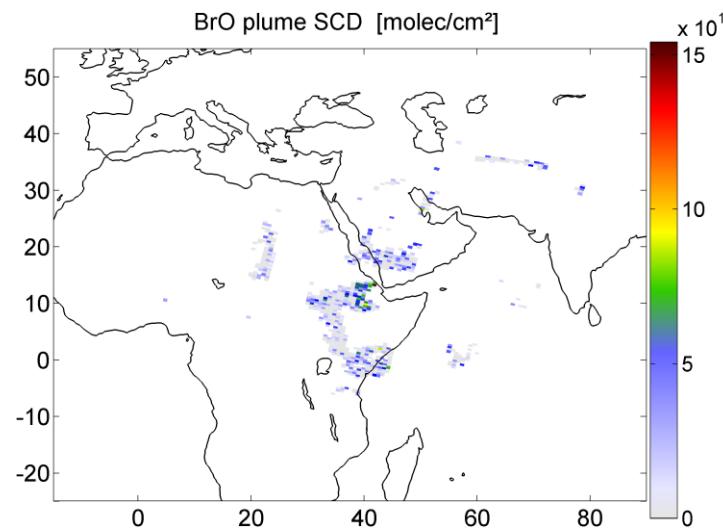
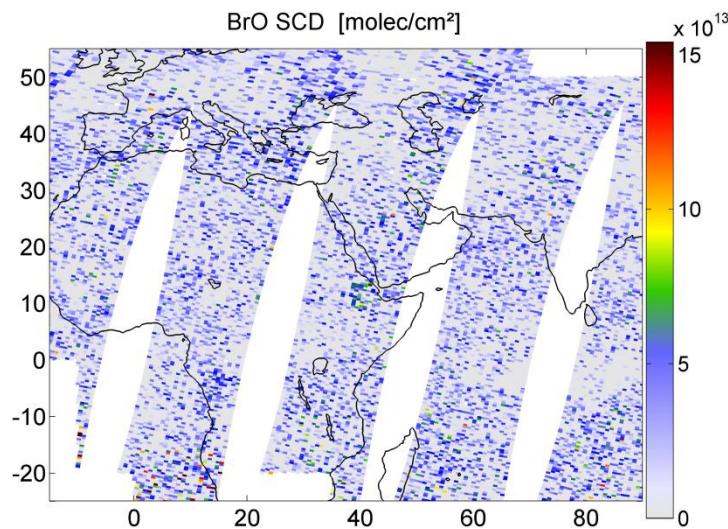
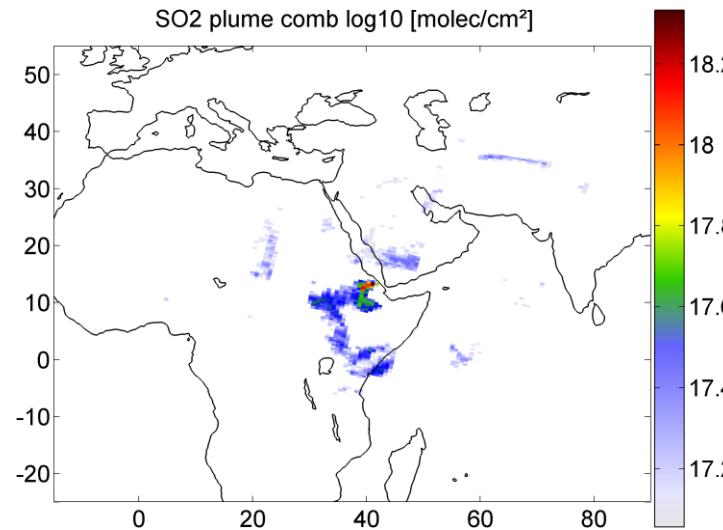
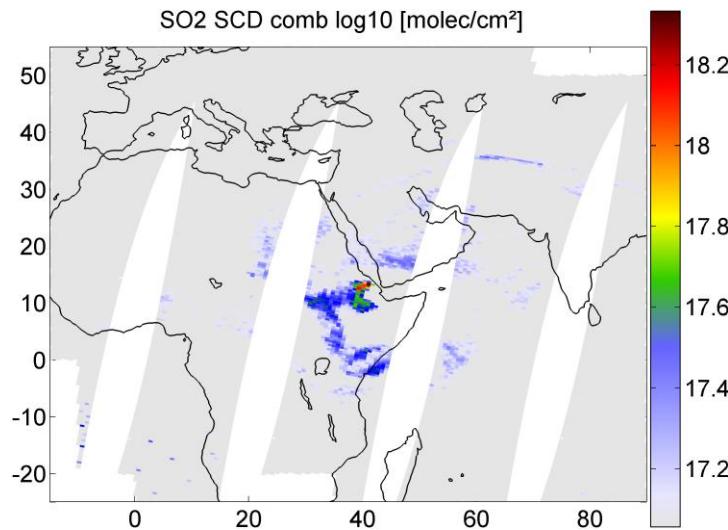
#745 Nabro 13.06.2011



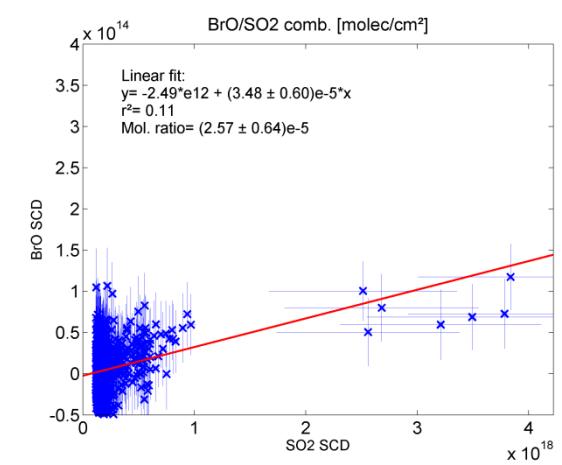
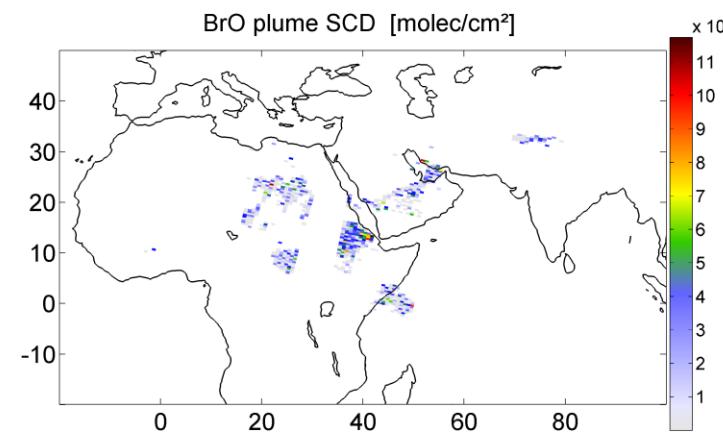
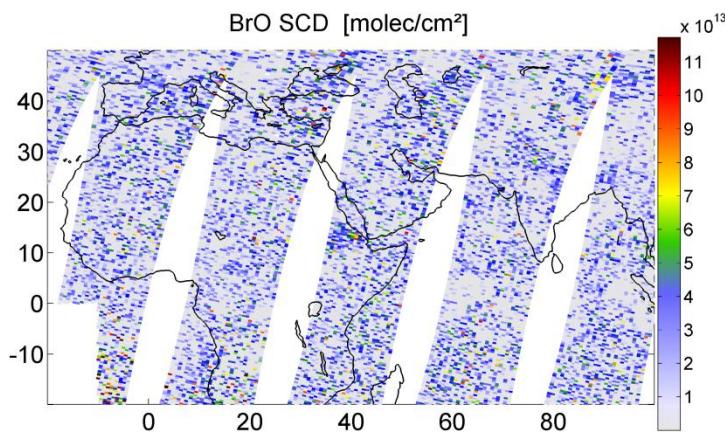
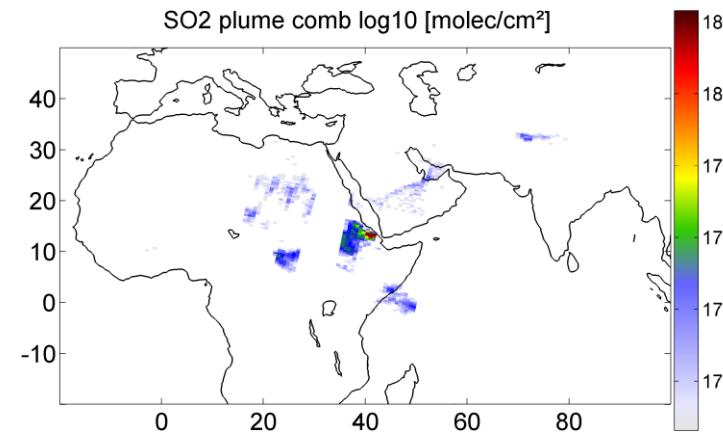
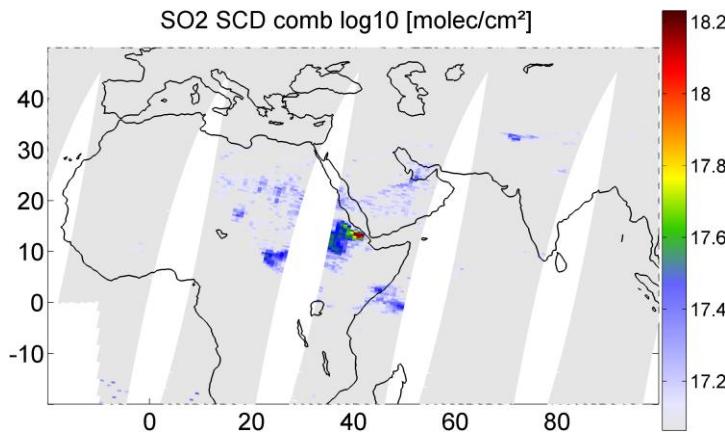
#755 Nabro 20.06.2011



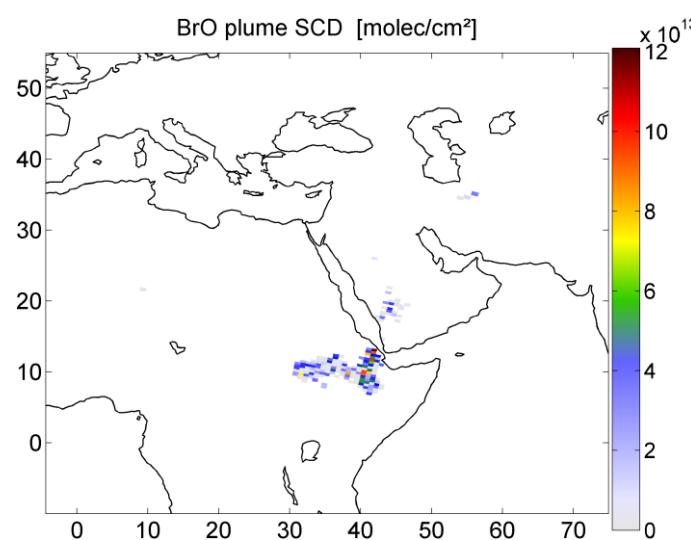
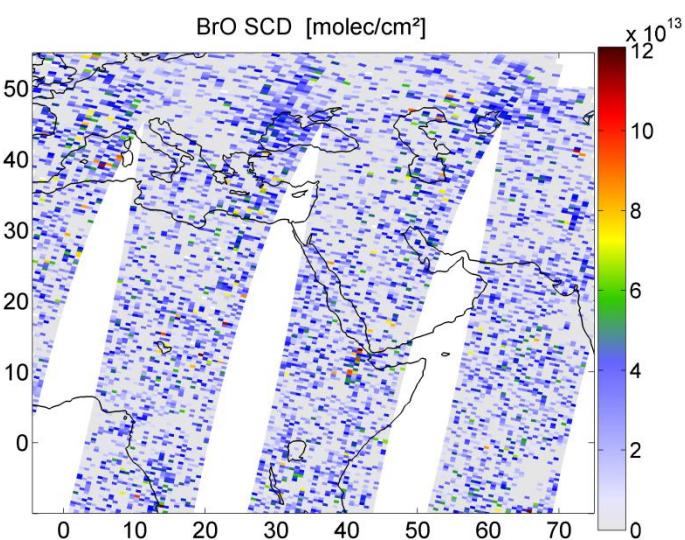
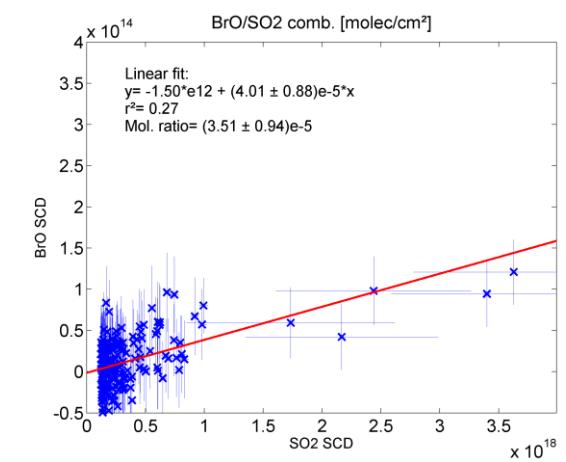
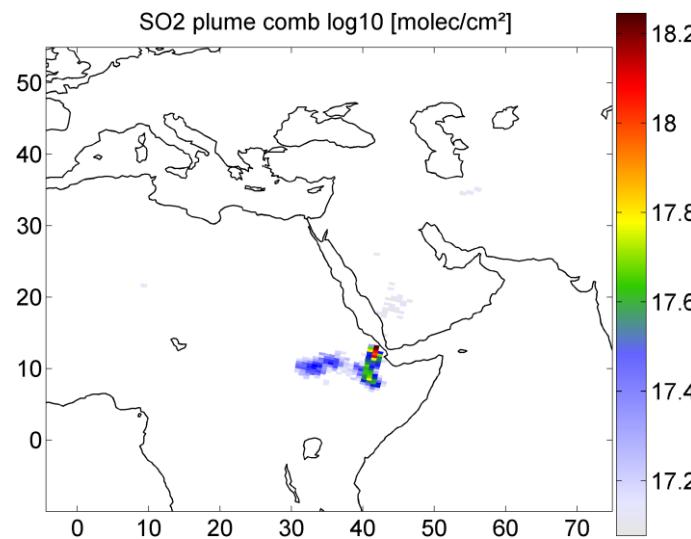
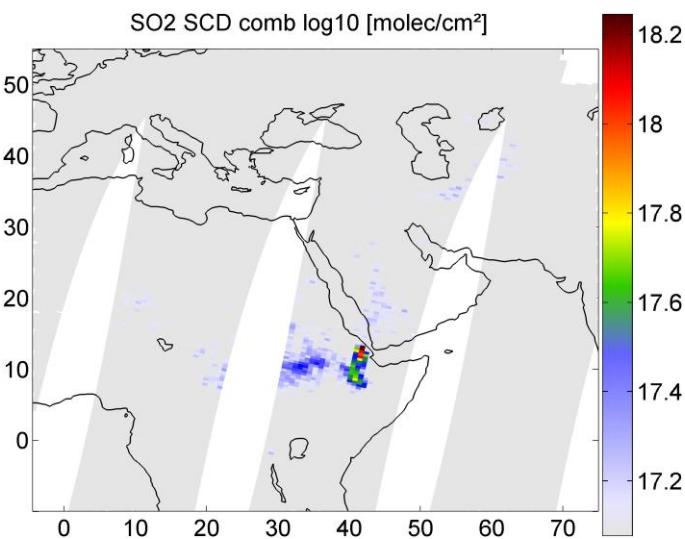
#758 Nabro 21.06.2011



#760 Nabro 22.06.2011



#767 Nabro 26.06.2011



#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ _{max}	coordinates
1	Tunguahua	20.02.2007	4.4×10 ¹³	2.5×10 ¹⁷	no	0.03	(4.3 ± 9.3)×10 ⁻⁵	(6.6 ± 6.4)×10 ⁻⁵	(1.8 ± 1.3)×10 ⁻⁴	[−15 - 20°N, 60 - 92°W]
2	Anatahan	26.02.2007	2.4×10 ¹³	1.7×10 ¹⁷	no	0.04	(0.9 ± 1.9)×10 ⁻⁴	(6.2 ± 8.4)×10 ⁻⁵	(1.4 ± 2.3)×10 ⁻⁴	[0 - 35°N, 130 - 160°E]
3	Anatahan	27.02.2007	3.8×10 ¹³	2.0×10 ¹⁷	no	0.08	(−1.0 ± 1.7)×10 ⁻⁴	(7.3 ± 8.9)×10 ⁻⁵	(1.9 ± 1.8)×10 ⁻⁴	[0 - 35°N, 133 - 165°E]
4	Chikurachki*	07.03.2007	2.9×10 ¹³	3.6×10 ¹⁷	no	0.16	(9.6 ± 9.4)×10 ⁻⁵	(2.0 ± 3.9)×10 ⁻⁵	(8.0 ± 8.8)×10 ⁻⁵	[45 - 64°N, 145 - 180°E]
5	Chikurachki*	07.03.2007	3.9×10 ¹³	2.5×10 ¹⁷	no	0.07	(0.9 ± 1.9)×10 ⁻⁴	(2.8 ± 5.8)×10 ⁻⁵	(1.6 ± 1.6)×10 ⁻⁴	[35 - 65°N, 155 - 190°W]
6	Tunguahua	20.03.2007	4.4×10 ¹³	1.7×10 ¹⁷	no	0.00	(3.4 ± 7.8)×10 ⁻⁵	(−2.2 ± 4.0)×10 ⁻⁵	(2.6 ± 2.3)×10 ⁻⁴	[−10 - 15°N, 74 - 82°W]
7	Ambrym	02.04.2007	3.6×10 ¹³	1.9×10 ¹⁷	no	0.21	(1.7 ± 1.6)×10 ⁻⁴	(2.2 ± 8.4)×10 ⁻⁵	(1.8 ± 1.5)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
8	Piton de la Fournaise	04.04.2007	5.5×10 ¹³	3.2×10 ¹⁷	yes	0.12	(7.4 ± 5.8)×10 ⁻⁵	(1.5 ± 0.4)×10 ⁻⁴	(1.7 ± 0.8)×10 ⁻⁴	[5 - 40°S, 35 - 70°E]
9	Piton de la Fournaise	05.04.2007	3.5×10 ¹³	7.5×10 ¹⁷	no	0.09	(3.3 ± 2.4)×10 ⁻⁵	(3.4 ± 2.5)×10 ⁻⁵	(4.7 ± 3.5)×10 ⁻⁵	[5 - 40°S, 35 - 75°E]
10 [†]	Piton de la Fournaise	06.04.2007	5.0×10 ¹³	5.3×10 ¹⁸	no	0.00	(0.2 ± 3.2)×10 ⁻⁶	(2.5 ± 7.7)×10 ⁻⁶	(9.5 ± 4.5)×10 ⁻⁶	[0 - 40°S, 35 - 80°E]
11	Ambrym	06.04.2007	4.9×10 ¹³	2.8×10 ¹⁷	yes	0.23	(1.8 ± 1.1)×10 ⁻⁴	(−1.6 ± 7.4)×10 ⁻⁵	(1.7 ± 1.0)×10 ⁻⁴	[0 - 35°S, 150 - 183°E]
12 [†]	Piton de la Fournaise	07.04.2007	5.1×10 ¹³	2.1×10 ¹⁸	no	0.00	(1.4 ± 4.2)×10 ⁻⁶	(8.0 ± 4.9)×10 ⁻⁶	(2.4 ± 1.3)×10 ⁻⁵	[0 - 40°S, 40 - 90°E]
13	Piton de la Fournaise	08.04.2007	5.5×10 ¹³	6.2×10 ¹⁷	no	0.01	(−1.7 ± 1.2)×10 ⁻⁵	(3.0 ± 0.9)×10 ⁻⁵	(8.8 ± 5.0)×10 ⁻⁵	[−40 - 5°N, 30 - 95°E]
14	Ambrym	11.04.2007	3.8×10 ¹³	1.9×10 ¹⁷	no	0.00	(0.8 ± 4.9)×10 ⁻⁵	(3.3 ± 2.0)×10 ⁻⁵	(2.0 ± 1.3)×10 ⁻⁴	[−35 - 5°N, 39 - 85°E]
15	Piton de la Fournaise	11.04.2007	4.9×10 ¹³	1.7×10 ¹⁷	no	0.00	(−0.0 ± 1.4)×10 ⁻⁴	(1.2 ± 8.4)×10 ⁻⁵	(2.8 ± 2.0)×10 ⁻⁴	[0 - 35°S, 150 - 184°E]
16	Etna	12.04.2007	4.6×10 ¹³	2.0×10 ¹⁷	no	0.14	(1.8 ± 2.0)×10 ⁻⁴	(0.6 ± 1.1)×10 ⁻⁴	(2.2 ± 1.8)×10 ⁻⁴	[10 - 45°N, 10 - 44°E]
17	Nyiragongo	14.04.2007	2.5×10 ¹³	2.0×10 ¹⁷	no	0.29	(−1.6 ± 1.4)×10 ⁻⁴	(0.0 ± 8.7)×10 ⁻⁵	(1.2 ± 1.2)×10 ⁻⁴	[−20 - 15°N, 10 - 45°E]
18	Chikurachki*	16.04.2007	3.4×10 ¹³	2.1×10 ¹⁷	yes	0.15	(2.8 ± 2.5)×10 ⁻⁴	(0.1 ± 1.0)×10 ⁻⁴	(1.6 ± 1.7)×10 ⁻⁴	[35 - 70°N, 140 - 175°E]
19	Nevado del Huila	18.04.2007	4.3×10 ¹³	9.0×10 ¹⁷	no	0.01	(0.2 ± 1.4)×10 ⁻⁵	(1.7 ± 1.3)×10 ⁻⁵	(4.8 ± 3.2)×10 ⁻⁵	[−10 - 20°N, 73 - 82°W]
20	Etna	30.04.2007	3.5×10 ¹³	5.2×10 ¹⁷	yes	0.27	(7.0 ± 6.5)×10 ⁻⁵	(8.5 ± 5.8)×10 ⁻⁵	(6.8 ± 5.8)×10 ⁻⁵	[20 - 55°N, 5 - 40°E]
21	Ambrym	01.05.2007	5.0×10 ¹³	2.4×10 ¹⁷	no	0.05	(1.6 ± 1.5)×10 ⁻⁴	(2.8 ± 9.2)×10 ⁻⁵	(2.1 ± 1.2)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
22	Bezymianny*	11./12.05.2007	1.3×10 ¹⁴	3.1×10 ¹⁷	no	0.62	(5.1 ± 1.0)×10 ⁻⁴	(3.7 ± 0.5)×10 ⁻⁴	(4.1 ± 1.0)×10 ⁻⁴	[40 - 70°N, 145 - 180°E]
23	Bezymianny*	12.05.2007	3.3×10 ¹³	1.1×10 ¹⁷	no	0.05	(3.2 ± 3.3)×10 ⁻⁴	(2.1 ± 1.1)×10 ⁻⁴	(2.9 ± 2.5)×10 ⁻⁴	[40 - 70°N, 165 - 200°W]
24	Kliuchevskoi	14.05.2007	2.3×10 ¹³	1.4×10 ¹⁷	no	0.00	(0.3 ± 2.7)×10 ⁻⁴	(3.9 ± 8.6)×10 ⁻⁵	(1.6 ± 1.8)×10 ⁻⁴	[40 - 70°N, 140 - 175°E]
25	Kliuchevskoi	17.05.2007	3.1×10 ¹³	2.6×10 ¹⁷	no	0.00	(−0.1 ± 1.0)×10 ⁻⁴	(1.0 ± 0.6)×10 ⁻⁴	(1.2 ± 1.0)×10 ⁻⁴	[45 - 70°N, 130 - 165°E]
26	Kliuchevskoi	18./19.05.2007	3.5×10 ¹³	1.9×10 ¹⁷	no	0.12	(−1.1 ± 1.6)×10 ⁻⁴	(1.7 ± 0.6)×10 ⁻⁴	(1.8 ± 1.4)×10 ⁻⁴	[40 - 70°N, 145 - 180°E]
27	Kliuchevskoi	19./20.05.2007	4.6×10 ¹³	2.6×10 ¹⁷	yes	0.29	(1.8 ± 0.9)×10 ⁻⁴	(5.5 ± 5.4)×10 ⁻⁵	(1.7 ± 1.0)×10 ⁻⁴	[40 - 70°N, 145 - 180°E]
28	Kliuchevskoi	20./21.05.2007	5.1×10 ¹³	1.9×10 ¹⁷	no	0.40	(2.9 ± 1.3)×10 ⁻⁴	(1.8 ± 0.7)×10 ⁻⁴	(2.6 ± 1.4)×10 ⁻⁴	[40 - 70°N, 145 - 180°E]
29	Kliuchevskoi	21./22.05.2007	6.2×10 ¹³	2.1×10 ¹⁷	no	0.02	(6.9 ± 9.6)×10 ⁻⁵	(1.4 ± 0.4)×10 ⁻⁴	(2.8 ± 1.4)×10 ⁻⁴	[40 - 70°N, 175 - 210°W]
30	Kliuchevskoi	22./23.05.2007	2.9×10 ¹³	2.2×10 ¹⁷	no	0.03	(0.4 ± 1.1)×10 ⁻⁴	(8.1 ± 5.3)×10 ⁻⁵	(1.3 ± 1.5)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
31	Kliuchevskoi	23./24.05.2007	2.6×10 ¹³	2.1×10 ¹⁷	no	0.00	(0.1 ± 1.5)×10 ⁻⁴	(4.2 ± 6.9)×10 ⁻⁵	(1.3 ± 1.3)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
32	Kliuchevskoi	24.05.2007	4.0×10 ¹³	2.7×10 ¹⁷	no	0.06	(7.1 ± 9.2)×10 ⁻⁵	(−0.4 ± 6.5)×10 ⁻⁵	(1.5 ± 1.1)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
33	Kliuchevskoi	25.05.2007	3.9×10 ¹³	1.8×10 ¹⁷	no	0.26	(3.0 ± 1.4)×10 ⁻⁴	(1.0 ± 0.6)×10 ⁻⁴	(2.1 ± 1.6)×10 ⁻⁴	[40 - 70°N, 145 - 180°E]
34	Kliuchevskoi	26.05.2007	2.9×10 ¹³	2.5×10 ¹⁷	no	0.09	(0.9 ± 1.0)×10 ⁻⁴	(4.1 ± 5.4)×10 ⁻⁵	(1.2 ± 1.0)×10 ⁻⁴	[35 - 70°N, 140 - 175°E]
35	Kliuchevskoi	29.05.2007	3.4×10 ¹³	2.2×10 ¹⁷	no	0.06	(1.1 ± 1.1)×10 ⁻⁴	(1.2 ± 0.6)×10 ⁻⁴	(1.6 ± 1.3)×10 ⁻⁴	[35 - 70°N, 135 - 175°E]
36	Kliuchevskoi	30./31.05.2007	3.4×10 ¹³	2.3×10 ¹⁷	no	0.00	(2.0 ± 8.2)×10 ⁻⁵	(3.4 ± 4.7)×10 ⁻⁵	(1.5 ± 1.2)×10 ⁻⁴	[30 - 70°N, 135 - 180°E]
37	Kliuchevskoi	03.06.2007	3.6×10 ¹³	2.6×10 ¹⁷	no	0.01	(0.3 ± 1.3)×10 ⁻⁴	(−6.5 ± 8.4)×10 ⁻⁵	(1.4 ± 1.0)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
38	Ambrym	18.06.2007	6.2×10 ¹³	2.0×10 ¹⁷	no	0.03	(0.8 ± 1.5)×10 ⁻⁴	(8.7 ± 7.7)×10 ⁻⁵	(3.0 ± 1.3)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
39	Popocatpetl	19.06.2007	2.8×10 ¹³	2.4×10 ¹⁷	no	0.01	(−0.4 ± 1.2)×10 ⁻⁴	(3.9 ± 8.8)×10 ⁻⁵	(1.1 ± 1.0)×10 ⁻⁴	[0 - 35°N, 85 - 115°W]
40	Kliuchevskoi	19./20.06.2007	4.1×10 ¹³	2.4×10 ¹⁷	no	0.19	(1.2 ± 0.8)×10 ⁻⁴	(7.3 ± 4.1)×10 ⁻⁵	(1.7 ± 1.1)×10 ⁻⁴	[40 - 70°N, 140 - 175°E]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} [†] combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ _{max}	coordinates
41	Kliuchevskoi	20./21.06.2007	3.4×10 ¹³	2.5×10 ¹⁷	no	0.08	(8.2 ± 6.4)×10 ⁻⁵	(2.5 ± 3.4)×10 ⁻⁵	(1.4 ± 1.1)×10 ⁻⁴	[35 - 70°N, 135 - 175°E]
42	Kliuchevskoi	21./22.06.2007	4.0×10 ¹³	3.4×10 ¹⁷	no	0.00	(0.6 ± 5.1)×10 ⁻⁵	(1.5 ± 0.3)×10 ⁻⁴	(1.2 ± 0.8)×10 ⁻⁴	[35 - 70°N, 140 - 180°E]
43	Kliuchevskoi	22./23.06.2007	4.9×10 ¹³	1.5×10 ¹⁷	no	0.03	(1.9 ± 1.5)×10 ⁻⁴	(2.2 ± 0.6)×10 ⁻⁴	(3.3 ± 2.0)×10 ⁻⁴	[40 - 70°N, 140 - 175°E]
44	Kliuchevskoi	28./29.06.2007	4.8×10 ¹³	4.8×10 ¹⁷	no	0.15	(7.0 ± 5.1)×10 ⁻⁵	(7.2 ± 4.2)×10 ⁻⁵	(1.0 ± 0.6)×10 ⁻⁴	[35 - 70°N, 140 - 180°E]
45	Kliuchevskoi	01./02.07.2007	6.4×10 ¹³	1.4×10 ¹⁷	no	0.09	(2.1 ± 1.9)×10 ⁻⁴	(3.3 ± 0.8)×10 ⁻⁴	(4.4 ± 2.3)×10 ⁻⁴	[40 - 70°N, 145 - 180°E]
46	Ambrym	02.07.2007	2.7×10 ¹³	3.8×10 ¹⁷	yes	0.06	(5.5 ± 7.0)×10 ⁻⁵	(9.5 ± 6.0)×10 ⁻⁵	(7.0 ± 6.3)×10 ⁻⁵	[0 - 35°S, 150 - 183°E]
47	Kliuchevskoi	03./04.07.2007	3.2×10 ¹³	1.7×10 ¹⁷	no	0.02	(0.6 ± 1.4)×10 ⁻⁴	(1.5 ± 8.9)×10 ⁻⁵	(1.8 ± 1.6)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
48	Ambrym	16.07.2007	5.3×10 ¹³	2.6×10 ¹⁷	yes	0.38	(2.4 ± 1.0)×10 ⁻⁴	(1.8 ± 0.6)×10 ⁻⁴	(2.1 ± 1.0)×10 ⁻⁴	[0 - 35°S, 150 - 181°E]
49	Ambrym	22.07.2007	6.0×10 ¹³	1.7×10 ¹⁷	no	0.08	(2.3 ± 1.4)×10 ⁻⁴	(1.6 ± 0.8)×10 ⁻⁴	(3.5 ± 1.6)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
50	Fuego	09.08.2007	3.2×10 ¹³	1.3×10 ¹⁷	no	0.05	(-1.5 ± 1.7)×10 ⁻⁴	(0.2 ± 6.8)×10 ⁻⁵	(2.5 ± 2.1)×10 ⁻⁴	[−5 - 35°N, 75 - 110°W]
51 [†]	Manda Hararo	13.08.2007	3.5×10 ¹³	8.2×10 ¹⁷	no	0.05	(2.4 ± 1.7)×10 ⁻⁵	(-1.0 ± 2.0)×10 ⁻⁵	(4.3 ± 3.8)×10 ⁻⁵	[−10 - 30°N, 20 - 50°E]
52	Manda Hararo	14.08.2007	3.2×10 ¹³	2.5×10 ¹⁷	no	0.04	(-1.0 ± 0.5)×10 ⁻⁴	(-1.1 ± 2.7)×10 ⁻⁵	(1.3 ± 0.9)×10 ⁻⁴	[−10 - 25°N, 20 - 54°E]
53	Soputan	15.08.2007	4.3×10 ¹³	2.1×10 ¹⁷	no	0.04	(1.0 ± 0.8)×10 ⁻⁴	(6.0 ± 4.5)×10 ⁻⁵	(2.0 ± 1.3)×10 ⁻⁴	[−15 - 20°N, 105 - 135°E]
54	Chikurachki	19.08.2007	2.0×10 ¹³	4.8×10 ¹⁷	no	0.02	(-1.2 ± 5.5)×10 ⁻⁵	(3.0 ± 3.7)×10 ⁻⁵	(4.3 ± 5.5)×10 ⁻⁵	[30 - 65°N, 140 - 175°E]
55	Chikurachki	19.08.2007	2.8×10 ¹³	2.3×10 ¹⁷	no	0.05	(-5.5 ± 7.5)×10 ⁻⁵	(-3.8 ± 4.0)×10 ⁻⁵	(1.2 ± 1.1)×10 ⁻⁴	[30 - 65°N, 140 - 190°E]
56	Chikurachki	21.08.2007	2.1×10 ¹³	1.9×10 ¹⁷	no	0.10	(0.9 ± 1.4)×10 ⁻⁴	(7.7 ± 5.6)×10 ⁻⁵	(1.1 ± 1.4)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
57	Chikurachki	31.08.2007	3.2×10 ¹³	1.4×10 ¹⁷	no	0.01	(0.6 ± 2.2)×10 ⁻⁴	(1.4 ± 1.0)×10 ⁻⁴	(2.2 ± 1.8)×10 ⁻⁴	[35 - 70°N, 150 - 185°E]
58	Chikurachki	04.09.2007	2.8×10 ¹³	3.7×10 ¹⁷	no	0.21	(8.2 ± 8.9)×10 ⁻⁵	(3.9 ± 6.2)×10 ⁻⁵	(7.7 ± 7.5)×10 ⁻⁵	[35 - 70°N, 155 - 190°E]
59	Etna	05.09.2007	4.8×10 ¹³	4.4×10 ¹⁷	no	0.19	(7.6 ± 5.9)×10 ⁻⁵	(4.5 ± 3.7)×10 ⁻⁵	(1.1 ± 0.7)×10 ⁻⁴	[20 - 55°N, 5 - 40°E]
60	Etna	06.09.2007	4.1×10 ¹³	1.6×10 ¹⁷	no	0.15	(3.0 ± 1.5)×10 ⁻⁴	(4.9 ± 4.8)×10 ⁻⁵	(2.5 ± 2.0)×10 ⁻⁴	[35 - 70°N, 10 - 45°E]
61 [†]	Jebel at Tair	01.10.2007	5.7×10 ¹³	1.0×10 ¹⁸	no	0.02	(1.0 ± 0.8)×10 ⁻⁵	(5.1 ± 1.0)×10 ⁻⁵	(5.3 ± 4.2)×10 ⁻⁵	[−5 - 40°N, 16 - 55°E]
62	Jebel at Tair	02.10.2007	5.5×10 ¹³	8.0×10 ¹⁷	no	0.01	(0.8 ± 1.7)×10 ⁻⁵	(3.1 ± 1.3)×10 ⁻⁵	(6.8 ± 3.6)×10 ⁻⁵	[0 - 45°N, 25 - 64°E]
63	Jebel at Tair	03.10.2007	5.6×10 ¹³	5.6×10 ¹⁷	no	0.03	(3.6 ± 2.1)×10 ⁻⁵	(1.4 ± 1.9)×10 ⁻⁵	(1.0 ± 0.6)×10 ⁻⁴	[5 - 50°N, 15 - 75°E]
64	Jebel at Tair	04.10.2007	5.3×10 ¹³	1.5×10 ¹⁷	no	0.05	(-4.9 ± 1.9)×10 ⁻⁴	(-5.5 ± 5.9)×10 ⁻⁵	(3.6 ± 2.3)×10 ⁻⁴	[20 - 50°N, 70 - 104°E]
65	Jebel at Tair	04.10.2007	4.1×10 ¹³	3.9×10 ¹⁷	yes	0.00	(-0.8 ± 4.5)×10 ⁻⁵	(0.5 ± 2.8)×10 ⁻⁵	(1.1 ± 0.8)×10 ⁻⁴	[10 - 50°N, 45 - 80°E]
66	Jebel at Tair	05.10.2007	4.8×10 ¹³	2.7×10 ¹⁷	no	0.05	(6.2 ± 5.3)×10 ⁻⁵	(3.8 ± 2.8)×10 ⁻⁵	(1.8 ± 1.3)×10 ⁻⁴	[15 - 55°N, 60 - 105°E]
67	Soputan	26.10.2007	4.5×10 ¹³	3.0×10 ¹⁷	no	0.00	(1.2 ± 6.0)×10 ⁻⁵	(2.1 ± 3.8)×10 ⁻⁵	(1.5 ± 1.0)×10 ⁻⁴	[−20 - 20°N, 100 - 133°E]
68	Etna	24.11.2007	1.4×10 ¹⁴	1.1×10 ¹⁸	yes	0.61	(1.1 ± 0.3)×10 ⁻⁴	(1.1 ± 0.2)×10 ⁻⁴	(1.3 ± 0.3)×10 ⁻⁴	[20 - 49°N, 0 - 35°E]
69	Etna	25.11.2007	8.0×10 ¹³	3.1×10 ¹⁷	no	0.02	(3.2 ± 9.9)×10 ⁻⁵	(2.0 ± 0.4)×10 ⁻⁴	(2.6 ± 1.2)×10 ⁻⁴	[15 - 49°N, 10 - 50°E]
70	Bagana	10.12.2007	3.3×10 ¹³	3.6×10 ¹⁷	no	0.00	(1.9 ± 5.8)×10 ⁻⁵	(-1.1 ± 0.5)×10 ⁻⁴	(9.2 ± 8.5)×10 ⁻⁵	[−25 - 10°N, 135 - 168°E]
71	Bagana	11.12.2007	3.9×10 ¹³	1.7×10 ¹⁷	no	0.07	(3.5 ± 1.7)×10 ⁻⁴	(3.7 ± 6.9)×10 ⁻⁵	(2.2 ± 1.6)×10 ⁻⁴	[−25 - 10°N, 135 - 170°E]
72	Bagana	30.12.2007	4.2×10 ¹³	4.2×10 ¹⁷	yes	0.19	(1.1 ± 0.7)×10 ⁻⁴	(8.7 ± 7.5)×10 ⁻⁵	(9.9 ± 7.7)×10 ⁻⁵	[−25 - 10°N, 140 - 171°E]
73	Tungurahua	06.02.2008	3.8×10 ¹³	1.6×10 ¹⁷	no	0.00	(1.0 ± 2.5)×10 ⁻⁴	(-6.7 ± 7.1)×10 ⁻⁵	(2.4 ± 1.8)×10 ⁻⁴	[−20 - 15°N, 65 - 95°W]
74	Anatahan	05.03.2008	3.6×10 ¹³	1.7×10 ¹⁷	no	0.04	(-1.0 ± 1.8)×10 ⁻⁴	(3.6 ± 8.5)×10 ⁻⁵	(2.1 ± 2.0)×10 ⁻⁴	[0 - 35°N, 132 - 164°E]
75	Anatahan	05.03.2008	2.7×10 ¹³	3.4×10 ¹⁷	no	0.14	(9.5 ± 7.4)×10 ⁻⁵	(0.6 ± 5.2)×10 ⁻⁵	(7.9 ± 8.9)×10 ⁻⁵	[0 - 35°N, 130 - 165°E]
76	Anatahan	14.03.2008	3.9×10 ¹³	2.0×10 ¹⁷	no	0.05	(1.2 ± 1.5)×10 ⁻⁴	(5.1 ± 7.8)×10 ⁻⁵	(2.0 ± 1.6)×10 ⁻⁴	[0 - 35°N, 128 - 160°E]
77	Kilauea	24.03.2008	3.3×10 ¹³	1.4×10 ¹⁷	yes	0.16	(2.4 ± 1.6)×10 ⁻⁴	(-3.0 ± 8.6)×10 ⁻⁵	(2.4 ± 2.3)×10 ⁻⁴	[0 - 35°N, 142 - 175°W]
78	Anatahan	24.03.2008	3.8×10 ¹³	3.5×10 ¹⁷	yes	0.03	(4.5 ± 8.0)×10 ⁻⁵	(-3.7 ± 6.9)×10 ⁻⁵	(1.1 ± 0.8)×10 ⁻⁴	[0 - 35°N, 130 - 165°E]
79	Kilauea	25.03.2008	3.9×10 ¹³	1.9×10 ¹⁷	no	0.02	(0.7 ± 1.7)×10 ⁻⁴	(8.8 ± 8.8)×10 ⁻⁵	(2.0 ± 1.5)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
80	Kilauea	29.03.2008	4.8×10 ¹³	2.2×10 ¹⁷	no	0.00	(0.4 ± 1.6)×10 ⁻⁴	(-0.5 ± 8.3)×10 ⁻⁵	(2.2 ± 1.4)×10 ⁻⁴	[0 - 35°N, 141 - 175°W]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} [†] combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ _{max}	coordinates
81	Kilauea	04.04.2008	3.4×10 ¹³	3.3×10 ¹⁷	no	0.00	(-3.4 ± 7.9)×10 ⁻⁵	(-0.8 ± 5.8)×10 ⁻⁵	(1.0 ± 0.8)×10 ⁻⁴	[0 - 35°N, 135 - 170°W]
82	Kilauea	05.04.2008	1.6×10 ¹³	2.0×10 ¹⁷	no	0.13	(-1.5 ± 1.4)×10 ⁻⁴	(-6.5 ± 7.8)×10 ⁻⁵	(0.8 ± 1.3)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
83	Kilauea	12.04.2008	4.6×10 ¹³	2.0×10 ¹⁷	no	0.01	(-0.7 ± 1.0)×10 ⁻⁴	(1.4 ± 5.0)×10 ⁻⁵	(2.2 ± 1.3)×10 ⁻⁴	[0 - 35°N, 144 - 175°W]
84	Kilauea	13.04.2008	2.8×10 ¹³	1.8×10 ¹⁷	no	0.05	(-1.8 ± 1.6)×10 ⁻⁴	(-3.3 ± 7.3)×10 ⁻⁵	(1.6 ± 1.3)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
85	Kilauea	18.04.2008	4.5×10 ¹³	2.1×10 ¹⁷	no	0.01	(3.1 ± 10.0)×10 ⁻⁵	(6.8 ± 4.9)×10 ⁻⁵	(2.2 ± 1.2)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
86	Kilauea	19.04.2008	3.5×10 ¹³	1.3×10 ¹⁷	no	0.03	(-4.2 ± 2.3)×10 ⁻⁴	(6.4 ± 7.2)×10 ⁻⁵	(2.6 ± 1.9)×10 ⁻⁴	[0 - 35°N, 140 - 172°W]
87	Kilauea	22.04.2008	6.7×10 ¹³	1.6×10 ¹⁷	no	0.01	(1.5 ± 1.4)×10 ⁻⁴	(1.3 ± 0.6)×10 ⁻⁴	(4.1 ± 1.7)×10 ⁻⁴	[0 - 35°N, 142 - 175°W]
88	Kilauea	26.04.2008	3.1×10 ¹³	3.8×10 ¹⁷	no	0.00	(-0.1 ± 4.8)×10 ⁻⁵	(3.4 ± 4.1)×10 ⁻⁵	(8.2 ± 7.0)×10 ⁻⁵	[0 - 35°N, 140 - 175°W]
89	Kilauea	27.04.2008	4.4×10 ¹³	3.2×10 ¹⁷	no	0.01	(-2.7 ± 4.6)×10 ⁻⁵	(1.4 ± 2.7)×10 ⁻⁵	(1.4 ± 0.9)×10 ⁻⁴	[0 - 40°N, 140 - 180°W]
90	Kilauea	02.05.2008	4.1×10 ¹³	2.3×10 ¹⁷	no	0.01	(-5.3 ± 9.8)×10 ⁻⁵	(5.4 ± 6.0)×10 ⁻⁵	(1.7 ± 1.1)×10 ⁻⁴	[0 - 35°N, 141 - 175°W]
91	Kilauea	03.05.2008	3.5×10 ¹³	3.0×10 ¹⁷	no	0.18	(1.6 ± 0.8)×10 ⁻⁴	(2.2 ± 5.8)×10 ⁻⁵	(1.2 ± 0.8)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
92	Kilauea	07.05.2008	5.1×10 ¹³	1.9×10 ¹⁷	no	0.14	(2.5 ± 1.2)×10 ⁻⁴	(4.6 ± 6.2)×10 ⁻⁵	(2.7 ± 1.5)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
93	Kilauea	08.05.2008	4.9×10 ¹³	1.6×10 ¹⁷	no	0.12	(9.5 ± 3.0)×10 ⁻⁴	(6.8 ± 6.1)×10 ⁻⁵	(3.0 ± 1.5)×10 ⁻⁴	[0 - 35°N, 140 - 174°W]
94 [†]	Etna	11.05.2008	2.3×10 ¹⁴	1.5×10 ¹⁸	yes	0.60	(8.6 ± 1.5)×10 ⁻⁵	(1.2 ± 0.2)×10 ⁻⁴	(1.5 ± 0.6)×10 ⁻⁴	[20 - 55°N, 5 - 45°E]
95	Kilauea	11.05.2008	5.4×10 ¹³	1.8×10 ¹⁷	no	0.04	(1.2 ± 1.1)×10 ⁻⁴	(1.3 ± 0.6)×10 ⁻⁴	(2.9 ± 1.6)×10 ⁻⁴	[0 - 35°N, 144 - 175°W]
96	Etna	12.05.2008	6.1×10 ¹³	4.0×10 ¹⁷	no	0.07	(7.3 ± 5.4)×10 ⁻⁵	(1.6 ± 0.3)×10 ⁻⁴	(1.5 ± 0.7)×10 ⁻⁴	[15 - 55°N, 25 - 69°E]
97	Etna	14.05.2008	2.4×10 ¹⁴	8.2×10 ¹⁷	yes	0.70	(2.7 ± 0.2)×10 ⁻⁴	(2.1 ± 0.1)×10 ⁻⁴	(3.0 ± 0.3)×10 ⁻⁴	[20 - 60°N, -5 - 35°E]
98	Kilauea	14.05.2008	1.6×10 ¹³	1.8×10 ¹⁷	no	0.03	(-0.3 ± 1.6)×10 ⁻⁴	(-1.7 ± 6.1)×10 ⁻⁵	(0.9 ± 1.4)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
99	Etna	15.05.2008	6.1×10 ¹³	1.9×10 ¹⁷	no	0.01	(0.8 ± 1.3)×10 ⁻⁴	(1.4 ± 0.6)×10 ⁻⁴	(3.1 ± 1.6)×10 ⁻⁴	[20 - 55°N, 0 - 35°E]
100	Kilauea	16.05.2008	3.3×10 ¹³	6.1×10 ¹⁷	no	0.00	(1.3 ± 3.3)×10 ⁻⁵	(2.5 ± 2.7)×10 ⁻⁵	(5.5 ± 4.4)×10 ⁻⁵	[0 - 35°N, 143 - 175°W]
101	Kilauea	17.05.2008	3.9×10 ¹³	3.8×10 ¹⁷	no	0.00	(-0.4 ± 5.4)×10 ⁻⁵	(0.2 ± 2.9)×10 ⁻⁵	(1.0 ± 0.7)×10 ⁻⁴	[0 - 40°N, 140 - 180°W]
102	Kilauea	22.05.2008	4.3×10 ¹³	2.2×10 ¹⁷	no	0.00	(-0.2 ± 1.1)×10 ⁻⁴	(9.0 ± 6.5)×10 ⁻⁵	(1.9 ± 1.1)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
103	Kilauea	26.05.2008	5.3×10 ¹³	1.9×10 ¹⁷	no	0.04	(-2.5 ± 1.2)×10 ⁻⁴	(1.5 ± 7.4)×10 ⁻⁵	(2.8 ± 1.2)×10 ⁻⁴	[0 - 35°N, 141 - 175°W]
104	Cerro Azul	30.05.2008	5.1×10 ¹³	6.5×10 ¹⁷	no	0.08	(5.3 ± 3.0)×10 ⁻⁵	(-0.5 ± 2.8)×10 ⁻⁵	(7.8 ± 3.3)×10 ⁻⁵	[20 - 20°N, 75 - 110°W]
105	Kilauea	30.05.2008	5.4×10 ¹³	1.3×10 ¹⁷	no	0.00	(-0.7 ± 1.8)×10 ⁻⁴	(1.0 ± 0.7)×10 ⁻⁴	(3.9 ± 2.2)×10 ⁻⁴	[0 - 35°N, 150 - 175°W]
106	Cerro Azul	31.05.2008	5.9×10 ¹³	4.7×10 ¹⁷	no	0.00	(1.6 ± 2.4)×10 ⁻⁵	(4.8 ± 1.8)×10 ⁻⁵	(1.3 ± 0.5)×10 ⁻⁴	[20 - 20°N, 75 - 109°W]
107	Kilauea	31.05.2008	4.1×10 ¹³	1.8×10 ¹⁷	no	0.02	(-0.7 ± 1.2)×10 ⁻⁴	(-0.9 ± 6.8)×10 ⁻⁵	(2.2 ± 1.4)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
108	Cerro Azul	04.06.2008	3.3×10 ¹³	4.1×10 ¹⁷	yes	0.02	(3.9 ± 5.0)×10 ⁻⁵	(-0.7 ± 4.3)×10 ⁻⁵	(8.0 ± 5.0)×10 ⁻⁵	[20 - 15°N, 75 - 110°W]
109	Kilauea	04.06.2008	4.9×10 ¹³	1.7×10 ¹⁷	no	0.14	(3.2 ± 1.3)×10 ⁻⁴	(8.0 ± 5.6)×10 ⁻⁵	(2.8 ± 1.7)×10 ⁻⁴	[0 - 35°N, 145 - 175°W]
110	Cerro Azul	05.06.2008	3.2×10 ¹³	2.4×10 ¹⁷	no	0.01	(-3.9 ± 6.4)×10 ⁻⁵	(5.8 ± 3.7)×10 ⁻⁵	(1.3 ± 1.0)×10 ⁻⁴	[20 - 15°N, 75 - 108°W]
111	Kilauea	05.06.2008	5.5×10 ¹³	1.5×10 ¹⁷	no	0.00	(2.5 ± 1.5)×10 ⁻⁴	(9.6 ± 6.9)×10 ⁻⁵	(3.6 ± 1.3)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
112	Cerro Azul	06.06.2008	2.6×10 ¹³	2.4×10 ¹⁷	no	0.01	(-2.6 ± 6.8)×10 ⁻⁵	(0.7 ± 3.9)×10 ⁻⁵	(1.1 ± 0.9)×10 ⁻⁴	[20 - 15°N, 70 - 103°W]
113	Soputan	07.06.2008	6.0×10 ¹³	3.6×10 ¹⁷	no	0.01	(3.7 ± 3.2)×10 ⁻⁵	(1.0 ± 1.6)×10 ⁻⁵	(1.6 ± 0.8)×10 ⁻⁴	[25 - 9°N, 119 - 129°E]
114	Cerro Azul	08.06.2008	3.6×10 ¹³	4.7×10 ¹⁷	no	0.01	(2.5 ± 4.8)×10 ⁻⁵	(0.1 ± 3.3)×10 ⁻⁵	(7.7 ± 4.7)×10 ⁻⁵	[20 - 15°N, 78 - 110°W]
115	Cerro Azul	09.06.2008	4.5×10 ¹³	1.9×10 ¹⁷	yes	0.01	(6.1 ± 9.6)×10 ⁻⁵	(6.4 ± 5.8)×10 ⁻⁵	(2.3 ± 1.3)×10 ⁻⁴	[20 - 15°N, 75 - 110°W]
116	Kilauea	11.06.2008	3.6×10 ¹³	2.1×10 ¹⁷	no	0.01	(4.3 ± 8.9)×10 ⁻⁵	(6.8 ± 5.9)×10 ⁻⁵	(1.7 ± 1.0)×10 ⁻⁴	[0 - 35°N, 140 - 173°W]
117	Popocatpetl	12.06.2008	3.6×10 ¹³	2.5×10 ¹⁷	yes	0.03	(2.9 ± 7.7)×10 ⁻⁵	(3.4 ± 6.6)×10 ⁻⁵	(1.4 ± 0.8)×10 ⁻⁴	[0 - 35°N, 80 - 115°W]
118	Kilauea	14.06.2008	3.5×10 ¹³	2.4×10 ¹⁷	no	0.02	(-0.7 ± 1.2)×10 ⁻⁴	(-1.3 ± 7.4)×10 ⁻⁵	(1.5 ± 1.1)×10 ⁻⁴	[0 - 35°N, 143 - 175°W]
119	Popocatpetl	15.06.2008	3.6×10 ¹³	2.7×10 ¹⁷	yes	0.02	(-0.7 ± 9.6)×10 ⁻⁵	(8.2 ± 6.2)×10 ⁻⁵	(1.4 ± 1.4)×10 ⁻⁴	[0 - 35°N, 80 - 115°W]
120	Kilauea	19.06.2008	2.1×10 ¹³	2.0×10 ¹⁷	no	0.09	(-1.0 ± 1.2)×10 ⁻⁴	(-8.2 ± 7.4)×10 ⁻⁵	(1.0 ± 1.2)×10 ⁻⁴	[0 - 35°N, 142 - 175°W]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} [†] combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

[‡] SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ _{max}	coordinates
121	Kilauea	30.06.2008	1.3×10 ¹³	2.4×10 ¹⁷	no	0.04	(5.2 ± 9.3)×10 ⁻⁵	(-4.5 ± 6.7)×10 ⁻⁵	(5.7 ± 9.8)×10 ⁻⁵	[0 - 35°N, 140 - 175°W]
122	Kilauea	03.07.2008	4.7×10 ¹³	2.2×10 ¹⁷	no	0.09	(3.0 ± 1.0)×10 ⁻⁴	(3.6 ± 4.4)×10 ⁻⁵	(2.1 ± 1.3)×10 ⁻⁴	[0 - 35°N, 145 - 180°W]
123	Kilauea	04.07.2008	6.3×10 ¹³	2.9×10 ¹⁷	no	0.07	(9.2 ± 6.5)×10 ⁻⁵	(0.0 ± 4.4)×10 ⁻⁵	(2.2 ± 1.0)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
124	Kilauea	05.07.2008	3.7×10 ¹³	1.5×10 ¹⁷	no	0.00	(0.3 ± 1.2)×10 ⁻⁴	(2.7 ± 5.3)×10 ⁻⁵	(2.4 ± 1.6)×10 ⁻⁴	[0 - 35°N, 140 - 174°W]
125	Kilauea	08.07.2008	3.8×10 ¹³	2.9×10 ¹⁷	no	0.21	(1.3 ± 0.6)×10 ⁻⁴	(1.2 ± 3.9)×10 ⁻⁵	(1.3 ± 1.0)×10 ⁻⁴	[0 - 35°N, 144 - 175°W]
126	Kilauea	10.07.2008	4.1×10 ¹³	2.5×10 ¹⁷	no	0.03	(8.2 ± 7.9)×10 ⁻⁵	(4.6 ± 4.1)×10 ⁻⁵	(1.6 ± 1.0)×10 ⁻⁴	[0 - 35°N, 140 - 173°W]
127	Kilauea	11.07.2008	2.7×10 ¹³	2.2×10 ¹⁷	no	0.03	(-5.5 ± 9.3)×10 ⁻⁵	(-1.4 ± 6.2)×10 ⁻⁵	(1.2 ± 1.1)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
128†	Okmok	13.07.2008	3.4×10 ¹³	4.1×10 ¹⁸	no	0.01	(1.5 ± 2.0)×10 ⁻⁶	(0.8 ± 4.2)×10 ⁻⁶	(8.2 ± 6.2)×10 ⁻⁶	[30 - 70°N, 140 - 185°W]
129	Kilauea	13.07.2008	4.9×10 ¹³	2.9×10 ¹⁷	no	0.00	(-0.1 ± 5.4)×10 ⁻⁵	(2.7 ± 2.9)×10 ⁻⁵	(1.7 ± 0.9)×10 ⁻⁴	[0 - 35°N, 143 - 175°W]
130†	Okmok	14.07.2008	3.0×10 ¹³	1.8×10 ¹⁸	no	0.01	(3.1 ± 4.0)×10 ⁻⁶	(7.0 ± 4.8)×10 ⁻⁶	(1.6 ± 1.4)×10 ⁻⁵	[25 - 70°N, 130 - 180°W]
131	Kilauea	14.07.2008	7.3×10 ¹³	3.3×10 ¹⁷	yes	0.15	(1.3 ± 0.5)×10 ⁻⁴	(3.1 ± 3.3)×10 ⁻⁵	(2.2 ± 0.8)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
132†	Okmok	15.07.2008	5.1×10 ¹³	1.9×10 ¹⁸	no	0.00	(1.7 ± 4.9)×10 ⁻⁶	(1.3 ± 0.5)×10 ⁻⁵	(2.7 ± 1.8)×10 ⁻⁵	[20 - 65°N, 130 - 180°W]
133	Kilauea	15.07.2008	3.6×10 ¹³	3.5×10 ¹⁷	yes	0.08	(8.2 ± 6.0)×10 ⁻⁵	(4.0 ± 3.5)×10 ⁻⁵	(1.0 ± 0.7)×10 ⁻⁴	[0 - 35°N, 140 - 172°W]
134	Okmok	16.07.2008	5.4×10 ¹³	9.6×10 ¹⁷	no	0.00	(-1.4 ± 8.9)×10 ⁻⁶	(2.4 ± 0.8)×10 ⁻⁵	(5.6 ± 3.4)×10 ⁻⁵	[20 - 65°N, 120 - 175°W]
135	Okmok	17.07.2008	6.6×10 ¹³	7.6×10 ¹⁷	no	0.00	(-3.3 ± 9.6)×10 ⁻⁶	(2.4 ± 0.9)×10 ⁻⁵	(8.7 ± 3.9)×10 ⁻⁵	[20 - 65°N, 95 - 170°W]
136	Kilauea	17.07.2008	4.8×10 ¹³	1.8×10 ¹⁷	no	0.00	(5.4 ± 9.2)×10 ⁻⁵	(1.5 ± 0.5)×10 ⁻⁴	(2.6 ± 1.7)×10 ⁻⁴	[0 - 35°N, 140 - 180°W]
137	Okmok	18.07.2008	6.6×10 ¹³	9.0×10 ¹⁷	no	0.03	(3.0 ± 1.2)×10 ⁻⁵	(2.6 ± 1.1)×10 ⁻⁵	(7.3 ± 3.1)×10 ⁻⁵	[25 - 70°N, 65 - 155°W]
138	Kilauea	18.07.2008	5.8×10 ¹³	2.1×10 ¹⁷	no	0.01	(9.7 ± 9.0)×10 ⁻⁵	(-3.0 ± 3.8)×10 ⁻⁵	(2.8 ± 1.3)×10 ⁻⁴	[0 - 35°N, 142 - 175°W]
139	Okmok	19.07.2008	4.8×10 ¹³	2.2×10 ¹⁷	no	0.00	(-5.0 ± 4.5)×10 ⁻⁵	(-2.0 ± 2.1)×10 ⁻⁵	(2.1 ± 1.2)×10 ⁻⁴	[30 - 70°N, 30 - 95°W]
140	Kilauea	19.07.2008	5.1×10 ¹³	3.3×10 ¹⁷	no	0.04	(-7.1 ± 3.5)×10 ⁻⁵	(5.5 ± 1.9)×10 ⁻⁵	(1.6 ± 0.8)×10 ⁻⁴	[20 - 65°N, 90 - 150°W]
141	Okmok	19.07.2008	4.2×10 ¹³	2.1×10 ¹⁷	no	0.09	(-2.3 ± 1.0)×10 ⁻⁴	(3.3 ± 4.8)×10 ⁻⁵	(2.0 ± 1.4)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
142	Okmok	20.07.2008	3.0×10 ¹³	1.3×10 ¹⁷	no	0.02	(1.3 ± 0.8)×10 ⁻³	(-5.0 ± 7.9)×10 ⁻⁵	(2.3 ± 2.0)×10 ⁻⁴	[45 - 70°N, 20 - 55°W]
143	Okmok	20.07.2008	5.0×10 ¹³	1.5×10 ¹⁷	no	0.01	(1.4 ± 1.3)×10 ⁻⁴	(4.6 ± 6.1)×10 ⁻⁵	(3.3 ± 1.9)×10 ⁻⁴	[20 - 55°N, 130 - 165°W]
144	Okmok	20.07.2008	5.7×10 ¹³	4.2×10 ¹⁷	no	0.06	(8.0 ± 3.7)×10 ⁻⁵	(-3.8 ± 2.2)×10 ⁻⁵	(1.4 ± 0.7)×10 ⁻⁴	[30 - 65°N, 60 - 110°W]
145	Kilauea	20.07.2008	6.9×10 ¹³	3.2×10 ¹⁷	no	0.22	(1.6 ± 0.7)×10 ⁻⁴	(7.8 ± 4.2)×10 ⁻⁵	(2.1 ± 0.8)×10 ⁻⁴	[0 - 35°N, 140 - 171°W]
146	Okmok	20.07.2008	3.0×10 ¹³	1.3×10 ¹⁷	no	0.02	(1.3 ± 0.8)×10 ⁻³	(-5.0 ± 7.9)×10 ⁻⁵	(2.3 ± 2.0)×10 ⁻⁴	[45 - 70°N, 20 - 55°W]
147	Okmok	21.07.2008	6.7×10 ¹³	1.7×10 ¹⁷	no	0.02	(-2.0 ± 1.1)×10 ⁻⁴	(1.7 ± 3.6)×10 ⁻⁵	(4.0 ± 1.8)×10 ⁻⁴	[35 - 70°N, 35 - 75°W]
148	Okmok	22.07.2008	4.0×10 ¹³	1.7×10 ¹⁷	no	0.00	(0.4 ± 1.2)×10 ⁻⁴	(6.0 ± 4.6)×10 ⁻⁵	(2.3 ± 1.7)×10 ⁻⁴	[35 - 70°N, 135 - 170°W]
149	Kilauea	22.07.2008	3.8×10 ¹³	2.0×10 ¹⁷	no	0.06	(1.2 ± 1.0)×10 ⁻⁴	(-4.8 ± 4.8)×10 ⁻⁵	(1.9 ± 1.4)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
150	Karymsky	27.07.2008	3.1×10 ¹³	1.6×10 ¹⁷	no	0.17	(2.3 ± 2.4)×10 ⁻⁴	(5.4 ± 8.2)×10 ⁻⁵	(1.9 ± 1.6)×10 ⁻⁴	[35 - 70°N, 140 - 175°E]
151	Karymsky	27.07.2008	5.1×10 ¹³	2.3×10 ¹⁷	no	0.06	(1.5 ± 1.2)×10 ⁻⁴	(5.7 ± 6.5)×10 ⁻⁵	(2.2 ± 1.3)×10 ⁻⁴	[30 - 65°N, 140 - 175°E]
152	Tungurahua	28.07.2008	4.9×10 ¹³	2.5×10 ¹⁷	no	0.11	(0.8 ± 1.0)×10 ⁻⁴	(1.6 ± 0.6)×10 ⁻⁴	(2.0 ± 0.9)×10 ⁻⁴	[−15 - 20°N, 69 - 100°W]
153	Kilauea	28.07.2008	4.4×10 ¹³	2.0×10 ¹⁷	no	0.07	(-1.8 ± 0.9)×10 ⁻⁴	(-6.3 ± 6.6)×10 ⁻⁵	(2.2 ± 1.2)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
154	Kilauea	29.07.2008	5.5×10 ¹³	2.8×10 ¹⁷	no	0.03	(8.7 ± 6.5)×10 ⁻⁵	(-3.8 ± 4.7)×10 ⁻⁵	(1.9 ± 0.9)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
155	Karymsky	01.08.2008	3.4×10 ¹³	1.4×10 ¹⁷	no	0.01	(0.9 ± 1.4)×10 ⁻⁴	(1.7 ± 5.3)×10 ⁻⁵	(2.5 ± 1.7)×10 ⁻⁴	[30 - 65°N, 135 - 170°E]
156	Karymsky	01.08.2008	2.6×10 ¹³	1.8×10 ¹⁷	no	0.02	(9.7 ± 9.1)×10 ⁻⁵	(-4.3 ± 4.1)×10 ⁻⁵	(1.4 ± 1.4)×10 ⁻⁴	[25 - 65°N, 140 - 175°E]
157	Kilauea	02.08.2008	3.2×10 ¹³	2.4×10 ¹⁷	no	0.03	(6.7 ± 9.8)×10 ⁻⁵	(2.4 ± 6.7)×10 ⁻⁵	(1.3 ± 1.4)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
158	Kilauea	03.08.2008	4.2×10 ¹³	2.9×10 ¹⁷	yes	0.06	(6.5 ± 6.5)×10 ⁻⁵	(2.4 ± 6.7)×10 ⁻⁵	(1.4 ± 0.9)×10 ⁻⁴	[0 - 35°N, 140 - 174°W]
159	Kilauea	06.08.2008	5.0×10 ¹³	2.4×10 ¹⁷	no	0.01	(4.4 ± 6.9)×10 ⁻⁵	(-2.9 ± 4.3)×10 ⁻⁵	(2.0 ± 1.3)×10 ⁻⁴	[0 - 35°N, 144 - 175°W]
160†	Kasatochi	08.08.2008	3.6×10 ¹⁴	3.9×10 ¹⁹	no	0.22	(4.4 ± 0.3)×10 ⁻⁶	(1.2 ± 0.0)×10 ⁻⁵	(9.3 ± 0.7)×10 ⁻⁶	[30 - 70°N, 145 - 195°W]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} † combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ max	coordinates
161	Kilauea	08.08.2008	3.6×10^{13}	2.0×10^{17}	no	0.19	$(-2.1 \pm 1.1) \times 10^{-4}$	$(9.1 \pm 5.2) \times 10^{-5}$	$(1.8 \pm 1.3) \times 10^{-4}$	[0 - 35°N, 140 - 173°W]
162 [†]	Kasatochi	09.08.2008	4.5×10^{14}	2.6×10^{19}	no	0.24	$(1.2 \pm 0.0) \times 10^{-5}$	$(2.5 \pm 0.0) \times 10^{-5}$	$(1.7 \pm 0.1) \times 10^{-5}$	[25 - 70°N, 135 - 190°W]
163 [†]	Kasatochi	10.08.2008	4.3×10^{14}	1.9×10^{19}	no	0.41	$(2.1 \pm 0.0) \times 10^{-5}$	$(3.1 \pm 0.1) \times 10^{-5}$	$(2.3 \pm 0.2) \times 10^{-5}$	[25 - 70°N, 110 - 185°W]
164 [†]	Kasatochi	11.08.2008	3.7×10^{14}	1.9×10^{19}	no	0.50	$(3.4 \pm 0.0) \times 10^{-5}$	$(4.1 \pm 0.1) \times 10^{-5}$	$(2.0 \pm 0.1) \times 10^{-5}$	[20 - 70°N, 60 - 180°W]
165 [†]	Kasatochi	12.08.2008	3.0×10^{14}	1.6×10^{19}	no	0.21	$(2.4 \pm 0.1) \times 10^{-5}$	$(3.2 \pm 0.1) \times 10^{-5}$	$(1.9 \pm 0.2) \times 10^{-5}$	[20 - 70°N, 50 - 175°W]
166	Kilauea	12.08.2008	6.2×10^{13}	1.3×10^{17}	no	0.01	$(2.7 \pm 1.5) \times 10^{-4}$	$(5.2 \pm 5.5) \times 10^{-5}$	$(4.6 \pm 2.1) \times 10^{-4}$	[0 - 35°N, 140 - 175°W]
167 [†]	Kasatochi	13.08.2008	1.3×10^{14}	1.5×10^{19}	no	0.14	$(9.7 \pm 0.4) \times 10^{-6}$	$(2.5 \pm 0.1) \times 10^{-5}$	$(9.0 \pm 1.9) \times 10^{-6}$	[25 - 70°N, 20 - 175°W]
168	Kilauea	13.08.2008	2.2×10^{13}	1.5×10^{17}	no	0.00	$(0.8 \pm 2.0) \times 10^{-4}$	$(-5.1 \pm 6.5) \times 10^{-5}$	$(1.5 \pm 1.9) \times 10^{-4}$	[0 - 35°N, 140 - 172°W]
169 [†]	Kasatochi	14.08.2008	1.1×10^{14}	6.9×10^{18}	no	0.00	$(-2.0 \pm 9.0) \times 10^{-7}$	$(2.4 \pm 0.1) \times 10^{-5}$	$(1.7 \pm 0.5) \times 10^{-5}$	[20 - 70°N, -200 - 15°E]
170 [†]	Kasatochi	15.08.2008	9.4×10^{13}	4.9×10^{18}	no	0.01	$(5.4 \pm 1.1) \times 10^{-6}$	$(1.7 \pm 0.2) \times 10^{-5}$	$(1.9 \pm 0.7) \times 10^{-5}$	[20 - 70°N, -225 - 40°E]
171	Kilauea	15.08.2008	6.5×10^{13}	2.3×10^{17}	no	0.02	$(9.1 \pm 6.6) \times 10^{-5}$	$(5.4 \pm 3.5) \times 10^{-5}$	$(2.9 \pm 1.3) \times 10^{-4}$	[0 - 35°N, 140 - 180°W]
172 [†]	Kasatochi	16.08.2008	2.9×10^{14}	3.0×10^{18}	no	0.00	$(4.6 \pm 1.7) \times 10^{-6}$	$(1.5 \pm 0.2) \times 10^{-5}$	$(9.8 \pm 6.6) \times 10^{-5}$	[20 - 70°N, -170 - 50°E]
173	Kilauea	16.08.2008	4.2×10^{13}	2.1×10^{17}	no	0.12	$(1.7 \pm 1.1) \times 10^{-4}$	$(4.4 \pm 5.2) \times 10^{-5}$	$(2.0 \pm 1.4) \times 10^{-4}$	[0 - 35°N, 142 - 175°W]
174	Kasatochi	16.08.2008	5.9×10^{13}	1.7×10^{17}	no	0.00	$(-2.0 \pm 1.2) \times 10^{-4}$	$(-0.3 \pm 2.9) \times 10^{-5}$	$(3.4 \pm 1.9) \times 10^{-4}$	[40 - 70°N, 35 - 80°E]
175 [†]	Kasatochi	17.08.2008	2.2×10^{15}	3.1×10^{18}	no	0.00	$(1.7 \pm 0.3) \times 10^{-5}$	$(1.8 \pm 0.5) \times 10^{-5}$	$(6.9 \pm 5.6) \times 10^{-4}$	[20 - 70°N, -150 - 80°E]
176	Kasatochi	17.08.2008	5.9×10^{13}	3.1×10^{17}	no	0.06	$(9.7 \pm 6.2) \times 10^{-5}$	$(1.2 \pm 0.3) \times 10^{-4}$	$(1.9 \pm 0.8) \times 10^{-4}$	[35 - 70°N, 147 - 175°E]
177 [†]	Kasatochi	18.08.2008	8.5×10^{13}	1.6×10^{18}	no	0.03	$(2.7 \pm 0.7) \times 10^{-5}$	$(3.1 \pm 0.6) \times 10^{-5}$	$(5.1 \pm 2.6) \times 10^{-5}$	[25 - 70°N, -135 - 35°E]
178	Kasatochi	18.08.2008	8.7×10^{13}	9.7×10^{17}	no	0.04	$(3.2 \pm 0.6) \times 10^{-5}$	$(3.3 \pm 0.4) \times 10^{-5}$	$(9.0 \pm 3.3) \times 10^{-5}$	[20 - 70°N, -45 - 100°E]
179	Kasatochi	18.08.2008	6.7×10^{13}	3.1×10^{17}	no	0.08	$(1.1 \pm 0.4) \times 10^{-4}$	$(1.8 \pm 0.2) \times 10^{-4}$	$(2.2 \pm 0.9) \times 10^{-4}$	[35 - 70°N, 144 - 185°E]
180	Kasatochi	19.08.2008	4.7×10^{13}	1.4×10^{17}	no	0.03	$(-5.5 \pm 1.8) \times 10^{-4}$	$(1.4 \pm 4.6) \times 10^{-5}$	$(3.2 \pm 1.9) \times 10^{-4}$	[25 - 60°N, 65 - 105°E]
181	Kasatochi	19.08.2008	5.5×10^{13}	7.5×10^{17}	no	0.04	$(2.6 \pm 1.1) \times 10^{-5}$	$(1.3 \pm 0.8) \times 10^{-5}$	$(7.4 \pm 3.2) \times 10^{-5}$	[25 - 70°N, 10 - 77°W]
182	Kasatochi	19.08.2008	8.2×10^{13}	2.5×10^{17}	no	0.06	$(2.2 \pm 0.6) \times 10^{-4}$	$(1.5 \pm 0.3) \times 10^{-4}$	$(3.3 \pm 1.2) \times 10^{-4}$	[35 - 70°N, 158 - 190°E]
183	Kasatochi	20.08.2008	6.7×10^{13}	7.6×10^{17}	no	0.01	$(-3.9 \pm 2.4) \times 10^{-5}$	$(0.2 \pm 1.3) \times 10^{-5}$	$(8.7 \pm 4.3) \times 10^{-5}$	[25 - 70°N, 55 - 125°W]
184	Kasatochi	20.08.2008	7.6×10^{13}	8.3×10^{17}	no	0.00	$(4.4 \pm 9.1) \times 10^{-6}$	$(2.5 \pm 0.6) \times 10^{-5}$	$(9.2 \pm 5.1) \times 10^{-5}$	[35 - 70°N, -15 - 80°E]
185	Kasatochi	20.08.2008	6.0×10^{13}	6.7×10^{17}	no	0.03	$(3.4 \pm 1.6) \times 10^{-5}$	$(0.7 \pm 1.2) \times 10^{-5}$	$(9.0 \pm 4.7) \times 10^{-5}$	[15 - 70°N, 0 - 60°W]
186	Kasatochi	20.08.2008	5.0×10^{13}	2.8×10^{17}	no	0.28	$(1.9 \pm 0.6) \times 10^{-4}$	$(1.5 \pm 0.3) \times 10^{-4}$	$(1.8 \pm 0.9) \times 10^{-4}$	[35 - 70°N, 160 - 180°W]
187	Kasatochi	23.08.2008	7.3×10^{13}	4.5×10^{17}	no	0.00	$(-1.3 \pm 2.3) \times 10^{-5}$	$(6.7 \pm 1.4) \times 10^{-5}$	$(1.6 \pm 0.6) \times 10^{-4}$	[35 - 70°N, 95 - 140°E]
188	Kasatochi	23.08.2008	7.9×10^{13}	4.2×10^{17}	no	0.00	$(-1.0 \pm 2.2) \times 10^{-5}$	$(2.8 \pm 1.1) \times 10^{-5}$	$(1.9 \pm 0.7) \times 10^{-4}$	[30 - 70°N, 10 - 75°E]
189	Kasatochi	23.08.2008	4.2×10^{13}	1.9×10^{17}	no	0.00	$(-0.4 \pm 1.1) \times 10^{-4}$	$(4.7 \pm 3.7) \times 10^{-5}$	$(2.1 \pm 1.8) \times 10^{-4}$	[35 - 70°N, 30 - 65°W]
190	Kasatochi	23.08.2008	8.9×10^{13}	2.6×10^{17}	no	0.01	$(1.0 \pm 0.3) \times 10^{-4}$	$(5.1 \pm 1.7) \times 10^{-5}$	$(3.4 \pm 1.3) \times 10^{-4}$	[15 - 70°N, 60 - 115°W]
191	Kasatochi	24.08.2008	6.7×10^{13}	2.7×10^{17}	no	0.00	$(-0.5 \pm 3.0) \times 10^{-5}$	$(6.1 \pm 1.4) \times 10^{-5}$	$(2.5 \pm 1.1) \times 10^{-4}$	[15 - 70°N, 55 - 150°W]
192	Kasatochi	24.08.2008	5.7×10^{13}	3.5×10^{17}	no	0.01	$(-4.7 \pm 3.3) \times 10^{-5}$	$(-3.0 \pm 1.9) \times 10^{-5}$	$(1.6 \pm 0.8) \times 10^{-4}$	[35 - 70°N, 95 - 140°E]
193	Kasatochi	24.08.2008	4.8×10^{13}	3.2×10^{17}	no	0.00	$(-0.8 \pm 4.3) \times 10^{-5}$	$(3.4 \pm 1.9) \times 10^{-5}$	$(1.5 \pm 0.9) \times 10^{-4}$	[35 - 70°N, 25 - 80°E]
194	Kasatochi	24.08.2008	3.4×10^{13}	1.6×10^{17}	no	0.00	$(-0.3 \pm 1.7) \times 10^{-4}$	$(-1.2 \pm 5.5) \times 10^{-5}$	$(2.0 \pm 1.9) \times 10^{-4}$	[30 - 65°N, 20 - 55°W]
195	Kasatochi	24./25.08.2008	4.0×10^{13}	2.1×10^{17}	no	0.01	$(-2.4 \pm 1.5) \times 10^{-4}$	$(-1.1 \pm 3.3) \times 10^{-5}$	$(1.9 \pm 1.4) \times 10^{-4}$	[45 - 70°N, 170 - 210°W]
196	Kasatochi	25.08.2008	6.5×10^{13}	1.8×10^{17}	no	0.02	$(4.3 \pm 1.2) \times 10^{-4}$	$(4.7 \pm 3.7) \times 10^{-5}$	$(3.6 \pm 1.7) \times 10^{-4}$	[15 - 55°N, 80 - 125°W]
197	Kasatochi	26.08.2008	3.0×10^{13}	1.4×10^{17}	no	0.00	$(-7.0 \pm 5.3) \times 10^{-4}$	$(-4.2 \pm 6.8) \times 10^{-5}$	$(2.1 \pm 2.0) \times 10^{-4}$	[50 - 70°N, 115 - 150°E]
198	Kilauea	25.08.2008	4.4×10^{13}	2.6×10^{17}	no	0.00	$(-2.5 \pm 7.6) \times 10^{-5}$	$(4.8 \pm 5.5) \times 10^{-5}$	$(1.7 \pm 1.1) \times 10^{-4}$	[0 - 35°N, 140 - 175°W]
199	Kasatochi	25.08.2008	5.2×10^{13}	2.2×10^{17}	no	0.03	$(1.5 \pm 0.6) \times 10^{-4}$	$(1.0 \pm 0.2) \times 10^{-4}$	$(2.4 \pm 1.3) \times 10^{-4}$	[40 - 70°N, 40 - 140°W]
200	Kasatochi	25.08.2008	5.9×10^{13}	1.4×10^{17}	no	0.02	$(3.2 \pm 0.8) \times 10^{-3}$	$(3.5 \pm 3.9) \times 10^{-5}$	$(4.3 \pm 2.4) \times 10^{-4}$	[35 - 70°N, 100 - 145°E]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max}

† combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR

* corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ max	coordinates
201	Kasatochi	25.08.2008	4.5×10 ¹³	2.7×10 ¹⁷	no	0.05	(-6.4 ± 4.8)×10 ⁻⁵	(3.7 ± 2.2)×10 ⁻⁵	(1.7 ± 1.0)×10 ⁻⁴	[50 - 70°N, 15 - 70°E]
202	Kasatochi	26.08.2008	2.9×10 ¹³	3.0×10 ¹⁷	no	0.00	(0.2 ± 5.9)×10 ⁻⁵	(-3.9 ± 2.5)×10 ⁻⁵	(9.9 ± 9.6)×10 ⁻⁵	[50 - 70°N, 35 - 70°E]
203	Kasatochi	26.08.2008	5.4×10 ¹³	2.5×10 ¹⁷	no	0.01	(5.9 ± 5.5)×10 ⁻⁵	(5.6 ± 1.9)×10 ⁻⁵	(2.2 ± 1.1)×10 ⁻⁴	[40 - 70°N, 25 - 80°W]
204	Kasatochi	26.08.2008	3.6×10 ¹³	1.8×10 ¹⁷	no	0.02	(-1.1 ± 1.7)×10 ⁻⁴	(-2.1 ± 5.2)×10 ⁻⁵	(1.9 ± 1.8)×10 ⁻⁴	[15 - 55°N, 90 - 125°W]
205	Kilauea	26.08.2008	4.4×10 ¹³	4.2×10 ¹⁷	no	0.01	(1.4 ± 4.7)×10 ⁻⁵	(0.3 ± 4.0)×10 ⁻⁵	(1.1 ± 0.6)×10 ⁻⁴	[0 - 35°N, 141 - 175°W]
206	Kasatochi	26.08.2008	4.9×10 ¹³	2.3×10 ¹⁷	no	0.00	(-0.0 ± 1.0)×10 ⁻⁴	(3.2 ± 4.3)×10 ⁻⁵	(2.1 ± 1.4)×10 ⁻⁴	[25 - 60°N, 160 - 200°W]
207	Kasatochi	26./27.08.2008	2.9×10 ¹³	1.2×10 ¹⁷	no	0.01	(-0.9 ± 3.6)×10 ⁻⁴	(5.2 ± 7.6)×10 ⁻⁵	(2.3 ± 2.1)×10 ⁻⁴	[35 - 70°N, 135 - 170°E]
208	Kasatochi	27.08.2008	8.1×10 ¹³	2.4×10 ¹⁷	no	0.00	(-9.6 ± 8.3)×10 ⁻⁵	(6.9 ± 3.0)×10 ⁻⁵	(3.3 ± 1.3)×10 ⁻⁴	[30 - 70°N, 125 - 185°W]
209	Kasatochi	27.08.2008	3.8×10 ¹³	1.1×10 ¹⁷	no	0.03	(-1.8 ± 1.3)×10 ⁻³	(-4.3 ± 7.4)×10 ⁻⁵	(3.4 ± 2.5)×10 ⁻⁴	[45 - 70°N, 15 - 55°W]
210	Kasatochi	27.08.2008	4.0×10 ¹³	2.4×10 ¹⁷	no	0.02	(0.5 ± 1.6)×10 ⁻⁴	(1.3 ± 0.7)×10 ⁻⁴	(1.7 ± 1.3)×10 ⁻⁴	[40 - 70°N, 40 - 75°W]
211	Kasatochi	27.08.2008	3.3×10 ¹³	1.5×10 ¹⁷	no	0.00	(-0.1 ± 1.8)×10 ⁻⁴	(-1.2 ± 4.8)×10 ⁻⁵	(2.2 ± 1.8)×10 ⁻⁴	[15 - 55°N, 90 - 125°W]
212	Kilauea	27.08.2008	3.9×10 ¹³	1.9×10 ¹⁷	no	0.00	(-0.0 ± 1.1)×10 ⁻⁴	(6.4 ± 5.5)×10 ⁻⁵	(2.0 ± 1.4)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
213	Kasatochi	27.08.2008	5.1×10 ¹³	3.7×10 ¹⁷	no	0.18	(8.6 ± 6.3)×10 ⁻⁵	(9.5 ± 3.3)×10 ⁻⁵	(1.4 ± 0.8)×10 ⁻⁴	[50 - 70°N, 45 - 70°E]
214	Kasatochi	28.08.2008	5.0×10 ¹³	1.6×10 ¹⁷	no	0.00	(-5.3 ± 2.6)×10 ⁻⁴	(4.5 ± 6.2)×10 ⁻⁵	(3.2 ± 2.5)×10 ⁻⁴	[40 - 70°N, 95 - 130°W]
215	Kasatochi	28.08.2008	6.4×10 ¹³	1.3×10 ¹⁷	no	0.00	(2.6 ± 2.8)×10 ⁻⁴	(1.2 ± 0.5)×10 ⁻⁴	(4.8 ± 2.4)×10 ⁻⁴	[40 - 70°N, 115 - 150°W]
216	Kilauea	28.08.2008	3.9×10 ¹³	3.7×10 ¹⁷	yes	0.31	(9.5 ± 6.9)×10 ⁻⁵	(5.6 ± 4.8)×10 ⁻⁵	(1.1 ± 0.6)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
217	Kasatochi	28.08.2008	6.9×10 ¹³	1.8×10 ¹⁷	no	0.05	(7.2 ± 1.8)×10 ⁻⁴	(1.9 ± 4.8)×10 ⁻⁵	(3.8 ± 1.7)×10 ⁻⁴	[25 - 60°N, 155 - 190°E]
218	Kasatochi	29.08.2008	4.4×10 ¹³	1.8×10 ¹⁷	no	0.01	(0.8 ± 1.4)×10 ⁻⁴	(5.6 ± 3.6)×10 ⁻⁵	(2.4 ± 1.7)×10 ⁻⁴	[45 - 70°N, 100 - 135°E]
219	Kasatochi	30.08.2008	3.9×10 ¹³	1.7×10 ¹⁷	no	0.06	(2.0 ± 2.0)×10 ⁻⁴	(6.4 ± 4.5)×10 ⁻⁵	(2.3 ± 1.7)×10 ⁻⁴	[45 - 70°N, 115 - 155°E]
220	Kilauea	30.08.2008	4.1×10 ¹³	2.6×10 ¹⁷	no	0.04	(6.8 ± 6.2)×10 ⁻⁵	(5.3 ± 3.5)×10 ⁻⁵	(1.6 ± 1.0)×10 ⁻⁴	[0 - 35°N, 145 - 180°W]
221	Kasatochi	30./31.08.2008	4.1×10 ¹³	2.5×10 ¹⁷	no	0.03	(-9.9 ± 9.0)×10 ⁻⁵	(-1.0 ± 3.2)×10 ⁻⁵	(1.6 ± 1.1)×10 ⁻⁴	[50 - 70°N, 120 - 160°E]
222	Kilauea	31.08.2008	5.9×10 ¹³	3.1×10 ¹⁷	no	0.03	(7.1 ± 6.1)×10 ⁻⁵	(5.2 ± 3.7)×10 ⁻⁵	(1.9 ± 0.9)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
223	Kasatochi	31.08./01.09.2008	4.7×10 ¹³	2.6×10 ¹⁷	no	0.00	(-5.4 ± 9.9)×10 ⁻⁵	(6.0 ± 3.9)×10 ⁻⁵	(1.8 ± 1.3)×10 ⁻⁴	[35 - 70°N, 170 - 210°W]
224	Kasatochi	01.09.2008	6.4×10 ¹³	1.7×10 ¹⁷	no	0.03	(3.9 ± 1.7)×10 ⁻⁴	(7.3 ± 4.3)×10 ⁻⁵	(3.6 ± 2.1)×10 ⁻⁴	[30 - 70°N, 145 - 190°W]
225	Kasatochi	02.09.2008	3.3×10 ¹³	1.3×10 ¹⁷	no	0.00	(-0.0 ± 1.6)×10 ⁻³	(0.2 ± 4.4)×10 ⁻⁴	(0.2 ± 1.5)×10 ⁻³	[40 - 70°N, 156 - 195°W]
226	Kasatochi	03.09.2008	4.3×10 ¹³	1.8×10 ¹⁷	no	0.01	(-0.4 ± 1.3)×10 ⁻⁴	(9.5 ± 5.5)×10 ⁻⁵	(2.3 ± 1.8)×10 ⁻⁴	[30 - 65°N, 155 - 195°W]
227	Kilauea	04.09.2008	6.2×10 ¹³	2.4×10 ¹⁷	no	0.04	(1.2 ± 0.8)×10 ⁻⁴	(7.3 ± 4.0)×10 ⁻⁵	(2.6 ± 1.3)×10 ⁻⁴	[0 - 35°N, 144 - 180°W]
228	Kasatochi	05.09.2008	5.8×10 ¹³	1.6×10 ¹⁷	no	0.06	(-4.5 ± 2.4)×10 ⁻⁴	(2.6 ± 7.3)×10 ⁻⁵	(3.6 ± 2.0)×10 ⁻⁴	[45 - 70°N, 120 - 155°W]
229	Kilauea	05.09.2008	5.6×10 ¹³	3.2×10 ¹⁷	yes	0.20	(9.9 ± 7.3)×10 ⁻⁵	(1.2 ± 0.5)×10 ⁻⁴	(1.8 ± 1.0)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
230	Kilauea	06.09.2008	3.9×10 ¹³	1.8×10 ¹⁷	no	0.02	(-0.5 ± 1.3)×10 ⁻⁴	(1.4 ± 0.6)×10 ⁻⁴	(2.2 ± 1.5)×10 ⁻⁴	[0 - 35°N, 140 - 173°W]
231	Kilauea	09.09.2008	5.2×10 ¹³	3.1×10 ¹⁷	no	0.03	(7.7 ± 7.7)×10 ⁻⁵	(0.2 ± 5.1)×10 ⁻⁵	(1.7 ± 0.9)×10 ⁻⁴	[0 - 35°N, 143 - 175°W]
232	Kilauea	10.09.2008	5.2×10 ¹³	3.1×10 ¹⁷	no	0.02	(0.4 ± 1.5)×10 ⁻⁴	(1.1 ± 1.1)×10 ⁻⁴	(1.6 ± 1.7)×10 ⁻⁴	[0 - 35°N, 142 - 175°W]
233	Kilauea	11.09.2008	1.9×10 ¹³	1.9×10 ¹⁷	no	0.03	(0.4 ± 1.3)×10 ⁻⁴	(-0.7 ± 5.7)×10 ⁻⁵	(1.0 ± 1.4)×10 ⁻⁴	[0 - 35°N, 140 - 172°W]
234	Kilauea	14.09.2008	4.3×10 ¹³	4.9×10 ¹⁷	no	0.00	(-1.5 ± 4.2)×10 ⁻⁵	(4.5 ± 4.4)×10 ⁻⁵	(8.8 ± 6.5)×10 ⁻⁵	[0 - 35°N, 142 - 175°W]
235	Kilauea	15.09.2008	5.5×10 ¹³	2.8×10 ¹⁷	no	0.00	(0.3 ± 6.3)×10 ⁻⁵	(5.0 ± 4.2)×10 ⁻⁵	(1.9 ± 1.0)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
236	Kilauea	18.09.2008	4.2×10 ¹³	1.4×10 ¹⁷	no	0.04	(1.9 ± 1.4)×10 ⁻⁴	(5.0 ± 4.2)×10 ⁻⁵	(2.9 ± 2.2)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
237	Kilauea	19.09.2008	3.6×10 ¹³	4.5×10 ¹⁷	no	0.05	(-5.9 ± 5.7)×10 ⁻⁵	(9.1 ± 4.5)×10 ⁻⁵	(8.1 ± 5.9)×10 ⁻⁵	[0 - 35°N, 142 - 180°W]
238	Kilauea	23.09.2008	5.3×10 ¹³	1.4×10 ¹⁷	no	0.00	(-0.0 ± 1.4)×10 ⁻⁴	(3.5 ± 6.2)×10 ⁻⁵	(3.6 ± 1.8)×10 ⁻⁴	[0 - 35°N, 146 - 180°W]
239	Kilauea	29.09.2008	6.0×10 ¹³	2.9×10 ¹⁷	no	0.00	(0.4 ± 9.1)×10 ⁻⁵	(1.8 ± 5.8)×10 ⁻⁵	(2.1 ± 1.0)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
240	Kilauea	30.09.2008	5.4×10 ¹³	2.0×10 ¹⁷	no	0.04	(1.1 ± 1.1)×10 ⁻⁴	(-2.8 ± 5.2)×10 ⁻⁵	(2.6 ± 1.4)×10 ⁻⁴	[0 - 35°N, 140 - 174°W]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max}

† combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR

* corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ _{max}	coordinates
241	Kilauea	03.10.2008	4.4×10 ¹³	2.1×10 ¹⁷	no	0.03	(0.8 ± 1.0)×10 ⁻⁴	(3.2 ± 5.4)×10 ⁻⁵	(2.0 ± 1.4)×10 ⁻⁴	[0 - 35°N, 144 - 175°W]
242	Kilauea	08.10.2008	4.5×10 ¹³	1.8×10 ¹⁷	no	0.00	(-4.9 ± 8.9)×10 ⁻⁵	(5.1 ± 4.5)×10 ⁻⁵	(2.4 ± 1.1)×10 ⁻⁴	[−15 - 20°N, 95 - 132°E]
243	Kilauea	08.10.2008	4.5×10 ¹³	2.1×10 ¹⁷	no	0.06	(1.8 ± 1.3)×10 ⁻⁴	(-3.0 ± 5.5)×10 ⁻⁵	(2.1 ± 1.4)×10 ⁻⁴	[0 - 35°N, 143 - 175°W]
244	Kilauea	10.10.2008	2.0×10 ¹³	2.0×10 ¹⁷	no	0.00	(0.0 ± 1.3)×10 ⁻⁴	(-1.7 ± 6.6)×10 ⁻⁵	(1.0 ± 1.2)×10 ⁻⁴	[0 - 35°N, 140 - 172°W]
245	Kilauea	13.10.2008	5.7×10 ¹³	3.2×10 ¹⁷	no	0.01	(-3.6 ± 8.8)×10 ⁻⁵	(3.6 ± 5.6)×10 ⁻⁵	(1.8 ± 1.0)×10 ⁻⁴	[0 - 35°N, 142 - 175°W]
246	Kilauea	27.10.2008	5.4×10 ¹³	4.2×10 ¹⁷	no	0.00	(2.1 ± 6.0)×10 ⁻⁵	(6.6 ± 5.6)×10 ⁻⁵	(1.3 ± 0.7)×10 ⁻⁴	[0 - 35°N, 145 - 175°W]
247	Nevado del Huila	28.10.2008	4.7×10 ¹³	2.9×10 ¹⁷	no	0.05	(9.0 ± 7.0)×10 ⁻⁵	(-3.6 ± 4.9)×10 ⁻⁵	(1.6 ± 1.0)×10 ⁻⁴	[−15 - 20°N, 66 - 95°W]
248	Nevado del Huila	29.10.2008	3.3×10 ¹³	3.2×10 ¹⁷	no	0.00	(-1.4 ± 6.2)×10 ⁻⁵	(-7.1 ± 4.0)×10 ⁻⁵	(1.0 ± 0.6)×10 ⁻⁴	[−15 - 20°N, 62 - 100°W]
249 [†]	Dalaffilla	04.11.2008	1.7×10 ¹⁴	4.3×10 ¹⁸	no	0.01	(1.1 ± 0.3)×10 ⁻⁵	(4.0 ± 0.3)×10 ⁻⁵	(3.9 ± 0.8)×10 ⁻⁵	[0 - 40°N, 30 - 70°E]
250 [†]	Dalaffilla	05.11.2008	1.2×10 ¹⁴	1.6×10 ¹⁸	no	0.05	(3.1 ± 0.7)×10 ⁻⁵	(5.9 ± 0.5)×10 ⁻⁵	(7.5 ± 3.0)×10 ⁻⁵	[−5 - 50°N, 25 - 100°E]
251 [†]	Dalaffilla	06.11.2008	9.1×10 ¹³	1.4×10 ¹⁸	no	0.06	(3.1 ± 0.8)×10 ⁻⁵	(5.5 ± 0.6)×10 ⁻⁵	(6.3 ± 3.7)×10 ⁻⁵	[5 - 50°N, 46 - 110°E]
252	Dalaffilla	06.11.2008	6.4×10 ¹³	1.3×10 ¹⁷	no	0.02	(10.0 ± 3.2)×10 ⁻⁴	(1.4 ± 5.9)×10 ⁻⁵	(4.9 ± 2.7)×10 ⁻⁴	[0 - 35°N, 25 - 60°E]
253	Dalaffilla	07.11.2008	5.5×10 ¹³	7.8×10 ¹⁷	no	0.05	(2.8 ± 1.0)×10 ⁻⁵	(4.2 ± 0.9)×10 ⁻⁵	(7.0 ± 4.5)×10 ⁻⁵	[5 - 45°N, 60 - 115°E]
254	Dalaffilla	07.11.2008	6.1×10 ¹³	2.5×10 ¹⁷	no	0.05	(-1.3 ± 0.8)×10 ⁻⁴	(3.2 ± 3.7)×10 ⁻⁵	(2.4 ± 1.1)×10 ⁻⁴	[10 - 50°N, 140 - 175°E]
255	Dalaffilla	08.11.2008	7.2×10 ¹³	3.0×10 ¹⁷	no	0.01	(4.2 ± 3.7)×10 ⁻⁵	(0.9 ± 2.0)×10 ⁻⁵	(2.4 ± 1.2)×10 ⁻⁴	[−5 - 40°N, 60 - 120°E]
256	Dalaffilla	08.11.2008	5.7×10 ¹³	2.4×10 ¹⁷	no	0.01	(8.1 ± 7.9)×10 ⁻⁵	(4.1 ± 3.1)×10 ⁻⁵	(2.4 ± 1.5)×10 ⁻⁴	[0 - 50°N, 140 - 177°E]
257	Dalaffilla	09.11.2008	5.1×10 ¹³	1.6×10 ¹⁷	no	0.01	(9.5 ± 9.7)×10 ⁻⁵	(0.9 ± 3.4)×10 ⁻⁵	(3.2 ± 2.2)×10 ⁻⁴	[−5 - 35°N, 150 - 190°E]
258	Dalaffilla	10.11.2008	5.0×10 ¹³	1.8×10 ¹⁷	no	0.02	(2.0 ± 1.0)×10 ⁻⁴	(-2.8 ± 3.1)×10 ⁻⁵	(2.8 ± 1.5)×10 ⁻⁴	[−5 - 35°N, 50 - 100°E]
259	Dalaffilla	10.11.2008	7.2×10 ¹³	1.7×10 ¹⁷	no	0.00	(6.2 ± 8.3)×10 ⁻⁵	(3.4 ± 3.2)×10 ⁻⁵	(4.3 ± 1.8)×10 ⁻⁴	[−5 - 30°N, 147 - 186°E]
260	Galeras	11.11.2008	6.6×10 ¹³	2.3×10 ¹⁷	no	0.05	(1.8 ± 0.6)×10 ⁻⁴	(1.8 ± 0.3)×10 ⁻⁴	(2.9 ± 1.3)×10 ⁻⁴	[−20 - 20°N, 65 - 100°W]
261	Nevado del Huila	13.11.2008	4.3×10 ¹³	2.4×10 ¹⁷	no	0.21	(-1.9 ± 1.3)×10 ⁻⁴	(-2.7 ± 7.3)×10 ⁻⁵	(1.8 ± 1.0)×10 ⁻⁴	[−15 - 20°N, 60 - 95°W]
262	Ambrym	15.11.2008	3.3×10 ¹³	2.3×10 ¹⁷	no	0.01	(0.6 ± 1.5)×10 ⁻⁴	(8.6 ± 9.1)×10 ⁻⁵	(1.5 ± 1.2)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
263	Kilauea	16.11.2008	6.7×10 ¹³	2.2×10 ¹⁷	no	0.00	(-0.4 ± 1.4)×10 ⁻⁴	(0.0 ± 7.9)×10 ⁻⁵	(3.0 ± 1.6)×10 ⁻⁴	[0 - 35°N, 141 - 175°W]
264	Nevado del Huila	22.11.2008	4.3×10 ¹³	2.8×10 ¹⁷	no	0.00	(2.4 ± 7.7)×10 ⁻⁵	(2.1 ± 4.8)×10 ⁻⁵	(1.5 ± 0.9)×10 ⁻⁴	[−15 - 20°N, 63 - 95°W]
265	Kilauea	02.12.2008	1.5×10 ¹³	2.5×10 ¹⁷	no	0.31	(-1.6 ± 1.7)×10 ⁻⁴	(-1.1 ± 0.8)×10 ⁻⁴	(0.6 ± 1.4)×10 ⁻⁴	[5 - 40°N, 140 - 172°W]
266	Ambrym	06.12.2008	2.1×10 ¹³	1.9×10 ¹⁷	no	0.25	(1.4 ± 1.5)×10 ⁻⁴	(0.5 ± 1.0)×10 ⁻⁴	(1.1 ± 1.4)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
267	Ambrym	14.12.2008	5.5×10 ¹³	2.2×10 ¹⁷	no	0.00	(0.5 ± 1.3)×10 ⁻⁴	(1.5 ± 0.8)×10 ⁻⁴	(2.4 ± 1.3)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
268	Tungurahua	25.12.2008	2.3×10 ¹³	2.7×10 ¹⁷	no	0.04	(-0.2 ± 1.1)×10 ⁻⁴	(1.6 ± 7.5)×10 ⁻⁵	(0.9 ± 1.0)×10 ⁻⁴	[−20 - 15°N, 68 - 95°W]
269	Tungurahua	26.12.2008	3.9×10 ¹³	1.7×10 ¹⁷	no	0.01	(0.6 ± 1.5)×10 ⁻⁴	(-0.1 ± 6.3)×10 ⁻⁵	(2.2 ± 1.5)×10 ⁻⁴	[−20 - 15°N, 70 - 95°W]
270	Ambrym	29.12.2008	1.4×10 ¹³	3.0×10 ¹⁷	no	0.00	(-2.8 ± 8.5)×10 ⁻⁵	(-2.1 ± 0.7)×10 ⁻⁴	(4.5 ± 10.0)×10 ⁻⁵	[0 - 35°S, 150 - 182°E]
271	Ambrym	30.12.2008	3.2×10 ¹³	2.3×10 ¹⁷	no	0.12	(1.6 ± 1.2)×10 ⁻⁴	(-0.9 ± 8.4)×10 ⁻⁵	(1.4 ± 1.1)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
272	Tungurahua	20.01.2009	2.1×10 ¹³	1.7×10 ¹⁷	no	0.26	(-1.5 ± 1.9)×10 ⁻⁴	(4.1 ± 9.0)×10 ⁻⁵	(1.2 ± 1.4)×10 ⁻⁴	[−20 - 15°N, 66 - 95°W]
273	Ambrym	22.01.2009	4.3×10 ¹³	2.9×10 ¹⁷	no	0.01	(3.6 ± 10.0)×10 ⁻⁵	(-4.2 ± 7.5)×10 ⁻⁵	(1.5 ± 1.0)×10 ⁻⁴	[0 - 35°S, 150 - 181°E]
274	Ambrym	11.02.2009	3.7×10 ¹³	2.4×10 ¹⁷	no	0.01	(0.4 ± 1.3)×10 ⁻⁴	(3.6 ± 9.4)×10 ⁻⁵	(1.5 ± 1.2)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
275	Ambrym	06.03.2009	5.4×10 ¹³	3.7×10 ¹⁷	no	0.00	(0.9 ± 7.4)×10 ⁻⁵	(1.1 ± 0.5)×10 ⁻⁴	(1.4 ± 0.8)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
276	Ambrym	07.03.2009	4.2×10 ¹³	2.6×10 ¹⁷	no	0.09	(8.9 ± 7.9)×10 ⁻⁵	(6.6 ± 5.3)×10 ⁻⁵	(1.6 ± 1.1)×10 ⁻⁴	[−35 - 5°N, 150 - 185°E]
277	Ambrym	11.03.2009	4.2×10 ¹³	3.2×10 ¹⁷	no	0.10	(1.2 ± 0.7)×10 ⁻⁴	(7.1 ± 6.2)×10 ⁻⁵	(1.3 ± 0.8)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
278 [†]	Redoubt	23.03.2009	1.7×10 ¹⁴	4.4×10 ¹⁸	no	0.47	(5.7 ± 0.9)×10 ⁻⁵	(7.8 ± 0.6)×10 ⁻⁵	(3.8 ± 1.2)×10 ⁻⁵	[45 - 70°N, 115 - 170°W]
279	Redoubt	24.03.2009	1.1×10 ¹⁴	1.0×10 ¹⁸	no	0.50	(1.1 ± 0.1)×10 ⁻⁴	(5.4 ± 0.9)×10 ⁻⁵	(1.1 ± 0.3)×10 ⁻⁴	[45 - 70°N, 115 - 142°W]
280	Redoubt	25.03.2009	1.2×10 ¹⁴	1.0×10 ¹⁸	no	0.25	(8.8 ± 1.3)×10 ⁻⁵	(1.1 ± 0.1)×10 ⁻⁴	(1.2 ± 0.4)×10 ⁻⁴	[30 - 70°N, 100 - 140°W]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} [†] combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ _{max}	coordinates
281	Redoubt	26.03.2009	9.3×10 ¹³	7.2×10 ¹⁷	no	0.31	(1.6 ± 0.2)×10 ⁻⁴	(1.4 ± 0.1)×10 ⁻⁴	(1.3 ± 0.4)×10 ⁻⁴	[20 - 70°N, 85 - 130°W]
282 [†]	Redoubt	26.03.2009	1.9×10 ¹⁴	5.8×10 ¹⁸	yes	0.90	(3.5 ± 0.9)×10 ⁻⁵	(4.7 ± 1.1)×10 ⁻⁵	(3.4 ± 0.9)×10 ⁻⁵	[40 - 70°N, 135 - 170°W]
283	Ambrym	26.03.2009	5.2×10 ¹³	2.3×10 ¹⁷	no	0.07	(7.6 ± 9.9)×10 ⁻⁵	(1.2 ± 0.6)×10 ⁻⁴	(2.2 ± 1.2)×10 ⁻⁴	[0 - 35°S, 150 - 182°E]
284	Redoubt	27.03.2009	7.9×10 ¹³	1.0×10 ¹⁸	no	0.01	(1.6 ± 1.5)×10 ⁻⁵	(1.1 ± 0.1)×10 ⁻⁴	(7.6 ± 2.7)×10 ⁻⁵	[20 - 70°N, 70 - 125°W]
285 [†]	Redoubt	27.03.2009	8.0×10 ¹³	3.1×10 ¹⁸	no	0.17	(3.0 ± 1.1)×10 ⁻⁵	(4.3 ± 0.8)×10 ⁻⁵	(2.6 ± 1.4)×10 ⁻⁵	[45 - 70°N, 115 - 170°W]
286	Redoubt	28.03.2009	7.8×10 ¹³	6.8×10 ¹⁷	no	0.07	(7.0 ± 2.4)×10 ⁻⁵	(1.2 ± 0.2)×10 ⁻⁴	(1.1 ± 0.6)×10 ⁻⁴	[20 - 70°N, 40 - 110°W]
287	Redoubt	28.03.2009	9.3×10 ¹³	1.1×10 ¹⁸	no	0.02	(2.5 ± 1.4)×10 ⁻⁵	(3.5 ± 1.0)×10 ⁻⁵	(8.2 ± 2.8)×10 ⁻⁵	[45 - 70°N, 100 - 165°W]
288	Redoubt	29.03.2009	1.0×10 ¹⁴	5.4×10 ¹⁷	no	0.06	(1.2 ± 0.2)×10 ⁻⁴	(4.7 ± 1.2)×10 ⁻⁵	(1.9 ± 0.6)×10 ⁻⁴	[25 - 70°N, 95 - 140°W]
289	Redoubt	29.03.2009	5.0×10 ¹³	2.4×10 ¹⁷	no	0.04	(1.4 ± 0.9)×10 ⁻⁴	(1.2 ± 0.3)×10 ⁻⁴	(2.1 ± 1.2)×10 ⁻⁴	[15 - 70°N, 25 - 70°W]
290	Redoubt	30.03.2009	9.2×10 ¹³	3.3×10 ¹⁷	no	0.00	(2.5 ± 4.1)×10 ⁻⁵	(7.4 ± 1.7)×10 ⁻⁵	(2.7 ± 1.1)×10 ⁻⁴	[20 - 70°N, 80 - 125°W]
291	Redoubt	30.03.2009	1.0×10 ¹⁴	3.9×10 ¹⁷	yes	0.56	(3.3 ± 1.5)×10 ⁻⁴	(1.4 ± 0.7)×10 ⁻⁴	(2.6 ± 0.9)×10 ⁻⁴	[45 - 70°N, 135 - 170°W]
292	Redoubt	31.03.2009	4.5×10 ¹³	1.2×10 ¹⁷	no	0.01	(4.8 ± 7.2)×10 ⁻³	(6.6 ± 10.0)×10 ⁻⁵	(3.5 ± 2.7)×10 ⁻⁴	[35 - 70°N, 80 - 115°W]
293	Redoubt	31.03.2009	1.5×10 ¹³	2.1×10 ¹⁷	no	0.08	(1.8 ± 2.9)×10 ⁻⁴	(-6.0 ± 6.8)×10 ⁻⁵	(0.7 ± 1.5)×10 ⁻⁴	[50 - 70°N, 150 - 185°W]
294	Ambrym	31.03.2009	6.7×10 ¹³	4.7×10 ¹⁷	no	0.30	(1.5 ± 0.6)×10 ⁻⁴	(8.4 ± 5.6)×10 ⁻⁵	(1.4 ± 0.6)×10 ⁻⁴	[0 - 35°S, 150 - 183°E]
295	Ambrym	01.04.2009	4.7×10 ¹³	2.2×10 ¹⁷	no	0.06	(1.3 ± 0.8)×10 ⁻⁴	(-1.9 ± 4.2)×10 ⁻⁵	(2.1 ± 1.1)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
296	Redoubt	03.04.2009	5.2×10 ¹³	2.4×10 ¹⁷	no	0.00	(-7.6 ± 3.1)×10 ⁻⁴	(3.7 ± 4.5)×10 ⁻⁵	(2.1 ± 1.5)×10 ⁻⁴	[45 - 70°N, 20 - 55°E]
297 [†]	Redoubt	04.04.2009	6.2×10 ¹³	1.8×10 ¹⁸	no	0.00	(0.1 ± 1.4)×10 ⁻⁵	(4.8 ± 1.2)×10 ⁻⁵	(3.3 ± 2.7)×10 ⁻⁵	[35 - 70°N, 125 - 170°W]
298	Redoubt	05.04.2009	6.5×10 ¹³	2.9×10 ¹⁷	no	0.00	(-0.3 ± 5.0)×10 ⁻⁵	(1.3 ± 0.2)×10 ⁻⁴	(2.3 ± 1.0)×10 ⁻⁴	[15 - 70°N, 115 - 155°W]
299	Redoubt	06.04.2009	7.1×10 ¹³	4.2×10 ¹⁷	no	0.00	(-2.9 ± 3.0)×10 ⁻⁵	(8.6 ± 1.6)×10 ⁻⁵	(1.7 ± 0.6)×10 ⁻⁴	[15 - 70°N, 85 - 170°W]
300	Rabaul	06.04.2009	6.8×10 ¹³	1.5×10 ¹⁷	no	0.38	(6.6 ± 2.8)×10 ⁻⁴	(-0.2 ± 1.2)×10 ⁻⁴	(4.6 ± 2.2)×10 ⁻⁴	[-20 - 15°N, 135 - 167°E]
301	Redoubt	07.04.2009	4.2×10 ¹³	2.3×10 ¹⁷	no	0.00	(-0.0 ± 1.5)×10 ⁻⁴	(3.4 ± 5.3)×10 ⁻⁵	(1.8 ± 1.3)×10 ⁻⁴	[45 - 70°N, 70 - 105°W]
302	Redoubt	07.04.2009	3.0×10 ¹³	1.3×10 ¹⁷	no	0.04	(4.7 ± 3.2)×10 ⁻⁴	(-1.2 ± 0.9)×10 ⁻⁴	(2.2 ± 3.0)×10 ⁻⁴	[20 - 55°N, 70 - 105°W]
303	Redoubt	07.04.2009	6.7×10 ¹³	2.1×10 ¹⁷	no	0.06	(2.9 ± 0.9)×10 ⁻⁴	(1.5 ± 0.3)×10 ⁻⁴	(3.2 ± 1.5)×10 ⁻⁴	[20 - 60°N, 105 - 145°W]
304	Redoubt	07.04.2009	7.7×10 ¹³	5.3×10 ¹⁷	no	0.15	(1.7 ± 0.6)×10 ⁻⁴	(1.6 ± 0.3)×10 ⁻⁴	(1.4 ± 0.6)×10 ⁻⁴	[45 - 70°N, 130 - 170°W]
305	Redoubt	08.04.2009	7.1×10 ¹³	2.9×10 ¹⁷	no	0.19	(2.4 ± 0.9)×10 ⁻⁴	(1.5 ± 0.3)×10 ⁻⁴	(2.4 ± 1.3)×10 ⁻⁴	[40 - 70°N, 125 - 170°W]
306	Redoubt	09.04.2009	8.5×10 ¹³	3.3×10 ¹⁷	no	0.41	(3.8 ± 0.9)×10 ⁻⁴	(1.3 ± 0.3)×10 ⁻⁴	(2.5 ± 1.0)×10 ⁻⁴	[40 - 70°N, 115 - 170°W]
307	Redoubt	10.04.2009	6.0×10 ¹³	1.6×10 ¹⁷	no	0.00	(-6.6 ± 4.2)×10 ⁻³	(-1.5 ± 6.8)×10 ⁻⁵	(3.7 ± 2.4)×10 ⁻⁴	[50 - 70°N, 125 - 160°W]
308	Redoubt	11.04.2009	8.8×10 ¹³	3.2×10 ¹⁷	no	0.23	(4.5 ± 1.3)×10 ⁻⁴	(1.8 ± 0.4)×10 ⁻⁴	(2.7 ± 1.1)×10 ⁻⁴	[45 - 70°N, 135 - 175°W]
309	Fernandina	12.04.2009	6.4×10 ¹³	5.8×10 ¹⁷	no	0.00	(0.9 ± 2.5)×10 ⁻⁵	(7.2 ± 2.0)×10 ⁻⁵	(1.1 ± 0.5)×10 ⁻⁴	[-20 - 15°N, 85 - 115°W]
310	Redoubt	12.04.2009	9.5×10 ¹³	4.7×10 ¹⁷	no	0.14	(3.0 ± 0.6)×10 ⁻⁴	(9.5 ± 2.5)×10 ⁻⁵	(2.0 ± 0.7)×10 ⁻⁴	[45 - 70°N, 135 - 185°W]
311	Fernandina	13.04.2009	6.8×10 ¹³	7.9×10 ¹⁷	no	0.01	(3.0 ± 0.6)×10 ⁻⁴	(1.3 ± 0.8)×10 ⁻⁵	(8.7 ± 4.3)×10 ⁻⁵	[-20 - 20°N, 79 - 118°W]
312	Redoubt	13.04.2009	9.2×10 ¹³	3.0×10 ¹⁷	no	0.33	(3.8 ± 1.2)×10 ⁻⁴	(2.4 ± 0.4)×10 ⁻⁴	(3.0 ± 1.1)×10 ⁻⁴	[45 - 70°N, 135 - 170°W]
313	Fernandina	14.04.2009	7.7×10 ¹³	8.8×10 ¹⁷	no	0.02	(2.0 ± 1.2)×10 ⁻⁵	(9.6 ± 8.5)×10 ⁻⁶	(8.7 ± 3.1)×10 ⁻⁵	[-20 - 20°N, 75 - 114°W]
314	Fernandina	15.04.2009	1.1×10 ¹⁴	4.1×10 ¹⁷	no	0.02	(5.4 ± 4.9)×10 ⁻⁵	(3.0 ± 2.1)×10 ⁻⁵	(2.8 ± 3.1)×10 ⁻⁴	[-20 - 15°N, 76 - 109°W]
315	Fernandina	15.04.2009	5.0×10 ¹³	4.4×10 ¹⁷	no	0.01	(-1.9 ± 3.0)×10 ⁻⁵	(1.8 ± 1.5)×10 ⁻⁵	(1.1 ± 0.7)×10 ⁻⁴	[-20 - 20°N, 95 - 130°W]
316	Fernandina	16.04.2009	5.7×10 ¹³	3.9×10 ¹⁷	no	0.00	(1.8 ± 2.1)×10 ⁻⁵	(3.1 ± 1.3)×10 ⁻⁵	(1.5 ± 0.8)×10 ⁻⁴	[-20 - 20°N, 89 - 135°W]
317	Redoubt	16.04.2009	1.4×10 ¹⁴	5.1×10 ¹⁷	yes	0.49	(2.9 ± 0.6)×10 ⁻⁴	(2.3 ± 0.3)×10 ⁻⁴	(2.7 ± 0.6)×10 ⁻⁴	[35 - 70°N, 140 - 180°W]
318	Fernandina	17.04.2009	6.3×10 ¹³	4.9×10 ¹⁷	no	0.01	(4.1 ± 2.3)×10 ⁻⁵	(1.2 ± 1.4)×10 ⁻⁵	(1.3 ± 0.5)×10 ⁻⁴	[-20 - 20°N, 83 - 120°W]
319	Fernandina	17.04.2009	4.7×10 ¹³	2.6×10 ¹⁷	no	0.01	(7.2 ± 5.1)×10 ⁻⁵	(4.9 ± 3.0)×10 ⁻⁵	(1.8 ± 1.0)×10 ⁻⁴	[-20 - 15°N, 110 - 140°W]
320	Redoubt	17.04.2009	7.7×10 ¹³	3.1×10 ¹⁷	no	0.25	(7.6 ± 1.8)×10 ⁻⁴	(1.6 ± 0.5)×10 ⁻⁴	(2.5 ± 1.1)×10 ⁻⁴	[35 - 70°N, 135 - 175°W]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} [†] combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ max	coordinates
321	Fernandina	18.04.2009	6.7×10 ¹³	3.9×10 ¹⁷	no	0.01	(3.8 ± 3.5)×10 ⁻⁵	(3.1 ± 2.1)×10 ⁻⁵	(1.7 ± 0.8)×10 ⁻⁴	[−20 - 20°N, 78 - 118°W]
322	Redoubt	18.04.2009	1.1×10 ¹⁴	4.8×10 ¹⁷	no	0.62	(2.3 ± 0.4)×10 ⁻⁴	(1.9 ± 0.2)×10 ⁻⁴	(2.5 ± 0.7)×10 ⁻⁴	[35 - 70°N, 135 - 170°W]
323	Fernandina	19.04.2009	4.7×10 ¹³	4.8×10 ¹⁷	no	0.00	(0.8 ± 3.9)×10 ⁻⁵	(3.8 ± 2.7)×10 ⁻⁵	(9.7 ± 5.3)×10 ⁻⁵	[−20 - 15°N, 75 - 113°W]
324	Redoubt	19.04.2009	6.7×10 ¹³	3.3×10 ¹⁷	no	0.33	(2.8 ± 0.9)×10 ⁻⁴	(1.6 ± 0.3)×10 ⁻⁴	(2.0 ± 0.9)×10 ⁻⁴	[50 - 70°N, 140 - 175°W]
325	Fernandina	20.04.2009	5.8×10 ¹³	3.1×10 ¹⁷	no	0.00	(0.8 ± 6.9)×10 ⁻⁵	(1.9 ± 3.2)×10 ⁻⁵	(1.9 ± 0.8)×10 ⁻⁴	[−20 - 20°N, 75 - 108°W]
326	Redoubt	20.04.2009	9.1×10 ¹³	4.2×10 ¹⁷	no	0.17	(3.1 ± 0.7)×10 ⁻⁴	(2.5 ± 0.3)×10 ⁻⁴	(2.2 ± 0.9)×10 ⁻⁴	[40 - 70°N, 135 - 170°W]
327	Redoubt	21.04.2009	6.5×10 ¹³	2.2×10 ¹⁷	yes	0.27	(6.4 ± 2.7)×10 ⁻⁴	(1.3 ± 0.7)×10 ⁻⁴	(2.9 ± 1.4)×10 ⁻⁴	[40 - 70°N, 135 - 170°W]
328	Fernandina	23.04.2009	7.4×10 ¹³	8.0×10 ¹⁷	no	0.00	(1.4 ± 1.8)×10 ⁻⁵	(1.9 ± 1.4)×10 ⁻⁵	(9.3 ± 3.6)×10 ⁻⁵	[−20 - 15°N, 78 - 117°W]
329	Redoubt	23.04.2009	3.5×10 ¹³	1.6×10 ¹⁷	no	0.08	(−1.9 ± 2.1)×10 ⁻⁴	(8.8 ± 5.6)×10 ⁻⁵	(2.2 ± 1.9)×10 ⁻⁴	[35 - 70°N, 130 - 165°W]
330	Koryaksky	24.04.2009	3.6×10 ¹³	2.4×10 ¹⁷	no	0.02	(0.4 ± 1.5)×10 ⁻⁴	(8.9 ± 7.3)×10 ⁻⁵	(1.5 ± 1.2)×10 ⁻⁴	[35 - 70°N, 140 - 175°E]
331	Fernandina	24.04.2009	5.8×10 ¹³	5.8×10 ¹⁷	no	0.03	(4.2 ± 2.4)×10 ⁻⁵	(3.1 ± 1.5)×10 ⁻⁵	(1.0 ± 0.5)×10 ⁻⁴	[−20 - 15°N, 75 - 112°W]
332	Fernandina	25.04.2009	6.1×10 ¹³	4.0×10 ¹⁷	no	0.00	(1.1 ± 4.9)×10 ⁻⁵	(6.9 ± 2.3)×10 ⁻⁵	(1.5 ± 0.6)×10 ⁻⁴	[−20 - 20°N, 75 - 107°W]
333	Redoubt	25.04.2009	6.6×10 ¹³	2.0×10 ¹⁷	no	0.30	(6.1 ± 1.8)×10 ⁻⁴	(2.8 ± 0.6)×10 ⁻⁴	(3.3 ± 1.5)×10 ⁻⁴	[45 - 70°N, 125 - 160°W]
334	Fernandina	26.04.2009	4.8×10 ¹³	2.0×10 ¹⁷	no	0.01	(1.2 ± 0.7)×10 ⁻⁴	(5.0 ± 2.8)×10 ⁻⁵	(2.4 ± 1.4)×10 ⁻⁴	[−20 - 20°N, 87 - 120°W]
335	Fernandina	27.04.2009	7.1×10 ¹³	3.8×10 ¹⁷	no	0.00	(3.9 ± 3.7)×10 ⁻⁵	(7.2 ± 2.2)×10 ⁻⁵	(1.8 ± 0.8)×10 ⁻⁴	[−20 - 20°N, 75 - 120°W]
336	Redoubt	27.04.2009	4.6×10 ¹³	1.5×10 ¹⁷	no	0.12	(2.0 ± 3.3)×10 ⁻⁴	(2.8 ± 1.4)×10 ⁻⁴	(3.1 ± 2.3)×10 ⁻⁴	[45 - 70°N, 135 - 170°W]
337	Fernandina	28.04.2009	5.8×10 ¹³	3.2×10 ¹⁷	no	0.02	(4.8 ± 5.0)×10 ⁻⁵	(4.1 ± 2.9)×10 ⁻⁵	(1.8 ± 0.9)×10 ⁻⁴	[−20 - 15°N, 78 - 115°W]
338	Redoubt	28.04.2009	7.3×10 ¹³	1.8×10 ¹⁷	no	0.11	(4.8 ± 2.4)×10 ⁻⁴	(1.2 ± 0.9)×10 ⁻⁴	(4.0 ± 1.9)×10 ⁻⁴	[45 - 70°N, 135 - 170°W]
339	Fernandina	29.04.2009	5.2×10 ¹³	1.9×10 ¹⁷	no	0.00	(0.3 ± 1.1)×10 ⁻⁴	(4.3 ± 3.6)×10 ⁻⁵	(2.6 ± 1.3)×10 ⁻⁴	[−20 - 15°N, 75 - 111°W]
340	Redoubt	29.04.2009	4.4×10 ¹³	2.6×10 ¹⁷	no	0.16	(2.6 ± 1.6)×10 ⁻⁴	(2.3 ± 7.8)×10 ⁻⁵	(1.7 ± 1.2)×10 ⁻⁴	[50 - 70°N, 125 - 160°W]
341	Kilauea	30.04.2009	2.5×10 ¹³	2.9×10 ¹⁷	no	0.02	(−0.5 ± 1.0)×10 ⁻⁴	(−7.4 ± 7.1)×10 ⁻⁵	(8.8 ± 9.7)×10 ⁻⁵	[0 - 35°N, 140 - 175°W]
342	Redoubt	04.05.2009	7.4×10 ¹³	2.5×10 ¹⁷	no	0.02	(2.2 ± 1.3)×10 ⁻⁴	(1.1 ± 0.4)×10 ⁻⁴	(2.9 ± 1.4)×10 ⁻⁴	[40 - 70°N, 140 - 175°W]
343	Kilauea	04.05.2009	3.5×10 ¹³	3.2×10 ¹⁷	no	0.02	(2.8 ± 8.5)×10 ⁻⁵	(0.3 ± 7.4)×10 ⁻⁵	(1.1 ± 0.9)×10 ⁻⁴	[0 - 35°N, 142 - 175°W]
344	Redoubt	05.05.2009	8.2×10 ¹³	3.0×10 ¹⁷	no	0.37	(2.7 ± 0.7)×10 ⁻⁴	(1.6 ± 0.3)×10 ⁻⁴	(2.7 ± 1.1)×10 ⁻⁴	[35 - 70°N, 140 - 175°W]
345	Redoubt	06.05.2009	9.6×10 ¹³	2.4×10 ¹⁷	no	0.09	(1.8 ± 0.6)×10 ⁻⁴	(1.8 ± 0.2)×10 ⁻⁴	(3.9 ± 1.3)×10 ⁻⁴	[30 - 70°N, 120 - 170°W]
346	Redoubt	07.05.2009	5.3×10 ¹³	2.4×10 ¹⁷	no	0.05	(9.7 ± 9.9)×10 ⁻⁵	(8.6 ± 4.2)×10 ⁻⁵	(2.2 ± 1.2)×10 ⁻⁴	[30 - 65°N, 120 - 155°W]
347	Redoubt	08.05.2009	4.7×10 ¹³	8.2×10 ¹⁷	no	0.01	(1.3 ± 3.9)×10 ⁻⁵	(7.9 ± 4.7)×10 ⁻⁵	(5.7 ± 3.8)×10 ⁻⁵	[30 - 65°N, 110 - 145°W]
348	Redoubt	08.05.2009	5.9×10 ¹³	2.6×10 ¹⁷	yes	0.03	(1.2 ± 1.5)×10 ⁻⁴	(1.4 ± 0.8)×10 ⁻⁴	(2.3 ± 1.4)×10 ⁻⁴	[40 - 70°N, 135 - 170°W]
349	Redoubt	09.05.2009	4.3×10 ¹³	1.7×10 ¹⁷	no	0.01	(0.6 ± 1.7)×10 ⁻⁴	(8.0 ± 7.5)×10 ⁻⁵	(2.5 ± 1.8)×10 ⁻⁴	[25 - 60°N, 110 - 145°W]
350	Redoubt	10.05.2009	4.6×10 ¹³	2.6×10 ¹⁷	yes	0.17	(2.5 ± 1.0)×10 ⁻⁴	(1.3 ± 0.4)×10 ⁻⁴	(1.8 ± 1.1)×10 ⁻⁴	[30 - 70°N, 130 - 165°W]
351	Redoubt	11.05.2009	5.5×10 ¹³	2.8×10 ¹⁷	no	0.27	(2.8 ± 1.0)×10 ⁻⁴	(1.3 ± 0.5)×10 ⁻⁴	(2.0 ± 1.1)×10 ⁻⁴	[30 - 70°N, 130 - 165°W]
352	Koryasky	11.05.2009	3.0×10 ¹³	1.6×10 ¹⁷	no	0.01	(0.6 ± 2.9)×10 ⁻⁴	(1.4 ± 1.2)×10 ⁻⁴	(1.8 ± 1.7)×10 ⁻⁴	[35 - 70°N, 175 - 210°W]
353	Redoubt	12.05.2009	6.8×10 ¹³	2.4×10 ¹⁷	no	0.04	(0.8 ± 1.0)×10 ⁻⁴	(7.2 ± 4.8)×10 ⁻⁵	(2.8 ± 1.3)×10 ⁻⁴	[35 - 70°N, 130 - 170°W]
354	Koryasky	13.05.2009	5.4×10 ¹³	1.7×10 ¹⁷	no	0.00	(0.4 ± 2.5)×10 ⁻⁴	(1.3 ± 0.9)×10 ⁻⁴	(3.1 ± 2.0)×10 ⁻⁴	[35 - 70°N, 140 - 175°E]
355	Redoubt	13.05.2009	3.7×10 ¹³	2.2×10 ¹⁷	no	0.01	(0.4 ± 2.5)×10 ⁻⁴	(1.3 ± 0.9)×10 ⁻⁴	(1.6 ± 0.0)×10 ⁻⁴	[35 - 70°N, 140 - 180°W]
356	Redoubt	14.05.2009	5.8×10 ¹³	2.7×10 ¹⁷	no	0.06	(1.1 ± 0.9)×10 ⁻⁴	(9.6 ± 4.1)×10 ⁻⁵	(2.1 ± 1.5)×10 ⁻⁴	[40 - 70°N, 135 - 170°W]
357	Redoubt	15.05.2009	7.5×10 ¹³	3.4×10 ¹⁷	yes	0.11	(1.3 ± 0.6)×10 ⁻⁴	(1.6 ± 0.3)×10 ⁻⁴	(2.2 ± 0.9)×10 ⁻⁴	[35 - 70°N, 130 - 175°W]
358	Redoubt	16.05.2009	4.0×10 ¹³	1.5×10 ¹⁷	no	0.05	(2.6 ± 1.8)×10 ⁻⁴	(7.2 ± 5.0)×10 ⁻⁵	(2.6 ± 1.9)×10 ⁻⁴	[25 - 65°N, 145 - 180°W]
359	Redoubt	19.05.2009	5.0×10 ¹³	3.2×10 ¹⁷	no	0.10	(1.5 ± 1.4)×10 ⁻⁴	(1.6 ± 0.6)×10 ⁻⁴	(1.6 ± 1.0)×10 ⁻⁴	[45 - 70°N, 135 - 175°W]
360	Redoubt	20.05.2009	6.7×10 ¹³	1.9×10 ¹⁷	no	0.17	(3.6 ± 2.0)×10 ⁻⁴	(2.2 ± 0.9)×10 ⁻⁴	(3.5 ± 1.6)×10 ⁻⁴	[45 - 70°N, 140 - 175°W]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} [†] combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

[‡] SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO _{2,max}	coordinates
361	Redoubt	26.05.2009	5.3×10 ¹³	1.3×10 ¹⁷	no	0.31	(-1.4 ± 1.2)×10 ⁻³	(1.9 ± 1.2)×10 ⁻⁴	(4.0 ± 2.4)×10 ⁻⁴	[40 - 70°N, 135 - 170°W]
362	Redoubt	27.05.2009	4.8×10 ¹³	2.3×10 ¹⁷	no	0.17	(1.4 ± 1.2)×10 ⁻⁴	(1.3 ± 0.6)×10 ⁻⁴	(2.1 ± 1.3)×10 ⁻⁴	[45 - 70°N, 130 - 170°W]
363	Redoubt	29.05.2009	9.1×10 ¹³	3.8×10 ¹⁷	yes	0.56	(2.5 ± 0.9)×10 ⁻⁴	(1.9 ± 0.5)×10 ⁻⁴	(2.4 ± 0.9)×10 ⁻⁴	[45 - 70°N, 135 - 170°W]
364	Karymsky	03.06.2009	2.1×10 ¹³	1.5×10 ¹⁷	yes	0.13	(1.3 ± 1.8)×10 ⁻⁴	(2.2 ± 6.8)×10 ⁻⁵	(1.4 ± 2.0)×10 ⁻⁴	[30 - 65°N, 155 - 190°E]
365	Redoubt	06.06.2009	3.5×10 ¹³	1.6×10 ¹⁷	no	0.18	(2.6 ± 2.5)×10 ⁻⁴	(1.6 ± 1.1)×10 ⁻⁴	(2.2 ± 2.2)×10 ⁻⁴	[45 - 70°N, 135 - 170°W]
366	Galeras	08.06.2009	4.3×10 ¹³	1.9×10 ¹⁷	no	0.22	(-2.3 ± 1.6)×10 ⁻⁴	(4.0 ± 7.9)×10 ⁻⁵	(2.3 ± 1.3)×10 ⁻⁴	[15 - 20°N, 64 - 95°W]
367	Redoubt	10.06.2009	3.7×10 ¹³	1.7×10 ¹⁷	no	0.01	(0.3 ± 2.3)×10 ⁻⁴	(1.3 ± 0.7)×10 ⁻⁴	(2.1 ± 2.1)×10 ⁻⁴	[40 - 70°N, 130 - 165°W]
368	Redoubt	12.06.2009	5.5×10 ¹³	4.3×10 ¹⁷	no	0.00	(1.0 ± 5.1)×10 ⁻⁵	(6.3 ± 3.5)×10 ⁻⁵	(1.3 ± 0.7)×10 ⁻⁴	[25 - 70°N, 135 - 190°W]
369†	Sarychev	12./13.06.2009	1.2×10 ¹⁴	1.7×10 ¹⁸	no	0.02	(1.5 ± 1.4)×10 ⁻⁵	(8.6 ± 1.3)×10 ⁻⁵	(7.0 ± 3.1)×10 ⁻⁵	[30 - 65°N, 130 - 175°E]
370†	Sarychev	13./14.06.2009	1.0×10 ¹⁴	3.9×10 ¹⁸	no	0.01	(-3.9 ± 5.2)×10 ⁻⁶	(8.7 ± 0.7)×10 ⁻⁵	(2.7 ± 0.9)×10 ⁻⁵	[25 - 70°N, 115 - 235°W]
371	Sarychev	14.06.2009	6.7×10 ¹³	1.9×10 ¹⁷	no	0.02	(1.1 ± 2.3)×10 ⁻⁴	(1.4 ± 1.0)×10 ⁻⁴	(3.5 ± 1.8)×10 ⁻⁴	[20 - 55°N, 100 - 135°W]
372†	Sarychev	14./15.06.2009	7.0×10 ¹³	2.5×10 ¹⁹	no	0.01	(-9.0 ± 8.0)×10 ⁻⁷	(1.9 ± 0.2)×10 ⁻⁵	(2.8 ± 1.3)×10 ⁻⁶	[25 - 65°N, 135 - 235°W]
373	Sarychev	15.06.2009	5.4×10 ¹³	1.9×10 ¹⁷	no	0.11	(2.6 ± 1.5)×10 ⁻⁴	(1.9 ± 0.5)×10 ⁻⁴	(2.9 ± 1.5)×10 ⁻⁴	[25 - 60°N, 110 - 145°W]
374	Sarychev	15.06.2009	5.3×10 ¹³	9.4×10 ¹⁷	no	0.00	(0.6 ± 1.1)×10 ⁻⁵	(5.1 ± 0.9)×10 ⁻⁵	(5.7 ± 3.2)×10 ⁻⁵	[25 - 70°N, 135 - 190°W]
375†	Sarychev	15./16.06.2009	1.9×10 ¹⁴	2.3×10 ¹⁹	no	0.01	(0.6 ± 1.1)×10 ⁻⁵	(8.7 ± 0.7)×10 ⁻⁶	(8.3 ± 1.4)×10 ⁻⁶	[25 - 70°N, 120 - 180°E]
376	Sarychev	16.06.2009	6.7×10 ¹³	1.6×10 ¹⁷	no	0.04	(2.1 ± 1.8)×10 ⁻⁴	(3.3 ± 0.6)×10 ⁻⁴	(4.0 ± 1.9)×10 ⁻⁴	[10 - 45°N, 100 - 135°W]
377†	Sarychev	16./17.06.2009	1.4×10 ¹⁴	1.6×10 ¹⁹	no	0.01	(1.4 ± 0.6)×10 ⁻⁶	(1.4 ± 0.1)×10 ⁻⁵	(8.8 ± 1.8)×10 ⁻⁶	[20 - 70°N, 135 - 250°W]
378†	Sarychev	17./18.06.2009	1.6×10 ¹⁴	1.1×10 ¹⁹	no	0.01	(2.0 ± 0.7)×10 ⁻⁶	(2.2 ± 0.2)×10 ⁻⁵	(1.4 ± 0.3)×10 ⁻⁵	[20 - 70°N, 115 - 250°W]
379†	Sarychev	18./19.06.2009	9.1×10 ¹³	4.7×10 ¹⁸	no	0.01	(3.3 ± 1.4)×10 ⁻⁶	(1.1 ± 0.2)×10 ⁻⁵	(1.9 ± 0.7)×10 ⁻⁵	[25 - 70°N, 100 - 231°W]
380†	Sarychev	19.06.2009	1.4×10 ¹⁴	2.3×10 ¹⁸	no	0.02	(8.9 ± 4.5)×10 ⁻⁶	(6.5 ± 0.4)×10 ⁻⁵	(6.4 ± 2.4)×10 ⁻⁵	[45 - 70°N, 110 - 135°E]
381†	Sarychev	19.06.2009	8.6×10 ¹³	4.6×10 ¹⁸	no	0.01	(1.7 ± 1.1)×10 ⁻⁶	(5.2 ± 1.1)×10 ⁻⁶	(1.9 ± 0.7)×10 ⁻⁵	[25 - 70°N, 116 - 155°W]
382†	Sarychev	20.06.2009	8.1×10 ¹³	2.3×10 ¹⁸	no	0.00	(0.6 ± 4.4)×10 ⁻⁶	(1.0 ± 0.4)×10 ⁻⁵	(3.5 ± 1.8)×10 ⁻⁵	[35 - 70°N, 100 - 160°E]
383†	Sarychev	20./21.06.2009	8.7×10 ¹³	4.7×10 ¹⁸	no	0.00	(-2.6 ± 1.4)×10 ⁻⁶	(8.0 ± 2.3)×10 ⁻⁶	(1.9 ± 0.7)×10 ⁻⁵	[15 - 70°N, 85 - 260°W]
384†	Sarychev	21./22.06.2009	8.2×10 ¹³	3.5×10 ¹⁸	no	0.00	(-2.7 ± 1.6)×10 ⁻⁶	(-7.1 ± 2.0)×10 ⁻⁶	(2.3 ± 1.2)×10 ⁻⁵	[20 - 70°N, 65 - 230°W]
385†	Sarychev	22./23.06.2009	8.5×10 ¹³	3.2×10 ¹⁸	no	0.01	(-5.7 ± 2.1)×10 ⁻⁶	(1.6 ± 0.2)×10 ⁻⁵	(2.6 ± 1.3)×10 ⁻⁵	[20 - 70°N, 50 - 225°W]
386†	Sarychev	23.06.2009	8.7×10 ¹³	3.3×10 ¹⁸	no	0.00	(-1.4 ± 3.5)×10 ⁻⁶	(3.7 ± 0.4)×10 ⁻⁵	(2.6 ± 1.4)×10 ⁻⁵	[15 - 70°N, -180 - -30°E]
387†	Sarychev	23./24.06.2009	8.5×10 ¹³	3.3×10 ¹⁸	no	0.00	(4.0 ± 3.4)×10 ⁻⁶	(4.8 ± 0.3)×10 ⁻⁵	(2.6 ± 1.4)×10 ⁻⁵	[15 - 70°N, 30 - 235°W]
388†	Sarychev	24.06.2009	8.3×10 ¹³	2.4×10 ¹⁸	no	0.02	(2.2 ± 0.5)×10 ⁻⁵	(3.3 ± 0.4)×10 ⁻⁵	(3.3 ± 1.6)×10 ⁻⁵	[20 - 70°N, -180 - -10°E]
389†	Sarychev	24.06.2009	8.1×10 ¹³	2.5×10 ¹⁸	no	0.01	(1.5 ± 0.5)×10 ⁻⁵	(2.8 ± 0.4)×10 ⁻⁵	(3.3 ± 1.6)×10 ⁻⁵	[20 - 70°N, 10 - 180°W]
390†	Sarychev	25.06.2009	7.4×10 ¹³	2.8×10 ¹⁸	no	0.00	(0.1 ± 3.0)×10 ⁻⁶	(5.8 ± 3.3)×10 ⁻⁶	(2.7 ± 1.2)×10 ⁻⁵	[5 - 70°N, 5 - 210°W]
391	Sarychev	26.06.2009	5.5×10 ¹³	5.4×10 ¹⁷	no	0.01	(1.9 ± 1.9)×10 ⁻⁵	(2.4 ± 1.2)×10 ⁻⁵	(1.0 ± 0.7)×10 ⁻⁴	[15 - 70°N, 0 - 50°W]
392†	Sarychev	26.06.2009	5.7×10 ¹³	3.5×10 ¹⁸	no	0.01	(6.3 ± 5.2)×10 ⁻⁶	(2.5 ± 0.7)×10 ⁻⁵	(1.6 ± 1.0)×10 ⁻⁵	[45 - 70°N, 40 - 105°W]
393†	Sarychev	26.06.2009	6.7×10 ¹³	3.0×10 ¹⁸	no	0.00	(0.9 ± 3.1)×10 ⁻⁶	(0.4 ± 3.2)×10 ⁻⁶	(2.2 ± 1.1)×10 ⁻⁵	[20 - 70°N, 125 - 195°W]
394	Kilauea	26.06.2009	4.4×10 ¹³	1.7×10 ¹⁷	no	0.14	(-2.9 ± 1.9)×10 ⁻⁴	(1.1 ± 0.9)×10 ⁻⁴	(2.5 ± 1.6)×10 ⁻⁴	[0 - 35°N, 143 - 175°W]
395	Sarychev	27.06.2009	7.3×10 ¹³	2.7×10 ¹⁷	no	0.00	(2.0 ± 2.9)×10 ⁻⁵	(4.0 ± 1.4)×10 ⁻⁵	(2.7 ± 1.2)×10 ⁻⁴	[10 - 70°N, -65 - 5°E]
396	Sarychev	27.06.2009	5.1×10 ¹³	2.3×10 ¹⁷	no	0.08	(1.6 ± 1.6)×10 ⁻⁴	(5.9 ± 5.1)×10 ⁻⁵	(2.2 ± 1.6)×10 ⁻⁴	[50 - 70°N, 100 - 135°W]
397†	Sarychev	27.06.2009	5.5×10 ¹³	2.9×10 ¹⁸	no	0.02	(6.5 ± 3.2)×10 ⁻⁶	(8.8 ± 3.2)×10 ⁻⁶	(1.9 ± 1.1)×10 ⁻⁵	[20 - 70°N, 125 - 200°W]
398	Sarychev	28.06.2009	9.7×10 ¹³	2.3×10 ¹⁷	no	0.00	(-1.2 ± 5.2)×10 ⁻⁵	(3.9 ± 1.6)×10 ⁻⁵	(4.1 ± 2.7)×10 ⁻⁴	[30 - 70°N, 0 - 55°W]
399†	Sarychev	28.06.2009	6.2×10 ¹³	2.5×10 ¹⁸	no	0.02	(8.4 ± 3.8)×10 ⁻⁶	(1.9 ± 4.0)×10 ⁻⁶	(2.4 ± 1.5)×10 ⁻⁵	[20 - 70°N, 90 - 195°W]
400	Sarychev	29.06.2009	5.5×10 ¹³	2.1×10 ¹⁷	no	0.00	(-0.4 ± 7.7)×10 ⁻⁵	(-3.2 ± 2.6)×10 ⁻⁵	(2.5 ± 1.6)×10 ⁻⁴	[30 - 70°N, -45 - 5°E]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} † combined SO₂ product in case of high SO₂ SCDs $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDs $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ _{max}	coordinates
401	Sarychev	29.06.2009	2.7×10 ¹³	1.7×10 ¹⁷	no	0.09	(-3.3 ± 2.6)×10 ⁻⁴	(-4.1 ± 7.9)×10 ⁻⁵	(1.5 ± 1.8)×10 ⁻⁴	[50 - 70°N, 65 - 105°W]
402 [†]	Sarychev	29.06.2009	5.8×10 ¹³	2.3×10 ¹⁸	no	0.01	(6.7 ± 5.2)×10 ⁻⁶	(6.3 ± 4.4)×10 ⁻⁶	(2.5 ± 1.5)×10 ⁻⁵	[30 - 70°N, 130 - 190°W]
403	Sarychev	30.06.2009	5.2×10 ¹³	1.9×10 ¹⁷	no	0.02	(-9.9 ± 8.7)×10 ⁻⁵	(2.8 ± 2.7)×10 ⁻⁵	(2.6 ± 1.8)×10 ⁻⁴	[30 - 70°N, -50 - 10°E]
404	Mando Hararo	30.06.2009	6.1×10 ¹³	7.0×10 ¹⁷	no	0.05	(4.3 ± 2.1)×10 ⁻⁵	(1.4 ± 1.6)×10 ⁻⁵	(8.7 ± 3.6)×10 ⁻⁵	[-10 - 30°N, 20 - 54°E]
405	Sarychev	30.06.2009	5.1×10 ¹³	1.9×10 ¹⁷	no	0.02	(-9.5 ± 8.7)×10 ⁻⁵	(2.8 ± 2.7)×10 ⁻⁵	(2.6 ± 1.8)×10 ⁻⁴	[30 - 70°N, -50 - 10°E]
406 [†]	Sarychev	30.06.2009	5.8×10 ¹³	1.9×10 ¹⁸	no	0.00	(-4.3 ± 7.2)×10 ⁻⁶	(-3.6 ± 5.1)×10 ⁻⁶	(3.0 ± 1.9)×10 ⁻⁵	[35 - 70°N, 130 - 190°W]
407	Sarychev	01.07.2009	5.0×10 ¹³	2.0×10 ¹⁷	no	0.00	(-0.3 ± 1.5)×10 ⁻⁴	(-0.4 ± 4.4)×10 ⁻⁵	(2.5 ± 1.8)×10 ⁻⁴	[50 - 70°N, 0 - 35°E]
408	Sarychev	01.07.2009	4.4×10 ¹³	1.1×10 ¹⁷	no	0.01	(5.3 ± 3.2)×10 ⁻⁴	(4.7 ± 6.4)×10 ⁻⁵	(3.9 ± 3.3)×10 ⁻⁴	[30 - 65°N, 5 - 40°W]
409	Sarychev	01.07.2009	2.5×10 ¹³	2.6×10 ¹⁷	no	0.00	(0.1 ± 1.7)×10 ⁻⁴	(1.3 ± 6.4)×10 ⁻⁵	(1.0 ± 1.2)×10 ⁻⁴	[50 - 70°N, 25 - 60°W]
410	Sarychev	01.07.2009	4.4×10 ¹³	2.6×10 ¹⁷	no	0.10	(-1.6 ± 1.0)×10 ⁻⁴	(-7.6 ± 4.2)×10 ⁻⁵	(1.7 ± 1.3)×10 ⁻⁴	[50 - 70°N, 65 - 105°W]
411	Sarychev	01.07.2009	7.4×10 ¹³	1.7×10 ¹⁷	no	0.00	(-2.0 ± 1.9)×10 ⁻⁴	(6.5 ± 4.7)×10 ⁻⁵	(4.4 ± 2.4)×10 ⁻⁴	[40 - 70°N, 95 - 130°W]
412 [†]	Sarychev	01.07.2009	6.6×10 ¹³	2.1×10 ¹⁸	no	0.00	(-1.5 ± 7.5)×10 ⁻⁶	(-3.1 ± 0.7)×10 ⁻⁵	(3.1 ± 1.9)×10 ⁻⁵	[35 - 70°N, 125 - 195°W]
413	Sarychev	02.07.2009	3.8×10 ¹³	1.9×10 ¹⁷	no	0.00	(-0.3 ± 1.4)×10 ⁻⁴	(-7.4 ± 4.6)×10 ⁻⁵	(2.0 ± 1.9)×10 ⁻⁴	[45 - 70°N, 15 - 50°E]
414	Sarychev	02.07.2009	6.7×10 ¹³	1.4×10 ¹⁷	no	0.20	(-2.7 ± 2.1)×10 ⁻³	(-0.6 ± 1.0)×10 ⁻⁴	(4.7 ± 2.7)×10 ⁻⁴	[50 - 70°N, 75 - 110°W]
415	Sarychev	02./03.07.2009	8.2×10 ¹³	9.4×10 ¹⁷	no	0.00	(0.3 ± 1.3)×10 ⁻⁵	(-2.1 ± 0.9)×10 ⁻⁵	(8.8 ± 3.6)×10 ⁻⁵	[35 - 70°N, 130 - 205°W]
416	Sarychev	02./03.07.2009	4.2×10 ¹³	3.7×10 ¹⁷	no	0.06	(7.2 ± 7.1)×10 ⁻⁵	(4.7 ± 4.4)×10 ⁻⁵	(1.1 ± 0.8)×10 ⁻⁴	[30 - 65°N, 130 - 165°E]
417	Sarychev	02./03.07.2009	3.1×10 ¹³	1.5×10 ¹⁷	no	0.01	(-3.4 ± 1.8)×10 ⁻⁴	(-3.1 ± 4.7)×10 ⁻⁵	(2.0 ± 1.9)×10 ⁻⁴	[45 - 70°N, -60 - 10°E]
418	Sarychev	03.07.2009	3.4×10 ¹³	2.6×10 ¹⁷	no	0.06	(-1.3 ± 0.9)×10 ⁻⁴	(-5.6 ± 3.5)×10 ⁻⁵	(1.3 ± 1.2)×10 ⁻⁴	[35 - 70°N, 30 - 70°E]
419	Sarychev	03.07.2009	2.9×10 ¹³	1.4×10 ¹⁷	no	0.04	(3.9 ± 2.1)×10 ⁻⁴	(-0.5 ± 4.8)×10 ⁻⁵	(2.1 ± 2.2)×10 ⁻⁴	[45 - 70°N, 10 - 60°W]
420	Sarychev	03.07.2009	7.0×10 ¹³	2.7×10 ¹⁷	no	0.00	(-2.1 ± 8.8)×10 ⁻⁵	(-1.7 ± 3.3)×10 ⁻⁵	(2.5 ± 1.4)×10 ⁻⁴	[50 - 70°N, 55 - 100°W]
421	Sarychev	03.07.2009	6.4×10 ¹³	2.8×10 ¹⁷	no	0.01	(7.5 ± 4.8)×10 ⁻⁵	(2.5 ± 2.4)×10 ⁻⁵	(2.2 ± 1.6)×10 ⁻⁴	[30 - 70°N, 125 - 190°W]
422	Sarychev	03./04.07.2009	4.5×10 ¹³	3.8×10 ¹⁷	yes	0.15	(9.5 ± 6.5)×10 ⁻⁵	(7.5 ± 3.5)×10 ⁻⁵	(1.2 ± 0.7)×10 ⁻⁴	[30 - 70°N, 130 - 170°E]
423	Sarychev	04.07.2009	5.4×10 ¹³	2.0×10 ¹⁷	no	0.03	(-1.5 ± 1.4)×10 ⁻⁴	(0.4 ± 5.5)×10 ⁻⁵	(2.7 ± 1.5)×10 ⁻⁴	[30 - 70°N, 45 - 85°E]
424	Sarychev	04.07.2009	7.0×10 ¹³	5.8×10 ¹⁷	no	0.01	(4.3 ± 3.2)×10 ⁻⁵	(5.4 ± 2.1)×10 ⁻⁵	(1.2 ± 0.6)×10 ⁻⁴	[25 - 70°N, 120 - 185°W]
425	Sarychev	04./05.07.2009	5.8×10 ¹³	2.1×10 ¹⁷	no	0.01	(2.1 ± 7.9)×10 ⁻⁵	(1.6 ± 0.3)×10 ⁻⁴	(2.7 ± 1.5)×10 ⁻⁴	[30 - 70°N, 135 - 180°E]
426	Sarychev	05.07.2009	6.5×10 ¹³	1.6×10 ¹⁷	no	0.05	(3.0 ± 1.4)×10 ⁻⁴	(1.2 ± 0.4)×10 ⁻⁴	(4.1 ± 2.0)×10 ⁻⁴	[45 - 70°N, 25 - 65°W]
427	Sarychev	05./06.07.2009	4.5×10 ¹³	3.1×10 ¹⁷	no	0.02	(3.0 ± 1.4)×10 ⁻⁴	(-0.0 ± 3.3)×10 ⁻⁵	(1.4 ± 1.0)×10 ⁻⁴	[30 - 70°N, 170 - 220°W]
428	Sarychev	06.07.2009	4.9×10 ¹³	2.7×10 ¹⁷	no	0.07	(0.8 ± 1.1)×10 ⁻⁴	(6.6 ± 5.8)×10 ⁻⁵	(1.8 ± 1.4)×10 ⁻⁴	[50 - 70°N, 135 - 170°W]
429	Sarychev	06.07.2009	3.3×10 ¹³	3.8×10 ¹⁷	no	0.03	(3.1 ± 8.3)×10 ⁻⁵	(2.6 ± 5.6)×10 ⁻⁵	(8.8 ± 7.6)×10 ⁻⁵	[30 - 65°N, 160 - 195°W]
430	Sarychev	06./07.07.2009	4.5×10 ¹³	4.7×10 ¹⁷	yes	0.01	(2.0 ± 3.5)×10 ⁻⁵	(2.7 ± 2.4)×10 ⁻⁵	(9.5 ± 7.5)×10 ⁻⁵	[35 - 70°N, 130 - 180°E]
431	Sarychev	07.07.2009	5.3×10 ¹³	3.1×10 ¹⁷	no	0.01	(0.5 ± 1.0)×10 ⁻⁴	(2.7 ± 2.4)×10 ⁻⁵	(1.7 ± 1.1)×10 ⁻⁴	[45 - 70°N, 125 - 160°W]
432	Sarychev	07./08.07.2009	5.1×10 ¹³	5.7×10 ¹⁷	no	0.00	(1.6 ± 2.4)×10 ⁻⁵	(-3.3 ± 1.4)×10 ⁻⁵	(8.8 ± 6.4)×10 ⁻⁵	[45 - 70°N, 125 - 170°E]
433	Sarychev	08.07.2009	4.4×10 ¹³	5.7×10 ¹⁷	no	0.05	(-4.6 ± 7.5)×10 ⁻⁵	(8.2 ± 4.4)×10 ⁻⁵	(7.7 ± 6.1)×10 ⁻⁵	[40 - 70°N, 125 - 160°W]
434	Sarychev	08.07.2009	2.7×10 ¹³	3.0×10 ¹⁷	no	0.00	(0.1 ± 1.3)×10 ⁻⁴	(8.5 ± 8.5)×10 ⁻⁵	(9.1 ± 9.8)×10 ⁻⁵	[35 - 70°N, 150 - 185°W]
435	Sarychev	09.07.2009	5.6×10 ¹³	4.4×10 ¹⁷	no	0.02	(-6.8 ± 3.7)×10 ⁻⁵	(-5.2 ± 1.8)×10 ⁻⁵	(1.3 ± 0.8)×10 ⁻⁴	[40 - 70°N, 125 - 170°E]
436	Sarychev	09.07.2009	4.3×10 ¹³	2.1×10 ¹⁷	no	0.11	(1.4 ± 0.9)×10 ⁻⁴	(4.7 ± 3.9)×10 ⁻⁵	(2.1 ± 1.5)×10 ⁻⁴	[40 - 70°N, 125 - 170°W]
437	Sarychev	09.07.2009	3.3×10 ¹³	1.9×10 ¹⁷	no	0.00	(0.2 ± 1.7)×10 ⁻⁴	(0.6 ± 1.1)×10 ⁻⁴	(1.8 ± 5.4)×10 ⁻⁴	[40 - 70°N, 155 - 190°W]
438	Sarychev	09./10.07.2009	5.9×10 ¹³	3.4×10 ¹⁷	no	0.00	(0.1 ± 2.8)×10 ⁻⁵	(-0.2 ± 1.6)×10 ⁻⁵	(1.8 ± 1.2)×10 ⁻⁴	[35 - 70°N, 120 - 175°E]
439	Sarychev	10.07.2009	5.2×10 ¹³	2.3×10 ¹⁷	no	0.10	(-2.6 ± 1.0)×10 ⁻⁴	(-0.4 ± 4.1)×10 ⁻⁵	(2.3 ± 1.3)×10 ⁻⁴	[40 - 70°N, 125 - 170°W]
440	Sarychev	12.07.2009	6.0×10 ¹³	2.8×10 ¹⁷	no	0.00	(1.7 ± 7.9)×10 ⁻⁵	(0.2 ± 2.9)×10 ⁻⁵	(2.1 ± 1.3)×10 ⁻⁴	[45 - 70°N, 105 - 145°E]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} [†] combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

[‡] SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ max	coordinates
441	Sarychev	12.07.2009	1.8×10 ¹³	1.7×10 ¹⁷	yes	0.36	(3.3 ± 3.3)×10 ⁻⁴	(-0.3 ± 1.4)×10 ⁻⁴	(1.0 ± 1.8)×10 ⁻⁴	[50 - 70°N, -25 - 10°E]
442	Sarychev	12.07.2009	4.1×10 ¹³	1.5×10 ¹⁷	no	0.06	(2.3 ± 2.2)×10 ⁻⁴	(9.0 ± 7.2)×10 ⁻⁵	(2.7 ± 2.2)×10 ⁻⁴	[35 - 70°N, 125 - 160°W]
443	Sarychev	13.07.2009	5.8×10 ¹³	2.2×10 ¹⁷	no	0.00	(-0.4 ± 1.0)×10 ⁻⁴	(1.9 ± 3.2)×10 ⁻⁵	(2.6 ± 1.7)×10 ⁻⁴	[40 - 70°N, 105 - 170°E]
444	Sarychev	13.07.2009	1.3×10 ¹³	1.5×10 ¹⁷	no	0.01	(-0.4 ± 2.7)×10 ⁻⁴	(-1.1 ± 0.8)×10 ⁻⁴	(0.8 ± 1.8)×10 ⁻⁴	[35 - 70°N, 130 - 165°W]
445	Sarychev	14.07.2009	5.4×10 ¹³	2.0×10 ¹⁷	no	0.04	(1.1 ± 1.1)×10 ⁻⁴	(1.2 ± 0.5)×10 ⁻⁴	(2.7 ± 1.4)×10 ⁻⁴	[35 - 70°N, 135 - 170°E]
446	Sarychev	14.07.2009	5.6×10 ¹³	1.5×10 ¹⁷	no	0.02	(-2.8 ± 2.1)×10 ⁻⁴	(4.3 ± 5.3)×10 ⁻⁵	(3.6 ± 2.7)×10 ⁻⁴	[40 - 70°N, 105 - 150°E]
447	Sarychev	14.07.2009	5.1×10 ¹³	1.9×10 ¹⁷	no	0.00	(-0.0 ± 1.4)×10 ⁻⁴	(6.4 ± 5.7)×10 ⁻⁵	(2.7 ± 1.5)×10 ⁻⁴	[35 - 70°N, 130 - 165°W]
448	Sarychev	15.07.2009	4.6×10 ¹³	2.6×10 ¹⁷	no	0.03	(-1.4 ± 1.2)×10 ⁻⁴	(-1.1 ± 0.5)×10 ⁻⁴	(1.8 ± 1.5)×10 ⁻⁴	[35 - 70°N, 140 - 175°E]
449	Sarychev	15.07.2009	6.1×10 ¹³	1.4×10 ¹⁷	no	0.00	(-0.3 ± 2.7)×10 ⁻⁴	(0.2 ± 5.1)×10 ⁻⁵	(4.4 ± 3.0)×10 ⁻⁴	[40 - 70°N, 120 - 155°E]
450	Sarychev	15.07.2009	3.0×10 ¹³	1.2×10 ¹⁷	no	0.09	(2.8 ± 3.5)×10 ⁻⁴	(0.0 ± 1.0)×10 ⁻⁴	(2.5 ± 2.4)×10 ⁻⁴	[35 - 70°N, 130 - 165°W]
451	Sarychev	15.07.2009	2.3×10 ¹³	1.7×10 ¹⁷	no	0.00	(0.6 ± 1.8)×10 ⁻⁴	(1.2 ± 5.9)×10 ⁻⁵	(1.3 ± 1.7)×10 ⁻⁴	[35 - 70°N, 150 - 185°E]
452	Sarychev	17.07.2009	3.5×10 ¹³	1.5×10 ¹⁷	no	0.00	(-0.2 ± 1.7)×10 ⁻⁴	(0.3 ± 4.4)×10 ⁻⁵	(2.3 ± 2.1)×10 ⁻⁴	[40 - 70°N, 160 - 195°W]
453	Sarychev	21.07.2009	3.5×10 ¹³	1.4×10 ¹⁷	no	0.03	(-1.6 ± 4.2)×10 ⁻⁴	(1.4 ± 1.3)×10 ⁻⁴	(2.5 ± 2.5)×10 ⁻⁴	[45 - 70°N, 155 - 190°E]
454	Kilauea	18.08.2009	3.6×10 ¹³	2.0×10 ¹⁷	yes	0.10	(1.7 ± 2.1)×10 ⁻⁴	(-0.1 ± 1.1)×10 ⁻⁴	(1.7 ± 1.5)×10 ⁻⁴	[0 - 35°N, 144 - 175°W]
455	Koryaksky	19.08.2009	3.2×10 ¹³	2.1×10 ¹⁷	no	0.11	(-1.5 ± 2.2)×10 ⁻⁴	(4.0 ± 9.1)×10 ⁻⁵	(1.5 ± 1.5)×10 ⁻⁴	[30 - 65°N, 135 - 170°E]
456	Koryaksky	20.08.2009	4.9×10 ¹³	1.6×10 ¹⁷	yes	0.09	(2.3 ± 2.3)×10 ⁻⁴	(1.5 ± 0.8)×10 ⁻⁴	(3.1 ± 2.0)×10 ⁻⁴	[35 - 70°N, 155 - 190°E]
457	Ambrym	12.09.2009	4.5×10 ¹³	2.5×10 ¹⁷	no	0.03	(0.7 ± 1.2)×10 ⁻⁴	(1.3 ± 0.7)×10 ⁻⁴	(1.8 ± 1.6)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
458	Langila	28.09.2009	4.8×10 ¹³	2.9×10 ¹⁷	no	0.11	(-1.4 ± 1.2)×10 ⁻⁴	(3.7 ± 6.0)×10 ⁻⁵	(1.7 ± 1.3)×10 ⁻⁴	[-25 - 10°N, 132 - 165°E]
459	Ambrym	05.10.2009	5.8×10 ¹³	1.7×10 ¹⁷	no	0.02	(1.9 ± 2.2)×10 ⁻⁴	(1.4 ± 0.8)×10 ⁻⁴	(3.4 ± 2.2)×10 ⁻⁴	[0 - 35°S, 150 - 181°E]
460	Nevado del Huila	17.10.2009	4.8×10 ¹³	3.9×10 ¹⁷	no	0.04	(-3.1 ± 7.5)×10 ⁻⁵	(3.5 ± 5.4)×10 ⁻⁵	(1.2 ± 1.0)×10 ⁻⁴	[-15 - 20°N, 62 - 95°W]
461	Nevado del Huila	18.10.2009	3.3×10 ¹³	2.5×10 ¹⁷	yes	0.35	(2.5 ± 1.4)×10 ⁻⁴	(-0.7 ± 7.5)×10 ⁻⁵	(1.3 ± 1.3)×10 ⁻⁴	[-15 - 20°N, 62 - 95°W]
462	Nevado del Huila	21.10.2009	5.6×10 ¹³	2.1×10 ¹⁷	no	0.04	(1.0 ± 1.8)×10 ⁻⁴	(1.8 ± 0.8)×10 ⁻⁴	(2.6 ± 1.8)×10 ⁻⁴	[-15 - 20°N, 65 - 95°W]
463	Nevado del Huila	24.10.2009	9.8×10 ¹²	3.2×10 ¹⁷	no	0.27	(-0.9 ± 1.1)×10 ⁻⁴	(-8.6 ± 6.5)×10 ⁻⁵	(3.1 ± 9.1)×10 ⁻⁴	[-12 - 20°N, 60 - 89°W]
464	Nevado del Huila	28.10.2009	4.8×10 ¹³	2.4×10 ¹⁷	no	0.01	(0.5 ± 1.6)×10 ⁻⁴	(5.1 ± 6.2)×10 ⁻⁵	(2.0 ± 1.6)×10 ⁻⁴	[-15 - 20°N, 60 - 86°W]
465	Nevado del Huila	31.10.2009	7.5×10 ¹³	5.0×10 ¹⁷	no	0.37	(1.2 ± 0.6)×10 ⁻⁴	(8.6 ± 5.0)×10 ⁻⁵	(1.5 ± 0.7)×10 ⁻⁴	[-15 - 20°N, 64 - 95°W]
466	Nevado del Huila	01.11.2009	2.0×10 ¹³	2.0×10 ¹⁷	no	0.02	(-0.4 ± 1.4)×10 ⁻⁴	(1.2 ± 6.3)×10 ⁻⁵	(1.0 ± 1.4)×10 ⁻⁴	[-15 - 20°N, 59 - 90°W]
467	Ambrym	03.11.2009	6.8×10 ¹³	1.5×10 ¹⁷	no	0.00	(-1.0 ± 2.4)×10 ⁻⁴	(2.3 ± 1.1)×10 ⁻⁴	(4.3 ± 2.0)×10 ⁻⁴	[0 - 35°S, 150 - 181°E]
468	Nevado del Huila	06.11.2009	5.8×10 ¹³	2.3×10 ¹⁷	no	0.23	(2.4 ± 1.7)×10 ⁻⁴	(1.1 ± 0.9)×10 ⁻⁴	(2.5 ± 1.7)×10 ⁻⁴	[-15 - 20°N, 60 - 95°W]
469	Nevado del Huila	10.11.2009	4.3×10 ¹³	3.5×10 ¹⁷	yes	0.11	(1.1 ± 1.0)×10 ⁻⁴	(2.9 ± 7.0)×10 ⁻⁵	(1.2 ± 1.1)×10 ⁻⁴	[-15 - 20°N, 62 - 95°W]
470	Nevado del Huila	11.11.2009	7.8×10 ¹³	5.9×10 ¹⁷	no	0.38	(1.2 ± 0.5)×10 ⁻⁴	(2.5 ± 3.2)×10 ⁻⁵	(1.3 ± 0.7)×10 ⁻⁴	[-10 - 20°N, 71 - 80°W]
471	Nevado del Huila	12.11.2009	2.6×10 ¹³	2.3×10 ¹⁷	no	0.41	(-1.9 ± 1.6)×10 ⁻⁴	(-2.9 ± 8.2)×10 ⁻⁵	(1.1 ± 1.6)×10 ⁻⁴	[-11 - 20°N, 60 - 91°W]
472	Ambrym	13.11.2009	4.8×10 ¹³	1.6×10 ¹⁷	no	0.02	(0.4 ± 2.2)×10 ⁻⁴	(2.3 ± 1.0)×10 ⁻⁴	(2.9 ± 2.3)×10 ⁻⁴	[0 - 35°S, 150 - 182°E]
473	Nevado del Huila	14.11.2009	5.6×10 ¹³	1.8×10 ¹⁷	no	0.07	(3.3 ± 2.9)×10 ⁻⁴	(0.4 ± 1.2)×10 ⁻⁴	(3.0 ± 2.5)×10 ⁻⁴	[-15 - 20°N, 65 - 95°W]
474	Nevado del Huila	15.11.2009	3.0×10 ¹³	2.1×10 ¹⁷	yes	0.03	(0.7 ± 1.7)×10 ⁻⁴	(7.4 ± 8.8)×10 ⁻⁵	(1.4 ± 1.5)×10 ⁻⁴	[-15 - 20°N, 62 - 95°W]
475	Nevado del Huila	16.11.2009	7.8×10 ¹³	4.7×10 ¹⁷	no	0.09	(7.3 ± 9.2)×10 ⁻⁵	(1.7 ± 0.8)×10 ⁻⁴	(1.7 ± 0.8)×10 ⁻⁴	[-15 - 20°N, 62 - 95°W]
476	Nevado del Huila	20.11.2009	7.2×10 ¹³	6.1×10 ¹⁷	yes	0.54	(1.2 ± 0.6)×10 ⁻⁴	(4.6 ± 6.2)×10 ⁻⁵	(1.2 ± 0.5)×10 ⁻⁴	[-15 - 20°N, 61 - 95°W]
477	Nevado del Huila	21.11.2009	5.4×10 ¹³	4.0×10 ¹⁷	no	0.03	(4.9 ± 8.5)×10 ⁻⁵	(4.7 ± 5.8)×10 ⁻⁵	(1.4 ± 1.0)×10 ⁻⁴	[-15 - 20°N, 61 - 94°W]
478	Nevado del Huila	24.11.2009	6.4×10 ¹³	3.2×10 ¹⁷	no	0.22	(1.4 ± 1.2)×10 ⁻⁴	(1.3 ± 0.7)×10 ⁻⁴	(2.0 ± 1.1)×10 ⁻⁴	[-15 - 20°N, 65 - 95°W]
479	Nevado del Huila	29.11.2009	4.1×10 ¹³	3.0×10 ¹⁷	no	0.06	(0.8 ± 1.1)×10 ⁻⁴	(4.8 ± 6.2)×10 ⁻⁵	(1.4 ± 1.3)×10 ⁻⁴	[-15 - 20°N, 64 - 95°W]
480	Nevado del Huila	01.12.2009	4.0×10 ¹³	2.8×10 ¹⁷	no	0.31	(1.4 ± 1.6)×10 ⁻⁴	(8.3 ± 7.4)×10 ⁻⁵	(1.4 ± 1.3)×10 ⁻⁴	[-15 - 20°N, 60 - 93°W]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max}

† combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR

* corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ max	coordinates
481	Ambrym	02.12.2009	8.3×10 ¹³	2.0×10 ¹⁷	no	0.02	(-1.0 ± 2.2)×10 ⁻⁴	(2.2 ± 1.0)×10 ⁻⁴	(4.0 ± 2.1)×10 ⁻⁴	[0 - 35°S, 150 - 181°E]
482	Nevado del Huila	04.12.2009	6.5×10 ¹³	2.4×10 ¹⁷	no	0.03	(1.3 ± 2.3)×10 ⁻⁴	(6.2 ± 7.4)×10 ⁻⁵	(2.7 ± 1.7)×10 ⁻⁴	[-15 - 20°N, 63 - 95°W]
483	Nevado del Huila	09.12.2009	5.9×10 ¹³	2.1×10 ¹⁷	no	0.00	(0.4 ± 1.7)×10 ⁻⁴	(4.5 ± 8.0)×10 ⁻⁵	(2.8 ± 2.2)×10 ⁻⁴	[-15 - 20°N, 62 - 95°W]
484†	Nyamuragira	03.01.2010	7.0×10 ¹³	4.3×10 ¹⁸	no	0.03	(6.0 ± 7.1)×10 ⁻⁶	(-1.1 ± 1.2)×10 ⁻⁵	(1.6 ± 1.0)×10 ⁻⁵	[-20 - 20°N, 10 - 43°E]
485	Nyamuragira	04.01.2010	5.5×10 ¹³	8.2×10 ¹⁷	no	0.09	(3.1 ± 2.1)×10 ⁻⁵	(1.9 ± 1.5)×10 ⁻⁵	(6.7 ± 4.6)×10 ⁻⁵	[-20 - 15°N, 8 - 45°E]
486	Nyamuragira	06.01.2010	1.6×10 ¹³	1.8×10 ¹⁷	no	0.00	(0.4 ± 2.7)×10 ⁻⁴	(-5.9 ± 7.1)×10 ⁻⁵	(0.9 ± 2.0)×10 ⁻⁴	[-25 - 15°N, 0 - 40°E]
487	Nyamuragira	07.01.2010	6.7×10 ¹³	9.7×10 ¹⁷	no	0.05	(4.1 ± 1.9)×10 ⁻⁵	(-0.1 ± 1.2)×10 ⁻⁵	(6.9 ± 3.7)×10 ⁻⁵	[-25 - 20°N, 5 - 39°E]
488	Nyamuragira	08.01.2010	7.9×10 ¹³	2.7×10 ¹⁷	no	0.00	(-2.0 ± 8.4)×10 ⁻⁵	(-2.1 ± 2.4)×10 ⁻⁵	(2.9 ± 1.6)×10 ⁻⁴	[-20 - 15°N, 19 - 29°E]
489†	Nyamuragira	09.01.2010	6.7×10 ¹³	3.6×10 ¹⁸	no	0.03	(1.1 ± 1.1)×10 ⁻⁵	(1.8 ± 1.7)×10 ⁻⁵	(1.8 ± 1.2)×10 ⁻⁵	[-25 - 15°N, 8 - 45°E]
490	Nyamuragira	10.01.2010	3.4×10 ¹³	8.9×10 ¹⁷	no	0.06	(2.0 ± 2.6)×10 ⁻⁵	(-2.0 ± 1.8)×10 ⁻⁵	(3.9 ± 4.4)×10 ⁻⁵	[-20 - 15°N, 15 - 45°E]
491	Ambrym	10.01.2010	7.0×10 ¹³	3.7×10 ¹⁷	no	0.04	(8.7 ± 8.9)×10 ⁻⁵	(1.0 ± 0.6)×10 ⁻⁴	(1.9 ± 1.1)×10 ⁻⁴	[0 - 35°S, 150 - 182°E]
492	Nyamuragira	11.01.2010	6.6×10 ¹³	2.4×10 ¹⁷	no	0.00	(-0.4 ± 1.4)×10 ⁻⁴	(2.2 ± 4.9)×10 ⁻⁵	(2.7 ± 1.7)×10 ⁻⁴	[-20 - 20°N, 5 - 40°E]
493	Ambrym	11.01.2010	7.7×10 ¹³	2.9×10 ¹⁷	no	0.06	(1.2 ± 1.6)×10 ⁻⁴	(0.8 ± 1.0)×10 ⁻⁴	(2.6 ± 1.4)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
494	Nyamuragira	12.01.2010	7.0×10 ¹³	5.4×10 ¹⁷	no	0.01	(-2.6 ± 3.0)×10 ⁻⁵	(1.4 ± 1.8)×10 ⁻⁵	(1.3 ± 0.8)×10 ⁻⁴	[-20 - 20°N, 5 - 40°E]
495†	Nyamuragira	13.01.2010	4.3×10 ¹³	2.5×10 ¹⁸	no	0.01	(-0.2 ± 1.6)×10 ⁻⁵	(0.2 ± 1.6)×10 ⁻⁵	(1.7 ± 1.5)×10 ⁻⁵	[-20 - 20°N, 10 - 45°E]
496†	Nyamuragira	14.01.2010	4.5×10 ¹³	1.4×10 ¹⁸	no	0.01	(0.6 ± 1.6)×10 ⁻⁵	(0.7 ± 1.3)×10 ⁻⁵	(3.1 ± 2.9)×10 ⁻⁵	[-20 - 20°N, 10 - 45°E]
497	Ambrym	14.01.2010	5.2×10 ¹³	2.3×10 ¹⁷	no	0.02	(0.7 ± 1.2)×10 ⁻⁴	(5.9 ± 5.6)×10 ⁻⁵	(2.2 ± 1.7)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
498	Nyamuragira	15.01.2010	4.6×10 ¹³	2.6×10 ¹⁷	yes	0.25	(2.0 ± 1.9)×10 ⁻⁴	(-5.3 ± 6.7)×10 ⁻⁵	(1.7 ± 1.5)×10 ⁻⁴	[-20 - 15°N, 15 - 45°E]
499	Kilauea	15.01.2010	4.3×10 ¹³	2.0×10 ¹⁷	no	0.01	(-1.3 ± 3.8)×10 ⁻⁴	(0.2 ± 1.4)×10 ⁻⁴	(2.1 ± 2.4)×10 ⁻⁴	[0 - 35°N, 143 - 175°W]
500	Ambrym	15.01.2010	6.4×10 ¹³	5.0×10 ¹⁷	no	0.08	(9.3 ± 5.3)×10 ⁻⁵	(8.9 ± 4.8)×10 ⁻⁵	(1.3 ± 0.8)×10 ⁻⁴	[-35 - 5°N, 150 - 184°E]
501	Nyamuragira	16.01.2010	6.1×10 ¹³	1.5×10 ¹⁷	no	0.02	(5.9 ± 3.5)×10 ⁻⁴	(-1.3 ± 6.6)×10 ⁻⁵	(4.0 ± 2.7)×10 ⁻⁴	[-20 - 20°N, 5 - 35°E]
502	Ambrym	16.01.2010	6.3×10 ¹³	3.4×10 ¹⁷	no	0.00	(0.7 ± 8.7)×10 ⁻⁵	(9.5 ± 5.2)×10 ⁻⁵	(1.9 ± 1.2)×10 ⁻⁴	[-35 - 5°N, 150 - 185°E]
503	Nyamuragira	17.01.2010	5.3×10 ¹³	3.9×10 ¹⁷	no	0.06	(8.8 ± 8.1)×10 ⁻⁵	(-2.7 ± 4.8)×10 ⁻⁵	(1.4 ± 1.0)×10 ⁻⁴	[-20 - 15°N, 10 - 40°E]
504	Ambrym	17.01.2010	5.8×10 ¹³	2.0×10 ¹⁷	no	0.01	(0.3 ± 1.7)×10 ⁻⁴	(3.7 ± 6.2)×10 ⁻⁵	(2.9 ± 1.9)×10 ⁻⁴	[-35 - 5°N, 150 - 185°E]
505	Nyamuragira	18.01.2010	5.8×10 ¹³	3.4×10 ¹⁷	no	0.01	(-0.3 ± 1.0)×10 ⁻⁴	(3.7 ± 5.6)×10 ⁻⁵	(1.7 ± 1.0)×10 ⁻⁴	[-20 - 15°N, 10 - 45°E]
506	Nyamuragira	19.01.2010	3.9×10 ¹³	3.9×10 ¹⁷	no	0.01	(0.4 ± 7.4)×10 ⁻⁵	(5.6 ± 4.4)×10 ⁻⁵	(1.0 ± 1.0)×10 ⁻⁴	[-20 - 15°N, 11 - 45°E]
507	Ambrym	19.01.2010	5.1×10 ¹³	2.3×10 ¹⁷	no	0.00	(0.5 ± 1.5)×10 ⁻⁴	(10.0 ± 5.9)×10 ⁻⁵	(2.2 ± 1.8)×10 ⁻⁴	[0 - 35°S, 145 - 179°E]
508	Ambrym	20.01.2010	7.7×10 ¹³	3.6×10 ¹⁷	no	0.04	(1.0 ± 1.0)×10 ⁻⁴	(-3.9 ± 5.8)×10 ⁻⁵	(2.1 ± 1.2)×10 ⁻⁴	[0 - 35°S, 150 - 184°E]
509	Nyamuragira	21.01.2010	3.9×10 ¹³	1.3×10 ¹⁷	no	0.03	(1.5 ± 3.3)×10 ⁻⁴	(1.2 ± 0.8)×10 ⁻⁴	(3.0 ± 3.1)×10 ⁻⁴	[-20 - 15°N, 5 - 35°E]
510	Tungurahua	21.01.2010	3.6×10 ¹³	2.3×10 ¹⁷	no	0.10	(-1.3 ± 2.5)×10 ⁻⁴	(1.0 ± 0.9)×10 ⁻⁴	(1.6 ± 1.8)×10 ⁻⁴	[20 - 15°N, 65 - 95°W]
511	Ambrym	21.01.2010	4.0×10 ¹³	4.6×10 ¹⁷	no	0.03	(3.4 ± 6.7)×10 ⁻⁵	(0.1 ± 5.4)×10 ⁻⁵	(8.7 ± 8.6)×10 ⁻⁵	[0 - 35°S, 150 - 185°E]
512	Nyamuragira	22.01.2010	4.2×10 ¹³	2.8×10 ¹⁷	no	0.01	(1.8 ± 9.0)×10 ⁻⁵	(1.0 ± 4.5)×10 ⁻⁵	(1.5 ± 1.2)×10 ⁻⁴	[-20 - 15°N, 10 - 40°E]
513	Ambrym	22.01.2010	2.4×10 ¹³	2.6×10 ¹⁷	no	0.00	(-0.0 ± 1.3)×10 ⁻⁴	(7.5 ± 6.0)×10 ⁻⁵	(0.9 ± 1.4)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
514	Nyamuragira	23.01.2010	6.2×10 ¹³	3.7×10 ¹⁷	no	0.02	(5.4 ± 9.6)×10 ⁻⁵	(0.7 ± 5.8)×10 ⁻⁵	(1.7 ± 1.2)×10 ⁻⁴	[-20 - 15°N, 10 - 45°E]
515	Nyamuragira	24.01.2010	4.6×10 ¹³	4.9×10 ¹⁷	no	0.01	(-1.7 ± 7.3)×10 ⁻⁵	(6.7 ± 4.6)×10 ⁻⁵	(0.9 ± 1.0)×10 ⁻⁴	[-20 - 15°N, 12 - 45°E]
516	Ambrym	24.01.2010	4.3×10 ¹³	1.6×10 ¹⁷	no	0.03	(1.2 ± 1.4)×10 ⁻⁴	(3.2 ± 4.8)×10 ⁻⁵	(2.7 ± 2.0)×10 ⁻⁴	[-30 - 5°N, 145 - 181°E]
517	Tungurahua	26.01.2010	6.0×10 ¹³	2.3×10 ¹⁷	no	0.00	(0.2 ± 1.7)×10 ⁻⁴	(5.7 ± 7.2)×10 ⁻⁵	(2.5 ± 2.0)×10 ⁻⁴	[-20 - 15°N, 65 - 95°W]
518	Nyamuragira	27.01.2010	5.7×10 ¹³	4.6×10 ¹⁷	no	0.09	(5.7 ± 7.3)×10 ⁻⁵	(6.6 ± 5.7)×10 ⁻⁵	(1.2 ± 0.9)×10 ⁻⁴	[-20 - 15°N, 10 - 41°E]
519	Ambrym	03.02.2010	4.4×10 ¹³	3.8×10 ¹⁷	no	0.20	(1.0 ± 0.8)×10 ⁻⁴	(9.1 ± 6.7)×10 ⁻⁵	(1.2 ± 1.0)×10 ⁻⁴	[0 - 35°S, 150 - 181°E]
520	Ambrym	04.02.2010	5.4×10 ¹³	4.7×10 ¹⁷	no	0.00	(-0.8 ± 5.5)×10 ⁻⁵	(8.3 ± 5.0)×10 ⁻⁵	(1.1 ± 0.9)×10 ⁻⁴	[-35 - 5°N, 150 - 188°E]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} † combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ :max	coordinates
521	Ambrym	05.02.2010	3.3×10 ¹³	2.6×10 ¹⁷	no	0.05	(0.9 ± 1.4)×10 ⁻⁴	(2.2 ± 7.3)×10 ⁻⁵	(1.2 ± 1.4)×10 ⁻⁴	[0 - 35°S, 152 - 185°E]
522	Ambrym	07.02.2010	4.5×10 ¹³	1.7×10 ¹⁷	no	0.09	(2.4 ± 2.2)×10 ⁻⁴	(1.0 ± 0.9)×10 ⁻⁴	(2.6 ± 2.0)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
523	Soufrière Hills	12.02.2010	5.8×10 ¹³	4.0×10 ¹⁷	no	0.00	(-0.8 ± 7.4)×10 ⁻⁵	(3.1 ± 3.8)×10 ⁻⁵	(1.4 ± 1.1)×10 ⁻⁴	[−5 - 35°N, 30 - 80°W]
524	Soufrière Hills	13.02.2010	7.7×10 ¹³	2.1×10 ¹⁷	no	0.03	(-1.0 ± 0.4)×10 ⁻³	(-1.1 ± 0.8)×10 ⁻⁴	(3.6 ± 2.1)×10 ⁻⁴	[0 - 30°N, 35 - 70°W]
525	Soufrière Hills	14.02.2010	6.9×10 ¹³	1.8×10 ¹⁷	no	0.00	(-0.3 ± 2.6)×10 ⁻⁴	(-8.2 ± 6.7)×10 ⁻⁵	(3.7 ± 2.6)×10 ⁻⁴	[0 - 30°N, 38 - 70°W]
526	Kilauea	18.02.2010	3.3×10 ¹³	1.9×10 ¹⁷	no	0.03	(0.8 ± 2.9)×10 ⁻⁴	(0.6 ± 1.2)×10 ⁻⁴	(1.7 ± 2.3)×10 ⁻⁴	[0 - 35°N, 142 - 175°W]
527	Ambrym	04.03.2010	4.2×10 ¹³	2.2×10 ¹⁷	no	0.05	(1.1 ± 2.5)×10 ⁻⁴	(0.6 ± 1.2)×10 ⁻⁴	(1.9 ± 1.7)×10 ⁻⁴	[0 - 35°S, 150 - 182°E]
528	Ambrym	06.03.2010	2.9×10 ¹³	2.1×10 ¹⁷	no	0.01	(0.3 ± 1.8)×10 ⁻⁴	(4.7 ± 7.1)×10 ⁻⁵	(1.3 ± 1.4)×10 ⁻⁴	[0 - 35°S, 152 - 185°E]
529	Turrialba*	09.03.2010	7.2×10 ¹³	2.3×10 ¹⁷	yes	0.33	(3.6 ± 2.5)×10 ⁻⁴	(1.0 ± 1.2)×10 ⁻⁴	(3.1 ± 1.6)×10 ⁻⁴	[−10 - 25°N, 70 - 100°W]
530	Kilauea	19.03.2010	3.1×10 ¹³	1.6×10 ¹⁷	no	0.00	(0.3 ± 3.3)×10 ⁻⁴	(-0.5 ± 1.3)×10 ⁻⁴	(1.9 ± 2.3)×10 ⁻⁴	[0 - 35°N, 142 - 175°W]
531	Kilauea	20.03.2010	6.5×10 ¹³	1.5×10 ¹⁷	no	0.01	(-3.7 ± 5.0)×10 ⁻⁴	(0.4 ± 1.4)×10 ⁻⁴	(4.2 ± 2.8)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
532	Ambrym	23.03.2010	4.1×10 ¹³	2.2×10 ¹⁷	no	0.00	(0.7 ± 1.7)×10 ⁻⁴	(-2.7 ± 7.7)×10 ⁻⁵	(1.8 ± 1.6)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
533	Ambrym	24.03.2010	5.7×10 ¹³	2.9×10 ¹⁷	no	0.01	(-0.1 ± 1.4)×10 ⁻⁴	(0.2 ± 8.2)×10 ⁻⁵	(1.9 ± 1.4)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
534	Ambrym	04.04.2010	5.7×10 ¹³	1.6×10 ¹⁷	no	0.07	(2.0 ± 2.5)×10 ⁻⁴	(4.0 ± 7.5)×10 ⁻⁵	(3.4 ± 2.0)×10 ⁻⁴	[0 - 35°S, 152 - 185°E]
535	Ambrym	08.04.2010	6.7×10 ¹³	3.0×10 ¹⁷	no	0.70	(3.4 ± 1.3)×10 ⁻⁴	(1.1 ± 0.7)×10 ⁻⁴	(2.2 ± 1.2)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
536	Ambrym	09.04.2010	4.9×10 ¹³	2.2×10 ¹⁷	no	0.06	(1.7 ± 1.7)×10 ⁻⁴	(6.2 ± 6.5)×10 ⁻⁵	(2.2 ± 1.6)×10 ⁻⁴	[−30 - 5°N, 154 - 185°E]
537	Ambrym	12.04.2010	8.0×10 ¹³	4.7×10 ¹⁷	no	0.02	(5.1 ± 5.5)×10 ⁻⁵	(-0.9 ± 3.5)×10 ⁻⁵	(1.7 ± 0.8)×10 ⁻⁴	[0 - 35°S, 150 - 183°E]
538	Ambrym	13.04.2010	7.7×10 ¹³	2.5×10 ¹⁷	no	0.01	(4.6 ± 9.9)×10 ⁻⁵	(0.2 ± 3.8)×10 ⁻⁵	(3.1 ± 1.6)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
539	Ambrym	19.04.2010	7.0×10 ¹³	3.1×10 ¹⁷	yes	0.38	(2.6 ± 1.3)×10 ⁻⁴	(1.5 ± 0.7)×10 ⁻⁴	(2.2 ± 0.8)×10 ⁻⁴	[−30 - 5°N, 150 - 185°E]
540	Eyjafjallajökull	22.04.2010	9.0×10 ¹³	3.8×10 ¹⁷	no	0.11	(2.4 ± 1.6)×10 ⁻⁴	(10.0 ± 8.3)×10 ⁻⁵	(2.4 ± 1.1)×10 ⁻⁴	[45 - 70°N, 0 - 35°W]
541	Eyjafjallajökull	23.04.2010	1.6×10 ¹⁴	3.7×10 ¹⁷	yes	0.65	(5.9 ± 1.8)×10 ⁻⁴	(2.4 ± 0.7)×10 ⁻⁴	(4.4 ± 1.3)×10 ⁻⁴	[45 - 70°N, 0 - 35°W]
542	Ambrym	23.04.2010	5.9×10 ¹³	4.2×10 ¹⁷	no	0.07	(9.9 ± 9.8)×10 ⁻⁵	(1.2 ± 0.5)×10 ⁻⁴	(1.4 ± 0.8)×10 ⁻⁴	[−35 - 5°N, 150 - 185°E]
543	Eyjafjallajökull	24.04.2010	1.2×10 ¹⁴	2.7×10 ¹⁷	no	0.30	(7.8 ± 3.8)×10 ⁻⁴	(3.2 ± 0.6)×10 ⁻⁴	(4.7 ± 1.7)×10 ⁻⁴	[45 - 70°N, 0 - 35°W]
544	Ambrym	24.04.2010	5.3×10 ¹³	1.6×10 ¹⁷	no	0.01	(-1.9 ± 2.9)×10 ⁻⁴	(4.6 ± 6.2)×10 ⁻⁵	(3.2 ± 2.1)×10 ⁻⁴	[−35 - 5°N, 155 - 190°E]
545	Eyjafjallajökull	25.04.2010	1.3×10 ¹⁴	4.6×10 ¹⁷	no	0.75	(3.4 ± 0.9)×10 ⁻⁴	(3.0 ± 0.5)×10 ⁻⁴	(3.0 ± 0.9)×10 ⁻⁴	[45 - 70°N, 0 - 35°W]
546	Eyjafjallajökull	26.04.2010	8.8×10 ¹³	4.2×10 ¹⁷	yes	0.58	(2.7 ± 1.4)×10 ⁻⁴	(1.9 ± 0.8)×10 ⁻⁴	(2.1 ± 1.0)×10 ⁻⁴	[45 - 70°N, 0 - 35°W]
547	Ambrym	26.04.2010	5.8×10 ¹³	2.8×10 ¹⁷	no	0.21	(2.8 ± 1.7)×10 ⁻⁴	(5.7 ± 7.6)×10 ⁻⁵	(2.1 ± 1.6)×10 ⁻⁴	[−30 - 5°N, 150 - 182°E]
548	Eyjafjallajökull	27.04.2010	1.1×10 ¹⁴	3.1×10 ¹⁷	no	0.07	(1.1 ± 1.5)×10 ⁻⁴	(3.6 ± 0.5)×10 ⁻⁴	(3.6 ± 1.3)×10 ⁻⁴	[45 - 70°N, 0 - 40°W]
549	Eyjafjallajökull	28.04.2010	6.4×10 ¹³	2.5×10 ¹⁷	no	0.30	(3.6 ± 2.8)×10 ⁻⁴	(1.3 ± 1.0)×10 ⁻⁴	(2.5 ± 1.6)×10 ⁻⁴	[45 - 70°N, 15 - 55°W]
550	Eyjafjallajökull	29.04.2010	1.3×10 ¹⁴	6.1×10 ¹⁷	yes	0.54	(1.9 ± 0.5)×10 ⁻⁴	(1.1 ± 0.3)×10 ⁻⁴	(2.1 ± 0.7)×10 ⁻⁴	[40 - 70°N, 0 - 45°W]
551	Eyjafjallajökull	30.04.2010	1.4×10 ¹⁴	4.2×10 ¹⁷	yes	0.50	(3.2 ± 0.8)×10 ⁻⁴	(2.0 ± 0.3)×10 ⁻⁴	(3.3 ± 1.0)×10 ⁻⁴	[40 - 70°N, −40 - 5°E]
552	Eyjafjallajökull	01.05.2010	4.9×10 ¹³	1.8×10 ¹⁷	no	0.13	(9.8 ± 5.4)×10 ⁻⁴	(-0.6 ± 9.9)×10 ⁻⁵	(2.7 ± 2.5)×10 ⁻⁴	[40 - 70°N, 0 - 35°W]
553	Eyjafjallajökull	03.05.2010	4.4×10 ¹³	1.4×10 ¹⁷	no	0.01	(1.9 ± 4.6)×10 ⁻⁴	(6.1 ± 9.7)×10 ⁻⁵	(3.1 ± 2.7)×10 ⁻⁴	[35 - 70°N, −30 - 5°E]
554	Eyjafjallajökull	04.05.2010	4.3×10 ¹³	2.2×10 ¹⁷	yes	0.17	(3.3 ± 1.7)×10 ⁻⁴	(6.1 ± 4.9)×10 ⁻⁵	(1.9 ± 1.8)×10 ⁻⁴	[35 - 70°N, −30 - 15°E]
555	Eyjafjallajökull	05.05.2010	1.7×10 ¹⁴	7.2×10 ¹⁷	no	0.34	(1.2 ± 0.2)×10 ⁻⁴	(1.4 ± 0.2)×10 ⁻⁴	(2.5 ± 0.6)×10 ⁻⁴	[35 - 70°N, −35 - 15°E]
556	Eyjafjallajökull	06.05.2010	9.3×10 ¹³	4.6×10 ¹⁷	no	0.06	(7.5 ± 3.4)×10 ⁻⁵	(1.3 ± 0.2)×10 ⁻⁴	(2.0 ± 1.2)×10 ⁻⁴	[25 - 70°N, −35 - 10°E]
557	Eyjafjallajökull	07.05.2010	1.0×10 ¹⁴	5.5×10 ¹⁷	no	0.29	(1.6 ± 0.3)×10 ⁻⁴	(1.3 ± 0.1)×10 ⁻⁴	(1.9 ± 0.7)×10 ⁻⁴	[20 - 70°N, −45 - 10°E]
558	Eyjafjallajökull	08.05.2010	9.5×10 ¹³	5.7×10 ¹⁷	no	0.26	(1.6 ± 0.3)×10 ⁻⁴	(1.3 ± 0.2)×10 ⁻⁴	(1.7 ± 0.8)×10 ⁻⁴	[25 - 70°N, 0 - 50°W]
559	Eyjafjallajökull	09.05.2010	1.0×10 ¹⁴	5.0×10 ¹⁷	no	0.14	(1.4 ± 0.3)×10 ⁻⁴	(1.1 ± 0.1)×10 ⁻⁴	(2.1 ± 0.8)×10 ⁻⁴	[25 - 70°N, −55 - 5°E]
560	Eyjafjallajökull	10.05.2010	9.8×10 ¹³	3.8×10 ¹⁷	no	0.12	(1.3 ± 0.3)×10 ⁻⁴	(1.0 ± 0.1)×10 ⁻⁴	(2.6 ± 1.2)×10 ⁻⁴	[20 - 70°N, −50 - 5°E]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} † combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ _{max}	coordinates
561	Eyjafjallajökull	11.05.2010	8.2×10 ¹³	4.2×10 ¹⁷	no	0.05	(1.0 ± 0.4)×10 ⁻⁴	(1.1 ± 0.2)×10 ⁻⁴	(1.9 ± 1.0)×10 ⁻⁴	[15 - 70°N, -55 - 10°E]
562	Kilauea	11.05.2010	4.0×10 ¹³	2.5×10 ¹⁷	no	0.06	(0.9 ± 2.0)×10 ⁻⁴	(3.1 ± 8.7)×10 ⁻⁵	(1.6 ± 1.6)×10 ⁻⁴	[0 - 35°N, 143 - 175°W]
563	Ambrym	11.05.2010	8.6×10 ¹³	6.4×10 ¹⁷	yes	0.59	(1.6 ± 0.6)×10 ⁻⁴	(9.5 ± 4.2)×10 ⁻⁵	(1.3 ± 0.6)×10 ⁻⁴	[0 - 35°S, 150 - 190°E]
564	Eyjafjallajökull	12.05.2010	7.5×10 ¹³	4.6×10 ¹⁷	no	0.03	(9.0 ± 5.7)×10 ⁻⁵	(7.7 ± 2.5)×10 ⁻⁵	(1.6 ± 1.0)×10 ⁻⁴	[20 - 70°N, -55 - 10°E]
565	Ambrym	12.05.2010	6.0×10 ¹³	2.9×10 ¹⁷	no	0.03	(-0.9 ± 2.0)×10 ⁻⁴	(1.8 ± 0.7)×10 ⁻⁴	(2.1 ± 1.2)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
566	Eyjafjallajökull	13.05.2010	1.3×10 ¹⁴	2.8×10 ¹⁷	no	0.17	(3.8 ± 1.8)×10 ⁻⁴	(1.7 ± 0.5)×10 ⁻⁴	(4.7 ± 1.7)×10 ⁻⁴	[45 - 70°N, -35 - 10°E]
567	Eyjafjallajökull	13.05.2010	3.4×10 ¹³	1.0×10 ¹⁷	no	0.33	(-3.2 ± 6.0)×10 ⁻³	(0.1 ± 1.3)×10 ⁻⁴	(3.2 ± 3.7)×10 ⁻⁴	[20 - 55°N, 5 - 40°W]
568	Eyjafjallajökull	14.05.2010	1.3×10 ¹⁴	8.4×10 ¹⁷	no	0.42	(1.4 ± 0.2)×10 ⁻⁴	(1.4 ± 0.2)×10 ⁻⁴	(1.6 ± 0.6)×10 ⁻⁴	[35 - 70°N, -50 - 15°E]
569	Eyjafjallajökull	15.05.2010	8.8×10 ¹³	4.4×10 ¹⁷	no	0.02	(4.5 ± 5.3)×10 ⁻⁵	(1.2 ± 0.2)×10 ⁻⁴	(2.0 ± 1.2)×10 ⁻⁴	[40 - 70°N, 0 - 60°W]
570	Eyjafjallajökull	16.05.2010	1.2×10 ¹⁴	3.5×10 ¹⁷	no	0.32	(3.9 ± 0.9)×10 ⁻⁴	(2.0 ± 0.4)×10 ⁻⁴	(3.5 ± 1.3)×10 ⁻⁴	[35 - 70°N, -35 - 20°E]
571	Eyjafjallajökull	16.05.2010	2.6×10 ¹³	2.7×10 ¹⁷	no	0.09	(-1.2 ± 2.1)×10 ⁻⁴	(6.1 ± 5.7)×10 ⁻⁵	(1.0 ± 1.4)×10 ⁻⁴	[50 - 70°N, 25 - 60°W]
572	Eyjafjallajökull	17.05.2010	1.5×10 ¹⁴	7.3×10 ¹⁷	no	0.42	(2.9 ± 0.4)×10 ⁻⁴	(2.0 ± 0.2)×10 ⁻⁴	(2.1 ± 0.6)×10 ⁻⁴	[35 - 70°N, -55 - 20°E]
573	Eyjafjallajökull	18.05.2010	6.5×10 ¹³	1.3×10 ¹⁷	no	0.00	(-2.6 ± 3.5)×10 ⁻⁴	(1.5 ± 0.7)×10 ⁻⁴	(4.8 ± 3.1)×10 ⁻⁴	[30 - 65°N, -10 - 30°E]
574	Eyjafjallajökull	19.05.2010	9.1×10 ¹³	1.9×10 ¹⁷	no	0.07	(8.3 ± 5.1)×10 ⁻⁴	(1.2 ± 0.8)×10 ⁻⁴	(4.8 ± 2.6)×10 ⁻⁴	[50 - 70°N, 0 - 35°W]
575	Eyjafjallajökull	20.05.2010	8.5×10 ¹³	1.9×10 ¹⁷	no	0.16	(8.3 ± 4.5)×10 ⁻⁴	(6.7 ± 7.1)×10 ⁻⁵	(4.4 ± 2.4)×10 ⁻⁴	[50 - 70°N, -35 - 15°E]
576	Ambrym	26.05.2010	6.0×10 ¹³	2.0×10 ¹⁷	no	0.15	(7.9 ± 5.4)×10 ⁻⁴	(0.6 ± 1.0)×10 ⁻⁴	(2.9 ± 2.1)×10 ⁻⁴	[0 - 35°S, 155 - 186°E]
577	Ambrym	27.05.2010	6.0×10 ¹³	2.3×10 ¹⁷	no	0.17	(5.4 ± 4.0)×10 ⁻⁴	(1.1 ± 1.0)×10 ⁻⁴	(2.5 ± 1.9)×10 ⁻⁴	[0 - 35°S, 151 - 185°E]
578 [†]	Pacaya	28.05.2010	2.5×10 ¹³	1.3×10 ¹⁸	no	0.04	(1.1 ± 1.5)×10 ⁻⁵	(-3.0 ± 1.4)×10 ⁻⁵	(1.9 ± 2.6)×10 ⁻⁵	[5 - 35°N, 79 - 115°W]
579	Pacaya	29.05.2010	6.5×10 ¹³	5.7×10 ¹⁷	no	0.00	(0.9 ± 3.1)×10 ⁻⁵	(-1.1 ± 1.9)×10 ⁻⁵	(1.1 ± 0.7)×10 ⁻⁴	[10 - 35°N, 70 - 115°W]
580	Pacaya	30.05.2010	7.2×10 ¹³	3.4×10 ¹⁷	no	0.06	(7.8 ± 6.2)×10 ⁻⁵	(1.5 ± 2.8)×10 ⁻⁵	(2.1 ± 1.0)×10 ⁻⁴	[5 - 35°N, 75 - 115°W]
581	Pacaya	31.05.2010	8.5×10 ¹³	3.7×10 ¹⁷	no	0.03	(10.0 ± 7.6)×10 ⁻⁵	(1.1 ± 0.4)×10 ⁻⁴	(2.3 ± 1.2)×10 ⁻⁴	[0 - 35°N, 89 - 120°W]
582	Bezymianny*	31.05/01.06.2010	6.0×10 ¹³	2.5×10 ¹⁷	no	0.17	(2.4 ± 1.9)×10 ⁻⁴	(3.0 ± 7.5)×10 ⁻⁵	(2.3 ± 1.8)×10 ⁻⁴	[40 - 70°N, 140 - 180°E]
583	Pacaya	01.06.2010	5.7×10 ¹³	1.7×10 ¹⁷	no	0.00	(0.2 ± 1.6)×10 ⁻⁴	(2.4 ± 5.8)×10 ⁻⁵	(3.3 ± 2.4)×10 ⁻⁴	[0 - 35°N, 85 - 123°W]
584	Bezymianny*	09.06.2010	3.8×10 ¹³	1.8×10 ¹⁷	no	0.00	(-0.0 ± 2.9)×10 ⁻⁴	(1.2 ± 1.0)×10 ⁻⁴	(2.1 ± 2.2)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
585	Ambrym	09.06.2010	7.0×10 ¹³	1.6×10 ¹⁷	no	0.10	(9.2 ± 6.0)×10 ⁻⁴	(0.9 ± 1.1)×10 ⁻⁴	(4.3 ± 2.6)×10 ⁻⁴	[0 - 35°S, 150 - 183°E]
586	Ambrym	19.06.2010	7.2×10 ¹³	1.7×10 ¹⁷	no	0.01	(1.1 ± 0.7)×10 ⁻³	(2.0 ± 1.1)×10 ⁻⁴	(4.2 ± 2.7)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
587	Kliuchevskoi*	23.06.2010	6.2×10 ¹³	2.5×10 ¹⁷	no	0.10	(1.6 ± 2.0)×10 ⁻⁴	(1.3 ± 0.7)×10 ⁻⁴	(2.5 ± 1.7)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
588	Kilauea	28.06.2010	7.5×10 ¹³	1.6×10 ¹⁷	no	0.02	(-1.8 ± 3.4)×10 ⁻⁴	(0.3 ± 1.2)×10 ⁻⁴	(4.4 ± 2.5)×10 ⁻⁴	[0 - 35°N, 145 - 175°W]
589	Ambrym	28.06.2010	6.5×10 ¹³	3.0×10 ¹⁷	no	0.32	(2.7 ± 1.9)×10 ⁻⁴	(1.2 ± 0.8)×10 ⁻⁴	(2.1 ± 1.5)×10 ⁻⁴	[0 - 35°S, 151 - 182°E]
590	Gorely*	11./12.07.2010	4.2×10 ¹³	1.4×10 ¹⁷	no	0.04	(6.0 ± 3.9)×10 ⁻⁴	(1.1 ± 8.2)×10 ⁻⁴	(3.0 ± 3.2)×10 ⁻⁴	[35 - 70°N, 140 - 175°E]
591	Rabaul	23.07.2010	3.6×10 ¹³	2.1×10 ¹⁷	no	0.03	(-0.6 ± 2.5)×10 ⁻⁴	(-0.6 ± 9.1)×10 ⁻⁵	(1.7 ± 2.0)×10 ⁻⁴	[20 - 15°N, 130 - 164°E]
592	Ambrym	15.08.2010	5.6×10 ¹³	2.6×10 ¹⁷	no	0.13	(2.0 ± 1.4)×10 ⁻⁴	(1.2 ± 5.3)×10 ⁻⁵	(2.2 ± 1.5)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
593	Kliuchevskoi	30.08.2010	3.8×10 ¹³	2.0×10 ¹⁷	no	0.20	(2.0 ± 2.9)×10 ⁻⁴	(9.3 ± 9.9)×10 ⁻⁵	(1.9 ± 2.0)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
594	Kliuchevskoi	02./03.09.2010	3.7×10 ¹³	2.4×10 ¹⁷	no	0.01	(0.7 ± 3.0)×10 ⁻⁴	(6.3 ± 8.3)×10 ⁻⁵	(1.5 ± 1.8)×10 ⁻⁴	[40 - 70°N, 145 - 180°E]
595	Ambrym	13.09.2010	4.5×10 ¹³	2.5×10 ¹⁷	no	0.07	(-0.6 ± 1.8)×10 ⁻⁴	(0.6 ± 1.0)×10 ⁻⁴	(1.8 ± 1.8)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
596	Ambrym	14.09.2010	6.2×10 ¹³	1.8×10 ¹⁷	no	0.01	(0.7 ± 2.9)×10 ⁻⁴	(0.8 ± 1.1)×10 ⁻⁴	(3.3 ± 2.3)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
597	Ambrym	13.10.2010	6.2×10 ¹³	2.9×10 ¹⁷	no	0.34	(2.0 ± 1.1)×10 ⁻⁴	(2.0 ± 0.8)×10 ⁻⁴	(2.1 ± 1.2)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
598	Ambrym	17.10.2010	7.8×10 ¹³	4.3×10 ¹⁷	yes	0.01	(5.4 ± 7.7)×10 ⁻⁵	(8.3 ± 5.2)×10 ⁻⁵	(1.8 ± 0.9)×10 ⁻⁴	[35 - 5°N, 150 - 182°E]
599	Ambrym	18.10.2010	6.1×10 ¹³	1.8×10 ¹⁷	no	0.03	(2.5 ± 2.3)×10 ⁻⁴	(1.2 ± 0.7)×10 ⁻⁴	(3.3 ± 2.0)×10 ⁻⁴	[30 - 5°N, 147 - 180°E]
600	Ambrym	27.10.2010	6.0×10 ¹³	2.3×10 ¹⁷	no	0.16	(2.3 ± 1.5)×10 ⁻⁴	(5.6 ± 6.0)×10 ⁻⁵	(2.6 ± 1.7)×10 ⁻⁴	[35 - 5°N, 150 - 183°E]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} [†] combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ _{max}	coordinates
601	Shiveluch	28.10.2010	5.5×10 ¹³	5.9×10 ¹⁷	no	0.00	(-0.0 ± 1.1)×10 ⁻⁴	(-2.4 ± 5.7)×10 ⁻⁵	(9.4 ± 9.1)×10 ⁻⁵	[35 - 56°N, 155 - 190°W]
602	Ambrym	01.11.2010	4.6×10 ¹³	3.1×10 ¹⁷	no	0.06	(-1.0 ± 1.1)×10 ⁻⁴	(4.4 ± 6.5)×10 ⁻⁵	(1.5 ± 1.2)×10 ⁻⁴	[0 - 35°S, 150 - 190°E]
603	Ambrym	02.11.2010	6.8×10 ¹³	3.9×10 ¹⁷	no	0.19	(2.0 ± 1.0)×10 ⁻⁴	(8.8 ± 6.3)×10 ⁻⁵	(1.7 ± 1.0)×10 ⁻⁴	[0 - 35°S, 150 - 189°E]
604	Ambrym	03.11.2010	6.4×10 ¹³	4.0×10 ¹⁷	no	0.09	(6.9 ± 8.0)×10 ⁻⁵	(8.9 ± 5.4)×10 ⁻⁵	(1.6 ± 0.9)×10 ⁻⁴	[0 - 35°S, 153 - 185°E]
605†	Merapi	04.11.2010	6.4×10 ¹³	1.4×10 ¹⁸	no	0.20	(5.5 ± 2.3)×10 ⁻⁵	(0.3 ± 1.8)×10 ⁻⁵	(4.5 ± 3.9)×10 ⁻⁵	[-25 - 10°N, 85 - 120°E]
606†	Merapi	05.11.2010	7.1×10 ¹³	8.9×10 ¹⁸	no	0.02	(2.3 ± 2.1)×10 ⁻⁶	(5.7 ± 4.1)×10 ⁻⁶	(8.0 ± 4.3)×10 ⁻⁶	[-30 - 15°N, 80 - 125°E]
607	Ambrym	05.11.2010	6.4×10 ¹³	3.3×10 ¹⁷	no	0.11	(1.2 ± 1.3)×10 ⁻⁴	(1.4 ± 0.8)×10 ⁻⁴	(2.0 ± 1.3)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
608†	Merapi	06.11.2010	5.9×10 ¹³	1.7×10 ¹⁸	no	0.00	(6.5 ± 7.2)×10 ⁻⁶	(-9.2 ± 6.2)×10 ⁻⁶	(3.3 ± 2.3)×10 ⁻⁵	[-40 - 15°N, 70 - 130°E]
609	Merapi	07.11.2010	1.0×10 ¹⁴	8.6×10 ¹⁷	no	0.00	(-4.4 ± 9.4)×10 ⁻⁶	(2.2 ± 0.7)×10 ⁻⁵	(1.2 ± 0.5)×10 ⁻⁴	[-45 - 15°N, 75 - 130°E]
610	Merapi	08.11.2010	7.2×10 ¹³	4.9×10 ¹⁷	no	0.01	(2.2 ± 1.7)×10 ⁻⁵	(1.6 ± 0.9)×10 ⁻⁵	(1.5 ± 0.8)×10 ⁻⁴	[-45 - 10°N, 70 - 135°E]
611	Merapi	09.11.2010	8.4×10 ¹³	8.6×10 ¹⁷	no	0.01	(4.7 ± 2.0)×10 ⁻⁵	(2.8 ± 1.1)×10 ⁻⁵	(9.8 ± 4.9)×10 ⁻⁵	[-45 - 15°N, 65 - 140°E]
612	Merapi	10.11.2010	7.4×10 ¹³	4.5×10 ¹⁷	no	0.01	(4.8 ± 3.2)×10 ⁻⁵	(1.8 ± 1.4)×10 ⁻⁵	(1.7 ± 0.9)×10 ⁻⁴	[-35 - 10°N, 55 - 126°E]
613	Ambrym	10.11.2010	6.1×10 ¹³	2.3×10 ¹⁷	yes	0.32	(3.1 ± 2.4)×10 ⁻⁴	(1.7 ± 1.1)×10 ⁻⁴	(2.6 ± 1.6)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
614	Merapi	11.11.2010	6.5×10 ¹³	3.3×10 ¹⁷	no	0.00	(4.5 ± 7.4)×10 ⁻⁵	(2.6 ± 2.3)×10 ⁻⁵	(2.0 ± 1.1)×10 ⁻⁴	[-35 - 10°N, 70 - 130°E]
615	Merapi	12.11.2010	7.7×10 ¹³	2.4×10 ¹⁷	no	0.01	(1.1 ± 0.8)×10 ⁻⁴	(4.9 ± 2.9)×10 ⁻⁵	(3.2 ± 1.8)×10 ⁻⁴	[-40 - 10°N, 72 - 125°E]
616	Merapi	13.11.2010	3.0×10 ¹³	1.0×10 ¹⁷	no	0.04	(-7.0 ± 6.0)×10 ⁻³	(-7.3 ± 8.7)×10 ⁻⁵	(2.9 ± 4.5)×10 ⁻⁴	[0 - 35°S, 80 - 114°E]
617	Ambrym	16.11.2010	7.2×10 ¹³	2.9×10 ¹⁷	no	0.14	(2.3 ± 1.7)×10 ⁻⁴	(1.2 ± 0.8)×10 ⁻⁴	(2.5 ± 1.5)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
618	Ambrym	19.11.2010	4.5×10 ¹³	2.1×10 ¹⁷	no	0.01	(-0.9 ± 2.4)×10 ⁻⁴	(7.5 ± 9.4)×10 ⁻⁵	(2.1 ± 2.0)×10 ⁻⁴	[0 - 35°S, 145 - 176°E]
619	Tungurahua	27.11.2010	3.2×10 ¹³	1.9×10 ¹⁷	no	0.00	(-0.4 ± 2.1)×10 ⁻⁴	(5.6 ± 8.1)×10 ⁻⁵	(1.7 ± 2.0)×10 ⁻⁴	[-20 - 15°N, 69 - 100°W]
620	Tungurahua	28.11.2010	2.4×10 ¹³	1.9×10 ¹⁷	no	0.00	(0.3 ± 2.8)×10 ⁻⁴	(-0.6 ± 1.0)×10 ⁻⁴	(1.3 ± 2.0)×10 ⁻⁴	[-20 - 15°N, 65 - 95°W]
621	Merapi	30.11.2010	5.5×10 ¹³	2.6×10 ¹⁷	yes	0.25	(1.9 ± 2.2)×10 ⁻⁴	(1.7 ± 1.4)×10 ⁻⁴	(2.1 ± 1.6)×10 ⁻⁴	[-25 - 10°N, 95 - 129°E]
622	Ambrym	30.11.2010	7.6×10 ¹³	2.4×10 ¹⁷	no	0.26	(3.5 ± 1.9)×10 ⁻⁴	(8.5 ± 9.2)×10 ⁻⁵	(3.1 ± 1.8)×10 ⁻⁴	[0 - 35°S, 150 - 183°E]
623	Tungurahua	01.12.2010	3.8×10 ¹³	3.4×10 ¹⁷	no	0.00	(-0.1 ± 1.2)×10 ⁻⁴	(0.7 ± 8.9)×10 ⁻⁵	(1.1 ± 1.4)×10 ⁻⁴	[-20 - 15°N, 66 - 95°W]
624	Ambrym	01.12.2010	4.6×10 ¹³	3.6×10 ¹⁷	no	0.22	(1.1 ± 1.1)×10 ⁻⁴	(9.6 ± 8.2)×10 ⁻⁵	(1.3 ± 1.2)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
625	Tungurahua	02.12.2010	4.6×10 ¹³	2.1×10 ¹⁷	no	0.00	(-0.7 ± 2.6)×10 ⁻⁴	(1.4 ± 1.1)×10 ⁻⁴	(2.2 ± 1.8)×10 ⁻⁴	[-20 - 15°N, 68 - 95°W]
626	Ambrym	02.12.2010	3.8×10 ¹³	1.4×10 ¹⁷	no	0.37	(3.3 ± 4.0)×10 ⁻⁴	(1.0 ± 1.0)×10 ⁻⁴	(2.7 ± 2.8)×10 ⁻⁴	[0 - 35°S, 153 - 185°E]
627	Tungurahua	03.12.2010	4.9×10 ¹³	1.9×10 ¹⁷	no	0.00	(-0.4 ± 2.0)×10 ⁻⁴	(-2.9 ± 1.4)×10 ⁻⁴	(2.5 ± 2.0)×10 ⁻⁴	[-20 - 15°N, 65 - 95°W]
628	Pacaya*	07.12.2010	5.2×10 ¹³	1.5×10 ¹⁷	no	0.27	(-1.9 ± 1.0)×10 ⁻³	(0.0 ± 1.6)×10 ⁻⁴	(3.3 ± 4.1)×10 ⁻⁴	[0 - 35°N, 81 - 115°W]
629	Ambrym	11.12.2010	4.2×10 ¹³	2.0×10 ¹⁷	no	0.05	(0.6 ± 2.2)×10 ⁻⁴	(1.3 ± 1.0)×10 ⁻⁴	(2.1 ± 2.0)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
630	Shiveluch*	14.12.2010	5.1×10 ¹³	6.2×10 ¹⁷	no	0.00	(-0.8 ± 6.0)×10 ⁻⁵	(-1.9 ± 3.7)×10 ⁻⁵	(8.2 ± 8.0)×10 ⁻⁵	[25 - 45°N, 135 - 170°W]
631	Ambrym	14.12.2010	6.8×10 ¹³	1.7×10 ¹⁷	no	0.01	(1.0 ± 2.8)×10 ⁻⁴	(1.3 ± 1.0)×10 ⁻⁴	(4.0 ± 2.5)×10 ⁻⁴	[0 - 35°S, 150 - 181°E]
632	Shiveluch*	15.12.2010	1.8×10 ¹⁴	3.9×10 ¹⁷	no	0.04	(-2.9 ± 1.3)×10 ⁻⁴	(5.4 ± 3.6)×10 ⁻⁵	(4.6 ± 1.8)×10 ⁻⁴	[25 - 45°N, 105 - 140°W]
633	Tengger Caldera	16.12.2010	5.9×10 ¹³	2.1×10 ¹⁷	no	0.00	(0.4 ± 2.4)×10 ⁻⁴	(1.6 ± 1.1)×10 ⁻⁴	(2.7 ± 2.0)×10 ⁻⁴	[-25 - 10°N, 100 - 135°E]
634	Shiveluch*	16.12.2010	2.9×10 ¹³	3.5×10 ¹⁷	no	0.13	(-1.5 ± 1.7)×10 ⁻⁴	(-9.7 ± 4.2)×10 ⁻⁵	(0.8 ± 1.3)×10 ⁻⁴	[25 - 45°N, 70 - 105°W]
635	Tengger Caldera	21.12.2010	2.2×10 ¹³	1.8×10 ¹⁷	no	0.07	(-1.0 ± 2.5)×10 ⁻⁴	(-3.7 ± 8.1)×10 ⁻⁵	(1.2 ± 1.9)×10 ⁻⁴	[-25 - 10°N, 99 - 130°E]
636	Tengger Caldera	23.12.2010	5.9×10 ¹³	1.5×10 ¹⁷	no	0.02	(1.7 ± 2.4)×10 ⁻⁴	(6.7 ± 6.8)×10 ⁻⁵	(3.7 ± 2.5)×10 ⁻⁴	[-25 - 15°N, 95 - 125°E]
637	Tengger Caldera	24.12.2010	8.9×10 ¹³	1.5×10 ¹⁷	no	0.03	(8.4 ± 4.0)×10 ⁻⁴	(0.5 ± 1.0)×10 ⁻⁴	(5.9 ± 3.1)×10 ⁻⁴	[-25 - 10°N, 95 - 128°E]
638	Ambrym	24.12.2010	5.5×10 ¹³	2.9×10 ¹⁷	no	0.05	(-1.2 ± 1.6)×10 ⁻⁴	(7.5 ± 8.1)×10 ⁻⁵	(1.9 ± 1.4)×10 ⁻⁴	[0 - 35°S, 150 - 182°E]
639	Ambrym	25.12.2010	3.0×10 ¹³	1.8×10 ¹⁷	yes	0.01	(0.4 ± 2.0)×10 ⁻⁴	(-1.5 ± 8.4)×10 ⁻⁵	(1.6 ± 2.2)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
640	Ambrym	26.12.2010	3.9×10 ¹³	1.7×10 ¹⁷	yes	0.09	(2.4 ± 3.0)×10 ⁻⁴	(3.0 ± 8.7)×10 ⁻⁵	(2.3 ± 2.4)×10 ⁻⁴	[0 - 35°S, 153 - 185°E]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} † combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

* SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ max	coordinates
641	Ambrym	27.12.2010	9.0×10 ¹³	1.8×10 ¹⁷	no	0.18	(5.3 ± 3.0)×10 ⁻⁴	(0.6 ± 1.1)×10 ⁻⁴	(4.8 ± 2.4)×10 ⁻⁴	[−30 - 5°N, 145 - 180°E]
642	Ambrym	28.12.2010	5.7×10 ¹³	1.9×10 ¹⁷	no	0.01	(0.9 ± 2.5)×10 ⁻⁴	(1.1 ± 9.0)×10 ⁻⁵	(2.9 ± 2.2)×10 ⁻⁴	[0 - 35°S, 145 - 178°E]
643	Ambrym	02.01.2011	5.6×10 ¹³	2.7×10 ¹⁷	no	0.18	(1.3 ± 1.3)×10 ⁻⁴	(7.4 ± 7.9)×10 ⁻⁵	(2.1 ± 1.4)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
644	Tengger Caldera*	03.01.2011	5.9×10 ¹³	2.8×10 ¹⁷	no	0.16	(1.5 ± 1.8)×10 ⁻⁴	(1.5 ± 1.1)×10 ⁻⁴	(2.1 ± 1.9)×10 ⁻⁴	[−25 - 10°N, 95 - 130°E]
645	Ambrym	03.01.2011	4.2×10 ¹³	3.3×10 ¹⁷	no	0.24	(1.3 ± 0.9)×10 ⁻⁴	(3.7 ± 4.9)×10 ⁻⁵	(1.3 ± 1.1)×10 ⁻⁴	[0 - 35°S, 150 - 190°E]
646	Ambrym	04.01.2011	4.7×10 ¹³	2.0×10 ¹⁷	no	0.05	(1.4 ± 2.0)×10 ⁻⁴	(7.7 ± 7.1)×10 ⁻⁵	(2.4 ± 1.9)×10 ⁻⁴	[0 - 35°S, 150 - 189°E]
647	Ambrym	18.01.2011	9.8×10 ¹³	4.8×10 ¹⁷	no	0.36	(1.9 ± 0.8)×10 ⁻⁴	(5.2 ± 7.1)×10 ⁻⁵	(2.0 ± 0.9)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
648	Ambrym	19.01.2011	5.3×10 ¹³	1.8×10 ¹⁷	no	0.02	(−0.8 ± 2.7)×10 ⁻⁴	(6.1 ± 8.6)×10 ⁻⁵	(2.9 ± 2.3)×10 ⁻⁴	[−30 - 5°N, 153 - 185°E]
649	Sakura-jima*	27.01.2011	4.4×10 ¹³	2.7×10 ¹⁷	no	0.04	(−1.5 ± 1.8)×10 ⁻⁴	(−3.9 ± 4.8)×10 ⁻⁵	(1.6 ± 2.0)×10 ⁻⁴	[10 - 45°N, 125 - 164°E]
650	Ambrym	27.01.2011	4.6×10 ¹³	2.8×10 ¹⁷	no	0.40	(1.9 ± 1.3)×10 ⁻⁴	(5.3 ± 7.5)×10 ⁻⁵	(1.6 ± 1.6)×10 ⁻⁴	[0 - 35°S, 150 - 183°E]
651	Tengger Caldera	28.01.2011	7.4×10 ¹³	2.3×10 ¹⁷	no	0.01	(1.0 ± 1.9)×10 ⁻⁴	(−0.7 ± 8.5)×10 ⁻⁵	(3.1 ± 2.0)×10 ⁻⁴	[−25 - 10°N, 95 - 135°E]
652	Ambrym	28.01.2011	5.8×10 ¹³	1.9×10 ¹⁷	no	0.00	(−0.4 ± 2.0)×10 ⁻⁴	(4.2 ± 7.6)×10 ⁻⁵	(3.0 ± 2.5)×10 ⁻⁴	[−35 - 5°N, 150 - 185°E]
653	Tengger Caldera	29.01.2011	2.7×10 ¹³	4.8×10 ¹⁷	no	0.05	(3.5 ± 9.2)×10 ⁻⁵	(0.9 ± 6.8)×10 ⁻⁵	(5.7 ± 9.0)×10 ⁻⁵	[−25 - 10°N, 95 - 130°E]
654	Tengger Caldera	31.01.2011	9.4×10 ¹³	1.7×10 ¹⁷	no	0.16	(−5.2 ± 3.5)×10 ⁻⁴	(0.9 ± 1.4)×10 ⁻⁴	(5.4 ± 2.4)×10 ⁻⁴	[−25 - 10°N, 95 - 125°E]
655	Etna	31.01.2011	3.3×10 ¹³	2.3×10 ¹⁷	no	0.00	(0.8 ± 5.2)×10 ⁻⁴	(−3.6 ± 9.8)×10 ⁻⁵	(1.5 ± 2.2)×10 ⁻⁴	[25 - 51°N, 5 - 40°E]
656	Tengger Caldera	03.02.2011	1.1×10 ¹³	2.5×10 ¹⁷	no	0.02	(−0.4 ± 1.9)×10 ⁻⁴	(−1.2 ± 7.9)×10 ⁻⁵	(0.5 ± 1.6)×10 ⁻⁴	[−25 - 10°N, 95 - 130°E]
657	Tengger Caldera	05.02.2011	4.3×10 ¹³	1.3×10 ¹⁷	no	0.15	(−5.4 ± 4.2)×10 ⁻⁴	(−0.8 ± 1.2)×10 ⁻⁴	(3.2 ± 3.0)×10 ⁻⁴	[−25 - 10°N, 95 - 126°E]
658	Ambrym	10.02.2011	8.2×10 ¹³	2.7×10 ¹⁷	no	0.03	(0.9 ± 1.2)×10 ⁻⁴	(1.3 ± 0.6)×10 ⁻⁴	(3.0 ± 1.8)×10 ⁻⁴	[−35 - 5°N, 145 - 181°E]
659	Tengger Caldera	11.02.2011	6.7×10 ¹³	1.7×10 ¹⁷	no	0.00	(1.1 ± 2.8)×10 ⁻⁴	(6.5 ± 9.5)×10 ⁻⁵	(3.8 ± 2.7)×10 ⁻⁴	[−25 - 10°N, 100 - 132°E]
660	Ambrym	11.02.2011	9.6×10 ¹³	2.8×10 ¹⁷	no	0.01	(−0.4 ± 1.4)×10 ⁻⁴	(1.4 ± 0.8)×10 ⁻⁴	(3.4 ± 1.4)×10 ⁻⁴	[−35 - 5°N, 150 - 185°E]
661	Ambrym	15.02.2011	7.4×10 ¹³	4.3×10 ¹⁷	no	0.10	(7.5 ± 7.7)×10 ⁻⁵	(8.5 ± 5.7)×10 ⁻⁵	(1.7 ± 1.0)×10 ⁻⁴	[0 - 35°S, 150 - 182°E]
662	Ambrym	06.03.2011	4.9×10 ¹³	3.2×10 ¹⁷	no	0.15	(0.9 ± 1.3)×10 ⁻⁴	(6.1 ± 8.7)×10 ⁻⁵	(1.5 ± 1.3)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
663	Tengger Caldera	11.03.2011	4.7×10 ¹³	3.0×10 ¹⁷	no	0.05	(0.6 ± 1.8)×10 ⁻⁴	(0.4 ± 1.0)×10 ⁻⁴	(1.6 ± 1.4)×10 ⁻⁴	[−25 - 10°N, 95 - 127°E]
664	Shiveluch*	13./14.03.2011	1.6×10 ¹⁴	2.8×10 ¹⁷	no	0.38	(1.8 ± 1.4)×10 ⁻³	(2.5 ± 0.7)×10 ⁻⁴	(5.7 ± 2.1)×10 ⁻⁴	[40 - 67°N, 135 - 170°E]
665	Shiveluch*	15.03.2011	1.0×10 ¹⁴	3.7×10 ¹⁷	no	0.49	(5.7 ± 3.2)×10 ⁻⁴	(2.0 ± 0.7)×10 ⁻⁴	(2.8 ± 1.4)×10 ⁻⁴	[35 - 68°N, 135 - 170°E]
666	Shiveluch*	16.03.2011	7.0×10 ¹³	2.4×10 ¹⁷	no	0.01	(1.8 ± 1.1)×10 ⁻³	(1.3 ± 0.7)×10 ⁻⁴	(2.9 ± 2.3)×10 ⁻⁴	[35 - 68°N, 130 - 180°E]
667	Shiveluch*	16./17.03.2011	8.1×10 ¹³	2.9×10 ¹⁷	no	0.37	(5.4 ± 3.9)×10 ⁻⁴	(1.9 ± 0.8)×10 ⁻⁴	(2.8 ± 1.7)×10 ⁻⁴	[40 - 68°N, 140 - 175°E]
668	Shiveluch*	21.03.2011	3.9×10 ¹³	3.2×10 ¹⁷	yes	0.81	(3.1 ± 3.8)×10 ⁻⁴	(3.1 ± 8.5)×10 ⁻⁵	(1.2 ± 1.6)×10 ⁻⁴	[40 - 70°N, 145 - 180°E]
669	Ambrym	21.03.2011	8.2×10 ¹³	2.3×10 ¹⁷	no	0.20	(3.9 ± 2.0)×10 ⁻⁴	(1.0 ± 0.8)×10 ⁻⁴	(3.5 ± 2.0)×10 ⁻⁴	[0 - 35°S, 150 - 182°E]
670	Shiveluch*	23./24.03.2011	8.9×10 ¹³	2.6×10 ¹⁷	no	0.02	(−5.9 ± 4.7)×10 ⁻⁴	(1.9 ± 0.7)×10 ⁻⁴	(3.3 ± 1.8)×10 ⁻⁴	[40 - 70°N, 145 - 180°E]
671	Ambrym	25.03.2011	4.9×10 ¹³	3.3×10 ¹⁷	no	0.00	(−0.1 ± 1.2)×10 ⁻⁴	(5.5 ± 6.8)×10 ⁻⁵	(1.5 ± 1.3)×10 ⁻⁴	[−35 - 5°N, 150 - 185°E]
672	Shiveluch*	26.03.2011	8.5×10 ¹³	3.5×10 ¹⁷	yes	0.62	(4.5 ± 3.0)×10 ⁻⁴	(1.1 ± 0.9)×10 ⁻⁴	(2.4 ± 1.4)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
673	Ambrym	27.03.2011	4.9×10 ¹³	2.7×10 ¹⁷	no	0.07	(1.7 ± 1.9)×10 ⁻⁴	(2.5 ± 6.6)×10 ⁻⁵	(1.8 ± 1.6)×10 ⁻⁴	[−35 - 5°N, 150 - 185°E]
674	Shiveluch*	28./29.03.2011	6.5×10 ¹³	3.0×10 ¹⁷	no	0.04	(−2.9 ± 4.3)×10 ⁻⁴	(1.1 ± 0.7)×10 ⁻⁴	(2.2 ± 1.5)×10 ⁻⁴	[40 - 70°N, 145 - 180°E]
675	Kliuchevskoi*	29./30.03.2011	1.3×10 ¹⁴	6.0×10 ¹⁷	yes	0.79	(2.6 ± 0.9)×10 ⁻⁴	(1.5 ± 0.4)×10 ⁻⁴	(2.2 ± 0.9)×10 ⁻⁴	[40 - 70°N, 145 - 180°E]
676	Ambrym	06.04.2011	5.4×10 ¹³	1.7×10 ¹⁷	no	0.09	(2.0 ± 3.4)×10 ⁻⁴	(1.7 ± 1.1)×10 ⁻⁴	(3.1 ± 2.3)×10 ⁻⁴	[0 - 35°S, 155 - 190°E]
677	Etna	11.04.2011	7.1×10 ¹³	3.0×10 ¹⁷	no	0.12	(1.8 ± 2.2)×10 ⁻⁴	(1.8 ± 1.0)×10 ⁻⁴	(2.4 ± 1.4)×10 ⁻⁴	[15 - 50°N, 10 - 45°E]
678	Ambrym	11.04.2011	4.0×10 ¹³	2.5×10 ¹⁷	no	0.01	(0.6 ± 1.6)×10 ⁻⁴	(0.2 ± 7.5)×10 ⁻⁵	(1.6 ± 2.1)×10 ⁻⁴	[0 - 35°S, 151 - 185°E]
679	Shiveluch*	19.04.2011	5.3×10 ¹³	1.5×10 ¹⁷	no	0.03	(1.2 ± 1.2)×10 ⁻³	(2.0 ± 1.1)×10 ⁻⁴	(3.5 ± 3.1)×10 ⁻⁴	[35 - 70°N, 135 - 170°E]
680	Ambrym	19.04.2011	7.7×10 ¹³	3.2×10 ¹⁷	no	0.18	(2.8 ± 1.3)×10 ⁻⁴	(−1.6 ± 6.3)×10 ⁻⁵	(2.4 ± 1.4)×10 ⁻⁴	[0 - 35°S, 150 - 182°E]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} [†] combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

[‡] SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ _{max}	coordinates
681	Shiveluch*	21./22.04.2011	5.1×10 ¹³	1.8×10 ¹⁷	yes	0.30	(9.4 ± 6.8)×10 ⁻⁴	(0.3 ± 1.1)×10 ⁻⁴	(2.8 ± 2.4)×10 ⁻⁴	[35 - 70°N, 135 - 170°E]
682	Tungurahua	22.04.2011	3.5×10 ¹³	4.1×10 ¹⁷	no	0.18	(1.2 ± 1.1)×10 ⁻⁴	(-1.4 ± 7.3)×10 ⁻⁵	(8.5 ± 9.9)×10 ⁻⁵	[~20 - 15°N, 65 - 95°W]
683	Kizimen*	22./23.04.2011	9.1×10 ¹³	5.3×10 ¹⁷	no	0.38	(1.8 ± 0.9)×10 ⁻⁴	(1.7 ± 0.5)×10 ⁻⁴	(1.7 ± 0.8)×10 ⁻⁴	[35 - 70°N, 140 - 180°E]
684	Shiveluch*	23./24.04.2011	7.9×10 ¹³	3.3×10 ¹⁷	yes	0.49	(2.8 ± 2.1)×10 ⁻⁴	(2.0 ± 0.9)×10 ⁻⁴	(2.4 ± 1.4)×10 ⁻⁴	[35 - 70°N, 170 - 205°W]
685	Tungurahua	25.04.2011	5.2×10 ¹³	7.1×10 ¹⁷	no	0.03	(3.5 ± 4.4)×10 ⁻⁵	(0.9 ± 4.0)×10 ⁻⁵	(7.2 ± 5.8)×10 ⁻⁵	[~20 - 15°N, 67 - 100°W]
686	Tungurahua	26.04.2011	5.8×10 ¹³	3.6×10 ¹⁷	no	0.01	(4.4 ± 8.1)×10 ⁻⁵	(0.9 ± 3.9)×10 ⁻⁵	(1.6 ± 0.9)×10 ⁻⁴	[~20 - 15°N, 68 - 100°W]
687	Shiveluch*	26.04.2011	7.6×10 ¹³	2.9×10 ¹⁷	no	0.30	(2.1 ± 2.3)×10 ⁻⁴	(2.7 ± 1.2)×10 ⁻⁴	(2.6 ± 1.6)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
688	Tungurahua	27.04.2011	2.0×10 ¹⁴	4.3×10 ¹⁷	no	0.00	(4.2 ± 5.9)×10 ⁻⁵	(8.1 ± 3.6)×10 ⁻⁵	(4.7 ± 3.0)×10 ⁻⁴	[~20 - 15°N, 65 - 95°W]
689	Shiveluch*	27./28.04.2011	5.6×10 ¹³	2.7×10 ¹⁷	no	0.00	(0.3 ± 3.2)×10 ⁻⁴	(1.2 ± 0.8)×10 ⁻⁴	(2.1 ± 2.0)×10 ⁻⁴	[35 - 70°N, 175 - 215°W]
690	Shiveluch*	28.04.2011	7.3×10 ¹³	3.2×10 ¹⁷	no	0.07	(0.9 ± 1.6)×10 ⁻⁴	(1.8 ± 0.8)×10 ⁻⁴	(2.3 ± 1.3)×10 ⁻⁴	[40 - 70°N, 145 - 180°E]
691	Shiveluch*	29.04.2011	4.7×10 ¹³	1.9×10 ¹⁷	no	0.04	(1.5 ± 2.8)×10 ⁻⁴	(1.3 ± 0.8)×10 ⁻⁴	(2.5 ± 2.3)×10 ⁻⁴	[40 - 70°N, 150 - 185°E]
692	Tungurahua	30.04.2011	4.5×10 ¹³	5.1×10 ¹⁷	no	0.10	(7.5 ± 7.3)×10 ⁻⁵	(-4.3 ± 4.8)×10 ⁻⁵	(8.9 ± 7.8)×10 ⁻⁵	[~20 - 15°N, 65 - 95°W]
693	Tungurahua	01.05.2011	6.8×10 ¹³	3.9×10 ¹⁷	no	0.03	(0.4 ± 1.0)×10 ⁻⁴	(-3.5 ± 6.5)×10 ⁻⁵	(1.7 ± 1.0)×10 ⁻⁴	[~20 - 15°N, 67 - 95°W]
694	Shiveluch*	01./02.05.2011	7.4×10 ¹³	3.5×10 ¹⁷	no	0.24	(1.5 ± 1.0)×10 ⁻⁴	(1.8 ± 0.5)×10 ⁻⁴	(2.1 ± 1.2)×10 ⁻⁴	[35 - 70°N, 140 - 180°E]
695	Tungurahua	02.05.2011	7.5×10 ¹³	2.5×10 ¹⁷	no	0.01	(-0.5 ± 1.1)×10 ⁻⁴	(4.9 ± 5.8)×10 ⁻⁵	(3.0 ± 1.6)×10 ⁻⁴	[~20 - 15°N, 65 - 87°W]
696	Kizimen*	03.05.2011	6.6×10 ¹³	3.7×10 ¹⁷	yes	0.46	(2.1 ± 1.2)×10 ⁻⁴	(1.2 ± 0.6)×10 ⁻⁴	(1.8 ± 1.2)×10 ⁻⁴	[40 - 70°N, 140 - 175°E]
697	Kizimen*	03./04.05.2011	6.8×10 ¹³	3.0×10 ¹⁷	no	0.01	(0.6 ± 1.5)×10 ⁻⁴	(1.2 ± 0.6)×10 ⁻⁴	(2.2 ± 1.3)×10 ⁻⁴	[35 - 70°N, 140 - 180°E]
698	Ambrym	04.05.2011	5.3×10 ¹³	1.9×10 ¹⁷	no	0.00	(-0.2 ± 1.8)×10 ⁻⁴	(-1.3 ± 4.5)×10 ⁻⁵	(2.8 ± 2.3)×10 ⁻⁴	[0 - 35°S, 150 - 185°E]
699	Kizimen*	05./06.05.2011	6.4×10 ¹³	2.0×10 ¹⁷	no	0.11	(7.2 ± 3.9)×10 ⁻⁴	(1.5 ± 0.8)×10 ⁻⁴	(3.2 ± 2.2)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
700	Kizimen*	08./09.05.2011	8.8×10 ¹³	3.3×10 ¹⁷	no	0.56	(2.9 ± 1.3)×10 ⁻⁴	(1.9 ± 0.7)×10 ⁻⁴	(2.6 ± 1.4)×10 ⁻⁴	[40 - 70°N, 140 - 180°E]
701	Etna	12.05.2011	7.0×10 ¹³	3.2×10 ¹⁷	no	0.01	(0.2 ± 1.4)×10 ⁻⁴	(1.5 ± 0.7)×10 ⁻⁴	(2.2 ± 1.5)×10 ⁻⁴	[15 - 50°N, 0 - 33°E]
702	Shiveluch*	13.05.2011	5.9×10 ¹³	2.2×10 ¹⁷	no	0.07	(-2.0 ± 2.4)×10 ⁻⁴	(1.2 ± 1.0)×10 ⁻⁴	(2.6 ± 2.4)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
703	Shiveluch*	18.05.2011	7.3×10 ¹³	2.5×10 ¹⁷	no	0.12	(1.9 ± 2.1)×10 ⁻⁴	(1.6 ± 1.0)×10 ⁻⁴	(2.9 ± 1.8)×10 ⁻⁴	[35 - 70°N, 140 - 175°E]
704	Shiveluch*	19.05.2011	6.5×10 ¹³	2.9×10 ¹⁷	yes	0.42	(3.5 ± 2.1)×10 ⁻⁴	(0.4 ± 1.1)×10 ⁻⁴	(2.2 ± 1.5)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
705	Shiveluch*	20./21.05.2011	4.3×10 ¹³	9.9×10 ¹⁷	no	0.01	(-0.6 ± 5.8)×10 ⁻⁵	(8.0 ± 7.5)×10 ⁻⁵	(4.4 ± 5.0)×10 ⁻⁵	[35 - 70°N, 125 - 175°E]
706	Karymsky	21./22.05.2011	8.0×10 ¹³	3.7×10 ¹⁷	no	0.44	(2.3 ± 0.9)×10 ⁻⁴	(2.1 ± 0.5)×10 ⁻⁴	(2.2 ± 1.2)×10 ⁻⁴	[35 - 70°N, 140 - 175°E]
707 [†]	Grímsvötn	22.05.2011	5.6×10 ¹³	2.2×10 ¹⁹	no	0.00	(0.4 ± 1.1)×10 ⁻⁶	(2.0 ± 1.5)×10 ⁻⁶	(2.5 ± 2.2)×10 ⁻⁶	[45 - 70°N, -40 - 5°E]
708	Karymsky	23.05.2011	4.4×10 ¹³	1.5×10 ¹⁷	no	0.01	(1.1 ± 3.0)×10 ⁻⁴	(7.9 ± 7.7)×10 ⁻⁵	(2.8 ± 3.5)×10 ⁻⁴	[30 - 70°N, 140 - 175°E]
709	Grímsvötn	24.05.2011	4.2×10 ¹³	5.1×10 ¹⁷	no	0.00	(-0.4 ± 6.3)×10 ⁻⁵	(-1.4 ± 3.1)×10 ⁻⁵	(8.3 ± 8.1)×10 ⁻⁵	[45 - 70°N, 45 - 80°E]
710	Karymsky	24./25.05.2011	8.6×10 ¹³	3.7×10 ¹⁷	yes	0.32	(3.2 ± 1.5)×10 ⁻⁴	(1.1 ± 0.7)×10 ⁻⁴	(2.3 ± 1.2)×10 ⁻⁴	[30 - 70°N, 175 - 215°W]
711 [†]	Grímsvötn	25.05.2011	6.9×10 ¹³	5.6×10 ¹⁸	no	0.04	(2.3 ± 1.9)×10 ⁻⁶	(7.3 ± 1.9)×10 ⁻⁶	(1.2 ± 0.8)×10 ⁻⁵	[35 - 70°N, -110 - 35°E]
712	Grímsvötn	25.05.2011	5.6×10 ¹³	3.5×10 ¹⁷	no	0.02	(-5.3 ± 8.1)×10 ⁻⁵	(1.0 ± 3.7)×10 ⁻⁵	(1.6 ± 1.5)×10 ⁻⁴	[30 - 70°N, 45 - 90°E]
713	Grímsvötn	26.05.2011	7.5×10 ¹³	2.5×10 ¹⁷	no	0.20	(3.0 ± 1.7)×10 ⁻⁴	(1.1 ± 0.5)×10 ⁻⁴	(3.0 ± 2.3)×10 ⁻⁴	[30 - 65°N, 50 - 95°E]
714 [†]	Grímsvötn	26.05.2011	6.1×10 ¹³	3.9×10 ¹⁸	no	0.00	(1.9 ± 3.4)×10 ⁻⁶	(1.3 ± 0.4)×10 ⁻⁵	(1.5 ± 1.2)×10 ⁻⁵	[40 - 70°N, 20 - 100°W]
715 [†]	Grímsvötn	27.05.2011	7.1×10 ¹³	2.7×10 ¹⁸	no	0.00	(2.9 ± 4.9)×10 ⁻⁶	(1.5 ± 0.5)×10 ⁻⁵	(2.5 ± 2.1)×10 ⁻⁵	[40 - 70°N, 0 - 95°W]
716	Kliuchevskoi*	28./29.05.2011	5.9×10 ¹³	1.4×10 ¹⁷	no	0.13	(1.9 ± 1.3)×10 ⁻³	(2.0 ± 1.4)×10 ⁻⁴	(4.1 ± 3.0)×10 ⁻⁴	[35 - 70°N, 140 - 175°E]
717 [†]	Grímsvötn	29.05.2011	7.7×10 ¹³	2.2×10 ¹⁸	no	0.01	(1.1 ± 0.9)×10 ⁻⁵	(1.2 ± 0.6)×10 ⁻⁵	(3.4 ± 2.7)×10 ⁻⁵	[35 - 70°N, -75 - 35°E]
718	Grímsvötn	30.05.2011	8.0×10 ¹³	9.8×10 ¹⁷	no	0.02	(2.2 ± 1.3)×10 ⁻⁵	(3.2 ± 0.8)×10 ⁻⁵	(8.2 ± 5.1)×10 ⁻⁵	[35 - 70°N, -65 - 20°E]
719	Grímsvötn	31.05.2011	4.3×10 ¹³	2.3×10 ¹⁷	no	0.01	(0.6 ± 3.1)×10 ⁻⁴	(7.7 ± 9.3)×10 ⁻⁵	(1.9 ± 2.0)×10 ⁻⁴	[45 - 70°N, 35 - 70°E]
720 [†]	Grímsvötn	31.05.2011	1.0×10 ¹⁴	2.5×10 ¹⁸	no	0.01	(1.0 ± 1.5)×10 ⁻⁵	(3.6 ± 1.3)×10 ⁻⁵	(4.1 ± 2.5)×10 ⁻⁵	[30 - 70°N, -25 - 25°E]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} [†] combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{Max} /SO ₂ max	coordinates
721	Grímsvötn	31.05.2011	3.4×10 ¹³	3.3×10 ¹⁷	no	0.01	(-0.3 ± 1.1)×10 ⁻⁴	(-7.3 ± 3.6)×10 ⁻⁵	(1.0 ± 1.4)×10 ⁻⁴	[50 - 70°N, 15 - 60°W]
722	Grímsvötn	01.06.2011	8.4×10 ¹³	3.0×10 ¹⁷	no	0.05	(7.5 ± 9.0)×10 ⁻⁵	(1.0 ± 0.4)×10 ⁻⁴	(2.7 ± 1.6)×10 ⁻⁴	[25 - 60°N, -15 - 25°E]
723	Grímsvötn	01.06.2011	3.0×10 ¹³	2.7×10 ¹⁷	no	0.00	(-0.2 ± 2.0)×10 ⁻⁴	(0.6 ± 5.9)×10 ⁻⁵	(1.1 ± 1.6)×10 ⁻⁴	[50 - 70°N, 20 - 55°W]
724	Grímsvötn	02.06.2011	6.7×10 ¹³	2.2×10 ¹⁷	no	0.02	(1.4 ± 1.5)×10 ⁻⁴	(1.2 ± 0.5)×10 ⁻⁴	(3.0 ± 2.2)×10 ⁻⁴	[20 - 60°N, -15 - 25°E]
725	Grímsvötn	02.06.2011	8.1×10 ¹³	3.5×10 ¹⁷	no	0.00	(2.1 ± 7.3)×10 ⁻⁵	(3.5 ± 3.4)×10 ⁻⁵	(2.3 ± 1.6)×10 ⁻⁴	[45 - 70°N, 15 - 55°W]
726	Grímsvötn	02.06.2011	6.3×10 ¹³	4.6×10 ¹⁷	no	0.00	(-1.2 ± 7.4)×10 ⁻⁵	(1.1 ± 4.5)×10 ⁻⁵	(1.3 ± 1.0)×10 ⁻⁴	[50 - 70°N, 120 - 160°W]
727	Grímsvötn	03.06.2011	1.0×10 ¹⁴	2.5×10 ¹⁷	no	0.01	(-1.3 ± 1.8)×10 ⁻⁴	(0.2 ± 5.9)×10 ⁻⁵	(4.2 ± 2.0)×10 ⁻⁴	[50 - 70°N, 0 - 40°W]
728	Grímsvötn	03.06.2011	5.1×10 ¹³	1.4×10 ¹⁷	no	0.03	(-3.7 ± 3.1)×10 ⁻⁴	(1.1 ± 0.6)×10 ⁻⁴	(3.5 ± 2.9)×10 ⁻⁴	[20 - 60°N, -20 - 24°E]
729	Grímsvötn	04.06.2011	7.1×10 ¹³	1.6×10 ¹⁷	no	0.05	(8.1 ± 5.2)×10 ⁻⁴	(1.4 ± 0.7)×10 ⁻⁴	(4.4 ± 2.6)×10 ⁻⁴	[20 - 55°N, -15 - 20°E]
730	Grímsvötn	04.06.2011	6.0×10 ¹³	2.9×10 ¹⁷	no	0.02	(1.2 ± 1.0)×10 ⁻⁴	(2.9 ± 3.2)×10 ⁻⁵	(2.1 ± 1.9)×10 ⁻⁴	[35 - 70°N, 85 - 140°W]
731	Grímsvötn	05.06.2011	5.9×10 ¹³	1.4×10 ¹⁷	no	0.03	(1.2 ± 0.8)×10 ⁻³	(1.1 ± 0.8)×10 ⁻⁴	(4.1 ± 3.0)×10 ⁻⁴	[25 - 60°N, -10 - 25°E]
732	Grímsvötn	05.06.2011	7.1×10 ¹³	4.5×10 ¹⁷	no	0.00	(0.1 ± 8.4)×10 ⁻⁵	(2.9 ± 4.1)×10 ⁻⁵	(1.6 ± 1.3)×10 ⁻⁴	[50 - 70°N, 0 - 40°W]
733	Grímsvötn	05.06.2011	8.0×10 ¹³	2.4×10 ¹⁷	no	0.03	(1.2 ± 1.8)×10 ⁻⁴	(4.0 ± 6.3)×10 ⁻⁵	(3.2 ± 2.0)×10 ⁻⁴	[35 - 70°N, 65 - 105°W]
734	Grímsvötn	05.06.2011	4.6×10 ¹³	1.7×10 ¹⁷	no	0.08	(1.1 ± 0.7)×10 ⁻³	(-2.8 ± 8.5)×10 ⁻⁵	(2.7 ± 2.9)×10 ⁻⁴	[45 - 70°N, 100 - 140°W]
735	Grímsvötn	06.06.2011	8.9×10 ¹³	4.2×10 ¹⁷	no	0.01	(-5.5 ± 6.1)×10 ⁻⁵	(2.1 ± 2.8)×10 ⁻⁵	(2.1 ± 1.3)×10 ⁻⁴	[40 - 70°N, -40 - 10°E]
736	Grímsvötn	06.06.2011	5.5×10 ¹³	1.9×10 ¹⁷	no	0.01	(1.4 ± 2.3)×10 ⁻⁴	(5.4 ± 6.0)×10 ⁻⁵	(2.8 ± 2.6)×10 ⁻⁴	[40 - 70°N, 50 - 95°W]
737	Grímsvötn	06.06.2011	9.6×10 ¹³	1.5×10 ¹⁷	no	0.00	(-1.5 ± 4.0)×10 ⁻⁴	(0.2 ± 7.9)×10 ⁻⁵	(6.0 ± 3.7)×10 ⁻⁴	[40 - 70°N, 100 - 135°W]
738	Grímsvötn	07.06.2011	7.8×10 ¹³	2.9×10 ¹⁷	no	0.00	(3.8 ± 6.7)×10 ⁻⁵	(7.1 ± 2.7)×10 ⁻⁵	(2.6 ± 1.5)×10 ⁻⁴	[35 - 70°N, -40 - 10°E]
739	Grímsvötn	07.06.2011	4.8×10 ¹³	1.3×10 ¹⁷	no	0.01	(1.3 ± 1.1)×10 ⁻³	(0.9 ± 1.3)×10 ⁻⁴	(3.6 ± 3.9)×10 ⁻⁴	[45 - 70°N, 95 - 130°W]
740	Shiveluch*	07.06.2011	6.8×10 ¹³	1.6×10 ¹⁷	yes	0.63	(5.0 ± 4.5)×10 ⁻⁴	(2.3 ± 1.2)×10 ⁻⁴	(4.1 ± 2.8)×10 ⁻⁴	[40 - 70°N, 145 - 180°E]
741	Grímsvötn	10.06.2011	4.1×10 ¹³	1.5×10 ¹⁷	no	0.18	(7.4 ± 5.8)×10 ⁻⁴	(9.5 ± 8.5)×10 ⁻⁵	(2.6 ± 3.0)×10 ⁻⁴	[40 - 70°N, 0 - 35°W]
742	Shiveluch*	11.06.2011	3.8×10 ¹³	2.3×10 ¹⁷	no	0.12	(1.5 ± 2.1)×10 ⁻⁴	(8.1 ± 8.1)×10 ⁻⁵	(1.7 ± 2.2)×10 ⁻⁴	[35 - 70°N, 140 - 175°E]
743	Shiveluch*	11.06.2011	4.0×10 ¹³	2.8×10 ¹⁷	yes	0.57	(2.6 ± 2.3)×10 ⁻⁴	(0.6 ± 1.0)×10 ⁻⁴	(1.5 ± 1.6)×10 ⁻⁴	[35 - 70°N, 145 - 180°E]
744	Shiveluch*	12./13.06.2011	6.7×10 ¹³	2.4×10 ¹⁷	no	0.00	(0.4 ± 1.8)×10 ⁻⁴	(7.9 ± 7.3)×10 ⁻⁵	(2.8 ± 2.1)×10 ⁻⁴	[35 - 70°N, 170 - 215°W]
745 [†]	Nabro	13.06.2011	2.6×10 ¹⁴	1.0×10 ¹⁹	no	0.00	(0.9 ± 1.6)×10 ⁻⁶	(1.9 ± 0.2)×10 ⁻⁵	(2.5 ± 0.4)×10 ⁻⁵	[−5 - 35°N, 10 - 60°E]
746	Shiveluch*	13.06.2011	3.2×10 ¹³	1.6×10 ¹⁷	no	0.15	(3.3 ± 3.8)×10 ⁻⁴	(1.0 ± 0.8)×10 ⁻⁴	(1.9 ± 2.6)×10 ⁻⁴	[35 - 70°N, 142 - 180°E]
747 [†]	Nabro	14.06.2011	1.1×10 ¹⁴	3.2×10 ¹⁸	no	0.00	(2.9 ± 2.4)×10 ⁻⁶	(1.6 ± 0.2)×10 ⁻⁵	(3.7 ± 1.6)×10 ⁻⁵	[0 - 50°N, 16 - 40°E]
748 [†]	Nabro	15.06.2011	2.6×10 ¹⁴	2.2×10 ¹⁹	no	0.27	(1.2 ± 0.1)×10 ⁻⁵	(1.7 ± 0.2)×10 ⁻⁵	(1.2 ± 0.2)×10 ⁻⁵	[−10 - 65°N, 5 - 95°E]
749 [†]	Nabro	16.06.2011	1.8×10 ¹⁴	1.2×10 ¹⁹	no	0.29	(1.6 ± 0.1)×10 ⁻⁵	(1.9 ± 0.3)×10 ⁻⁵	(1.5 ± 0.3)×10 ⁻⁵	[−15 - 60°N, 0 - 110°E]
750	Ambrym	16.06.2011	9.3×10 ¹³	3.6×10 ¹⁷	yes	0.57	(3.3 ± 1.3)×10 ⁻⁴	(1.4 ± 0.7)×10 ⁻⁴	(2.6 ± 1.1)×10 ⁻⁴	[0 - 35°S, 150 - 182°E]
751 [†]	Nabro	17.06.2011	9.1×10 ¹³	3.8×10 ¹⁸	no	0.10	(2.8 ± 0.3)×10 ⁻⁵	(1.7 ± 0.3)×10 ⁻⁵	(2.4 ± 1.2)×10 ⁻⁵	[−15 - 65°N, 0 - 125°E]
752	Kilauea	17.06.2011	4.0×10 ¹³	1.9×10 ¹⁷	no	0.01	(0.4 ± 3.0)×10 ⁻⁴	(0.4 ± 1.1)×10 ⁻⁴	(2.1 ± 2.0)×10 ⁻⁴	[0 - 35°N, 140 - 175°W]
753 [†]	Nabro	18.06.2011	1.1×10 ¹⁴	5.6×10 ¹⁸	no	0.03	(2.6 ± 0.5)×10 ⁻⁵	(1.6 ± 0.4)×10 ⁻⁵	(2.1 ± 0.8)×10 ⁻⁵	[−20 - 70°N, 0 - 135°E]
754 [†]	Nabro	19.06.2011	8.6×10 ¹³	1.7×10 ¹⁸	no	0.01	(2.2 ± 1.0)×10 ⁻⁵	(2.4 ± 0.5)×10 ⁻⁵	(4.9 ± 3.7)×10 ⁻⁵	[−20 - 65°N, −10 - 140°E]
755 [†]	Nabro	20.06.2011	1.4×10 ¹⁴	5.6×10 ¹⁸	no	0.12	(3.0 ± 0.4)×10 ⁻⁵	(2.4 ± 0.4)×10 ⁻⁵	(2.6 ± 0.9)×10 ⁻⁵	[−20 - 55°N, −13 - 130°E]
756	Nabro	21.06.2011	2.5×10 ¹³	2.0×10 ¹⁷	no	0.05	(−1.1 ± 1.7)×10 ^{−4}	(−3.5 ± 5.4)×10 ^{−5}	(1.2 ± 2.0)×10 ^{−4}	[20 - 60°N, 130 - 160°E]
757	Nabro	21.06.2011	3.5×10 ¹³	1.7×10 ¹⁷	no	0.02	(1.1 ± 2.7)×10 ⁻⁴	(1.9 ± 6.7)×10 ⁻⁵	(2.0 ± 2.4)×10 ⁻⁴	[10 - 50°N, 75 - 110°E]
758 [†]	Nabro	21.06.2011	1.5×10 ¹⁴	5.2×10 ¹⁸	no	0.08	(2.5 ± 0.5)×10 ⁻⁵	(1.8 ± 0.6)×10 ⁻⁵	(3.0 ± 0.9)×10 ⁻⁵	[−25 - 55°N, −15 - 90°E]
759	Nabro	21.06.2011	5.3×10 ¹³	2.0×10 ¹⁷	no	0.02	(−9.2 ± 10.0)×10 ^{−5}	(2.4 ± 3.2)×10 ^{−5}	(2.7 ± 2.0)×10 ^{−4}	[20 - 55°N, 130 - 180°E]
760 [†]	Nabro	22.06.2011	1.1×10 ¹⁴	3.8×10 ¹⁸	yes	0.11	(3.5 ± 0.6)×10 ⁻⁵	(2.6 ± 0.6)×10 ⁻⁵	(3.1 ± 1.2)×10 ⁻⁵	[−20 - 50°N, −20 - 100°E]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max}

† combined SO₂ product in case of high SO₂ SCDs $\geq 1 \times 10^{18}$ molec/cm²

* SO₂ SCDs $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR

* corresponding volcano cannot be clearly identified

#	volcano	date	BrO SCD _{max} [molec/cm ²]	SO ₂ SCD _{max} [molec/cm ²]	⊕	r ²	fitted BrO/SO ₂	integrated BrO/SO ₂	BrO _{max} /SO ₂ max	coordinates
761	Nabro	22.06.2011	5.1×10^{13}	1.8×10^{17}	no	0.04	$(2.1 \pm 1.7) \times 10^{-4}$	$(1.0 \pm 0.5) \times 10^{-4}$	$(2.7 \pm 2.4) \times 10^{-4}$	[15 - 55°N, 140 - 185°E]
762	Nabro	23.06.2011	4.9×10^{13}	2.2×10^{17}	no	0.03	$(1.2 \pm 2.1) \times 10^{-4}$	$(2.0 \pm 6.6) \times 10^{-5}$	$(2.2 \pm 1.8) \times 10^{-4}$	[15 - 50°N, 55 - 95°E]
763 [†]	Nabro	23.06.2011	1.1×10^{14}	1.7×10^{18}	no	0.03	$(3.9 \pm 1.5) \times 10^{-5}$	$(2.9 \pm 0.8) \times 10^{-5}$	$(6.5 \pm 4.2) \times 10^{-5}$	[20 - 55°N, -10 - 70°E]
764	Nabro	23.06.2011	5.2×10^{13}	1.4×10^{17}	no	0.01	$(2.8 \pm 2.8) \times 10^{-4}$	$(-0.8 \pm 6.3) \times 10^{-5}$	$(3.6 \pm 3.5) \times 10^{-4}$	[15 - 50°N, 150 - 182°E]
765	Nabro	24.06.2011	1.0×10^{14}	7.6×10^{17}	no	0.03	$(4.2 \pm 1.4) \times 10^{-5}$	$(2.2 \pm 0.9) \times 10^{-5}$	$(1.4 \pm 0.6) \times 10^{-4}$	[20 - 60°N, -10 - 60°E]
766 [†]	Nabro	25.06.2011	8.1×10^{13}	1.3×10^{18}	no	0.06	$(3.7 \pm 1.2) \times 10^{-5}$	$(4.8 \pm 0.8) \times 10^{-5}$	$(6.0 \pm 4.8) \times 10^{-5}$	[15 - 60°N, -10 - 70°E]
767 [†]	Nabro	26.06.2011	1.2×10^{14}	3.6×10^{18}	yes	0.27	$(4.0 \pm 0.9) \times 10^{-5}$	$(3.5 \pm 0.9) \times 10^{-5}$	$(3.3 \pm 1.3) \times 10^{-5}$	[10 - 55°N, -4 - 75°E]
768	Nabro	27.06.2011	1.5×10^{13}	9.8×10^{16}	no	0.05	$(-0.3 \pm 1.9) \times 10^{-3}$	$(-0.2 \pm 1.9) \times 10^{-4}$	$(1.6 \pm 4.6) \times 10^{-4}$	[20 - 50°N, 70 - 105°E]
769 [†]	Nabro	27.06.2011	1.0×10^{14}	2.6×10^{18}	yes	0.14	$(3.3 \pm 1.2) \times 10^{-5}$	$(5.4 \pm 0.8) \times 10^{-5}$	$(3.9 \pm 2.0) \times 10^{-5}$	[15 - 35°N, -15 - 60°E]
770	Nabro	28.06.2011	4.3×10^{13}	1.0×10^{17}	yes	0.60	$(2.9 \pm 3.5) \times 10^{-3}$	$(0.4 \pm 1.3) \times 10^{-4}$	$(4.1 \pm 3.2) \times 10^{-4}$	[10 - 25°N, 15 - 44°E]
771 [†]	Nabro	29.06.2011	9.9×10^{13}	1.6×10^{18}	yes	0.20	$(5.8 \pm 1.9) \times 10^{-5}$	$(3.6 \pm 1.2) \times 10^{-5}$	$(6.3 \pm 4.6) \times 10^{-5}$	[15 - 35°N, 10 - 51°E]
772	Nabro	30.06.2011	6.1×10^{13}	4.0×10^{17}	no	0.00	$(0.6 \pm 3.4) \times 10^{-5}$	$(1.2 \pm 1.7) \times 10^{-5}$	$(1.5 \pm 1.1) \times 10^{-4}$	[10 - 30°N, 14 - 55°E]

⊕ location of SO₂ SCD_{max} is the same as for BrO SCD_{max} † combined SO₂ product in case of high SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm²

‡ SO₂ SCDS $\geq 1 \times 10^{18}$ molec/cm², but no plume pixel found in the SO₂ AR * corresponding volcano cannot be clearly identified