Corrigendum to EMEP Status Report 1/2009
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METEOROLOGISK INSTITUTT
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Source-receptor tables for 2007 (Extended domain)

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APPENDIX C

Source-receptor tables for 2007 (Extended domain)

The source-receptor tables in this appendix are calculated for the meteorological and chemical conditions of 2007.

The tables are calculated for the extended EMEP domain and are based on model runs driven by HIRLAM meteorology.

The source-receptor (SR) relationships give the change in air concentrations or depositions resulting from a change in emissions from each emitter country.

For each country, reductions in six different pollutants have been calculated separately: with an emission reduction of 15% for SO_x, NO_x, NH_3, NMVOC, PPM_{fine} or PPM_{coarse} respectively.

The deposition tables show the contribution from one country to another. They have been calculated adding the differences obtained by a 15% reduction for all emissions in one country multiplied by a factor of 100/15, in order to arrive at total estimates.

For the concentrations and indicator tables, the differences obtained by the 15% emission reduction of the relevant pollutants are given directly. Thus, the tables should be interpreted as estimates of this reduction scenario from the chemical conditions in 2007.

The SR tables in the following aim to respond to two fundamental questions about transboundary air pollution:

1. Where do the pollutants emitted by a country or region end up?

2. Where do the pollutants in a given country or region come from?

Each column answers the first question. The numbers within a column give the change in the value of each pollutant (or indicator) for each receiver country caused by the emissions in the country given at the top of the column.

Each row answers the second question. The numbers given in each row show which emitter countries were responsible for the change in pollutants in the country given at the beginning of each row.

The following SR tables are presented in this appendix, all in the extended EMEP domain, including new EECCA countries, and using 2007 HIRLAM meteorology:

Acidification and eutrophication

- Deposition of OXS (oxidised sulphur). The contribution from SO_x, NO_x, NH_3 and VOC emissions have been summed up and scaled to a 100% reduction.
- Deposition of OXN (oxidised nitrogen). The contribution from SO_x, NO_x, NH_3 and VOC emissions have been summed up and scaled to a 100% reduction.
- Deposition of RDN (reduced nitrogen). The contribution from SO_x, NO_x, NH_3 and VOC emissions have been summed up and scaled to a 100% reduction.

Ground Level Ozone

- AOT40$_f^{\text{uc}}$. Effect of a 15% reduction in NO_x emissions.
- AOT40$_f^{\text{uc}}$. Effect of a 15% reduction in VOC emissions.
- SOMO35. Effect of a 15% reduction in NO_x emissions.
- SOMO35. Effect of a 15% reduction in VOC emissions.

Particulate Matter

- $PM_{2.5}$. Effect of a 15% reduction in PPM emissions.
- $PM_{2.5}$. Effect of a 15% reduction in SO_x emissions.
- $PM_{2.5}$. Effect of a 15% reduction in NO_x emissions.
- $PM_{2.5}$. Effect of a 15% reduction in NH_3 emissions.
- $PM_{2.5}$. Effect of a 15% reduction in VOC emissions.
- $PM_{2.5}$. Effect of a 15% reduction in all emissions. The contribution from a 15% reduction in PPM, SO_x, NO_x, NH_3 and VOC emissions have been summed up.

Table C.1: 2007 country-to-country blame matrices for **oxidised sulphur** deposition.
Units: 100 Mg of S. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	ME	
AL	39	0	0	0	11	0	17	0	0	0	1	1	0	0	4	0	1	0	0	44	1	1	0	0	11	0	0	0	0	0	0	7	AL
AM	0	6	0	15	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	0	0	0	0	0	AM
AT	0	0	32	0	14	4	5	0	4	0	32	59	0	0	17	0	17	5	0	1	6	5	0	0	24	0	0	0	0	0	0	1	AT
AZ	0	3	0	135	1	0	2	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	12	0	0	0	0	0	AZ
BA	2	0	2	0	451	1	14	0	0	0	6	6	0	0	9	0	4	1	0	10	19	8	0	0	19	0	0	0	0	0	0	16	BA
BE	0	0	0	0	0	108	0	0	0	0	2	22	0	0	8	0	58	18	0	0	0	0	1	0	0	0	0	0	0	0	0	0	BE
BG	3	0	1	0	32	0	964	1	0	0	4	4	0	0	5	0	2	1	0	71	2	5	0	0	9	0	1	0	0	0	2	5	BG
BY	1	0	2	1	24	3	21	189	1	0	27	27	2	8	12	3	8	8	0	6	4	8	0	0	8	0	6	17	0	1	1	2	BY
CH	0	0	1	0	2	2	1	0	18	0	1	17	0	0	19	0	26	3	-0	0	1	0	0	0	15	0	0	0	0	0	0	0	CH
CY	0	-0	0	0	0	0	0	0	0	3	0	0	0	0	0	-0	0	0	0	1	0	0	0	-0	0	0	0	0	0	-0	0	0	CY
CZ	0	0	6	0	10	6	3	1	1	0	218	78	0	0	11	0	15	7	0	1	2	6	0	0	6	0	0	0	0	0	0	1	CZ
DE	0	0	8	0	10	121	5	1	11	0	107	1009	6	1	81	1	210	104	0	2	2	4	5	0	14	0	1	1	2	0	0	1	DE
DK	0	0	0	0	1	4	0	0	0	0	4	19	14	0	4	0	7	21	0	0	0	0	1	0	1	0	0	0	0	0	0	0	DK
EE	0	0	0	0	1	1	1	3	0	0	3	6	1	29	2	6	2	3	0	1	0	0	0	0	1	0	1	4	0	1	0	0	EE
ES	0	0	1	0	7	4	3	0	1	0	3	10	0	0	1440	0	38	10	0	2	2	1	1	0	12	0	0	0	0	0	0	1	ES
FI	0	0	0	0	3	3	3	5	0	0	7	14	2	35	5	146	5	13	0	1	1	1	1	0	1	0	4	5	0	1	0	0	FI
FR	0	0	2	0	13	79	7	0	8	0	16	119	1	0	428	0	772	98	-0	2	3	2	7	0	38	0	0	0	1	0	0	1	FR
GB	0	0	0	0	1	12	1	0	0	0	3	18	1	0	25	0	29	581	-0	0	0	0	28	0	0	0	0	0	0	0	0	0	GB
GE	0	2	0	32	1	0	6	0	0	0	1	1	0	0	0	0	0	0	22	2	0	0	0	0	0	0	6	0	0	0	0	0	GE
GL	0	-0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	2	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	GL
GR	9	0	0	0	21	0	280	0	0	0	2	2	0	0	8	0	2	1	0	456	1	2	0	0	13	0	1	0	0	0	0	4	GR
HR	1	0	3	0	111	1	9	0	0	0	9	7	0	0	10	0	6	1	0	5	62	11	0	0	25	0	0	0	0	0	0	4	HR
HU	1	0	9	0	87	2	18	1	1	0	26	20	0	0	13	0	9	2	0	8	23	116	0	0	20	0	0	0	0	0	0	5	HU
IE	0	-0	0	0	0	1	0	0	0	0	1	3	0	0	2	0	4	20	-0	0	0	0	67	0	0	0	0	0	0	0	0	0	IE
IS	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	9	0	0	0	0	0	0	0	0	IS
IT	3	0	5	0	90	2	22	0	4	0	11	16	0	0	70	0	44	4	0	26	26	6	0	0	437	0	0	0	0	0	0	7	IT
KG	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	811	383	0	0	0	0	0	KG
KZT	1	5	1	46	19	1	50	6	0	1	7	8	0	4	7	2	4	3	4	19	2	3	0	0	5	603	6214	2	0	0	1	2	KZT
LT	0	0	1	0	4	2	3	8	0	0	9	15	1	2	5	1	4	5	0	1	1	2	0	0	2	0	1	46	0	1	0	0	LT
LU	0	0	0	0	0	3	0	0	0	0	0	3	0	0	1	0	6	1	-0	0	0	0	0	0	0	-0	0	0	0	0	0	0	LU
LV	0	0	0	0	3	2	3	8	0	0	6	12	1	6	3	3	4	5	0	1	1	1	0	0	1	0	1	20	0	5	0	0	LV
MD	0	0	0	0	8	0	21	1	0	0	2	2	0	0	1	0	1	1	0	5	1	2	0	0	1	0	1	0	0	0	17	1	MD
ME	4	0	0	0	17	0	6	0	0	0	1	1	0	0	3	0	1	0	0	6	1	1	0	0	6	0	0	0	0	0	0	32	ME
MK	6	0	0	0	8	0	54	0	0	0	1	1	0	0	2	0	1	0	0	75	1	1	0	0	4	-0	0	0	0	0	0	2	MK
MT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	MT
NL	0	0	0	0	0	45	0	0	0	0	1	31	0	0	6	0	29	29	-0	0	0	0	1	0	0	0	0	0	0	0	0	0	NL
NO	0	0	0	0	1	3	1	1	0	0	3	12	2	3	7	4	7	62	0	0	0	0	2	0	1	0	1	1	0	0	0	0	NO
PL	1	0	6	1	36	15	28	13	2	0	168	191	8	2	30	2	32	35	0	10	7	18	1	0	17	0	3	7	0	0	1	3	PL
PT	0	-0	0	-0	0	0	0	0	0	0	0	1	0	0	89	0	2	1	-0	0	0	0	0	-0	0	0	0	0	0	0	0	0	PT
RO	5	0	4	1	126	2	284	3	1	0	24	20	0	1	15	0	9	4	0	59	12	36	0	0	23	0	3	1	0	0	7	14	RO
RS	8	0	2	0	141	1	80	0	0	0	8	8	0	0	9	0	5	1	0	34	10	16	0	0	16	0	0	0	0	0	0	26	RS
RUE	5	7	9	101	153	17	307	165	3	2	102	122	8	249	65	117	48	61	14	87	16	33	3	1	34	105	4614	45	0	4	11	14	RUE
SE	0	0	1	0	4	8	4	5	0	0	12	37	14	10	12	21	13	48	0	2	1	1	2	0	2	0	2	5	0	0	0	0	SE
SI	0	0	3	0	12	0	3	0	0	0	4	4	0	0	4	0	3	0	0	1	14	2	0	0	21	0	0	0	0	0	0	0	SI
SK	0	0	4	0	26	2	7	1	1	0	36	16	0	0	6	0	5	2	0	3	5	25	0	0	7	0	0	0	0	0	0	2	SK
TJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	52	59	0	0	0	0	0	TJ
TM	0	1	0	11	1	0	2	0	0	0	0	0	-0	0	0	0	0	0	1	1	0	0	-0	-0	0	11	137	0	-0	-0	0	0	TM
TR	3	3	1	10	26	1	229	2	0	16	6	7	0	1	15	0	5	2	3	126	2	4	0	0	13	0	10	0	0	0	2	4	TR
UA	4	1	6	9	108	5	223	36	1	1	59	48	2	7	24	3	16	12	2	54	12	37	1	0	24	0	35	6	0	0	19	11	UA
UZ	0	1	0	6	1	0	2	0	0	0	0	0	-0	0	0	0	0	0	0	1	0	0	0	-0	0	85	338	0	-0	-0	0	0	UZ
ATL	0	0	2	1	11	48	11	6	2	0	32	106	4	23	1156	38	201	563	-0	4	2	3	111	30	8	1	59	4	0	0	0	1	ATL
BAS	0	0	2	0	11	19	9	8	1	0	35	112	28	38	21	53	30	53	0	3	2	4	2	0	5	0	4	17	0	2	0	1	BAS
BLS	3	1	2	10	50	1	359	6	0	2	13	12	0	2	9	1	5	4	7	83	4	10	0	0	11	0	16	1	0	0	9	6	BLS
MED	35	0	9	1	340	9	588	2	5	48	35	47	1	1	713	1	220	17	0	819	56	19	1	0	615	0	3	1	0	0	1	41	MED
NOS	0	0	1	0	7	66	4	2	1	0	18	126	15	3	70	2	154	1068	0	1	1	2	23	1	3	0	1	2	0	0	0	1	NOS
AST	0	5	0	164	7	0	21	1	0	14	3	2	0	1	4	0	1	1	4	16	1	1	0	-0	3	443	1152	0	0	0	0	1	AST
NOA	2	0	1	0	23	1	51	0	1	2	4	6	0	0	111	0	20	2	0	68	3	2	0	0	40	0	1	0	0	0	0	3	NOA
SUM	139	35	128	547	2037	611	3734	478	70	92	1073	2407	114	430	4563	408	2087	2888	63	2122	308	400	264	41	1517	2112	13073	191	6	16	74	220	SUM
EXC	98	29	112	371	1588	465	2691	452	60	26	934	1995	66	362	2479	313	1455	1180	52	1126	240	360	125	11	831	1667	11837	164	5	14	63	166	EXC
EU	24	0	85	3	504	429	1645	51	35	4	698	1727	51	90	2290	182	1322	1019	1	649	109	235	118	1	649	0	19	92	5	8	11	46	EU
emis	156	32	128	566	2153	632	4294	487	68	158	1085	2466	117	442	5541	415	2173	2953	63	2716	325	422	271	42	1694	2938	16544	193	7	17	78	239	emis
	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	ME	

Table C.1 Cont.: 2007 country-to-country blame matrices for **oxidised sulphur** deposition.
Units: 100 Mg of S. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	SUM	EXC	EU	
AL	26	0	0	0	2	0	6	34	0	0	0	0	0	0	2	2	0	0	0	0	21	0	0	3	4	1	67	308	211	89	AL
AM	0	0	0	0	0	0	1	0	1	0	0	0	0	1	55	1	1	0	0	0	1	0	20	0	4	0	18	130	88	3	AM
AT	1	0	2	0	39	1	10	11	1	0	7	4	0	0	0	5	0	1	1	0	9	5	0	2	16	1	10	355	309	265	AT
AZ	0	0	0	0	1	0	2	1	13	0	0	0	0	5	66	5	3	0	0	0	1	0	49	1	9	0	31	344	254	7	AZ
BA	4	0	0	0	16	0	18	76	1	0	1	4	0	0	1	5	0	0	0	0	18	1	0	2	8	1	50	776	695	120	BA
BE	0	0	11	0	4	0	1	0	0	0	0	0	-0	0	0	1	0	3	1	0	1	34	0	0	7	2	0	284	236	234	BE
BG	24	0	0	0	16	0	187	86	9	0	0	3	-0	0	32	48	0	0	0	8	19	1	2	5	12	2	155	1727	1522	1275	BG
BY	2	0	1	1	316	1	48	24	51	2	1	9	-0	0	10	143	1	1	13	1	6	8	2	1	26	3	67	1129	1001	539	BY
CH	0	0	1	0	2	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	5	3	0	1	9	1	3	135	113	91	CH
CY	0	0	0	-0	0	0	0	0	0	-0	0	0	-0	0	19	0	0	0	0	0	3	0	2	0	1	0	2	34	26	6	CY
CZ	1	0	2	0	118	1	7	10	1	0	1	12	0	0	1	9	0	1	2	0	3	7	0	1	13	1	8	576	539	501	CZ
DE	1	0	58	1	159	5	10	9	5	1	1	5	-0	0	1	13	0	13	57	0	11	149	0	2	69	14	12	2304	1975	1919	DE
DK	0	0	3	0	19	0	2	1	1	1	0	0	-0	0	0	3	0	2	41	0	1	38	0	0	9	6	2	209	111	103	DK
EE	0	0	1	0	26	0	3	2	12	1	0	1	0	0	2	9	0	1	21	0	1	4	0	0	5	2	7	165	125	93	EE
ES	1	0	1	0	7	72	3	4	1	0	0	1	0	0	0	1	0	60	0	0	84	6	0	17	72	16	32	1915	1628	1610	ES
FI	0	0	1	2	60	0	7	4	55	13	0	2	0	0	6	29	0	4	45	0	1	11	1	0	35	9	26	573	439	328	FI
FR	1	0	19	0	29	15	8	9	1	0	1	2	-0	0	0	4	0	69	4	0	56	126	0	8	109	33	28	2125	1691	1649	FR
GB	0	0	7	0	12	1	1	1	1	0	0	1	-0	0	0	3	0	64	3	0	0	103	0	0	67	38	3	1007	730	722	GB
GE	1	0	0	0	4	0	7	2	12	0	0	0	0	2	122	16	2	0	0	3	2	0	24	1	7	1	48	330	245	23	GE
GL	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	110	2	2	123	8	6	GL
GR	58	1	0	0	10	0	39	39	4	0	0	1	0	0	25	19	0	0	0	2	73	0	1	8	13	5	148	1253	1002	820	GR
HR	2	0	0	0	21	0	16	45	1	0	4	5	0	0	1	4	0	0	0	0	22	1	0	2	8	1	28	428	367	135	HR
HU	4	0	1	0	68	1	54	89	2	0	5	33	-0	0	2	17	0	1	1	0	12	2	0	2	14	1	43	712	635	403	HU
IE	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	4	0	0	25	13	2	169	103	102	IE
IS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	36	11	1	68	14	5	IS
IT	8	3	1	0	28	3	22	38	2	0	6	4	0	0	3	7	0	3	1	0	182	3	0	22	38	11	491	1647	898	709	IT
KG	0	0	0	0	0	0	0	0	9	0	0	0	24	7	9	2	452	0	0	0	0	0	45	0	16	0	52	1814	1701	3	KG
KZT	5	0	1	0	50	0	56	17	991	1	0	3	17	110	258	294	672	1	3	4	9	3	255	3	177	2	645	10599	9497	229	KZT
LT	0	0	1	0	102	0	7	4	12	1	0	2	0	0	2	15	0	1	14	0	1	6	0	0	9	2	13	311	264	214	LT
LU	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	19	16	16	LU
LV	0	0	1	0	57	0	6	3	11	2	0	2	0	0	2	14	0	1	17	0	1	5	0	0	8	3	11	233	185	140	LV
MD	2	0	0	0	17	0	59	9	5	0	0	2	0	0	7	49	0	0	0	2	2	0	0	1	4	0	23	247	215	115	MD
ME	3	0	0	0	2	0	4	19	0	0	0	0	0	0	1	1	0	0	0	0	9	0	0	1	2	0	25	148	110	33	ME
MK	61	0	0	0	3	0	10	32	1	0	0	1	-0	0	4	3	0	0	0	0	7	0	0	2	3	0	42	325	270	152	MK
MT	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	7	3	3	MT
NL	0	0	47	0	5	0	1	0	0	0	0	0	0	0	0	1	0	3	2	0	0	92	0	0	8	4	1	310	200	198	NL
NO	0	0	2	26	17	0	3	1	11	5	0	0	0	0	2	4	0	16	11	0	1	49	0	0	65	27	14	369	185	137	NO
PL	4	0	8	1	1942	2	51	43	21	3	3	33	-0	0	8	102	0	4	46	1	12	35	1	3	47	8	75	3090	2858	2612	PL
PT	0	0	0	-0	1	188	0	0	0	0	0	0	-0	0	0	0	0	43	0	0	3	1	0	1	14	5	1	350	284	283	PT
RO	25	0	1	0	102	1	1196	190	20	0	2	20	0	0	45	153	0	1	2	9	26	3	3	7	30	3	201	2694	2410	1805	RO
RS	25	0	0	0	22	0	100	456	2	0	1	6	0	0	6	14	0	0	0	1	16	1	0	3	11	1	104	1137	999	310	RS
RUE	28	1	8	7	763	3	430	139	12979	19	4	38	3	66	660	2330	179	23	96	32	49	48	204	15	816	44	1706	27211	24178	2579	RUE
SE	0	0	5	11	75	1	11	5	24	58	0	2	-0	0	5	20	0	8	94	0	2	70	1	1	61	19	26	704	422	344	SE
SI	0	0	0	0	8	0	5	7	0	0	13	2	0	0	0	2	0	0	0	0	8	0	0	1	3	0	4	126	109	73	SI
SK	1	0	1	0	119	0	21	25	2	0	2	63	0	0	1	14	0	0	1	0	4	2	0	1	8	1	15	432	400	322	SK
TJ	0	0	0	0	0	0	0	0	2	0	0	0	37	6	4	0	155	0	0	0	0	0	22	0	15	0	21	374	315	1	TJ
TM	0	0	0	-0	2	0	2	1	17	-0	0	0	2	162	52	7	182	-0	0	0	1	0	147	1	39	0	63	847	595	9	TM
TR	17	1	0	0	30	0	97	41	41	0	1	3	0	1	2602	125	1	1	1	27	119	1	188	28	73	11	363	4265	3452	557	TR
UA	18	0	2	1	518	1	420	117	240	1	3	38	0	4	130	2091	6	2	11	24	29	10	14	7	70	8	330	4862	4356	1510	UA
UZ	0	0	0	-0	2	0	2	1	20	-0	0	0	16	54	40	9	592	-0	0	0	1	0	75	0	31	0	73	1355	1173	9	UZ
ATL	2	0	18	27	116	99	19	10	318	12	1	5	0	1	7	56	2	1766	28	0	14	150	2	5	5042	2423	121	12673	3121	2586	ATL
BAS	1	0	11	4	277	1	24	13	51	38	1	6	-0	0	7	42	0	6	437	1	4	76	1	1	56	29	36	1588	940	793	BAS
BLS	19	0	1	0	88	0	328	71	155	0	1	8	0	2	495	563	2	1	3	168	41	3	29	8	42	31	320	3009	2363	944	BLS
MED	89	52	3	0	101	20	179	199	18	0	9	14	-0	0	786	92	0	15	3	13	3899	14	89	320	249	257	1161	11211	5191	3521	MED
NOS	1	0	70	17	90	3	11	6	10	5	0	3	-0	0	3	17	0	70	44	0	4	1083	0	1	182	194	21	3407	1808	1741	NOS
AST	3	0	0	-0	14	0	20	8	156	0	0	1	25	123	829	76	409	0	1	2	37	1	2535	16	278	4	455	6840	3511	104	AST
NOA	8	6	0	0	9	6	20	17	2	0	1	1	-0	0	50	9	0	3	0	1	324	2	9	405	138	28	88	1469	472	353	NOA
SUM	448	71	293	99	5495	433	3534	1923	15296	165	70	342	124	544	6364	6454	2663	2219	1010	301	5159	2166	3725	913	8223	3279	7290	120851			SUM
EXC	326	12	190	51	4800	302	2933	1599	14587	110	58	304	99	418	4187	5598	2248	357	493	116	836	836	1059	156	2237	313	5089		69161	23413	EXC
EU	131	8	173	17	3010	293	1651	582	186	82	42	193	0	1	156	491	2	305	354	22	518	709	12	82	696	197	1315		19120	16749	EU
emis	500	91	302	99	5655	850	3772	2141	18326	167	71	353	182	800	8058	6817	3876	2873	1025	330	6469	2208	7352	2065	0	3715	10000	137515	101478	36987	emis
	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	SUM	EXC	EU	

Table C.2: 2007 country-to-country blame matrices for **oxidised nitrogen** deposition.
Units: 100 Mg of N. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	ME	
AL	6	0	2	0	2	0	3	0	0	0	1	3	0	-0	5	0	4	2	0	21	1	1	0	0	23	-0	0	0	0	0	0	2	AL
AM	0	10	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	AM
AT	0	0	61	0	1	8	1	1	10	0	18	82	1	0	10	0	34	11	0	1	4	7	0	0	56	-0	0	0	1	0	0	0	AT
AZ	0	6	0	37	0	0	0	0	0	0	0	1	0	0	0	0	1	1	2	0	0	0	0	0	1	0	2	0	0	0	0	0	AZ
BA	1	0	10	0	20	2	2	0	2	0	8	18	1	0	9	0	12	5	0	5	10	12	0	0	52	-0	0	0	0	0	0	3	BA
BE	0	0	1	0	0	22	0	0	0	0	2	17	1	0	5	0	39	26	0	0	0	0	1	0	1	-0	0	0	0	0	0	0	BE
BG	2	0	6	0	4	2	96	1	1	0	7	15	1	0	5	0	8	6	0	39	2	10	0	0	22	-0	0	0	0	0	2	2	BG
BY	0	0	11	0	2	6	3	44	3	0	24	65	11	3	7	7	22	27	0	2	3	13	1	0	17	-0	1	16	0	5	2	0	BY
CH	0	0	3	-0	0	3	0	0	17	0	1	22	0	0	12	0	41	6	0	0	0	0	0	0	36	-0	0	0	0	0	0	0	CH
CY	0	0	0	0	0	0	0	0	0	2	0	0	0	-0	0	0	0	0	0	1	0	0	0	0	0	-0	0	0	0	0	0	0	CY
CZ	0	0	23	0	1	10	1	1	4	0	63	97	2	0	7	0	30	17	0	1	2	9	1	0	16	-0	0	1	1	0	0	0	CZ
DE	0	0	33	0	1	94	1	2	22	0	61	546	13	1	49	2	266	174	0	1	1	6	8	0	34	-0	0	2	7	1	0	0	DE
DK	0	0	1	0	0	6	0	1	1	0	3	23	11	0	2	0	12	38	0	0	0	0	1	0	1	-0	0	1	0	0	0	0	DK
EE	0	0	1	0	0	2	0	4	0	0	2	14	4	5	1	7	5	10	0	0	0	1	0	0	1	-0	0	3	0	3	0	0	EE
ES	0	0	6	-0	1	11	1	1	4	0	4	31	1	-0	884	0	114	36	-0	2	1	2	3	0	33	-0	-0	0	1	0	0	0	ES
FI	0	0	3	0	0	5	0	8	1	0	6	34	10	10	2	85	13	35	0	0	0	3	2	0	3	0	1	6	0	5	0	0	FI
FR	0	0	15	0	1	80	1	1	16	0	16	163	6	0	290	1	757	197	0	2	3	3	12	0	104	-0	0	1	5	0	0	0	FR
GB	0	0	1	0	0	13	0	1	1	0	4	24	5	0	12	1	38	294	0	0	0	1	29	0	2	-0	0	0	0	0	0	0	GB
GE	0	8	0	15	0	0	1	0	0	0	1	2	0	0	0	0	1	1	10	1	0	1	0	0	1	0	1	0	0	0	0	0	GE
GL	0	-0	0	-0	-0	0	-0	0	0	-0	0	1	0	0	0	0	1	3	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	GL
GR	5	0	4	0	3	1	37	1	1	0	4	11	1	0	9	0	10	5	-0	125	2	5	0	0	35	-0	0	0	0	0	1	2	GR
HR	1	0	14	0	9	2	1	0	2	0	9	20	1	0	9	0	15	4	0	3	18	12	0	0	59	-0	0	0	0	0	0	1	HR
HU	1	0	27	0	9	5	3	1	4	0	23	45	1	0	9	0	20	8	0	4	14	56	0	0	49	0	0	0	0	0	0	1	HU
IE	0	0	0	0	0	3	0	0	0	0	1	5	1	0	1	0	8	28	0	0	0	0	20	0	1	-0	0	0	0	0	-0	0	IE
IS	0	-0	0	-0	-0	0	0	0	0	-0	0	1	0	0	0	0	1	4	-0	0	0	0	0	2	0	0	0	0	0	0	0	0	IS
IT	2	0	34	0	14	7	3	1	14	0	16	58	2	0	93	1	126	19	0	14	21	14	1	0	641	-0	0	0	0	0	0	3	IT
KG	0	0	0	0	0	0	0	0	0	0	0	1	0	-0	0	0	1	1	0	0	0	0	0	0	0	16	57	0	0	0	0	0	KG
KZT	0	16	8	23	0	6	6	12	3	0	10	40	7	1	8	11	22	41	3	7	2	6	2	0	15	16	801	4	0	3	2	0	KZT
LT	0	0	3	0	0	4	0	7	1	0	8	32	8	1	2	2	11	14	0	0	1	3	1	0	4	-0	0	12	0	3	0	0	LT
LU	0	0	0	0	0	1	0	0	0	0	0	2	0	0	1	0	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LU
LV	0	0	2	0	0	4	0	6	1	0	5	27	6	2	2	4	10	13	0	0	0	2	1	0	3	-0	0	8	0	7	0	0	LV
MD	0	0	2	0	1	1	4	1	0	0	3	5	1	0	1	0	2	2	0	2	0	3	0	0	3	0	0	0	0	0	1	0	MD
ME	1	0	1	0	2	0	1	0	0	0	1	3	0	0	3	0	3	1	0	4	1	1	0	0	14	-0	-0	0	0	0	0	3	ME
MK	2	0	1	0	1	0	8	0	0	0	1	3	0	0	2	0	3	1	0	23	1	2	0	0	9	-0	0	0	0	0	0	1	MK
MT	0	0	0	-0	0	0	0	0	0	0	0	0	0	-0	0	0	0	0	-0	0	0	0	0	0	0	-0	-0	0	0	0	0	0	MT
NL	0	0	0	0	0	15	0	0	0	0	1	19	2	0	3	0	24	38	0	0	0	0	2	0	1	-0	0	0	0	0	0	0	NL
NO	0	0	1	0	-0	7	0	2	0	0	3	27	11	1	3	6	15	94	0	0	0	1	4	0	1	0	0	2	0	1	0	0	NO
PL	1	0	36	0	4	30	3	13	7	0	100	287	28	1	19	4	74	84	0	3	7	28	3	0	38	-0	1	7	2	2	1	1	PL
PT	0	0	0	0	-0	1	0	0	0	0	0	3	0	-0	83	0	11	5	0	0	0	0	0	0	2	-0	0	0	0	0	0	0	PT
RO	3	0	21	0	12	5	51	5	4	0	26	52	3	0	12	1	24	16	0	29	9	45	1	0	58	-0	0	1	0	1	5	4	RO
RS	3	0	11	0	12	2	14	1	2	0	11	24	1	0	8	0	12	7	0	20	5	19	0	0	39	-0	0	0	0	0	0	5	RS
RUE	2	23	56	45	6	48	37	194	16	1	94	348	68	57	42	183	155	279	11	33	12	55	12	2	92	2	659	63	3	40	14	3	RUE
SE	0	0	4	0	-0	14	0	6	2	0	11	75	34	5	6	25	30	104	0	0	0	3	4	0	4	-0	1	6	0	4	0	0	SE
SI	0	0	9	0	1	1	0	0	1	0	3	9	0	0	4	0	7	1	0	0	6	3	0	0	34	-0	0	0	0	0	0	0	SI
SK	0	0	13	0	3	4	1	1	2	0	22	32	1	0	4	0	12	7	0	1	5	22	0	0	20	0	0	0	0	0	0	0	SK
TJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	12	0	0	0	0	0	TJ
TM	0	5	1	8	0	1	0	1	0	0	1	4	0	0	1	1	3	4	1	1	0	1	0	0	2	1	40	0	0	0	0	0	TM
TR	2	15	10	6	3	3	39	4	2	6	9	27	2	0	15	1	19	15	4	62	3	10	1	0	36	-0	2	1	0	1	3	1	TR
UA	2	3	30	4	9	12	39	38	6	0	58	124	14	3	16	7	43	50	2	26	11	50	2	0	60	0	10	9	1	4	14	3	UA
UZ	0	3	1	4	0	1	0	1	0	0	1	4	1	0	1	1	2	4	1	1	0	1	0	0	2	3	74	0	0	0	0	0	UZ
ATL	0	0	19	-0	-0	101	1	14	12	0	38	275	41	9	396	56	490	904	-0	3	1	7	124	12	29	0	12	8	4	6	1	0	ATL
BAS	0	0	11	0	0	26	1	11	4	0	27	157	44	9	11	32	55	100	0	1	1	7	4	0	10	-0	1	13	1	8	1	0	BAS
BLS	2	5	12	4	4	5	56	11	2	1	16	41	5	0	7	3	18	24	7	39	4	17	1	0	30	-0	4	3	0	1	9	2	BLS
MED	25	1	86	0	39	34	92	6	32	18	54	218	9	-0	815	4	544	105	0	384	53	51	6	0	1159	-0	1	3	3	2	3	16	MED
NOS	0	0	6	0	0	52	1	4	3	0	15	141	35	2	36	4	143	683	0	1	1	3	32	1	8	-0	1	3	1	2	0	0	NOS
AST	1	21	4	63	0	2	4	4	1	10	4	16	2	0	7	2	11	14	5	13	1	4	1	0	15	11	161	1	0	1	1	0	AST
NOA	5	0	18	0	2	9	19	1	8	2	10	52	2	-0	234	1	120	28	0	90	7	9	2	0	201	-0	0	1	1	0	1	3	NOA
SUM	71	119	624	219	165	672	533	413	216	40	805	3350	400	110	3165	455	3447	3598	47	966	215	509	286	23	3074	50	1845	180	36	102	62	59	SUM
EXC	38	91	468	151	120	443	359	362	153	9	641	2450	261	90	1660	355	2066	1739	36	436	147	412	116	9	1623	39	1666	149	25	82	47	38	EXC
EU	16	1	306	1	54	348	201	62	98	2	406	1707	141	26	1516	137	1688	1188	1	225	80	224	91	3	1160	-0	6	51	20	28	11	14	EU
emis	81	129	670	280	156	793	568	490	238	60	864	3908	507	105	4131	556	4095	4522	85	1137	250	578	357	38	3492	67	2305	211	42	130	76	64	emis
	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	ME	

Table C.2 Cont.: 2007 country-to-country blame matrices for **oxidised nitrogen** deposition.
Units: 100 Mg of N. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	SUM	EXC	EU	
AL	4	0	0	0	2	0	2	7	1	0	0	0	-0	0	1	1	-0	1	0	0	25	1	0	0	1	0	0	123	95	71	AL
AM	0	0	0	0	0	0	0	0	2	0	0	0	0	0	10	0	0	0	0	0	0	0	2	0	2	-0	0	37	33	2	AM
AT	0	0	8	1	17	1	3	2	2	1	8	2	0	0	0	2	0	2	2	0	9	9	0	0	6	0	0	383	355	331	AT
AZ	0	0	0	0	1	0	1	0	20	0	0	0	0	1	13	2	1	0	0	0	1	0	7	0	5	-0	0	106	91	6	AZ
BA	1	0	2	0	12	0	5	14	2	0	2	3	0	0	0	2	0	1	1	0	22	3	0	0	1	-0	0	245	217	160	BA
BE	0	0	8	0	2	0	0	0	1	0	0	0	0	0	0	0	0	4	1	0	0	20	0	0	6	0	0	162	129	127	BE
BG	6	0	2	1	15	0	53	19	15	1	1	3	0	0	15	22	0	1	2	8	24	3	0	0	3	-0	0	429	388	294	BG
BY	0	0	10	5	155	1	16	4	81	8	2	8	0	0	5	59	0	4	26	1	4	21	0	0	8	-0	0	714	650	440	BY
CH	0	0	3	0	1	1	0	0	0	0	0	0	-0	0	0	0	0	1	0	0	5	4	0	0	3	0	0	162	149	130	CH
CY	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	11	0	0	0	0	0	4	0	0	0	0	-0	0	21	16	5	CY
CZ	0	0	10	1	43	1	3	2	3	1	3	5	0	0	0	4	0	3	4	0	3	13	0	0	8	0	0	393	362	342	CZ
DE	0	0	86	6	78	4	3	1	12	7	2	3	0	0	1	6	0	24	34	0	10	135	0	0	46	2	0	1784	1533	1480	DE
DK	0	0	9	3	10	0	0	0	2	3	0	0	0	0	0	1	0	3	15	0	0	34	0	0	5	0	0	189	131	124	DK
EE	0	0	3	2	16	0	1	0	19	5	0	1	0	0	0	4	0	1	17	0	0	8	0	0	2	-0	0	147	118	87	EE
ES	0	0	10	1	6	81	1	1	3	1	1	1	-0	-0	0	1	-0	69	2	0	82	19	-0	2	39	0	1	1457	1243	1230	ES
FI	0	0	8	13	36	0	2	0	74	27	0	2	0	0	2	8	0	7	46	0	1	27	0	0	12	-0	0	501	408	299	FI
FR	0	0	53	4	19	16	2	1	7	3	3	2	0	0	1	2	0	83	8	0	57	141	0	1	55	-1	0	2130	1785	1748	FR
GB	0	0	15	5	9	1	1	0	4	2	0	0	0	0	0	2	0	48	7	0	1	70	0	0	33	1	0	626	466	453	GB
GE	0	0	0	0	2	0	2	0	18	0	0	0	0	0	24	5	0	0	0	2	1	1	3	0	1	-0	0	107	98	14	GE
GL	0	0	0	1	0	0	-0	-0	2	0	0	0	0	0	0	0	0	1	0	0	0	1	0	-0	77	0	0	92	12	9	GL
GR	10	0	2	1	9	0	14	12	7	0	1	2	-0	0	14	8	0	1	1	4	85	3	0	1	2	-0	0	442	344	278	GR
HR	1	0	2	0	13	0	5	9	2	0	4	3	0	0	0	2	0	1	1	0	22	3	0	0	2	-0	0	252	222	178	HR
HU	1	0	5	1	43	1	17	19	4	1	6	13	0	0	1	8	0	2	2	0	13	7	0	0	5	-0	0	432	403	339	HU
IE	0	0	3	1	2	0	0	0	1	0	0	0	0	0	0	0	0	13	1	0	0	8	0	0	10	-0	0	107	74	72	IE
IS	0	0	0	0	0	0	0	0	1	0	0	0	0	-0	0	0	0	3	0	0	0	1	-0	0	13	0	0	29	12	9	IS
IT	2	1	8	1	23	4	7	10	5	1	13	5	-0	0	1	3	-0	7	3	0	206	12	0	2	15	-0	2	1418	1171	1092	IT
KG	0	0	0	0	0	0	0	0	6	0	0	0	19	1	2	0	89	0	0	0	0	0	7	0	6	-0	0	210	195	4	KG
KZT	1	0	9	11	37	1	14	2	1167	9	1	4	15	21	64	107	111	12	16	7	11	20	41	0	38	-1	1	2793	2647	270	KZT
LT	0	0	5	3	49	0	2	1	18	6	0	2	0	0	1	7	0	2	20	0	1	13	0	0	3	0	0	249	209	172	LT
LU	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	16	13	13	LU
LV	0	0	5	3	33	0	2	0	20	7	0	1	0	0	1	6	0	2	21	0	1	12	0	0	3	0	0	223	184	145	LV
MD	0	0	1	0	12	0	16	2	9	0	0	1	0	0	3	19	0	0	1	2	2	1	0	0	0	-0	0	105	97	59	MD
ME	1	0	0	0	1	0	1	4	0	0	0	0	0	0	0	0	-0	0	0	0	10	1	0	0	0	-0	0	61	50	36	ME
MK	7	0	0	0	2	0	3	7	1	0	0	1	0	0	2	1	0	0	0	0	8	1	0	0	1	-0	0	95	84	62	MK
MT	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	-0	0	0	0	1	0	0	0	0	0	0	3	1	1	MT
NL	0	0	19	1	2	0	0	0	1	1	0	0	0	0	0	0	0	5	3	0	0	31	0	0	8	0	0	180	132	129	NL
NO	0	0	11	44	12	0	0	0	14	12	0	0	0	0	1	2	0	13	16	0	1	51	0	0	22	0	0	382	278	214	NO
PL	1	0	42	9	416	2	15	8	31	13	6	20	0	0	3	36	0	10	57	1	10	73	0	0	28	0	0	1563	1384	1262	PL
PT	0	0	1	0	1	91	0	0	0	0	0	0	0	0	0	0	0	46	0	0	3	2	0	0	11	0	0	263	201	199	PT
RO	6	0	7	2	72	1	209	35	28	2	4	16	0	0	17	64	0	3	6	9	27	10	0	0	6	-0	0	914	852	656	RO
RS	6	0	3	1	19	0	27	53	3	0	2	5	0	0	2	5	0	1	2	1	18	4	0	0	2	-0	0	353	325	227	RS
RUE	4	0	71	75	435	3	111	19	7850	88	9	33	2	10	195	745	23	66	192	33	50	167	28	1	237	-2	4	13103	12329	2417	RUE
SE	0	0	22	34	45	0	2	0	41	62	1	2	0	0	1	7	0	13	77	0	1	92	0	0	24	0	0	768	559	465	SE
SI	0	0	1	0	5	0	1	1	1	0	5	1	0	0	0	1	0	0	0	0	8	1	0	0	1	-0	0	111	99	88	SI
SK	0	0	4	1	46	0	7	6	2	1	3	9	0	0	0	5	0	1	2	0	4	5	0	0	3	-0	0	254	238	212	SK
TJ	0	0	0	0	0	0	0	0	2	0	0	0	25	2	1	0	33	0	0	0	0	0	7	0	10	-0	0	95	78	2	TJ
TM	0	0	1	1	2	0	1	0	59	1	0	0	4	35	15	5	46	1	1	1	2	2	32	0	40	-0	0	325	246	25	TM
TR	5	0	5	2	25	1	39	11	85	1	2	4	0	0	783	63	0	4	4	38	131	8	17	3	11	-0	1	1549	1330	335	TR
UA	4	0	19	8	289	1	136	23	326	9	6	30	0	1	60	515	1	8	27	25	30	32	2	1	12	-0	0	2215	2078	1037	UA
UZ	0	0	1	1	3	0	1	0	62	1	0	0	15	12	10	6	98	1	1	1	1	2	17	0	23	-0	0	358	312	23	UZ
ATL	0	0	102	88	96	73	4	0	371	39	2	5	0	-0	2	21	0	751	68	1	18	323	0	0	2193	8	3	6731	3365	2831	ATL
BAS	0	0	34	18	119	1	5	1	65	47	1	5	0	0	2	13	0	12	139	0	3	96	0	0	19	1	0	1116	844	726	BAS
BLS	4	0	7	4	60	0	96	15	229	4	2	8	0	0	202	197	0	5	9	76	45	13	3	1	-16	-0	0	1296	1160	456	BLS
MED	25	21	38	9	85	26	67	56	54	6	25	18	-0	-0	379	46	-0	45	16	24	2581	61	11	32	91	1	6	7485	4616	3870	MED
NOS	0	0	70	42	49	4	3	1	19	16	0	2	0	0	1	6	0	77	47	0	4	343	0	0	80	6	1	1948	1390	1310	NOS
AST	1	0	3	3	13	1	9	2	240	2	1	2	26	25	318	33	81	4	4	6	75	7	246	3	259	-0	1	1748	1142	144	AST
NOA	5	6	10	3	16	11	15	9	13	1	4	3	-0	0	61	9	0	14	3	4	696	15	2	43	227	-0	-1	1997	994	865	NOA
SUM	99	30	742	409	2460	328	922	359	11005	391	124	228	106	109	2229	2061	483	1379	907	246	4320	1934	427	94	3703	16	26	60993			SUM
EXC	63	3	478	243	2023	213	725	275	10014	276	89	185	81	83	1263	1736	402	471	621	135	898	1076	165	14	849	-0	15		34429	17375	EXC
EU	29	2	337	92	997	204	344	120	304	144	58	91	0	0	71	197	0	351	330	24	553	751	1	8	333	3	6		12802	11644	EU
emis	106	35	913	585	2692	708	1008	395	13267	503	136	253	174	198	2818	2228	691	2546	1066	279	5636	2296	1310	292	0	0	0	71119	57695	32975	emis
	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	SUM	EXC	EU	

Table C.3: 2007 country-to-country blame matrices for **reduced nitrogen** deposition.
Units: 100 Mg of N. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	ME	
AL	56	0	1	0	-1	0	0	0	0	0	0	2	0	0	3	0	2	0	0	11	1	1	0	0	12	0	0	0	0	0	0	3	AL
AM	0	47	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	AM
AT	0	0	173	0	1	3	0	1	31	0	13	158	1	0	10	0	22	2	0	0	5	8	0	0	81	0	0	0	0	0	0	0	AT
AZ	0	16	0	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	-0	0	0	8	0	0	0	0	0	AZ
BA	2	0	7	0	39	0	1	0	2	0	3	11	0	0	6	0	5	1	0	3	31	11	0	0	38	0	0	0	0	0	0	4	BA
BE	0	0	1	0	0	148	0	0	1	-0	0	26	1	0	3	-0	80	14	-0	0	0	0	1	-0	1	-0	0	0	4	0	0	0	BE
BG	4	0	3	0	1	0	142	2	1	0	2	7	0	0	3	0	2	1	0	24	3	5	0	0	11	0	2	0	0	0	3	1	BG
BY	1	0	5	1	2	2	3	529	3	0	9	42	5	1	7	1	11	4	0	1	4	10	1	0	18	0	9	31	0	7	5	1	BY
CH	0	0	3	0	0	1	0	0	202	0	0	34	0	0	11	0	51	1	0	0	0	0	0	0	50	0	0	0	0	0	0	0	CH
CY	0	0	0	0	-0	0	-0	0	0	3	0	0	0	-0	0	0	0	0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	CY
CZ	0	0	33	0	1	3	0	1	8	0	165	167	2	0	6	0	18	3	0	0	3	7	1	0	17	-0	0	0	0	0	0	0	CZ
DE	0	0	37	0	1	90	0	3	76	0	29	2517	24	0	42	0	259	51	0	1	2	4	8	0	38	-0	1	1	16	0	0	0	DE
DK	0	0	1	0	0	3	0	1	1	0	1	55	168	0	2	0	9	10	0	0	0	0	1	0	1	-0	0	0	0	0	0	0	DK
EE	0	0	1	0	0	1	0	6	0	0	1	10	2	28	1	2	3	2	0	0	0	1	0	0	2	0	2	5	0	7	0	0	EE
ES	0	0	4	0	-0	4	0	0	4	0	2	20	1	0	1455	0	131	8	-0	0	1	2	2	0	24	0	0	0	0	0	0	0	ES
FI	0	0	2	0	1	2	0	11	1	0	3	22	5	5	3	164	7	6	0	0	1	2	1	0	3	0	4	5	0	3	1	0	FI
FR	0	0	13	0	1	64	1	1	44	0	4	135	3	0	213	0	3315	61	0	1	3	3	14	0	109	-0	0	0	6	0	0	0	FR
GB	0	-0	1	-0	0	8	0	1	1	0	1	24	3	0	8	0	59	929	-0	0	0	0	92	0	1	0	0	0	0	0	0	0	GB
GE	0	14	0	34	0	0	1	1	0	0	0	1	0	0	0	0	0	0	75	1	0	0	0	0	1	0	4	0	0	0	0	0	GE
GL	0	0	0	0	0	0	0	0	0	-0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	GL
GR	12	0	2	0	-0	0	12	1	1	0	1	5	0	0	5	0	3	1	0	171	2	3	0	0	14	0	1	0	0	0	1	1	GR
HR	1	0	12	0	7	0	1	0	3	0	3	13	0	0	6	0	6	1	0	2	94	18	0	0	53	0	0	0	0	0	0	1	HR
HU	1	0	33	0	2	1	1	1	5	0	9	34	1	0	8	0	9	1	0	2	37	197	0	0	43	-0	0	0	0	0	1	1	HU
IE	0	0	0	0	0	1	0	0	0	0	0	4	0	0	1	0	8	29	0	0	0	0	348	0	0	0	0	0	0	0	0	0	IE
IS	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	11	0	-0	0	0	0	0	0	0	IS
IT	4	0	17	0	-2	2	1	0	22	0	3	32	0	0	45	0	55	3	0	7	11	9	0	0	1587	0	0	0	0	0	0	2	IT
KG	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	73	0	0	0	0	0	KG
KZT	1	16	2	36	1	1	4	10	2	0	3	12	1	1	5	1	5	2	12	3	1	3	0	0	10	41	3333	2	0	1	2	0	KZT
LT	0	0	2	0	1	1	0	31	1	0	4	23	5	0	3	0	6	3	0	0	1	2	0	0	4	0	1	107	0	7	1	0	LT
LU	0	0	0	0	0	5	0	0	0	0	0	5	0	0	1	-0	11	1	-0	0	0	0	0	-0	0	0	0	0	5	-0	0	0	LU
LV	0	0	1	0	0	1	0	19	1	0	2	19	4	2	2	1	5	2	0	0	1	1	0	0	3	0	2	27	0	45	0	0	LV
MD	0	0	1	0	0	0	2	2	0	0	1	3	0	0	1	0	1	0	0	1	1	2	0	0	2	0	1	0	0	0	46	0	MD
ME	6	0	1	0	1	0	1	0	0	0	0	2	0	0	2	0	1	0	0	2	1	1	0	0	9	0	0	0	0	0	0	19	ME
MK	8	0	1	0	-0	0	3	0	0	0	0	2	0	0	1	0	1	0	0	17	1	1	0	-0	5	-0	0	0	0	0	0	0	MK
MT	0	0	0	0	-0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	-0	0	0	0	0	0	0	MT
NL	0	-0	0	-0	0	47	0	0	1	0	-0	76	1	-0	2	-0	32	20	-0	0	0	0	2	-0	0	0	0	0	0	0	0	0	NL
NO	0	0	1	0	0	3	0	2	0	0	1	23	12	0	3	2	12	22	0	0	0	0	4	0	1	0	1	1	0	1	0	0	NO
PL	1	0	23	0	2	9	5	45	9	0	65	316	26	0	18	0	37	17	0	3	8	21	2	0	39	0	4	11	1	2	3	1	PL
PT	0	0	0	0	-0	0	-0	0	0	0	0	2	0	0	67	0	8	1	-0	0	0	0	0	0	1	0	0	0	0	0	0	-0	PT
RO	6	0	13	1	3	1	28	8	4	0	8	32	1	0	10	0	8	2	1	13	13	51	0	0	40	0	3	1	0	0	23	3	RO
RS	12	0	7	0	4	0	5	1	2	0	3	13	0	0	6	0	4	1	0	9	22	25	0	0	28	-0	0	0	0	0	1	6	RS
RUE	6	25	24	71	15	12	35	312	13	1	38	172	24	22	38	52	61	33	52	17	14	33	4	0	68	10	2085	54	1	29	26	4	RUE
SE	0	0	3	0	1	6	1	10	2	0	5	72	54	2	6	12	19	18	0	1	1	2	3	0	4	0	2	6	0	3	1	0	SE
SI	0	0	13	0	0	0	0	0	2	0	1	7	0	0	3	0	3	0	0	0	8	4	0	0	41	0	0	0	0	0	0	0	SI
SK	1	0	18	0	1	1	1	1	3	0	17	26	1	0	4	0	5	1	0	1	6	30	0	0	17	-0	0	0	0	0	0	0	SK
TJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	0	0	0	0	0	TJ
TM	0	3	0	8	-0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	-0	1	0	46	0	0	0	0	0	TM
TR	4	17	4	10	0	1	12	4	1	4	3	12	1	0	10	0	5	1	9	16	3	5	0	0	16	0	9	1	0	0	4	1	TR
UA	5	3	15	7	7	3	28	108	6	0	21	73	5	0	14	1	16	7	6	11	12	39	1	0	47	0	46	8	0	2	59	3	UA
UZ	0	2	0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	-0	1	4	71	0	0	0	0	0	UZ
ATL	0	0	16	0	2	45	2	11	14	0	17	216	21	3	251	14	855	490	0	1	2	5	319	19	22	0	21	4	3	2	1	0	ATL
BAS	0	0	8	0	2	11	2	21	4	0	14	258	145	10	13	33	36	21	0	2	3	6	3	0	12	-0	5	22	1	13	1	0	BAS
BLS	4	6	6	10	3	1	52	12	1	1	5	21	2	0	6	0	5	3	21	16	4	10	0	0	17	0	19	2	0	1	20	1	BLS
MED	39	0	35	1	7	10	26	4	30	16	15	100	3	0	494	0	355	19	1	109	30	24	2	0	833	0	4	1	1	0	4	12	MED
NOS	0	0	4	0	1	64	1	5	5	0	5	260	90	1	27	1	354	553	0	1	1	2	50	0	6	-0	1	2	2	1	0	0	NOS
AST	1	20	1	74	-0	0	0	2	1	1	1	4	0	0	3	0	2	1	12	0	1	1	0	-0	5	20	532	0	0	0	1	0	AST
NOA	3	0	3	0	1	2	2	0	3	0	2	13	0	0	75	0	41	3	0	5	2	2	0	0	51	0	1	0	0	0	1	1	NOA
SUM	181	172	552	447	107	561	375	1171	511	27	480	5081	614	78	2905	288	5945	2352	208	453	333	553	865	32	3389	156	6302	297	43	125	208	69	SUM
EXC	133	146	478	361	91	427	291	1114	453	9	422	4209	352	63	2037	239	4298	1261	173	319	291	502	490	12	2442	135	5720	265	37	108	179	53	EXC
EU	32	1	395	3	13	402	194	144	217	3	336	3791	302	39	1922	181	4114	1185	2	227	107	352	479	1	2082	0	24	167	35	69	35	10	EU
emis	201	156	547	436	137	578	479	1183	492	44	492	5141	618	80	3477	290	6072	2381	192	537	354	581	869	30	3443	226	7016	299	43	126	219	76	emis
	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	ME	

Table C.3 Cont.: 2007 country-to-country blame matrices for **reduced nitrogen** deposition. Units: 100 Mg of N. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	SUM	EXC	EU	
AL	1	0	0	0	0	0	2	6	0	0	0	0	-0	0	1	1	0	0	0	0	-1	0	0	3	1	0	-0	106	103	34	AL
AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	34	0	-0	0	0	-0	0	0	24	0	1	0	-1	140	115	1	AM
AT	0	0	5	0	6	1	4	1	1	0	16	5	0	0	0	1	0	0	0	0	1	0	0	1	4	0	0	557	550	509	AT
AZ	0	0	0	0	0	0	1	0	12	0	0	0	0	2	25	1	0	-0	0	-0	0	0	31	0	2	0	-1	269	236	3	AZ
BA	0	0	1	0	3	0	6	10	1	0	2	3	0	0	1	1	0	0	0	0	0	0	0	2	2	0	-0	198	193	102	BA
BE	0	0	44	0	1	0	0	0	0	0	0	0	-0	0	0	0	0	0	-0	0	0	-2	0	0	1	0	-0	326	326	324	BE
BG	3	0	0	0	4	0	54	15	5	0	1	2	-0	0	14	11	0	0	0	-0	1	0	1	4	3	0	0	338	328	262	BG
BY	0	0	4	1	132	1	25	5	25	4	2	5	0	0	5	56	0	1	-1	0	1	1	1	1	8	0	-0	989	978	330	BY
CH	0	0	2	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	365	361	158	CH
CY	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	4	0	0	0	0	-0	-0	0	1	0	0	-0	-0	8	7	4	CY
CZ	0	0	7	0	29	0	3	1	1	1	2	13	-0	0	0	2	0	0	-0	0	1	-0	0	0	3	0	-0	501	497	479	CZ
DE	0	0	266	0	49	3	4	2	1	3	1	4	-0	0	0	3	0	2	-4	0	2	-12	0	1	12	2	-0	3542	3539	3449	DE
DK	0	0	10	1	7	0	1	0	1	4	0	0	-0	0	0	1	0	0	-2	0	0	-3	0	0	2	-0	0	277	279	275	DK
EE	0	0	1	0	11	0	1	0	5	4	0	1	0	0	1	3	0	0	-0	0	0	1	0	0	2	0	0	106	103	83	EE
ES	0	0	5	0	4	53	1	0	0	0	1	1	0	0	0	1	0	-8	0	0	-5	1	0	9	12	-2	-3	1732	1728	1720	ES
FI	0	0	3	4	25	0	4	1	19	14	0	1	0	0	3	10	0	0	1	0	0	2	1	0	9	0	0	352	338	282	FI
FR	0	0	44	0	8	10	3	2	0	0	2	2	-0	0	0	2	0	-15	0	0	-1	-24	0	4	22	-11	-1	4041	4065	4012	FR
GB	0	0	13	0	3	1	1	0	1	1	0	0	0	0	0	1	0	-3	-0	-0	0	-5	0	0	14	-3	-0	1153	1151	1146	GB
GE	0	0	0	0	1	0	2	0	20	0	0	0	0	1	64	4	0	0	0	0	0	0	15	1	2	0	-1	245	227	9	GE
GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0	35	6	5	GL
GR	3	0	0	0	3	0	11	6	2	0	0	1	0	0	14	4	0	0	0	-0	-1	0	0	7	4	-0	-1	289	280	233	GR
HR	0	0	1	0	3	0	5	6	0	0	11	3	-0	0	0	1	0	0	-0	0	-0	0	0	1	2	0	0	257	253	139	HR
HU	1	0	2	0	8	1	29	16	1	0	11	27	-0	0	1	3	-0	0	-0	0	0	0	0	2	3	0	-0	492	487	417	HU
IE	0	0	1	-0	1	0	0	0	0	0	0	0	-0	0	0	0	0	-3	-0	-0	0	-1	0	0	5	-6	0	390	394	394	IE
IS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	9	-0	0	25	16	5	IS
IT	0	0	3	0	4	2	7	4	1	0	12	3	-0	0	2	2	0	1	0	0	-14	1	0	13	7	-1	-3	1845	1841	1794	IT
KG	0	0	0	0	0	0	0	0	4	0	0	0	33	3	3	1	79	0	0	0	0	0	36	0	5	0	0	316	275	2	KG
KZT	0	0	1	0	17	0	16	3	332	1	1	2	23	44	95	30	110	0	1	0	1	1	217	2	45	1	-4	4450	4186	91	KZT
LT	0	0	3	1	52	0	4	1	7	4	0	2	0	0	1	5	0	0	-1	0	0	1	0	0	3	0	0	288	284	234	LT
LU	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	-0	0	0	0	0	-0	29	29	29	LU
LV	0	0	3	1	24	0	3	1	5	5	0	1	0	0	1	4	0	0	-1	0	0	1	0	0	2	0	0	194	190	154	LV
MD	0	0	0	0	4	0	40	2	2	0	0	1	-0	0	3	20	0	0	-0	-0	0	0	0	0	1	0	0	140	138	59	MD
ME	0	0	0	0	0	0	1	5	0	0	0	0	-0	0	0	0	0	0	0	0	0	0	0	1	1	0	-0	56	54	21	ME
MK	13	0	0	0	1	0	3	8	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	1	1	0	-0	71	69	35	MK
MT	-0	1	0	0	0	0	0	0	0	0	0	0	-0	-0	0	0	-0	0	0	0	-0	0	0	0	0	-0	-0	1	2	2	MT
NL	0	0	321	-0	1	0	0	0	-0	0	0	0	-0	-0	0	0	0	0	-1	-0	0	-7	0	0	0	-0	-0	498	505	504	NL
NO	0	0	6	86	7	0	1	0	3	9	0	0	0	0	1	1	0	1	1	0	0	2	0	0	17	-0	0	228	207	111	NO
PL	1	0	25	1	1146	1	25	7	11	9	5	21	0	0	4	30	0	1	-4	0	3	-0	1	2	11	1	0	1969	1955	1826	PL
PT	-0	0	0	0	0	145	0	-0	0	0	0	0	0	0	0	0	0	-4	0	0	-0	0	0	0	3	-1	-0	223	226	225	PT
RO	3	0	2	0	21	1	666	36	9	0	3	12	-0	0	18	42	0	0	0	-0	2	0	2	5	8	0	0	1107	1088	914	RO
RS	4	0	1	0	4	0	38	149	1	0	2	4	-0	0	3	4	0	0	0	0	0	0	0	3	3	0	-0	365	359	149	RS
RUE	3	0	18	10	266	2	157	31	5936	29	5	20	4	27	267	440	32	4	13	2	8	14	154	11	205	5	12	11025	10596	1215	RUE
SE	0	0	13	21	33	0	5	1	10	201	0	2	-0	0	3	8	0	1	-1	0	1	2	1	1	16	0	0	551	532	472	SE
SI	0	0	0	-0	1	0	2	1	0	0	40	1	0	0	0	0	0	0	-0	0	0	-0	0	0	1	0	0	130	129	116	SI
SK	0	0	2	0	23	0	10	4	1	0	3	73	-0	0	0	3	0	0	0	0	1	0	0	0	2	0	0	256	252	232	SK
TJ	0	0	0	0	0	0	0	0	1	0	0	0	81	2	1	0	20	-0	0	0	0	0	41	0	4	0	-1	162	118	0	TJ
TM	0	0	0	0	0	0	1	0	9	0	0	0	3	90	15	1	22	-0	0	0	0	0	46	0	10	0	-2	259	203	4	TM
TR	1	0	1	0	10	0	25	6	26	0	1	2	0	1	1281	25	0	0	0	-2	-2	1	116	18	20	-0	-11	1669	1530	130	TR
UA	3	0	7	1	161	1	193	24	110	3	4	21	0	2	59	737	2	1	0	-1	4	2	8	6	20	1	1	1924	1882	684	UA
UZ	0	0	0	-0	0	0	1	0	10	0	0	0	24	23	13	1	138	-0	0	0	0	0	32	0	8	0	-1	337	298	4	UZ
ATL	0	0	58	32	57	60	10	3	74	11	1	5	0	0	3	18	0	-13	8	0	3	19	1	3	1350	-1	1	4064	2693	2490	ATL
BAS	0	0	29	7	126	1	12	4	19	93	2	4	-0	0	5	17	0	1	-15	0	1	-2	1	1	14	-1	1	967	965	875	BAS
BLS	2	0	2	0	23	0	100	14	88	1	1	5	0	1	203	110	1	0	1	-4	3	1	18	6	11	-0	2	838	801	280	BLS
MED	6	7	14	1	25	15	47	30	11	1	17	10	0	0	358	18	0	3	1	-1	-70	7	61	209	62	-4	-7	2998	2736	2180	MED
NOS	0	0	151	21	28	2	5	2	4	13	0	2	-0	0	1	6	0	3	-2	0	1	-22	0	1	41	1	0	1698	1674	1625	NOS
AST	0	0	0	0	4	0	6	1	83	0	0	1	39	49	151	7	49	-0	0	-0	-5	0	2691	6	68	-0	-21	3815	1075	33	AST
NOA	0	1	2	0	4	5	7	3	1	0	1	1	0	0	17	2	0	1	0	-0	-28	1	2	508	30	-2	-7	761	256	220	NOA
SUM	49	11	1075	189	2340	310	1541	413	6856	414	152	260	207	245	2678	1639	454	-23	-4	-5	-88	-18	3502	836	2122	-19	-47	59967			SUM
EXC	41	3	819	128	2073	227	1355	356	6574	295	129	233	168	195	1941	1460	404	-18	2	-0	7	-22	728	102	546	-13	-15		43511	23383	EXC
EU	13	2	775	30	1462	220	838	100	81	248	100	171	-0	1	67	137	1	-26	-13	-0	-8	-45	6	51	149	-20	-7		21107	20089	EU
emis	59	15	1097	186	2405	463	1632	468	7499	415	152	267	283	363	3366	1751	672	0	0	0	0	0	7258	1935	0	0	0	67103	57910	32544	emis
	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	SUM	EXC	EU	

Table C.4: 2007 country-to-country blame matrices for $\mathbf{AOT40}_f^{\mathbf{uc}}$.
Units: ppb.h per 15% emis. red. of NO_x. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	
AL	479	1	61	1	89	5	122	8	14	0	25	81	2	0	97	2	134	37	1	223	65	58	5	1	510	0	1	3	1	1	5	AL
AM	0	290	3	241	1	1	6	6	1	1	3	9	1	1	8	2	9	7	77	5	1	4	1	0	7	0	19	1	0	1	2	AM
AT	1	0	404	0	8	-6	9	6	81	0	68	342	3	0	111	2	271	16	0	5	34	66	7	1	326	0	0	2	2	1	2	AT
AZ	1	49	4	662	1	2	7	10	1	1	5	15	2	1	10	5	14	14	65	5	1	7	1	0	9	0	79	3	0	2	2	AZ
BA	10	1	119	1	466	5	38	9	20	0	62	125	3	0	133	3	182	34	1	28	221	152	5	1	582	0	1	3	1	1	4	BA
BE	0	0	17	0	0	-517	1	4	5	0	9	56	6	1	47	2	253	-54	0	1	2	5	18	2	11	0	0	3	7	1	0	BE
BG	21	2	56	3	37	5	705	22	11	1	41	88	5	1	60	7	73	30	3	174	28	97	4	1	143	0	5	6	1	3	25	BG
BY	1	1	12	2	2	4	5	232	3	0	16	67	6	6	24	18	43	24	2	3	5	18	5	1	18	0	7	54	1	15	4	BY
CH	1	0	64	0	6	6	4	2	368	0	17	186	2	0	197	1	814	23	0	4	14	12	8	1	364	0	0	1	2	0	0	CH
CY	6	8	13	10	8	3	46	11	3	608	9	28	2	1	36	4	32	15	11	155	6	14	2	1	67	0	5	3	0	1	5	CY
CZ	1	0	147	0	6	-5	6	12	25	0	141	335	5	1	64	4	192	20	0	5	26	78	8	2	84	0	1	3	3	1	3	CZ
DE	0	0	43	0	2	-30	2	8	29	0	30	334	2	1	67	3	308	4	0	2	4	14	13	2	39	0	0	5	6	2	1	DE
DK	0	0	2	0	1	-11	1	15	1	0	4	45	-96	5	24	10	68	63	0	1	1	3	28	4	7	0	1	17	1	11	0	DK
EE	0	0	3	0	0	2	1	30	1	0	6	44	21	39	10	39	25	43	0	1	1	3	8	1	5	0	2	25	0	32	1	EE
ES	1	0	8	0	3	5	2	1	5	0	4	24	0	0	1235	1	211	21	0	6	4	4	5	1	57	0	0	1	1	0	0	ES
FI	0	0	1	0	0	1	0	4	1	0	2	19	4	4	5	19	12	15	0	0	0	0	3	1	2	0	0	4	0	3	0	FI
FR	1	0	20	0	3	-16	2	3	21	0	11	94	3	0	201	1	904	-5	0	5	6	6	12	1	102	0	0	2	3	1	0	FR
GB	0	0	2	0	0	-5	1	4	1	0	1	19	11	1	11	3	43	-256	0	1	0	1	31	2	6	0	0	2	0	2	0	GB
GE	1	100	7	289	2	1	14	13	1	1	6	17	2	1	12	5	16	14	340	9	2	11	2	1	14	0	25	3	0	2	4	GE
GL	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	2	3	0	0	0	0	1	0	0	0	0	0	0	0	0	GL
GR	65	1	43	2	37	5	366	12	10	0	25	71	3	1	88	4	92	29	2	1072	26	50	4	1	277	0	6	4	1	2	12	GR
HR	5	1	175	1	153	4	23	10	27	0	74	167	3	1	141	3	209	34	1	15	449	188	7	1	638	0	1	3	1	1	4	HR
HU	3	1	171	1	40	2	19	24	20	0	88	204	4	1	75	5	143	28	1	9	145	518	6	1	212	0	1	8	1	3	5	HU
IE	0	0	2	0	0	-1	1	3	2	0	2	18	7	1	9	2	34	51	0	1	0	1	39	2	9	0	0	2	0	1	0	IE
IS	0	0	1	0	0	1	0	0	1	0	1	9	2	0	6	1	20	48	0	0	0	0	10	18	3	0	0	0	0	0	0	IS
IT	7	0	97	0	32	4	17	3	43	0	27	102	2	0	242	2	431	33	0	35	66	40	7	1	1169	0	1	1	1	1	1	IT
KG	0	4	4	8	1	1	2	4	2	0	3	14	1	1	17	3	18	8	3	3	1	2	1	0	10	233	607	1	0	1	1	KG
KZT	0	4	4	10	1	1	3	12	2	0	4	16	2	2	12	10	16	14	4	2	1	4	2	1	8	6	399	4	0	2	2	KZT
LT	0	0	7	1	2	4	3	85	3	0	14	87	21	7	21	21	48	39	1	2	3	12	8	2	13	0	3	152	1	24	3	LT
LU	0	0	34	0	1	-26	2	4	9	0	28	208	5	1	65	3	535	5	0	2	4	12	11	2	21	0	0	2	-40	1	1	LU
LV	0	0	4	1	1	3	1	52	2	0	8	63	21	12	13	27	33	39	1	1	2	6	8	1	7	0	3	70	1	64	2	LV
MD	2	5	29	8	11	5	51	51	7	0	43	90	4	4	34	14	61	31	8	22	11	60	5	2	43	0	10	14	1	6	199	MD
ME	74	1	83	1	217	5	91	9	16	0	35	100	3	0	107	2	151	38	1	96	86	97	5	1	538	0	1	3	1	1	5	ME
MK	101	1	64	1	62	4	315	10	13	0	32	88	2	1	87	3	101	29	1	286	37	86	4	1	288	0	2	3	1	1	9	MK
MT	12	0	38	0	19	5	28	3	9	0	16	66	1	0	271	2	284	25	0	88	26	17	6	1	744	0	1	2	1	1	1	MT
NL	0	0	9	0	0	-96	0	6	2	0	4	52	10	1	27	2	99	-79	0	1	1	2	23	2	5	0	0	5	1	2	1	NL
NO	0	0	1	0	0	-1	0	2	1	0	1	12	5	1	8	9	17	30	0	1	0	1	8	3	4	0	0	2	0	2	0	NO
PL	1	0	37	1	6	-0	4	50	8	0	53	183	9	2	41	11	96	28	0	4	18	51	9	2	42	0	1	18	2	6	2	PL
PT	0	0	4	0	2	2	1	1	3	0	2	12	0	0	570	0	112	22	0	2	2	2	6	1	19	0	0	0	0	0	0	PT
RO	7	2	63	4	29	4	120	33	13	0	48	102	5	2	51	8	79	29	3	35	27	165	4	1	102	0	4	10	1	4	32	RO
RS	29	1	105	1	128	5	118	14	18	0	59	129	3	1	88	4	120	34	1	63	83	198	5	1	298	0	1	5	1	2	10	RS
RUE	0	1	1	5	0	1	1	10	0	0	2	7	1	1	3	4	5	6	2	1	0	2	1	0	3	0	20	3	0	2	1	RUE
SE	0	0	1	0	0	-1	0	4	1	0	1	23	4	3	8	8	20	32	0	0	0	1	7	2	3	0	0	5	0	4	0	SE
SI	1	0	272	0	19	-4	12	8	33	0	63	184	3	1	132	3	201	23	0	6	241	118	7	1	715	0	1	3	1	1	4	SI
SK	2	1	131	1	22	-2	11	33	16	0	119	198	4	1	64	6	128	22	1	9	78	357	7	1	148	0	1	9	2	3	4	SK
TJ	0	4	3	6	1	1	2	3	1	0	2	9	1	0	15	2	14	6	2	2	1	3	1	0	8	50	328	1	0	1	0	TJ
TM	0	12	6	33	2	2	4	9	3	1	5	21	2	2	19	8	23	16	9	4	2	6	2	1	14	3	314	3	0	2	1	TM
TR	4	27	13	24	6	2	55	15	3	4	10	28	3	1	23	4	28	16	22	56	5	17	2	1	37	0	7	4	0	2	9	TR
UA	1	6	22	11	5	4	20	73	5	0	30	72	5	4	25	15	47	29	8	9	9	49	4	1	28	0	19	15	1	6	29	UA
UZ	0	8	6	18	1	2	3	9	2	0	5	21	2	1	16	9	21	16	6	3	1	5	2	1	11	17	516	3	0	2	1	UZ
ATL	0	0	0	0	0	-0	0	0	0	0	0	1	0	0	2	0	3	1	0	0	0	0	1	0	0	0	0	0	0	0	0	ATL
BAS	0	0	2	0	0	-1	0	15	1	0	5	46	-1	8	11	20	31	49	0	0	1	3	11	2	4	0	1	16	0	12	1	BAS
BLS	1	7	4	12	1	1	19	11	1	0	6	16	2	1	6	4	11	10	21	8	1	8	1	0	7	0	6	3	0	1	8	BLS
MED	5	0	12	1	8	2	28	3	3	4	6	18	1	0	74	1	72	8	1	70	12	9	1	0	121	0	1	1	0	0	2	MED
NOS	0	0	1	0	0	-6	0	2	0	0	0	7	2	1	5	2	16	-33	0	0	0	0	8	1	1	0	0	1	0	1	0	NOS
AST	0	5	2	15	1	1	3	3	1	6	2	7	1	0	8	2	8	5	3	6	1	2	1	0	7	12	126	1	0	1	1	AST
NOA	2	0	5	0	3	1	12	1	2	1	2	9	0	0	67	0	36	4	0	41	3	3	1	0	54	0	1	0	0	0	1	NOA
EXC	2	4	12	9	5	-1	12	14	4	0	8	31	2	2	50	6	57	9	4	12	6	13	3	1	38	3	80	5	0	2	3	EXC
EU	4	0	41	1	9	-8	39	13	14	1	23	103	4	2	225	6	240	4	0	43	17	41	10	1	146	0	1	8	1	4	4	EU
	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	

Table C.4 Cont.: 2007 country-to-country blame matrices for $\mathbf{AOT40}_f^{\mathbf{uc}}$.
Units: ppb.h per 15% emis. red. of NO_x. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	
AL	127	71	1	5	7	47	6	114	313	37	4	13	16	0	0	28	46	0	31	5	9	374	16	1	11	240	0	0	2866	1573	AL
AM	0	1	0	1	3	15	1	16	3	155	2	1	2	0	13	244	32	8	7	3	14	12	3	104	2	140	0	0	1204	108	AM
AT	2	1	0	-7	8	65	11	43	15	23	5	81	27	0	0	8	27	0	43	6	2	51	6	0	3	199	0	0	2073	1855	AT
AZ	1	1	0	2	5	22	1	22	4	492	4	1	3	0	40	122	48	29	13	6	13	10	6	137	2	176	0	0	1775	162	AZ
BA	66	6	1	5	7	71	8	102	170	35	5	27	37	0	0	15	55	0	36	6	5	181	17	1	8	235	0	0	2821	1732	BA
BE	0	0	0	-202	9	26	6	5	1	16	8	3	4	0	0	1	7	0	63	9	0	5	-169	0	0	143	0	0	-235	-282	BE
BG	22	45	0	5	10	101	5	456	172	159	9	10	32	0	0	57	193	1	28	11	66	80	16	3	6	228	0	0	2935	2117	BG
BY	1	1	0	4	16	169	2	26	5	253	22	2	12	0	0	14	130	1	30	29	3	6	13	3	1	120	0	0	1256	576	BY
CH	1	1	0	-6	5	20	16	9	6	10	3	10	5	0	0	2	4	0	49	3	0	53	11	0	3	210	0	0	2186	1764	CH
CY	5	8	0	3	5	34	3	53	23	152	4	2	6	0	1	1407	76	1	16	6	39	597	8	26	7	252	0	0	2895	1144	CY
CZ	1	1	0	-11	10	116	8	38	12	31	10	22	74	0	0	7	47	0	47	12	1	21	7	0	1	172	0	0	1534	1349	CZ
DE	1	0	0	-47	13	80	8	11	3	25	14	4	9	0	0	2	15	0	60	-1	1	12	-31	0	1	170	0	0	1027	922	DE
DK	0	0	0	-21	53	62	4	3	1	64	55	1	2	0	0	2	10	0	111	-84	0	3	-61	0	0	217	0	0	441	287	DK
EE	0	0	0	3	24	64	1	6	1	107	53	0	3	0	0	4	25	0	35	76	1	2	26	1	0	105	0	0	635	436	EE
ES	1	1	0	2	3	7	130	3	3	5	1	2	1	0	0	1	2	0	111	1	0	87	9	0	5	237	0	0	1761	1730	ES
FI	0	0	0	2	9	14	1	0	0	24	14	0	0	0	0	0	2	0	15	17	0	1	8	0	0	41	0	0	167	125	FI
FR	1	1	0	-19	6	18	13	4	4	11	4	4	3	0	0	1	4	0	71	5	0	51	-22	0	2	160	0	0	1440	1375	FR
GB	0	0	0	-13	27	13	1	2	1	20	14	0	1	0	0	1	5	0	92	12	0	3	-15	0	0	147	0	0	-48	-110	GB
GE	1	1	0	1	6	31	1	39	6	447	4	1	5	0	16	220	84	11	15	7	54	14	6	75	2	175	0	0	1791	221	GE
GL	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	0	0	0	3	0	0	0	1	0	0	14	0	0	13	10	GL
GR	27	76	1	5	8	62	6	168	128	104	6	8	18	0	0	88	108	0	27	8	38	382	14	2	10	248	0	0	3124	2411	GR
HR	20	3	0	4	9	78	9	90	102	35	6	70	40	0	0	13	55	0	45	7	4	213	16	1	5	221	0	0	2874	1984	HR
HU	7	2	0	1	9	163	8	167	105	49	9	50	127	0	0	13	115	0	40	10	3	56	12	1	3	197	0	0	2564	2021	HU
IE	0	0	0	-6	16	11	1	2	1	15	9	0	1	0	0	1	4	0	93	8	0	3	8	0	0	124	0	0	242	197	IE
IS	0	0	0	1	8	2	0	0	0	7	4	0	0	0	0	0	1	0	62	3	0	1	9	0	0	104	0	0	146	110	IS
IT	10	6	2	2	6	33	13	29	31	17	3	33	12	0	0	7	15	0	54	4	2	318	15	0	9	246	0	0	2584	2337	IT
KG	1	0	0	1	4	8	1	5	2	164	3	1	1	175	23	37	12	590	7	3	1	6	4	148	1	311	0	0	1982	111	KG
KZT	0	0	0	2	8	20	1	11	2	619	8	1	2	3	8	26	41	21	14	8	3	5	7	24	1	172	0	0	1321	151	KZT
LT	1	0	0	6	25	197	2	23	3	166	45	2	9	0	0	8	61	0	42	72	2	5	26	1	0	131	0	0	1135	768	LT
LU	0	0	0	-61	7	35	8	9	2	14	7	5	7	0	0	1	8	0	54	9	0	10	-24	0	1	147	0	0	931	877	LU
LV	0	0	0	6	23	111	1	13	2	131	51	1	5	0	0	7	45	0	37	77	1	3	26	1	0	114	0	0	842	568	LV
MD	3	3	0	4	13	189	3	469	26	246	13	5	41	0	1	44	495	2	35	17	57	23	16	7	2	203	0	0	2387	1240	MD
ME	479	28	1	6	7	57	7	126	334	38	4	16	25	0	0	20	55	0	32	5	6	245	17	1	11	265	0	0	2974	1600	ME
MK	50	352	1	4	6	60	6	186	343	51	4	12	21	0	0	29	65	0	27	6	12	145	13	1	10	243	0	0	2822	1688	MK
MT	8	8	-479	5	5	16	11	25	21	21	3	9	5	0	0	13	14	0	60	3	4	-99	14	0	13	246	0	0	1355	1191	MT
NL	0	0	0	-434	17	28	4	3	1	25	14	2	2	0	0	1	9	0	70	11	0	3	-266	0	0	155	0	0	-246	-312	NL
NO	0	0	0	-3	61	6	1	1	0	19	20	0	0	0	0	1	2	0	47	8	0	2	9	0	0	104	0	0	216	126	NO
PL	1	1	0	-2	19	325	5	32	12	68	28	10	36	0	0	8	71	0	49	30	1	13	13	1	1	154	0	0	1297	1029	PL
PT	1	0	0	1	2	4	352	2	2	5	1	1	1	0	0	1	2	0	182	1	0	23	8	0	2	199	0	0	1141	1119	PT
RO	12	10	0	4	11	166	5	856	103	127	10	11	63	0	1	35	248	1	31	13	37	41	15	4	3	208	0	0	2647	1948	RO
RS	65	29	1	5	8	94	7	308	590	51	6	19	43	0	0	18	84	0	32	8	7	98	16	1	7	228	0	0	2852	1720	RS
RUE	0	0	0	1	3	11	0	5	1	274	4	0	1	0	1	6	23	1	5	5	2	1	3	3	0	36	0	0	415	65	RUE
SE	0	0	0	-1	31	15	1	1	0	27	39	0	0	0	0	1	3	0	38	17	0	1	8	0	0	91	0	0	246	176	SE
SI	4	1	0	-3	9	72	8	61	29	31	6	336	30	0	0	10	42	0	40	7	3	152	7	0	4	194	0	0	2686	2251	SI
SK	5	2	0	-4	8	200	7	102	50	59	9	38	326	0	0	14	128	0	42	11	2	36	8	1	2	187	0	0	2322	1894	SK
TJ	1	0	0	1	2	6	1	4	2	126	2	0	1	616	46	32	10	622	5	2	1	5	3	250	1	309	0	0	1941	87	TJ
TM	1	1	0	2	8	17	2	13	3	482	7	1	3	12	188	70	31	238	14	7	4	8	7	116	1	298	0	0	1605	181	TM
TR	3	6	0	2	6	43	2	76	20	230	5	3	8	0	2	1005	119	1	16	7	69	77	8	46	5	229	0	0	1958	445	TR
UA	2	2	0	4	15	162	2	118	14	426	14	4	31	0	2	31	541	2	31	20	34	12	16	7	1	163	0	0	1919	719	UA
UZ	1	1	0	2	8	18	1	11	3	478	7	1	3	73	43	49	31	386	15	7	4	7	7	75	1	278	0	0	1823	170	UZ
ATL	0	0	0	-0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	5	0	0	11	9	ATL
BAS	0	0	0	-2	25	58	1	4	1	64	50	0	2	0	0	2	12	0	46	-4	0	2	13	0	0	109	0	0	456	331	BAS
BLS	1	1	0	1	4	31	1	40	4	236	4	1	4	0	1	43	133	1	9	5	71	7	5	5	0	53	0	0	682	188	BLS
MED	4	4	1	1	2	12	4	21	14	23	1	3	3	0	0	60	20	0	13	2	9	154	4	2	3	62	0	0	637	474	MED
NOS	0	0	0	-12	14	5	1	1	0	9	7	0	0	0	0	0	1	0	34	2	0	1	-62	0	0	53	0	0	38	9	NOS
AST	0	1	0	1	2	7	1	7	2	112	2	0	1	29	20	150	13	69	4	2	3	28	2	265	2	190	0	0	644	78	AST
NOA	2	2	1	1	1	5	4	9	5	8	0	1	1	0	0	26	7	0	8	1	3	141	2	1	20	82	0	0	322	258	NOA
EXC	2	2	0	-1	7	30	6	28	10	257	7	3	6	7	7	48	46	24	20	7	6	18	3	13	1	105	0	0	884	339	EXC
EU	3	5	0	-12	13	69	28	78	22	40	14	10	19	0	0	11	39	0	61	11	6	63	-2	1	3	167	0	0	1336	1139	EU
	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	

Table C.5: 2007 country-to-country blame matrices for $\mathbf{AOT40}_f^{\mathbf{uc}}$.
Units: ppb.h per 15% emis. red. of VOC. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	
AL	33	0	19	2	9	8	13	4	8	0	18	107	4	0	41	1	63	43	2	36	19	15	3	0	197	0	1	1	1	1	1	AL
AM	0	50	2	28	0	1	1	3	1	0	3	15	1	0	3	1	7	8	22	1	1	2	0	0	7	0	2	1	0	0	0	AM
AT	0	0	108	1	1	22	2	4	28	0	33	280	4	0	30	1	90	62	1	2	9	12	3	0	142	0	0	1	2	1	1	AT
AZ	0	4	3	132	0	3	1	7	1	0	5	29	3	1	5	2	13	18	21	1	1	3	1	0	10	0	7	2	0	1	1	AZ
BA	2	0	22	1	12	11	4	4	10	0	24	131	4	0	47	1	67	47	1	6	21	20	2	0	195	0	0	1	1	1	1	BA
BE	0	0	10	0	0	144	1	4	3	0	18	299	12	0	16	1	163	180	0	1	2	3	7	0	10	0	0	2	3	1	0	BE
BG	3	1	13	3	3	8	49	8	5	0	20	92	6	1	23	2	40	42	3	15	7	16	2	0	64	0	1	2	1	1	3	BG
BY	0	0	5	3	1	6	1	20	2	0	11	59	5	1	8	2	25	31	2	1	2	4	2	0	14	0	2	4	0	2	1	BY
CH	0	0	22	0	1	21	1	2	109	0	13	235	3	0	47	1	154	67	0	1	6	5	3	0	216	0	0	1	2	1	0	CH
CY	3	3	9	11	3	5	11	8	3	10	10	57	4	1	18	2	28	28	14	38	6	9	1	0	50	0	2	2	0	1	2	CY
CZ	0	0	43	1	1	21	1	7	14	0	123	285	7	0	20	1	77	68	1	1	7	15	3	0	56	0	0	2	2	1	1	CZ
DE	0	0	20	0	0	39	1	4	15	0	31	425	12	0	19	1	120	134	0	1	2	5	5	0	27	0	0	2	3	1	1	DE
DK	0	0	3	0	0	21	0	4	1	0	6	125	73	1	9	3	64	216	0	0	1	2	9	0	7	0	0	3	1	2	0	DK
EE	0	0	2	1	0	5	0	3	1	0	3	40	10	6	4	10	18	44	1	0	1	1	2	0	4	0	1	2	0	2	0	EE
ES	0	0	5	0	1	8	1	1	3	0	5	50	2	0	255	0	75	43	0	2	3	2	2	0	41	0	0	0	0	0	0	ES
FI	0	0	1	0	0	2	0	1	0	0	1	14	3	1	2	3	6	13	0	0	0	0	1	0	1	0	0	0	0	0	0	FI
FR	0	0	11	0	1	33	1	3	10	0	11	163	6	0	58	1	217	115	0	2	4	4	4	0	69	0	0	1	2	1	0	FR
GB	0	0	1	0	0	9	0	2	1	0	3	67	7	0	4	1	32	215	0	0	0	1	8	0	6	0	0	1	0	1	0	GB
GE	0	6	3	41	0	2	2	5	1	0	5	27	2	0	5	2	12	16	56	2	1	4	1	0	11	0	3	1	0	1	1	GE
GL	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	-0	0	0	0	0	0	0	0	GL
GR	10	0	16	2	6	8	22	6	7	0	18	92	5	0	35	1	51	41	2	73	12	14	2	0	124	0	1	2	1	1	2	GR
HR	1	0	36	1	9	14	4	5	14	0	32	172	5	0	54	1	84	56	1	4	59	25	3	0	279	0	0	1	1	1	1	HR
HU	1	0	37	2	4	14	3	7	11	0	44	191	7	0	29	2	66	56	2	3	21	78	3	0	112	0	0	3	1	1	1	HU
IE	0	0	1	0	0	6	0	2	1	0	2	56	6	0	3	1	18	116	0	1	1	1	17	0	8	0	0	1	0	0	0	IE
IS	0	0	1	0	0	2	0	0	0	0	1	13	1	0	2	0	9	14	0	0	0	0	1	0	3	0	0	0	0	0	0	IS
IT	3	0	34	1	5	13	4	3	23	0	19	140	3	0	83	1	125	55	1	8	24	12	3	0	785	0	0	1	1	1	1	IT
KG	0	1	2	4	0	1	1	3	1	0	2	15	1	0	6	1	8	8	3	1	1	1	0	0	7	2	18	1	0	0	0	KG
KZT	0	1	2	5	0	2	1	6	1	0	3	23	2	1	5	2	11	16	3	1	1	2	1	0	8	0	11	2	0	1	1	KZT
LT	0	0	3	1	1	10	1	8	2	0	10	79	13	1	7	3	32	53	1	1	2	3	3	0	12	0	1	12	0	3	1	LT
LU	0	0	13	0	0	64	1	3	4	0	22	287	8	0	18	2	155	116	0	1	2	5	4	0	17	0	0	2	21	1	1	LU
LV	0	0	2	1	0	7	1	5	1	0	5	53	10	1	5	4	24	44	1	1	1	2	2	0	7	0	1	4	0	6	0	LV
MD	1	1	8	7	1	6	6	7	4	0	15	76	5	1	13	2	32	43	7	5	4	8	2	0	27	0	3	2	0	1	8	MD
ME	8	0	18	2	8	9	8	4	8	0	19	112	4	0	39	1	59	42	1	12	13	15	2	0	181	0	0	1	1	1	1	ME
MK	9	0	15	1	4	7	16	4	6	0	18	94	4	0	32	1	44	34	1	44	8	15	2	0	102	0	1	1	1	1	2	MK
MT	6	0	26	1	7	10	8	3	11	0	17	121	3	0	111	1	115	49	1	24	22	12	3	0	641	0	0	1	1	1	1	MT
NL	0	0	6	0	0	53	0	4	2	0	14	304	18	0	12	1	109	214	0	0	1	2	8	0	6	0	0	2	2	1	0	NL
NO	0	0	1	0	0	4	0	1	1	0	1	22	4	0	2	1	13	39	0	0	0	0	2	0	3	0	0	0	0	0	0	NO
PL	0	0	17	1	1	17	1	10	6	0	35	172	15	1	14	2	58	76	1	1	7	11	3	0	35	0	1	3	1	1	1	PL
PT	0	0	4	0	1	8	1	1	2	0	4	38	1	0	122	0	65	42	0	1	2	2	2	0	17	0	0	0	0	0	0	PT
RO	1	1	14	4	2	7	11	7	6	0	22	95	6	1	19	2	40	40	4	6	6	21	2	0	52	0	1	2	1	1	3	RO
RS	3	0	23	2	7	10	6	5	9	0	28	133	5	0	33	1	55	46	2	7	15	28	3	0	114	0	0	2	1	1	2	RS
RUE	0	0	1	2	0	1	0	2	0	0	1	8	1	0	1	1	4	6	1	0	0	1	0	0	2	0	2	1	0	0	0	RUE
SE	0	0	1	0	0	4	0	1	1	0	2	31	9	0	3	1	15	40	0	0	0	0	2	0	3	0	0	1	0	0	0	SE
SI	0	0	54	1	3	18	2	5	16	0	30	185	4	0	47	1	88	58	1	2	34	18	3	0	364	0	0	1	1	1	1	SI
SK	1	0	32	2	2	15	2	9	8	0	54	176	8	1	23	2	62	58	2	2	14	39	3	0	95	0	1	3	1	1	1	SK
TJ	0	1	1	4	0	1	0	2	1	0	2	12	1	0	5	1	7	8	2	1	1	1	0	0	6	1	13	1	0	0	0	TJ
TM	0	2	4	14	1	3	1	7	2	0	5	31	3	1	8	3	16	20	8	1	2	3	1	0	13	0	15	2	0	1	1	TM
TR	1	4	5	10	1	3	6	5	2	0	7	37	3	0	10	1	18	20	10	9	3	6	1	0	24	0	2	1	0	1	1	TR
UA	0	1	7	9	1	6	3	9	3	0	13	64	5	1	10	2	28	38	6	2	3	7	2	0	20	0	4	2	0	1	2	UA
UZ	0	2	3	9	0	3	1	6	2	0	5	30	3	1	7	3	15	20	5	1	1	3	1	0	11	1	17	2	0	1	1	UZ
ATL	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	ATL
BAS	0	0	2	0	0	9	0	3	1	0	4	64	21	2	4	5	26	71	0	0	1	1	3	0	4	0	0	2	0	2	0	BAS
BLS	0	1	2	6	0	2	3	3	1	0	3	18	2	0	3	1	9	12	7	2	1	2	1	0	5	0	1	1	0	0	1	BLS
MED	2	0	5	1	2	3	3	2	3	0	5	28	1	0	27	0	26	14	1	13	5	3	1	0	72	0	0	0	0	0	1	MED
NOS	0	0	1	0	0	5	0	1	0	0	2	30	5	0	2	0	17	66	0	0	0	0	2	0	2	0	0	0	0	0	0	NOS
AST	0	1	1	6	0	1	1	2	1	0	2	10	1	0	3	1	5	6	3	2	1	1	0	0	6	0	4	1	0	0	0	AST
NOA	1	0	3	0	1	2	2	1	2	0	3	17	1	0	20	0	17	8	0	6	2	2	0	0	35	0	0	0	0	0	0	NOA
EXC	0	1	4	3	1	4	1	3	2	0	5	38	3	0	13	1	22	24	2	2	2	3	1	0	24	0	3	1	0	1	0	EXC
EU	1	0	14	1	1	16	4	4	7	0	17	131	7	0	55	2	79	77	1	4	5	8	3	0	93	0	0	2	1	1	1	EU
	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	

Table C.5 Cont.: 2007 country-to-country blame matrices for $\mathbf{AOT40}_f^{\mathbf{uc}}$.
Units: ppb.h per 15% emis. red. of VOC. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	
AL	12	14	0	11	5	28	6	26	41	19	4	4	6	0	0	6	12	0	0	0	0	7	1	0	1	264	0	0	845	657	AL
AM	0	0	0	2	2	9	1	4	1	41	1	0	1	0	0	9	7	0	0	0	0	0	0	2	0	62	0	0	240	74	AM
AT	0	0	0	24	5	51	5	11	4	13	4	12	8	0	0	2	8	0	0	0	0	1	2	0	0	183	0	0	988	910	AT
AZ	0	0	0	4	4	18	1	8	2	123	3	1	2	0	1	9	15	1	0	0	0	0	1	6	0	170	0	0	467	137	AZ
BA	3	1	0	15	5	39	6	18	20	17	3	6	9	0	0	3	11	0	0	0	0	4	2	0	0	223	0	0	796	681	BA
BE	0	0	0	106	8	35	3	4	1	14	7	2	3	0	0	0	6	0	1	1	0	0	9	0	0	219	0	0	1071	1031	BE
BG	2	4	0	9	7	47	4	61	17	51	5	2	8	0	0	9	32	0	0	1	0	2	1	0	0	213	0	0	695	534	BG
BY	0	0	0	8	4	47	2	5	2	50	6	1	3	0	0	2	14	0	0	1	0	0	1	0	0	104	0	0	356	252	BY
CH	0	0	0	21	4	24	7	5	2	8	3	4	4	0	0	1	3	0	1	0	0	1	2	0	0	161	0	0	999	860	CH
CY	2	3	0	6	5	32	3	25	13	83	4	2	5	0	0	170	32	0	0	0	1	6	1	3	1	313	0	0	726	362	CY
CZ	0	0	0	27	7	109	4	10	4	20	6	5	14	0	0	2	13	0	1	1	0	1	3	0	0	199	0	0	982	904	CZ
DE	0	0	0	49	9	59	4	5	2	16	8	2	4	0	0	1	7	0	1	1	0	0	5	0	0	214	0	0	1036	978	DE
DK	0	0	0	37	21	37	3	3	1	22	29	0	2	0	0	1	4	0	1	5	0	0	10	0	0	224	0	0	715	656	DK
EE	0	0	0	7	6	21	1	2	1	36	12	0	1	0	0	1	5	0	0	2	0	0	1	0	0	83	0	0	255	199	EE
ES	0	0	0	9	3	9	39	3	1	4	1	1	1	0	0	1	2	0	1	0	0	2	1	0	1	184	0	0	576	555	ES
FI	0	0	0	2	1	5	0	0	0	7	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	18	0	0	70	59	FI
FR	0	0	0	31	6	22	6	4	2	10	4	2	2	0	0	1	3	0	1	0	0	1	4	0	0	191	0	0	810	769	FR
GB	0	0	0	17	16	10	1	2	0	10	5	0	1	0	0	0	3	0	1	1	0	0	4	0	0	122	0	0	427	393	GB
GE	0	0	0	3	3	18	1	8	2	82	2	1	2	0	1	8	15	0	0	0	0	0	0	3	0	107	0	0	357	130	GE
GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	5	5	GL
GR	4	10	0	9	6	39	5	36	23	36	5	3	7	0	0	12	23	0	0	0	0	5	1	0	1	266	0	0	773	609	GR
HR	2	1	0	18	6	53	7	20	19	19	4	13	10	0	0	3	13	0	1	0	0	4	2	0	0	267	0	0	1055	898	HR
HU	1	1	0	18	7	92	6	25	18	27	5	8	22	0	0	2	18	0	1	1	0	2	2	0	0	230	0	0	946	824	HU
IE	0	0	0	12	10	9	1	2	1	8	4	0	1	0	0	0	2	0	1	0	0	0	2	0	0	84	0	0	292	267	IE
IS	0	0	0	2	1	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-5	0	0	58	54	IS
IT	2	2	0	15	5	32	9	13	10	12	3	13	6	0	0	2	7	0	1	0	0	8	2	0	1	314	0	0	1480	1380	IT
KG	0	0	0	2	2	7	1	3	1	56	2	0	1	6	0	5	5	40	0	0	0	0	0	3	0	97	0	0	220	72	KG
KZT	0	0	0	3	4	14	1	4	1	125	3	0	1	0	0	4	12	1	0	0	0	0	0	1	0	134	0	0	285	110	KZT
LT	0	0	0	13	8	58	2	6	2	40	12	1	2	0	0	2	10	0	0	2	0	0	2	0	0	120	0	0	420	341	LT
LU	0	0	0	57	6	40	4	6	1	13	6	2	4	0	0	1	7	0	1	1	0	0	5	0	0	188	0	0	893	853	LU
LV	0	0	0	9	6	33	1	4	1	31	12	0	2	0	0	1	8	0	0	1	0	0	2	0	0	92	0	0	299	239	LV
MD	1	1	0	8	6	55	3	45	5	71	4	2	5	0	0	6	45	0	0	1	0	1	1	1	0	179	0	0	551	374	MD
ME	25	4	0	12	5	29	6	21	29	17	3	4	6	0	0	4	11	0	0	0	0	4	1	0	1	219	0	0	745	604	ME
MK	4	20	0	9	5	30	5	30	28	20	3	3	7	0	0	5	13	0	0	0	0	3	1	0	1	201	0	0	649	518	MK
MT	3	4	140	13	5	24	11	18	13	17	3	7	5	0	0	4	8	0	1	0	0	54	1	0	2	483	0	0	1473	1365	MT
NL	0	0	0	130	11	35	3	2	0	14	8	1	2	0	0	0	7	0	1	2	0	0	11	0	0	223	0	0	975	934	NL
NO	0	0	0	6	9	5	0	1	0	4	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	27	0	0	125	109	NO
PL	0	0	0	20	9	162	3	8	4	27	10	3	9	0	0	2	14	0	1	1	0	0	3	0	0	182	0	0	764	680	PL
PT	0	0	0	8	3	6	202	2	1	4	1	1	1	0	0	0	2	0	4	0	0	1	1	0	0	158	0	0	546	529	PT
RO	1	2	0	9	6	59	4	92	13	44	5	2	10	0	0	6	31	0	0	1	0	1	1	1	0	188	0	0	662	524	RO
RS	3	3	0	14	6	47	5	41	64	22	4	4	11	0	0	3	15	0	0	0	0	2	2	0	0	214	0	0	781	622	RS
RUE	0	0	0	1	1	5	0	1	0	56	1	0	0	0	0	1	5	0	0	0	0	0	0	0	0	32	0	0	108	37	RUE
SE	0	0	0	7	5	7	1	1	0	7	9	0	0	0	0	0	1	0	0	1	0	0	1	0	0	42	0	0	155	138	SE
SI	1	0	0	20	6	51	6	14	7	17	4	36	8	0	0	2	11	0	1	0	0	4	2	0	0	238	0	0	1123	1017	SI
SK	1	1	0	19	7	130	5	16	10	30	5	6	29	0	0	2	17	0	0	1	0	1	2	0	0	208	0	0	896	789	SK
TJ	0	0	0	1	2	6	1	2	1	54	1	0	1	15	1	4	5	32	0	0	0	0	0	4	0	94	0	0	202	62	TJ
TM	0	0	0	4	5	18	2	7	2	162	5	1	2	1	2	10	14	5	0	0	0	0	1	3	0	251	0	0	406	154	TM
TR	1	1	0	4	3	23	2	16	5	66	3	1	3	0	0	69	24	0	0	0	0	1	1	2	0	138	0	0	412	203	TR
UA	0	0	0	8	6	49	2	16	4	108	5	1	4	0	0	4	77	0	0	1	0	0	1	1	0	166	0	0	538	297	UA
UZ	0	0	0	4	5	17	1	6	1	141	4	1	2	5	1	7	13	25	0	0	0	0	1	3	0	227	0	0	386	143	UZ
ATL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	9	8	ATL
BAS	0	0	0	13	9	25	1	2	1	22	18	0	1	0	0	1	4	0	0	3	0	0	3	0	0	101	0	0	326	284	BAS
BLS	0	0	0	2	2	13	1	8	1	54	2	0	1	0	0	6	20	0	0	0	0	0	0	1	0	66	0	0	200	94	BLS
MED	1	1	0	3	2	10	2	7	4	10	1	2	2	0	0	8	5	0	0	0	0	4	0	0	0	95	0	0	275	229	MED
NOS	0	0	0	9	7	5	1	1	0	4	3	0	0	0	0	0	1	0	0	0	0	0	3	0	0	47	0	0	164	151	NOS
AST	0	0	0	1	1	6	1	3	1	36	1	0	1	1	0	14	5	3	0	0	0	0	0	9	0	65	0	0	136	55	AST
NOA	0	1	0	2	1	5	2	4	2	6	1	1	1	0	0	4	3	0	0	0	0	3	0	0	1	80	0	0	158	133	NOA
EXC	0	0	0	5	3	16	3	5	2	58	3	1	2	0	0	4	9	1	0	0	0	0	1	1	0	87	0	0	278	182	EXC
EU	1	1	0	19	6	40	12	12	4	16	6	3	4	0	0	2	8	0	1	1	0	1	2	0	0	166	0	0	669	609	EU
	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	

Table C.6: 2007 country-to-country blame matrices for **SOMO35**.
Units: ppb.d per 15% emis. red. of NO_x. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	
AL	42	0	4	0	8	-0	11	1	1	0	1	3	-0	0	10	0	10	1	0	18	5	4	0	0	39	0	0	0	0	0	1	AL
AM	0	32	1	57	0	0	1	1	0	0	0	1	0	0	2	0	2	1	14	1	0	0	0	0	3	0	5	0	0	0	0	AM
AT	0	0	20	0	1	-3	1	1	6	0	2	10	-0	0	12	0	23	-2	0	1	3	6	1	0	23	0	0	0	0	0	0	AT
AZ	0	8	1	113	0	0	1	1	0	0	0	1	0	0	2	1	2	2	12	1	0	1	0	0	2	0	14	0	0	0	0	AZ
BA	1	0	9	0	46	-0	5	1	2	0	3	5	-0	0	13	0	13	1	0	4	22	13	0	0	44	0	0	0	0	0	0	BA
BE	0	0	2	0	0	-80	0	0	0	0	0	-4	1	0	7	0	25	-16	0	0	0	1	3	0	1	0	0	0	0	0	0	BE
BG	2	0	5	0	3	-0	66	2	1	0	3	5	0	0	7	1	6	2	0	15	2	8	0	0	12	0	1	1	0	0	3	BG
BY	0	0	1	0	0	0	1	32	0	0	1	7	1	1	3	3	5	3	0	1	1	2	1	0	2	0	1	7	0	2	1	BY
CH	0	0	4	0	1	-3	0	0	27	0	0	0	0	0	19	0	74	-0	0	1	1	1	1	0	23	0	0	0	-0	0	0	CH
CY	1	1	1	1	1	0	4	1	0	53	0	2	0	0	5	0	4	2	1	16	1	1	0	0	9	0	1	0	0	0	0	CY
CZ	0	0	12	0	1	-2	1	1	2	0	2	11	-0	0	8	0	20	-1	0	1	2	6	1	0	8	0	0	0	0	0	0	CZ
DE	0	0	3	0	0	-7	0	1	2	0	1	6	-0	0	8	0	29	-5	0	0	0	1	2	0	3	0	0	1	0	0	0	DE
DK	0	0	0	0	0	-1	0	2	0	0	-0	1	-14	0	2	1	6	1	0	0	0	0	3	1	1	0	0	2	0	1	0	DK
EE	0	0	0	0	0	-1	0	5	0	0	1	3	2	6	1	6	2	4	0	0	0	0	1	0	1	0	1	4	0	5	0	EE
ES	0	0	1	0	0	-0	0	0	0	0	0	-1	-0	0	111	0	15	-1	0	1	0	0	1	0	5	0	0	0	-0	0	0	ES
FI	0	0	0	0	0	0	0	1	0	0	0	3	1	1	1	5	2	3	0	0	0	0	1	0	0	0	0	1	0	1	0	FI
FR	0	0	1	0	0	-5	0	0	1	0	0	-1	0	0	22	0	87	-8	0	1	1	1	2	0	7	0	0	0	0	0	0	FR
GB	0	0	0	0	0	-1	0	0	0	0	-0	-2	0	0	2	0	4	-55	0	0	0	0	4	0	1	0	0	0	0	0	0	GB
GE	0	18	1	52	0	0	2	1	0	0	0	1	0	0	3	1	3	2	65	2	0	1	0	0	3	0	6	0	0	0	1	GE
GL	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	GL
GR	6	0	3	0	3	-0	34	1	1	0	1	3	0	0	9	0	7	1	0	102	2	3	0	0	25	0	1	0	0	0	1	GR
HR	1	0	13	0	16	-0	3	1	2	0	2	6	-0	0	13	0	15	0	0	3	44	17	1	0	50	0	0	0	0	0	0	HR
HU	1	0	14	0	4	-0	2	2	2	0	4	10	-0	0	8	0	12	1	0	2	13	45	1	0	17	0	0	1	0	0	1	HU
IE	0	0	0	0	0	-1	0	0	0	0	-0	-0	0	0	2	0	2	0	0	0	0	0	-4	0	1	0	0	0	0	0	0	IE
IS	0	0	0	0	0	0	0	0	0	0	-0	1	0	0	1	0	2	5	0	0	0	0	1	3	0	0	0	0	0	0	0	IS
IT	1	0	6	0	3	-1	2	0	3	0	1	1	-0	0	22	0	32	0	0	4	5	3	1	0	76	0	0	0	0	0	0	IT
KG	0	1	0	1	0	0	0	0	0	0	0	2	0	0	2	0	3	2	0	1	0	0	0	0	2	23	63	0	0	0	0	KG
KZT	0	1	1	2	0	0	0	1	0	0	1	2	0	0	2	1	3	3	1	0	0	0	0	0	1	1	59	0	0	0	0	KZT
LT	0	0	1	0	0	-0	0	11	0	0	1	7	2	1	2	3	5	3	0	0	0	1	1	0	2	0	1	20	0	4	0	LT
LU	0	0	3	0	0	-15	0	0	1	0	2	3	0	0	11	0	58	-7	0	0	0	1	2	0	2	0	0	0	-11	0	0	LU
LV	0	0	0	0	0	-1	0	9	0	0	1	5	2	2	2	4	3	4	0	0	0	1	1	0	1	0	1	10	0	8	0	LV
MD	0	1	3	1	1	0	5	6	1	0	4	7	0	0	4	2	6	3	1	3	1	5	0	0	4	0	2	2	0	1	23	MD
ME	7	0	6	0	20	-0	9	1	1	0	2	4	-0	0	12	0	12	1	0	11	7	7	0	0	41	0	0	0	0	0	1	ME
MK	9	0	5	0	5	-0	31	1	1	0	2	4	0	0	9	0	8	1	0	13	3	6	0	0	23	0	0	0	-0	0	1	MK
MT	1	0	2	0	2	0	2	0	1	0	0	2	0	0	25	0	23	1	0	8	2	1	0	0	62	0	0	0	0	0	0	MT
NL	0	0	1	0	0	-17	0	1	0	0	-0	-3	1	0	4	0	10	-19	0	0	0	0	3	0	1	0	0	1	0	0	0	NL
NO	0	0	0	0	0	-0	0	0	0	0	0	1	0	0	1	1	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	NO
PL	0	0	3	0	1	-1	1	6	1	0	3	12	0	0	5	1	9	1	0	1	2	4	1	0	5	0	0	2	0	1	0	PL
PT	0	0	0	0	0	-1	0	0	0	0	0	-1	-0	0	55	0	8	1	0	0	0	0	1	0	3	0	0	0	-0	0	0	PT
RO	1	0	6	1	3	0	11	3	1	0	4	7	0	0	6	1	7	2	0	4	2	16	0	0	9	0	1	1	0	0	4	RO
RS	3	0	9	0	13	0	13	1	2	0	4	8	0	0	10	0	11	2	0	6	8	18	1	0	24	0	0	0	0	0	1	RS
RUE	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	4	0	0	0	0	RUE
SE	0	0	0	0	0	-0	0	1	0	0	0	3	1	1	1	2	3	3	0	0	0	0	1	0	0	0	0	1	0	1	0	SE
SI	0	0	17	0	2	-1	2	1	2	0	2	4	0	0	12	0	15	-1	0	2	23	11	1	0	53	0	0	0	0	0	0	SI
SK	0	0	10	0	2	-1	1	3	1	0	6	9	-0	0	7	0	12	0	0	1	6	31	1	0	14	0	0	1	0	0	1	SK
TJ	0	1	0	1	0	0	0	0	0	0	0	1	0	0	2	0	2	1	0	0	0	0	0	0	2	4	29	0	0	0	0	TJ
TM	0	3	1	7	0	0	1	1	0	0	1	3	0	0	3	1	4	3	2	1	0	1	0	0	3	0	44	0	0	0	0	TM
TR	0	5	1	4	1	0	5	1	0	1	1	2	0	0	4	0	4	2	3	7	1	1	0	0	6	0	1	0	0	0	1	TR
UA	0	1	2	1	1	0	2	9	1	0	3	6	0	0	3	2	5	3	1	1	1	4	0	0	3	0	3	2	0	1	3	UA
UZ	0	2	1	4	0	0	1	1	0	0	1	3	0	0	3	1	3	4	1	1	0	1	0	0	2	2	67	0	0	0	0	UZ
ATL	0	0	0	0	0	-0	0	0	0	0	-0	-0	-0	0	1	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	ATL
BAS	0	0	0	0	0	-1	0	3	0	0	0	3	-2	2	2	5	4	4	0	0	0	0	2	0	1	0	0	3	0	2	0	BAS
BLS	0	3	1	5	0	0	6	4	0	0	2	4	0	0	3	1	4	3	9	3	0	3	0	0	2	0	3	1	0	0	4	BLS
MED	1	0	2	0	2	-0	7	0	1	2	1	2	0	0	24	0	24	1	0	22	3	2	0	0	43	0	0	0	0	0	0	MED
NOS	0	0	0	0	0	-3	0	1	0	0	-0	-3	-1	0	2	1	4	-32	0	0	0	0	3	1	1	0	0	1	0	0	0	NOS
AST	0	1	0	6	0	0	0	1	0	1	0	1	0	0	2	0	2	1	1	1	0	0	0	0	2	1	20	0	0	0	0	AST
NOA	1	0	2	0	1	0	4	0	1	0	1	3	0	0	21	0	12	2	0	14	1	1	0	0	20	0	0	0	0	0	0	NOA
EXC	0	1	1	2	0	-0	1	2	0	0	1	2	0	0	5	1	6	1	1	1	1	1	0	0	3	0	12	1	0	0	0	EXC
EU	0	0	3	0	1	-2	4	1	1	0	1	3	0	0	22	1	22	-4	0	4	1	4	1	0	11	0	0	1	0	0	0	EU
	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	

Table C.6 Cont.: 2007 country-to-country blame matrices for **SOMO35**.
Units: ppb.d per 15% emis. red. of NO_x. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	
AL	12	5	0	-0	1	2	1	10	28	4	0	1	1	0	0	5	4	0	4	0	1	40	0	0	2	32	0	0	235	117	AL
AM	0	0	0	0	0	1	0	2	0	27	0	0	0	0	4	54	4	2	2	0	2	5	1	27	1	33	0	0	220	19	AM
AT	0	0	0	-3	1	3	1	4	2	3	0	7	2	0	0	1	3	0	6	0	0	6	-2	0	0	26	0	0	132	111	AT
AZ	0	0	0	0	1	2	0	2	0	66	1	0	0	0	7	27	5	5	3	1	2	4	1	27	0	33	0	0	282	21	AZ
BA	7	1	0	-1	1	3	1	11	18	5	0	2	3	0	0	2	5	0	5	0	1	18	-0	0	1	30	0	0	245	133	BA
BE	0	0	0	-26	1	1	1	1	0	3	1	0	1	0	0	0	1	0	12	1	0	1	-25	0	0	24	0	0	-72	-80	BE
BG	2	3	0	0	1	7	1	45	16	18	1	1	3	0	0	7	19	0	4	1	8	12	1	0	1	29	0	0	272	189	BG
BY	0	0	0	0	3	20	0	4	1	33	3	0	1	0	0	2	18	0	5	4	1	1	2	0	0	19	0	0	163	69	BY
CH	0	0	0	-4	1	1	1	1	1	1	0	1	0	0	0	1	0	0	7	0	0	6	-2	0	0	28	0	0	157	123	CH
CY	0	1	0	0	1	2	0	4	2	14	0	0	0	0	0	140	6	0	3	0	4	76	1	7	2	36	0	0	278	106	CY
CZ	0	0	0	-3	1	3	1	4	1	4	1	2	6	0	0	1	5	0	7	0	0	3	-2	0	0	23	0	0	100	81	CZ
DE	0	0	0	-9	1	5	1	2	1	4	1	0	1	0	0	0	2	0	9	-1	0	2	-7	0	0	24	0	0	58	46	DE
DK	0	0	0	-3	5	4	0	1	0	7	5	0	0	0	0	0	2	0	12	-10	0	1	-10	0	0	26	0	0	28	11	DK
EE	0	0	0	-0	4	6	0	1	0	21	7	0	0	0	0	1	5	0	5	9	0	1	2	0	0	18	0	0	88	50	EE
ES	0	0	0	-0	0	-0	16	0	0	0	0	0	0	0	0	0	0	0	16	-0	0	9	-0	0	1	36	0	0	153	149	ES
FI	0	0	0	0	3	2	0	0	0	8	4	0	0	0	0	0	1	0	4	3	0	0	1	0	0	11	0	0	37	23	FI
FR	0	0	0	-4	1	0	2	1	1	1	0	0	0	0	0	0	0	0	14	0	0	5	-6	0	0	27	0	0	112	105	FR
GB	0	0	0	-3	3	0	0	1	0	3	1	0	0	0	0	0	1	0	15	0	0	1	-6	0	0	25	0	0	-37	-46	GB
GE	0	0	0	0	1	2	0	4	1	64	0	0	0	0	3	47	9	2	2	1	9	5	1	16	1	33	0	0	299	27	GE
GL	0	0	0	-0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	11	0	0	5	3	GL
GR	2	7	0	-0	1	3	1	14	10	9	0	1	1	0	0	11	9	0	4	0	4	45	0	0	2	33	0	0	276	210	GR
HR	2	1	0	-1	1	2	1	10	11	4	0	6	3	0	0	2	5	0	5	0	1	21	-0	0	1	26	0	0	234	144	HR
HU	1	0	0	-1	1	5	1	19	10	6	1	4	11	0	0	2	11	0	5	-0	0	7	-1	0	0	24	0	0	212	157	HU
IE	0	0	0	-2	2	0	0	0	0	2	1	0	0	0	0	0	1	0	17	0	0	1	-1	0	0	26	0	0	7	1	IE
IS	0	0	0	0	2	-0	0	0	0	2	1	0	0	0	0	0	0	0	10	0	0	0	1	0	0	21	0	0	17	10	IS
IT	1	1	0	-1	1	0	1	3	3	2	0	2	1	0	0	1	1	0	6	0	0	30	-0	0	1	31	0	0	175	153	IT
KG	0	0	0	0	0	1	0	1	0	17	0	0	0	20	4	6	1	60	1	0	0	2	1	22	0	39	0	0	217	17	KG
KZT	0	0	0	0	1	3	0	2	0	87	1	0	0	1	2	4	5	4	3	1	1	1	1	5	0	27	0	0	194	23	KZT
LT	0	0	0	0	3	18	0	3	0	21	6	0	1	0	0	2	9	0	6	9	0	1	2	0	0	20	0	0	130	81	LT
LU	0	0	0	-12	1	1	1	1	0	2	1	0	1	0	0	0	1	0	11	0	0	2	-6	0	0	23	0	0	52	44	LU
LV	0	0	0	0	3	11	0	2	0	22	7	0	1	0	0	1	7	0	6	10	0	1	3	0	0	19	0	0	109	63	LV
MD	0	0	0	0	2	18	0	48	3	29	2	0	4	0	0	5	56	0	4	2	6	4	1	1	0	26	0	0	254	121	MD
ME	45	2	0	-0	1	2	1	11	32	5	0	1	2	0	0	4	5	0	4	0	1	25	0	0	1	33	0	0	253	122	ME
MK	4	30	0	-0	1	3	1	17	33	7	0	1	1	0	0	5	7	0	4	0	2	17	0	0	2	33	0	0	236	127	MK
MT	1	1	-60	-0	1	0	1	2	2	1	0	1	0	0	0	2	1	0	7	0	0	3	1	0	3	34	0	0	88	73	MT
NL	0	0	0	-65	2	1	1	1	0	4	1	0	0	0	0	0	2	0	12	0	0	1	-42	0	0	24	0	0	-70	-80	NL
NO	0	0	0	-0	7	1	0	0	0	3	3	0	0	0	0	0	0	0	7	1	0	0	0	0	0	18	0	0	26	13	NO
PL	0	0	0	-1	2	25	1	4	1	10	3	1	3	0	0	1	9	0	7	2	0	2	-0	0	0	21	0	0	116	82	PL
PT	0	0	0	-0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	31	-0	0	3	0	0	0	38	0	0	106	103	PT
RO	1	1	0	0	1	13	1	86	9	15	1	1	6	0	0	5	26	0	4	1	4	6	1	0	1	26	0	0	258	183	RO
RS	7	3	0	-0	1	5	1	32	59	7	1	2	3	0	0	3	9	0	4	0	1	12	1	0	1	28	0	0	267	151	RS
RUE	0	0	0	0	1	1	0	1	0	40	1	0	0	0	0	1	3	0	1	1	0	0	0	1	0	7	0	0	63	10	RUE
SE	0	0	0	-0	5	2	0	0	0	6	6	0	0	0	0	0	1	0	7	3	0	0	0	0	0	17	0	0	39	26	SE
SI	1	0	0	-2	1	3	1	6	3	3	0	24	2	0	0	2	4	0	5	0	0	14	-1	0	1	25	0	0	193	150	SI
SK	1	0	0	-1	1	6	1	11	4	6	1	3	27	0	0	2	13	0	5	-0	0	5	-1	0	0	23	0	0	181	139	SK
TJ	0	0	0	0	0	1	0	1	0	12	0	0	0	56	6	5	1	59	1	0	0	1	1	32	0	36	0	0	187	12	TJ
TM	0	0	0	0	1	2	0	2	1	63	1	0	0	2	35	14	4	36	3	1	1	3	1	26	0	46	0	0	243	29	TM
TR	0	1	0	0	1	3	0	6	2	28	0	0	1	0	0	124	12	0	3	1	9	15	1	9	1	38	0	0	233	46	TR
UA	0	0	0	0	2	17	0	13	1	51	2	0	3	0	0	4	59	0	4	2	4	2	2	1	0	22	0	0	214	74	UA
UZ	0	0	0	0	1	2	0	2	0	68	1	0	0	7	9	9	4	42	3	1	1	2	2	14	0	41	0	0	247	28	UZ
ATL	0	0	0	-0	1	-0	0	0	0	1	0	0	0	0	0	0	0	0	15	0	0	0	-0	0	0	19	0	0	10	6	ATL
BAS	0	0	0	-1	5	7	0	1	0	13	8	0	0	0	0	1	3	0	9	-4	0	1	-0	0	0	24	0	0	66	41	BAS
BLS	0	0	0	0	2	9	0	14	1	103	1	0	1	0	1	16	49	1	4	2	44	6	1	2	0	28	0	0	262	61	BLS
MED	1	1	1	-0	1	1	1	5	4	6	0	1	1	0	0	24	4	0	7	0	3	78	0	1	2	35	0	0	189	139	MED
NOS	0	0	0	-5	5	-0	0	0	0	4	2	0	0	0	0	0	1	0	23	-1	0	1	-37	0	0	36	0	0	-15	-29	NOS
AST	0	0	0	0	0	1	0	1	0	26	0	0	0	3	5	25	2	9	1	0	1	6	1	46	0	34	0	0	118	15	AST
NOA	1	1	1	0	0	1	1	2	2	3	0	0	0	0	0	9	2	0	4	0	1	55	1	0	11	53	0	0	108	87	NOA
EXC	0	0	0	-0	1	3	1	3	1	37	1	0	1	1	1	7	5	3	3	1	1	3	0	3	0	17	0	0	107	32	EXC
EU	0	0	0	-3	2	5	3	8	2	6	2	1	2	0	0	2	4	0	10	1	1	7	-2	0	0	25	0	0	110	88	EU
	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	

Table C.7: 2007 country-to-country blame matrices for **SOMO35**.
Units: ppb.d per 15% emis. red. of VOC. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	
AL	7	0	3	0	2	1	2	1	1	0	3	15	1	0	8	0	11	6	0	7	3	3	0	0	32	0	0	0	0	0	0	AL
AM	0	15	1	8	0	0	0	1	0	0	1	4	0	0	1	0	2	2	7	1	0	1	0	0	2	0	1	0	0	0	0	AM
AT	0	0	18	0	0	3	0	1	5	0	6	48	1	0	5	0	16	9	0	0	1	2	0	0	22	0	0	0	0	0	0	AT
AZ	0	3	1	28	0	1	0	1	0	0	1	5	0	0	1	0	3	3	12	0	0	1	0	0	3	0	1	0	0	0	0	AZ
BA	1	0	4	0	3	2	1	1	2	0	4	20	1	0	8	0	12	7	0	1	5	4	0	0	30	0	0	0	0	0	0	BA
BE	0	0	2	0	0	19	0	1	1	0	2	40	1	0	3	0	30	27	0	0	0	1	1	0	2	0	0	0	0	0	0	BE
BG	1	0	2	0	1	1	10	1	1	0	3	13	1	0	4	0	7	5	0	4	1	2	0	0	12	0	0	0	0	0	1	BG
BY	0	0	1	0	0	1	0	3	0	0	2	11	1	0	1	0	5	6	0	0	0	1	0	0	2	0	0	1	0	0	0	BY
CH	0	0	4	0	0	3	0	0	18	0	3	42	1	0	7	0	27	9	0	0	1	1	0	0	33	0	0	0	0	0	0	CH
CY	0	1	2	2	0	1	1	1	1	2	2	9	1	0	4	0	5	4	2	5	1	1	0	0	10	0	0	0	0	0	0	CY
CZ	0	0	7	0	0	3	0	1	2	0	17	46	1	0	3	0	14	11	0	0	1	2	1	0	9	0	0	0	0	0	0	CZ
DE	0	0	3	0	0	5	0	1	2	0	4	60	1	0	3	0	20	18	0	0	0	1	1	0	5	0	0	0	0	0	0	DE
DK	0	0	1	0	0	2	0	1	0	0	1	14	8	0	1	0	7	22	0	0	0	0	1	0	1	0	0	0	0	0	0	DK
EE	0	0	0	0	0	1	0	1	0	0	1	7	1	1	1	2	4	7	0	0	0	0	0	0	1	0	0	0	0	0	0	EE
ES	0	0	1	0	0	2	0	0	1	0	1	10	0	0	45	0	16	7	0	0	0	0	0	0	7	0	0	0	0	0	0	ES
FI	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	FI
FR	0	0	2	0	0	5	0	1	2	0	2	28	1	0	9	0	40	18	0	0	1	1	1	0	12	0	0	0	0	0	0	FR
GB	0	0	0	0	0	1	0	0	0	0	1	11	1	0	1	0	5	30	0	0	0	0	1	0	1	0	0	0	0	0	0	GB
GE	0	2	1	9	0	0	0	1	0	0	1	5	0	0	1	0	3	3	21	1	0	1	0	0	3	0	1	0	0	0	0	GE
GL	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	-0	0	0	0	0	0	0	0	GL
GR	2	0	3	0	1	1	4	1	1	0	3	13	1	0	7	0	9	6	0	14	2	2	0	0	20	0	0	0	0	0	0	GR
HR	0	0	6	0	2	2	1	1	2	0	5	27	1	0	8	0	13	8	0	1	9	4	0	0	36	0	0	0	0	0	0	HR
HU	0	0	7	0	1	2	1	1	2	0	7	28	1	0	5	0	11	8	0	1	4	12	0	0	17	0	0	0	0	0	0	HU
IE	0	0	0	0	0	1	0	0	0	0	1	9	1	0	1	0	4	17	0	0	0	0	2	0	1	0	0	0	0	0	0	IE
IS	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	-0	1	0	0	0	0	0	0	IS
IT	0	0	6	0	1	2	1	1	3	0	3	24	1	0	13	0	20	8	0	2	4	2	0	0	114	0	0	0	0	0	0	IT
KG	0	0	0	1	0	0	0	0	0	0	0	2	0	0	1	0	1	1	0	0	0	0	0	0	1	1	2	0	0	0	0	KG
KZT	0	0	0	1	0	0	0	1	0	0	1	3	0	0	1	0	2	2	1	0	0	0	0	0	1	0	2	0	0	0	0	KZT
LT	0	0	1	0	0	2	0	1	0	0	2	12	2	0	1	1	6	8	0	0	0	1	0	0	2	0	0	2	0	0	0	LT
LU	0	0	2	0	0	9	0	0	1	0	2	43	1	0	5	0	31	19	0	0	0	1	1	0	3	0	0	0	3	0	0	LU
LV	0	0	0	0	0	1	0	1	0	0	1	10	1	0	1	1	5	7	0	0	0	0	0	0	1	0	0	1	0	1	0	LV
MD	0	0	1	1	0	1	1	1	1	0	2	11	1	0	3	1	6	6	1	1	1	2	0	0	6	0	0	0	0	0	2	MD
ME	2	0	3	0	2	1	1	1	1	0	3	16	1	0	8	0	11	6	0	3	2	2	0	0	29	0	0	0	0	0	0	ME
MK	2	0	3	0	1	1	4	1	1	0	3	13	1	0	6	0	8	5	0	10	2	2	0	0	18	0	0	0	0	0	0	MK
MT	1	0	4	0	1	2	1	1	2	0	3	19	1	0	22	0	21	7	0	3	3	2	0	0	85	0	0	0	0	0	0	MT
NL	0	0	1	0	0	8	0	1	0	0	2	38	2	0	2	0	17	32	0	0	0	0	1	0	1	0	0	0	0	0	0	NL
NO	0	0	0	0	0	1	0	0	0	0	0	4	1	0	1	0	3	6	0	0	0	0	0	0	1	0	0	0	0	0	0	NO
PL	0	0	2	0	0	2	0	1	1	0	5	25	2	0	2	0	9	11	0	0	1	2	1	0	5	0	0	0	0	0	0	PL
PT	0	0	1	0	0	1	0	0	1	0	1	8	0	0	29	0	13	7	0	0	0	0	0	0	4	0	0	0	0	0	0	PT
RO	0	0	3	1	1	1	2	1	1	0	3	15	1	0	4	0	8	6	0	1	1	3	0	0	10	0	0	0	0	0	1	RO
RS	1	0	4	0	2	1	2	1	1	0	4	19	1	0	5	0	9	6	0	2	3	4	0	0	18	0	0	0	0	0	0	RS
RUE	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	RUE
SE	0	0	0	0	0	1	0	0	0	0	0	5	1	0	1	0	3	7	0	0	0	0	0	0	1	0	0	0	0	0	0	SE
SI	0	0	10	0	1	2	1	1	3	0	5	31	1	0	8	0	15	8	0	1	5	3	0	0	48	0	0	0	0	0	0	SI
SK	0	0	6	0	1	2	0	1	1	0	9	28	1	0	3	0	11	8	0	1	3	7	0	0	13	0	0	0	0	0	0	SK
TJ	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	TJ
TM	0	1	1	3	0	0	0	1	0	0	1	5	0	0	1	0	3	3	2	0	0	1	0	0	3	0	2	0	0	0	0	TM
TR	0	1	1	2	0	1	1	1	0	0	1	7	0	0	2	0	4	3	2	2	1	1	0	0	5	0	0	0	0	0	0	TR
UA	0	0	1	1	0	1	0	2	0	0	2	11	1	0	1	1	5	6	1	0	1	1	0	0	3	0	1	0	0	0	0	UA
UZ	0	0	1	1	0	0	0	1	0	0	1	4	0	0	1	0	2	3	1	0	0	0	0	0	2	0	3	0	0	0	0	UZ
ATL	0	0	0	0	0	0	0	0	0	0	0	3	0	0	1	0	3	5	0	0	0	0	0	-0	1	0	0	0	0	0	0	ATL
BAS	0	0	1	0	0	2	0	1	0	0	1	13	4	0	1	1	6	13	0	0	0	0	1	0	1	0	0	1	0	0	0	BAS
BLS	0	1	1	3	0	1	2	2	1	0	2	12	1	0	2	1	6	7	4	2	1	2	0	0	5	0	1	1	0	0	1	BLS
MED	1	0	4	0	1	2	2	1	2	0	3	19	1	0	21	0	21	8	1	7	3	3	0	0	51	0	0	0	0	0	0	MED
NOS	0	0	1	0	0	2	0	1	0	0	1	14	2	0	1	0	9	33	0	0	0	0	1	0	1	0	0	0	0	0	0	NOS
AST	0	0	0	2	0	0	0	1	0	0	0	2	0	0	1	0	1	1	1	0	0	0	0	0	2	0	1	0	0	0	0	AST
NOA	1	0	2	0	1	1	1	1	1	0	1	9	0	0	10	0	10	4	0	3	1	1	0	0	20	0	0	0	0	0	0	NOA
EXC	0	0	1	1	0	1	0	1	0	0	1	6	0	0	2	0	4	4	0	0	0	0	0	0	4	0	1	0	0	0	0	EXC
EU	0	0	2	0	0	2	1	1	1	0	3	20	1	0	9	0	14	11	0	1	1	1	1	0	14	0	0	0	0	0	0	EU
	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	

Table C.7 Cont.: 2007 country-to-country blame matrices for **SOMO35**.
Units: ppb.d per 15% emis. red. of VOC. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	
AL	2	2	0	1	1	5	1	5	7	4	1	1	1	0	0	2	3	0	0	0	0	1	0	0	0	47	0	0	143	108	AL
AM	0	0	0	0	0	2	0	1	0	10	0	0	0	0	0	6	2	0	0	0	0	0	0	1	0	16	0	0	72	20	AM
AT	0	0	0	4	1	7	1	2	1	2	1	2	1	0	0	0	1	0	0	0	0	0	0	0	0	29	0	0	163	149	AT
AZ	0	0	0	1	1	3	0	2	1	23	1	0	0	0	0	4	3	0	0	0	0	0	0	1	0	30	0	0	107	28	AZ
BA	1	0	0	2	1	7	1	4	5	3	1	1	1	0	0	1	2	0	0	0	0	1	0	0	0	39	0	0	135	111	BA
BE	0	0	0	13	1	4	1	1	0	2	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	32	0	0	156	149	BE
BG	0	1	0	1	1	7	1	11	4	10	1	0	1	0	0	2	6	0	0	0	0	0	0	0	0	35	0	0	120	89	BG
BY	0	0	0	1	1	7	0	1	0	8	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	17	0	0	61	44	BY
CH	0	0	0	4	1	4	1	1	0	2	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	27	0	0	167	142	CH
CY	0	0	0	1	1	5	0	4	2	12	1	0	1	0	0	37	5	0	0	0	0	1	0	1	0	56	0	0	126	59	CY
CZ	0	0	0	4	1	13	1	2	1	3	1	1	2	0	0	0	2	0	0	0	0	0	0	0	0	29	0	0	150	137	CZ
DE	0	0	0	6	1	7	1	1	0	3	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	30	0	0	148	139	DE
DK	0	0	0	4	2	5	0	1	0	4	3	0	0	0	0	0	1	0	0	1	0	0	1	0	0	26	0	0	83	74	DK
EE	0	0	0	1	1	3	0	0	0	7	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	14	0	0	44	34	EE
ES	0	0	0	1	0	2	7	1	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	32	0	0	109	103	ES
FI	0	0	0	0	0	1	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	17	14	FI
FR	0	0	0	5	1	4	1	1	0	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	31	0	0	139	131	FR
GB	0	0	0	3	2	2	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	17	0	0	67	61	GB
GE	0	0	0	1	1	3	0	2	1	18	1	0	0	0	0	5	3	0	0	0	0	0	0	1	0	21	0	0	90	27	GE
GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	4	3	GL
GR	1	2	0	1	1	6	1	6	4	8	1	1	1	0	0	3	4	0	0	0	0	1	0	0	0	46	0	0	132	101	GR
HR	0	0	0	2	1	8	1	4	4	3	1	2	2	0	0	1	2	0	0	0	0	1	0	0	0	40	0	0	160	133	HR
HU	0	0	0	2	1	14	1	6	4	5	1	1	4	0	0	1	3	0	0	0	0	0	0	0	0	35	0	0	153	131	HU
IE	0	0	0	2	1	2	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	10	0	0	47	43	IE
IS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	11	9	IS
IT	0	0	0	2	1	5	2	3	2	3	1	2	1	0	0	1	2	0	0	0	0	1	0	0	0	51	0	0	230	212	IT
KG	0	0	0	0	0	1	0	0	0	6	0	0	0	1	0	1	1	7	0	0	0	0	0	1	0	6	0	0	31	9	KG
KZT	0	0	0	0	1	2	0	1	0	20	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	17	0	0	45	17	KZT
LT	0	0	0	2	1	7	0	1	0	6	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	18	0	0	63	51	LT
LU	0	0	0	8	1	5	1	1	0	2	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	29	0	0	144	137	LU
LV	0	0	0	2	1	4	0	1	0	5	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	15	0	0	51	41	LV
MD	0	0	0	1	1	8	0	9	1	12	1	0	1	0	0	1	8	0	0	0	0	0	0	0	0	26	0	0	92	62	MD
ME	5	1	0	2	1	5	1	4	5	3	1	1	1	0	0	1	2	0	0	0	0	1	0	0	0	38	0	0	126	99	ME
MK	1	5	0	1	1	5	1	5	6	5	1	0	1	0	0	2	3	0	0	0	0	1	0	0	0	37	0	0	118	89	MK
MT	0	0	14	2	1	5	3	4	2	4	1	1	1	0	0	1	2	0	0	0	0	6	0	0	0	80	0	0	222	202	MT
NL	0	0	0	16	2	5	0	1	0	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	31	0	0	136	129	NL
NO	0	0	0	1	2	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	24	20	NO
PL	0	0	0	3	1	21	0	2	1	4	1	0	1	0	0	0	2	0	0	0	0	0	0	0	0	26	0	0	108	96	PL
PT	0	0	0	1	0	2	38	1	0	2	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	32	0	0	111	107	PT
RO	0	0	0	1	1	9	1	18	3	9	1	0	1	0	0	1	6	0	0	0	0	0	0	0	0	31	0	0	117	90	RO
RS	1	1	0	2	1	8	1	7	12	5	1	1	2	0	0	1	3	0	0	0	0	0	0	0	0	34	0	0	129	97	RS
RUE	0	0	0	0	0	1	0	0	0	10	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	5	0	0	20	7	RUE
SE	0	0	0	1	1	1	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	29	25	SE
SI	0	0	0	3	1	7	1	3	2	3	1	6	1	0	0	1	2	0	0	0	0	0	0	0	0	38	0	0	176	157	SI
SK	0	0	0	3	1	18	1	4	2	5	1	1	5	0	0	0	3	0	0	0	0	0	0	0	0	31	0	0	143	125	SK
TJ	0	0	0	0	0	1	0	0	0	5	0	0	0	3	0	1	1	5	0	0	0	0	0	1	0	6	0	0	25	7	TJ
TM	0	0	0	1	1	3	0	1	0	24	1	0	0	0	0	2	2	2	0	0	0	0	0	1	0	32	0	0	66	25	TM
TR	0	0	0	1	1	4	0	3	1	12	1	0	1	0	0	22	5	0	0	0	0	0	0	1	0	29	0	0	89	40	TR
UA	0	0	0	1	1	8	0	3	1	17	1	0	1	0	0	1	12	0	0	0	0	0	0	0	0	25	0	0	88	49	UA
UZ	0	0	0	1	1	3	0	1	0	23	1	0	0	1	0	2	2	5	0	0	0	0	0	1	0	29	0	0	64	22	UZ
ATL	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	19	16	ATL
BAS	0	0	0	2	2	6	0	1	0	6	4	0	0	0	0	0	1	0	0	1	0	0	1	0	0	21	0	0	71	60	BAS
BLS	0	0	0	1	1	8	0	7	2	35	1	0	1	0	0	8	12	0	0	0	0	0	0	0	0	44	0	0	139	66	BLS
MED	1	1	0	2	1	6	2	5	3	7	1	1	1	0	0	7	4	0	0	0	0	3	0	0	0	73	0	0	196	162	MED
NOS	0	0	0	4	4	3	0	1	0	3	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	24	0	0	87	77	NOS
AST	0	0	0	0	0	1	0	1	0	9	0	0	0	0	0	3	1	0	0	0	0	0	0	3	0	11	0	0	35	14	AST
NOA	0	0	0	1	1	3	1	2	1	3	0	0	1	0	0	2	2	0	0	0	0	1	0	0	0	45	0	0	88	73	NOA
EXC	0	0	0	1	0	2	0	1	0	10	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	13	0	0	47	30	EXC
EU	0	0	0	3	1	6	2	2	1	3	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	26	0	0	109	98	EU
	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	

Table C.8: 2007 country-to-country blame matrices for **PM2.5**.
Units: ng/m^3 per 15% emis. red. of PPM. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	
AL	48	0	1	0	4	0	5	0	0	0	1	2	0	0	2	0	3	0	0	22	1	2	0	0	14	0	0	0	0	0	0	AL
AM	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	AM
AT	0	0	57	0	0	1	0	0	3	0	5	18	0	0	1	0	12	1	0	0	1	3	0	0	10	0	0	0	0	0	0	AT
AZ	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	4	0	0	0	0	AZ
BA	1	0	3	0	41	0	1	0	0	0	2	3	0	0	2	0	5	0	0	1	8	5	0	0	13	0	0	0	0	0	0	BA
BE	0	0	1	0	0	134	0	0	0	0	1	32	2	0	1	0	99	13	0	0	0	0	1	0	0	0	0	0	2	0	0	BE
BG	1	0	1	0	2	0	135	0	0	0	1	2	0	0	1	0	2	0	0	9	1	3	0	0	3	0	0	0	0	0	1	BG
BY	0	0	1	0	0	0	0	34	0	0	2	3	1	2	0	1	3	1	0	0	0	1	0	0	1	0	1	3	0	2	0	BY
CH	0	0	3	0	0	1	0	0	46	0	1	17	0	0	2	0	49	1	0	0	0	0	0	0	13	0	0	0	0	0	0	CH
CY	0	0	0	0	0	0	2	0	0	25	0	0	0	0	1	0	1	0	0	4	0	0	0	0	2	0	0	0	0	0	0	CY
CZ	0	0	12	0	0	1	0	0	1	0	52	28	1	0	1	0	14	2	0	0	1	3	0	0	3	0	0	0	0	0	0	CZ
DE	0	0	4	0	0	6	0	0	2	0	4	101	4	0	1	0	45	4	0	0	0	0	0	0	1	0	0	0	1	0	0	DE
DK	0	0	0	0	0	1	0	0	0	0	0	7	86	0	0	0	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	DK
EE	0	0	0	0	0	0	0	2	0	0	0	2	2	58	0	8	1	1	0	0	0	0	0	0	0	0	0	2	0	8	0	EE
ES	0	0	0	0	0	1	0	0	0	0	0	1	0	0	94	0	17	1	0	0	0	0	0	0	1	0	0	0	0	0	0	ES
FI	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	FI
FR	0	0	1	0	0	6	0	0	2	0	1	11	1	0	5	0	207	6	0	0	0	0	0	0	4	0	0	0	1	0	0	FR
GB	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	6	64	0	0	0	0	2	0	0	0	0	0	0	0	0	GB
GE	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	2	0	0	0	0	GE
GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	GL
GR	4	0	1	0	2	0	23	0	0	0	1	1	0	0	2	0	2	0	0	80	1	1	0	0	7	0	0	0	0	0	0	GR
HR	0	0	7	0	12	0	1	0	1	0	3	5	0	0	2	0	6	1	0	1	30	9	0	0	22	0	0	0	0	0	0	HR
HU	0	0	12	0	3	0	1	1	1	0	5	7	1	0	1	0	5	1	0	0	6	63	0	0	8	0	0	0	0	0	0	HU
IE	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	4	9	0	0	0	0	18	0	0	0	0	0	0	0	0	IE
IS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	IS
IT	0	0	3	0	2	0	1	0	2	0	1	3	0	0	5	0	13	0	0	1	2	1	0	0	134	0	0	0	0	0	0	IT
KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	47	0	0	0	0	KG
KZT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	80	0	0	0	0	KZT
LT	0	0	1	0	0	1	0	7	0	0	1	4	3	3	0	1	3	1	0	0	0	0	0	0	1	0	0	29	0	8	0	LT
LU	0	0	1	0	0	26	0	0	1	0	2	42	1	0	1	0	313	6	0	0	0	0	0	0	1	0	0	0	71	0	0	LU
LV	0	0	0	0	0	0	0	4	0	0	1	3	2	9	0	3	2	1	0	0	0	0	0	0	0	0	0	7	0	36	0	LV
MD	0	0	1	0	1	0	4	2	0	0	1	2	1	0	0	0	2	0	0	1	0	2	0	0	1	0	1	0	0	0	40	MD
ME	6	0	2	0	10	0	3	0	0	0	1	2	0	0	2	0	4	0	0	3	2	2	0	0	12	0	0	0	0	0	0	ME
MK	8	0	1	0	3	0	20	0	0	0	1	2	0	0	1	0	2	0	0	34	1	2	0	0	6	0	0	0	0	0	0	MK
MT	0	0	1	0	2	0	1	0	0	0	0	1	0	0	8	0	11	0	0	2	1	1	0	0	34	0	0	0	0	0	0	MT
NL	0	0	0	0	0	27	0	0	0	0	1	36	3	0	1	0	35	15	0	0	0	0	1	0	0	0	0	0	0	0	0	NL
NO	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	NO
PL	0	0	2	0	0	1	0	3	0	0	8	14	4	0	0	0	7	2	0	0	0	2	0	0	2	0	0	1	0	1	0	PL
PT	0	0	0	0	0	0	0	0	0	0	0	1	0	0	36	0	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	PT
RO	0	0	2	0	2	0	11	1	0	0	2	2	1	0	1	0	2	0	0	1	1	6	0	0	3	0	0	0	0	0	2	RO
RS	2	0	3	0	9	0	7	0	0	0	2	3	0	0	1	0	3	0	0	3	3	9	0	0	7	0	0	0	0	0	0	RS
RUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	RUE
SE	0	0	0	0	0	0	0	0	0	0	0	1	3	1	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	SE
SI	0	0	21	0	1	0	1	0	1	0	3	7	0	0	2	0	8	1	0	0	10	4	0	0	39	0	0	0	0	0	0	SI
SK	0	0	10	0	1	0	1	1	1	0	11	7	1	0	1	0	6	1	0	0	2	18	0	0	4	0	0	0	0	0	0	SK
TJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	22	0	0	0	0	TJ
TM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	24	0	0	0	0	TM
TR	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	1	0	1	0	0	0	0	TR
UA	0	0	1	0	0	0	2	3	0	0	1	2	1	0	0	0	2	0	0	1	0	2	0	0	1	0	1	0	0	0	3	UA
UZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	57	0	0	0	0	UZ
ATL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	ATL
BAS	0	0	0	0	0	1	0	1	0	0	0	5	12	4	0	7	3	2	0	0	0	0	0	0	0	0	0	1	0	3	0	BAS
BLS	0	0	0	0	0	0	8	1	0	0	0	1	0	0	0	0	1	0	1	2	0	1	0	0	1	0	1	0	0	0	1	BLS
MED	1	0	1	0	2	0	4	0	0	0	0	2	0	0	12	0	15	0	0	9	1	1	0	0	24	0	0	0	0	0	0	MED
NOS	0	0	0	0	0	2	0	0	0	0	0	4	4	0	0	0	10	20	0	0	0	0	1	0	0	0	0	0	0	0	0	NOS
AST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	0	0	0	0	AST
NOA	0	0	0	0	0	0	2	0	0	0	0	1	0	0	4	0	4	0	0	3	0	0	0	0	5	0	0	0	0	0	0	NOA
EXC	0	0	1	0	0	1	1	1	0	0	1	3	1	0	3	1	7	1	0	1	0	1	0	0	2	1	14	0	0	0	0	EXC
EU	0	0	3	0	1	3	5	1	1	0	3	14	2	1	13	3	37	6	0	3	0	2	1	0	12	0	0	1	0	1	0	EU
	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	

Table C.8 Cont.: 2007 country-to-country blame matrices for **PM2.5**.
Units: ng/m^3 per 15% emis. red. of PPM. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	
AL	7	9	0	0	0	3	1	3	21	1	0	0	2	0	0	1	3	0	0	0	0	10	0	0	0	0	0	0	156	61	AL
AM	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	19	1	1	0	0	0	0	0	7	0	0	0	0	35	1	AM
AT	0	0	0	1	0	6	0	1	1	1	0	3	5	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	132	124	AT
AZ	0	0	0	0	0	0	0	0	0	9	0	0	0	0	2	8	1	2	0	0	0	0	0	10	0	0	0	0	44	2	AZ
BA	5	0	0	0	0	5	1	3	14	1	0	1	3	0	0	0	3	0	0	0	0	4	0	0	0	0	0	0	124	51	BA
BE	0	0	0	25	1	3	0	0	0	1	0	0	0	0	0	0	1	0	1	1	0	0	24	0	0	0	0	0	318	315	BE
BG	1	3	0	0	0	4	0	20	12	4	0	0	3	0	0	5	14	0	0	0	2	2	0	0	0	0	0	0	230	186	BG
BY	0	0	0	0	1	20	0	2	0	13	1	0	3	0	0	1	24	0	0	1	0	0	1	0	0	0	0	0	122	48	BY
CH	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	139	92	CH
CY	0	0	0	0	0	1	0	1	1	3	0	0	0	0	0	78	5	0	0	0	1	15	0	5	1	0	0	0	128	39	CY
CZ	0	0	0	1	1	24	0	1	1	1	1	1	11	0	0	0	4	0	0	1	0	0	2	0	0	0	0	0	165	156	CZ
DE	0	0	0	7	1	8	0	0	0	1	1	0	1	0	0	0	2	0	0	3	0	0	7	0	0	0	0	0	195	189	DE
DK	0	0	0	2	6	5	0	0	0	2	5	0	0	0	0	0	1	0	1	17	0	0	16	0	0	0	0	0	130	120	DK
EE	0	0	0	0	2	4	0	0	0	13	4	0	0	0	0	0	4	0	0	8	0	0	1	0	0	0	0	0	114	92	EE
ES	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	1	0	0	0	0	0	140	140	ES
FI	0	0	0	0	2	1	0	0	0	4	4	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	49	42	FI
FR	0	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	6	0	0	0	0	0	253	249	FR
GB	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	1	0	4	0	0	0	9	0	0	0	0	0	85	83	GB
GE	0	0	0	0	0	0	0	0	0	8	0	0	0	0	1	15	3	1	0	0	0	0	0	3	0	0	0	0	43	3	GE
GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	GL
GR	1	7	0	0	0	3	0	5	7	2	0	0	1	0	0	8	7	0	0	0	1	12	0	0	1	0	0	0	169	129	GR
HR	1	0	0	0	0	7	1	3	10	1	0	6	5	0	0	0	3	0	0	0	0	6	1	0	0	0	0	0	138	79	HR
HU	0	0	0	0	1	17	0	8	11	1	0	3	33	0	0	0	9	0	0	0	0	1	1	0	0	0	0	0	200	167	HU
IE	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	2	0	0	0	0	0	38	37	IE
IS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	IS
IT	0	0	0	0	0	2	1	1	2	0	0	2	1	0	0	0	1	0	0	0	0	13	0	0	0	0	0	0	178	169	IT
KG	0	0	0	0	0	0	0	0	0	2	0	0	0	8	1	0	0	77	0	0	0	0	0	4	0	0	0	0	210	0	KG
KZT	0	0	0	0	0	0	0	0	0	25	0	0	0	0	1	0	2	7	0	0	0	0	0	1	0	0	0	0	122	1	KZT
LT	0	0	0	1	2	20	0	1	0	12	3	0	1	0	0	1	8	0	0	4	0	0	2	0	0	0	0	0	114	83	LT
LU	0	0	0	8	0	3	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	7	0	0	0	0	0	481	478	LU
LV	0	0	0	0	2	9	0	0	0	10	3	0	1	0	0	1	6	0	0	5	0	0	1	0	0	0	0	0	104	80	LV
MD	0	0	0	0	1	10	0	36	2	8	0	0	3	0	0	3	68	0	0	0	1	1	0	0	0	0	0	0	192	67	MD
ME	45	2	0	0	0	3	0	3	19	1	0	0	2	0	0	1	2	0	0	0	0	5	0	0	0	0	0	0	128	40	ME
MK	2	42	0	0	0	3	0	5	23	1	0	0	2	0	0	2	4	0	0	0	0	3	0	0	0	0	0	0	167	82	MK
MT	0	0	22	0	0	1	2	1	1	0	0	0	0	0	0	1	1	0	0	0	0	96	0	0	3	0	0	0	93	86	MT
NL	0	0	0	97	1	3	0	0	0	1	1	0	0	0	0	0	2	0	1	2	0	0	44	0	0	0	0	0	225	221	NL
NO	0	0	0	0	23	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	29	5	NO
PL	0	0	0	1	2	116	0	1	1	3	2	0	7	0	0	0	10	0	0	3	0	0	2	0	0	0	0	0	193	172	PL
PT	0	0	0	0	0	0	280	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	1	0	0	0	0	0	330	329	PT
RO	1	1	0	0	0	9	0	89	8	3	0	0	7	0	0	2	23	0	0	0	1	1	0	0	0	0	0	0	183	138	RO
RS	4	3	0	0	0	7	0	13	84	1	0	1	6	0	0	1	6	0	0	0	0	2	0	0	0	0	0	0	182	67	RS
RUE	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	55	3	RUE
SE	0	0	0	0	9	1	0	0	0	1	17	0	0	0	0	0	1	0	0	3	0	0	2	0	0	0	0	0	40	29	SE
SI	0	0	0	0	0	6	1	1	2	1	0	45	3	0	0	0	2	0	0	0	0	5	1	0	0	0	0	0	160	142	SI
SK	0	0	0	1	1	35	0	4	4	2	0	2	108	0	0	0	9	0	0	1	0	1	1	0	0	0	0	0	230	209	SK
TJ	0	0	0	0	0	0	0	0	0	1	0	0	0	50	2	0	0	65	0	0	0	0	0	14	0	0	0	0	152	0	TJ
TM	0	0	0	0	0	0	0	0	0	8	0	0	0	2	37	2	1	32	0	0	0	0	0	12	0	0	0	0	109	1	TM
TR	0	0	0	0	0	1	0	2	1	4	0	0	0	0	0	114	7	0	0	0	1	3	0	3	0	0	0	0	141	12	TR
UA	0	0	0	0	1	13	0	6	1	19	1	0	4	0	0	3	171	0	0	1	1	0	0	0	0	0	0	0	240	37	UA
UZ	0	0	0	0	0	0	0	0	0	9	0	0	0	8	8	1	1	118	0	0	0	0	0	6	0	0	0	0	214	1	UZ
ATL	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	8	7	ATL
BAS	0	0	0	1	4	8	0	0	0	5	12	0	0	0	0	0	2	0	0	19	0	0	4	0	0	0	0	0	74	61	BAS
BLS	0	0	0	0	0	4	0	8	2	21	0	0	1	0	0	37	47	0	0	0	9	1	0	1	0	0	0	0	142	29	BLS
MED	1	1	0	0	0	2	2	2	2	1	0	0	1	0	0	17	4	0	0	0	0	46	0	1	2	0	0	0	106	75	MED
NOS	0	0	0	3	5	2	0	0	0	1	1	0	0	0	0	0	1	0	2	1	0	0	26	0	0	0	0	0	54	48	NOS
AST	0	0	0	0	0	0	0	0	0	4	0	0	0	1	2	7	1	5	0	0	0	1	0	21	0	0	0	0	33	1	AST
NOA	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	4	1	0	0	0	0	11	0	0	8	0	0	0	30	22	NOA
EXC	0	0	0	0	1	3	2	2	1	25	1	0	1	1	1	5	8	5	0	0	0	1	1	1	0	0	0	0	94	31	EXC
EU	0	0	0	2	2	12	9	6	2	2	2	1	3	0	0	1	4	0	1	1	0	2	3	0	0	0	0	0	157	144	EU
	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	

Table C.9: 2007 country-to-country blame matrices for **PM2.5**.
Units: ng/m^3 per 15% emis. red. of SO_x. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	
AL	37	0	1	0	57	1	58	0	0	0	5	7	0	0	16	0	5	2	0	67	5	4	0	0	27	0	1	0	0	0	0	AL
AM	0	8	0	53	1	0	3	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	-0	0	0	0	20	0	0	0	0	AM
AT	0	0	11	0	6	4	5	0	3	0	20	43	0	0	10	0	14	4	0	1	3	4	0	0	20	0	0	0	0	0	0	AT
AZ	0	2	0	92	1	0	2	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	1	41	0	0	0	0	AZ
BA	2	0	2	0	184	1	15	0	1	0	11	13	0	0	16	0	7	3	0	6	14	8	0	0	25	-0	0	0	0	0	0	BA
BE	0	0	1	0	1	68	1	0	0	0	8	51	1	0	14	0	54	42	0	0	0	1	3	0	1	-0	1	0	0	0	0	BE
BG	2	0	1	0	26	1	263	1	0	0	6	7	0	1	6	0	3	1	0	24	2	5	0	0	7	0	3	0	0	0	1	BG
BY	0	0	0	0	4	1	6	28	0	0	6	9	1	4	3	2	2	4	0	2	1	2	0	0	1	0	6	5	0	0	0	BY
CH	0	0	2	0	4	5	2	0	18	-0	7	39	0	0	19	0	35	5	0	0	1	1	0	0	18	0	0	0	0	0	0	CH
CY	1	0	0	1	8	0	38	1	0	11	2	2	0	0	5	0	1	1	0	44	1	1	0	0	5	0	4	0	0	0	0	CY
CZ	0	0	5	0	6	5	4	1	1	0	64	57	1	0	7	0	14	8	0	1	3	5	1	0	7	-0	0	0	0	0	0	CZ
DE	0	0	2	0	1	12	2	1	2	0	17	90	1	1	11	0	26	21	0	0	0	1	1	0	2	0	1	1	0	0	0	DE
DK	0	0	0	0	1	4	0	1	0	0	2	14	7	2	2	1	6	26	0	0	0	0	1	0	0	0	1	1	0	0	0	DK
EE	0	0	0	0	1	1	1	3	0	0	1	4	1	22	1	8	2	6	0	1	0	0	0	0	0	-0	3	3	0	0	0	EE
ES	0	0	0	0	3	2	1	0	0	0	1	5	0	0	178	0	13	5	0	1	1	0	0	0	3	-0	0	0	0	0	0	ES
FI	0	0	0	0	0	0	0	1	0	0	0	1	0	4	0	15	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	FI
FR	0	0	1	-0	3	12	2	0	2	-0	5	28	0	0	39	0	61	21	-0	0	1	1	2	0	7	0	0	0	0	0	0	FR
GB	0	0	0	0	0	2	0	0	0	0	1	7	1	0	2	0	5	67	0	0	0	0	5	0	0	0	0	0	0	0	0	GB
GE	0	2	0	42	2	0	5	0	0	0	1	1	0	0	1	0	0	0	14	1	0	0	0	0	1	0	18	0	0	0	0	GE
GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	GL
GR	8	0	1	0	30	1	169	1	0	0	5	6	0	0	12	0	4	1	0	123	3	3	0	0	17	0	3	0	0	0	1	GR
HR	1	0	4	0	91	2	13	1	1	0	15	18	0	0	18	0	9	3	0	4	34	11	0	0	40	0	0	0	0	0	0	HR
HU	1	0	4	0	36	2	12	1	1	0	23	23	0	0	10	0	7	4	0	3	12	39	0	0	17	0	1	1	0	0	0	HU
IE	0	0	0	0	0	1	0	0	0	0	1	4	0	0	1	0	3	25	0	0	0	0	17	0	0	0	0	0	0	0	0	IE
IS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	IS
IT	1	0	3	0	33	1	9	0	2	0	8	12	0	0	34	0	18	3	0	7	9	3	0	0	109	0	0	0	0	0	0	IT
KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	229	185	0	0	0	0	KG
KZT	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	226	0	0	0	0	KZT
LT	0	0	0	0	2	2	3	8	0	0	4	10	1	5	2	2	3	6	0	1	1	1	0	0	1	-0	3	16	0	1	0	LT
LU	0	0	1	0	1	33	1	0	1	0	12	63	1	1	17	0	54	27	0	0	0	1	2	0	2	0	0	0	2	0	0	LU
LV	0	0	0	0	2	2	2	7	0	0	2	7	1	8	1	4	2	6	0	1	0	1	0	0	1	-0	3	7	0	1	0	LV
MD	0	0	1	1	10	1	26	4	0	0	8	7	0	1	4	1	2	2	0	6	1	4	0	0	2	0	7	1	0	0	12	MD
ME	8	0	1	0	89	1	31	0	0	0	6	9	0	0	14	0	6	2	0	20	6	4	0	0	23	-0	1	0	0	0	0	ME
MK	11	0	1	0	40	1	127	0	0	0	6	7	0	0	11	0	4	1	0	67	3	5	0	0	13	0	2	0	0	0	0	MK
MT	2	0	1	0	32	1	19	0	0	0	4	7	0	0	50	0	14	3	0	23	5	2	0	0	85	-0	0	0	0	0	0	MT
NL	0	0	0	0	0	25	0	0	0	0	6	47	2	0	9	0	28	46	0	0	0	0	3	0	0	0	1	0	0	0	0	NL
NO	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	NO
PL	0	0	1	0	7	3	3	3	0	0	19	32	2	1	5	1	7	9	0	1	2	4	0	0	4	0	1	2	0	0	0	PL
PT	0	0	0	0	2	2	0	0	0	0	1	3	0	0	157	0	9	5	0	0	0	0	1	0	1	-0	0	0	0	0	0	PT
RO	1	0	1	1	23	1	43	2	0	0	10	9	0	1	5	0	3	2	0	8	3	10	0	0	6	0	3	1	0	0	2	RO
RS	4	0	2	0	76	1	40	1	0	0	12	13	0	0	11	0	5	2	0	13	7	13	0	0	14	-0	1	0	0	0	1	RS
RUE	0	0	0	1	0	0	1	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	30	0	0	0	0	RUE
SE	0	0	0	0	0	1	0	1	0	0	1	3	1	2	1	3	1	7	0	0	0	0	0	0	0	0	0	1	0	0	0	SE
SI	0	0	8	0	21	3	9	1	2	0	15	24	0	0	17	0	11	4	0	2	21	7	0	0	74	0	0	0	0	0	0	SI
SK	0	0	4	0	19	2	6	2	1	0	29	24	0	0	7	0	7	4	0	2	7	19	0	0	11	0	1	1	0	0	0	SK
TJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	60	121	0	0	0	0	TJ
TM	0	0	0	4	1	0	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	12	121	0	0	0	0	TM
TR	1	1	0	4	5	0	28	1	0	1	1	2	0	0	3	0	1	0	1	14	0	1	0	0	2	0	6	0	0	0	0	TR
UA	0	0	0	2	6	1	14	6	0	0	6	7	0	2	3	1	2	2	0	4	1	3	0	0	2	0	11	1	0	0	2	UA
UZ	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	208	0	0	0	0	UZ
ATL	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	0	2	4	0	0	0	0	1	0	0	0	0	0	0	0	0	ATL
BAS	0	0	0	0	1	2	1	2	0	0	2	9	2	5	1	5	3	11	0	0	0	0	1	0	0	0	1	2	0	0	0	BAS
BLS	0	0	0	6	6	1	36	2	0	0	4	4	0	1	2	0	1	2	2	9	1	2	0	0	2	0	12	1	0	0	1	BLS
MED	2	0	1	0	27	1	43	0	0	2	4	7	0	0	47	0	14	3	0	41	4	2	0	0	41	0	2	0	0	0	0	MED
NOS	0	0	0	0	0	3	0	0	0	0	1	8	1	1	2	0	6	35	0	0	0	0	2	0	0	0	0	0	0	0	0	NOS
AST	0	0	0	4	1	0	2	0	0	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	15	53	0	0	0	0	AST
NOA	1	0	0	0	10	0	23	0	0	0	2	3	0	0	23	0	5	1	0	25	1	1	0	0	14	0	1	0	0	0	0	NOA
EXC	0	0	0	1	3	1	5	1	0	0	2	5	0	1	7	1	3	3	0	2	1	1	0	0	3	6	50	0	0	0	0	EXC
EU	0	0	1	0	8	5	16	1	1	0	8	20	1	1	35	2	16	13	0	6	2	3	1	0	12	0	1	1	0	0	0	EU
	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	

Table C.9 Cont.: 2007 country-to-country blame matrices for **PM2.5**.
Units: ng/m^3 per 15% emis. red. of SO_x. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	
AL	22	38	1	0	0	16	1	35	99	3	0	1	2	0	0	4	13	0	1	1	1	50	1	0	4	7	3	22	529	249	AL
AM	0	0	0	0	0	2	0	4	1	12	0	0	0	0	6	94	7	5	0	0	1	1	0	39	0	7	0	20	223	12	AM
AT	0	0	0	2	0	35	1	14	8	2	0	3	3	-0	0	1	9	0	1	1	0	6	5	0	1	8	1	3	230	195	AT
AZ	0	0	0	0	0	3	0	4	1	28	0	0	0	0	9	47	10	9	0	0	1	1	0	29	0	6	0	15	258	13	AZ
BA	11	3	0	1	0	28	1	33	81	3	0	1	5	-0	0	2	14	0	1	1	0	21	2	0	2	6	2	7	494	177	BA
BE	0	0	0	14	0	19	0	2	1	2	0	0	1	-0	0	0	5	0	7	5	0	1	53	0	0	13	8	2	295	284	BE
BG	4	10	0	0	0	30	0	125	56	14	0	0	4	-0	0	8	53	0	0	1	5	10	1	1	1	6	2	10	669	486	BG
BY	0	1	0	1	0	63	0	10	5	30	1	0	2	0	0	4	40	0	1	6	0	1	4	1	0	4	2	2	245	126	BY
CH	0	0	0	2	0	13	1	3	3	0	0	0	1	0	0	0	1	0	2	1	0	6	6	0	1	9	1	3	183	155	CH
CY	2	4	0	0	0	9	0	22	13	13	0	0	1	0	0	379	30	0	0	0	4	60	1	22	3	9	10	32	602	145	CY
CZ	0	0	0	2	0	82	0	12	8	4	0	1	7	-0	0	1	17	0	1	3	0	3	9	0	0	9	2	2	326	284	CZ
DE	0	0	0	7	0	40	0	5	2	3	1	0	2	-0	0	0	8	0	3	9	0	2	23	0	0	10	5	2	261	244	DE
DK	0	0	0	3	1	19	0	2	1	5	2	0	0	-0	0	0	5	0	3	28	0	0	39	0	0	8	10	1	106	92	DK
EE	0	0	0	1	0	14	0	3	1	31	2	0	0	-0	0	3	14	0	1	18	0	0	6	1	0	4	3	2	129	72	EE
ES	0	0	0	1	0	3	19	1	1	0	0	0	0	-0	0	0	0	0	13	0	0	14	3	0	2	13	5	4	241	235	ES
FI	0	0	0	0	0	4	0	1	0	14	2	0	0	0	0	0	3	0	1	6	0	0	2	0	0	3	2	1	54	34	FI
FR	0	0	0	4	0	12	1	2	2	1	0	0	1	-0	0	0	1	0	9	2	0	8	19	-0	1	11	7	3	211	200	FR
GB	0	0	0	2	0	6	0	1	0	1	0	0	0	-0	0	0	2	0	10	2	0	0	17	0	0	10	11	0	105	100	GB
GE	0	0	0	0	0	4	0	7	2	22	0	0	0	0	5	64	17	4	0	0	3	1	0	21	0	6	1	18	215	22	GE
GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	GL
GR	6	25	1	0	0	20	1	51	47	8	0	0	3	-0	0	12	30	0	1	1	2	48	1	0	4	7	4	23	592	417	GR
HR	4	2	0	1	0	39	1	32	59	3	0	4	6	-0	0	2	16	0	1	1	0	28	3	0	1	7	2	5	436	222	HR
HU	2	2	0	1	0	75	1	49	53	6	0	3	16	-0	0	3	32	0	1	2	0	9	4	1	1	7	1	4	442	290	HU
IE	0	0	0	1	0	4	0	1	0	1	0	0	0	-0	0	0	1	0	12	1	0	0	5	0	0	12	13	0	62	59	IE
IS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	6	6	0	6	4	IS
IT	3	3	1	1	0	18	2	11	18	1	0	2	2	-0	0	1	5	0	2	0	0	56	2	0	3	9	4	14	321	245	IT
KG	0	0	0	0	0	0	0	0	0	7	0	0	0	8	2	4	1	190	0	0	0	0	0	16	0	7	0	20	629	1	KG
KZT	0	0	0	0	0	3	0	2	1	79	0	0	0	0	2	3	12	15	0	0	0	0	0	6	0	5	0	6	368	9	KZT
LT	0	0	0	1	0	50	0	8	3	23	1	0	1	-0	0	3	23	0	1	14	0	1	7	1	0	5	3	2	190	121	LT
LU	0	0	0	9	0	25	1	4	1	2	0	0	1	-0	0	0	7	0	5	3	0	2	26	0	0	12	5	3	273	259	LU
LV	0	0	0	1	0	26	0	6	2	24	2	0	1	-0	0	3	19	0	1	14	0	1	7	1	0	4	3	2	143	82	LV
MD	1	2	0	0	0	56	0	100	14	24	0	0	4	0	0	9	130	1	0	2	4	4	2	2	1	6	2	5	443	228	MD
ME	58	11	0	0	0	16	1	35	93	3	0	1	3	0	0	3	12	0	1	1	0	29	2	0	3	7	2	15	457	173	ME
MK	10	46	0	0	0	20	1	52	91	4	0	1	3	-0	0	5	18	0	1	1	1	19	1	0	3	6	2	17	551	319	MK
MT	3	4	82	0	0	10	2	14	17	1	0	1	1	0	0	3	4	0	2	0	0	266	2	0	16	9	17	40	391	319	MT
NL	0	0	0	23	0	21	0	2	0	3	1	0	1	-0	0	0	7	0	7	8	0	1	76	0	0	12	10	2	231	218	NL
NO	0	0	0	0	2	2	0	0	0	2	1	0	0	0	0	0	1	0	1	2	0	0	4	0	0	3	3	0	18	12	NO
PL	0	0	0	2	0	158	0	12	9	9	1	1	5	-0	0	2	26	0	1	10	0	2	10	0	0	7	3	2	335	274	PL
PT	0	0	0	1	0	2	68	1	1	0	0	0	0	-0	0	0	0	0	40	0	0	3	3	0	1	13	10	2	256	252	PT
RO	2	4	0	0	0	50	0	209	39	12	0	1	7	-0	0	6	66	0	0	1	3	6	2	1	1	6	1	5	533	367	RO
RS	11	9	0	1	0	37	1	89	178	5	0	1	7	-0	0	3	26	0	1	1	1	13	2	1	2	6	1	9	584	262	RS
RUE	0	0	0	0	0	3	0	1	0	69	0	0	0	0	0	2	10	1	0	1	0	0	0	1	0	4	0	1	126	10	RUE
SE	0	0	0	1	1	5	0	1	0	5	4	0	0	0	0	0	2	0	1	8	0	0	7	0	0	4	3	1	39	29	SE
SI	1	1	0	1	0	38	1	22	21	3	0	13	5	-0	0	1	14	0	1	1	0	27	4	0	1	8	2	4	339	253	SI
SK	1	1	0	1	0	111	1	29	27	6	0	2	25	0	0	3	31	0	1	2	0	5	5	1	0	7	2	3	385	286	SK
TJ	0	0	0	0	0	0	0	0	0	6	0	0	0	25	6	4	1	180	0	0	0	0	0	16	0	8	0	23	406	1	TJ
TM	0	0	0	0	0	2	0	2	1	30	0	0	0	1	22	15	7	61	0	0	0	0	0	20	0	6	0	15	285	9	TM
TR	1	2	0	0	0	10	0	22	9	16	0	0	1	0	1	214	35	1	0	0	5	11	0	18	2	8	2	27	384	88	TR
UA	1	1	0	0	0	50	0	32	8	43	0	0	3	0	1	9	160	1	0	2	3	2	2	2	0	5	1	4	385	133	UA
UZ	0	0	0	0	0	2	0	2	1	34	0	0	0	5	8	8	8	143	0	0	0	0	0	11	0	6	0	12	474	9	UZ
ATL	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	5	0	0	0	1	0	0	9	8	0	18	14	ATL
BAS	0	0	0	1	1	21	0	3	1	12	3	0	1	0	0	1	8	0	2	30	0	0	13	0	0	5	5	1	102	74	BAS
BLS	1	2	0	0	0	28	0	46	10	53	0	0	2	0	1	44	125	1	0	1	21	5	1	5	1	6	6	8	408	140	BLS
MED	4	6	2	0	0	14	2	22	22	5	0	1	2	0	0	49	17	0	2	1	2	133	2	4	8	9	12	24	391	250	MED
NOS	0	0	0	2	1	7	0	1	0	2	0	0	0	0	0	0	2	0	6	4	0	0	35	0	0	7	13	0	78	71	NOS
AST	0	0	0	0	0	1	0	2	1	14	0	0	0	1	4	46	6	20	0	0	0	4	0	64	1	11	1	15	177	12	AST
NOA	2	4	2	0	0	5	2	10	9	2	0	0	1	0	0	15	7	0	1	0	1	53	1	1	20	12	5	28	170	116	NOA
EXC	0	1	0	0	0	10	1	7	4	47	0	0	1	0	1	10	15	9	1	1	0	3	2	3	0	5	1	4	206	55	EXC
EU	1	2	0	2	0	31	4	21	10	5	1	1	2	-0	0	2	12	0	5	4	0	10	10	0	1	8	5	4	247	202	EU
	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	

Table C.10: 2007 country-to-country blame matrices for **PM2.5**.
Units: ng/m^3 per 15% emis. red. of NO_x. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	
AL	13	0	2	0	6	0	5	0	0	0	2	5	0	0	1	0	3	2	0	7	2	3	0	0	10	0	0	0	0	0	0	AL
AM	0	28	0	16	0	0	0	0	0	0	0	1	0	0	0	0	1	1	4	0	0	0	0	0	1	0	1	0	0	0	0	AM
AT	0	0	41	0	0	5	1	0	12	0	15	85	1	0	2	0	21	9	0	0	3	7	0	0	22	0	0	0	0	0	0	AT
AZ	0	12	0	39	0	0	0	0	0	0	0	1	0	0	0	0	1	1	9	0	0	0	0	0	1	0	3	0	0	0	0	AZ
BA	0	0	7	0	19	1	1	0	1	0	6	12	0	0	1	0	3	3	0	0	7	8	0	0	13	0	0	0	0	0	0	BA
BE	0	0	5	0	0	-4	0	0	2	0	7	58	3	0	3	0	56	34	0	0	0	1	3	0	2	0	0	0	1	0	0	BE
BG	1	0	2	0	2	0	24	1	0	0	1	4	0	0	1	0	1	1	0	4	1	2	0	0	3	0	0	0	0	0	1	BG
BY	0	0	2	0	0	1	1	10	1	0	4	11	2	1	1	2	4	5	0	0	0	2	0	0	1	0	2	3	0	1	0	BY
CH	0	0	14	0	0	7	0	0	62	0	6	106	0	0	3	0	63	10	0	0	1	1	0	0	42	0	0	0	1	0	0	CH
CY	0	0	0	0	0	-0	2	0	0	5	-0	-0	-0	0	0	0	0	-0	0	4	0	0	0	0	1	0	0	0	-0	0	0	CY
CZ	0	0	25	0	1	5	1	1	5	0	16	79	1	0	2	0	20	12	0	0	2	9	1	0	8	0	0	0	0	0	0	CZ
DE	0	0	11	0	0	9	0	1	7	0	11	92	3	0	2	0	37	20	0	0	0	2	1	0	4	0	0	0	1	0	0	DE
DK	0	0	1	0	0	3	0	1	0	0	2	19	7	0	0	0	7	11	0	0	0	1	1	0	0	0	0	1	0	0	0	DK
EE	0	0	0	0	0	0	0	3	0	0	0	2	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	2	0	1	0	EE
ES	0	0	1	0	0	3	0	0	1	0	1	7	0	0	65	0	25	6	0	0	0	0	0	0	3	0	0	0	0	0	0	ES
FI	0	0	0	0	0	-0	0	0	0	0	-0	-0	-0	0	0	2	0	-0	0	0	0	0	0	0	0	0	0	0	-0	0	0	FI
FR	0	0	5	0	0	15	0	0	7	0	5	56	1	0	7	0	107	28	0	0	0	1	1	0	14	0	0	0	1	0	0	FR
GB	0	0	1	0	0	2	0	0	0	0	2	14	2	0	0	0	6	31	0	0	0	0	3	0	0	0	0	0	0	0	0	GB
GE	0	7	0	13	0	0	0	0	0	0	0	1	0	0	0	0	1	1	12	0	0	0	0	0	0	0	1	0	0	0	0	GE
GL	0	-0	0	-0	0	0	0	0	0	-0	0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	-0	0	0	-0	0	0	GL
GR	2	0	1	0	2	0	17	0	0	0	1	2	0	0	1	0	1	1	0	28	1	1	0	0	4	0	0	0	0	0	0	GR
HR	0	0	14	0	9	1	1	0	2	0	10	22	1	0	1	0	6	5	0	0	16	13	0	0	31	0	0	0	0	0	0	HR
HU	0	0	16	0	5	2	2	1	2	0	13	28	1	0	1	0	9	7	0	1	10	28	0	0	20	0	0	0	0	0	0	HU
IE	0	0	1	0	0	2	0	0	0	0	2	11	2	0	0	0	5	42	0	0	0	0	8	0	0	0	0	0	0	0	0	IE
IS	0	0	0	0	0	-0	0	0	0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	IS
IT	0	0	12	0	2	1	1	0	6	0	4	18	0	0	2	0	13	3	0	1	5	3	0	0	192	0	0	0	0	0	0	IT
KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	23	0	0	0	0	KG
KZT	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	27	0	0	0	0	KZT
LT	0	0	2	0	0	2	0	7	1	0	4	14	2	1	1	1	5	4	0	0	0	1	0	0	1	0	1	3	0	2	0	LT
LU	0	0	6	0	0	17	0	0	4	0	10	70	1	0	4	0	69	23	0	0	0	1	2	0	4	0	0	0	-1	0	0	LU
LV	0	0	1	0	0	1	0	5	0	0	1	6	1	1	0	1	2	2	0	0	0	1	0	0	0	0	1	3	0	1	0	LV
MD	0	0	3	0	1	1	4	3	1	0	3	8	1	0	1	1	3	5	0	1	1	5	0	0	4	0	1	1	0	1	5	MD
ME	3	0	4	0	12	0	4	0	1	0	3	6	0	0	1	0	3	2	0	4	3	4	0	0	10	0	0	0	0	0	0	ME
MK	4	0	2	0	4	1	14	0	0	0	2	5	0	0	1	0	3	2	0	12	2	3	0	0	6	0	0	0	0	0	0	MK
MT	0	0	0	0	1	-0	1	0	0	0	-0	-1	-0	-0	0	-0	1	-1	0	3	1	0	0	0	7	0	0	-0	-0	-0	0	MT
NL	0	0	3	0	0	7	0	0	1	0	5	63	6	0	2	0	36	31	0	0	0	1	2	0	1	0	0	0	1	0	0	NL
NO	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NO
PL	0	0	8	0	1	2	0	3	1	0	12	31	4	0	1	1	10	9	0	0	1	5	1	0	4	0	0	1	0	1	0	PL
PT	0	0	0	0	0	1	0	0	0	0	0	3	0	0	39	0	10	2	0	0	0	0	0	0	1	0	0	0	0	0	0	PT
RO	0	0	4	0	2	1	8	1	1	0	4	10	1	0	1	0	4	4	0	2	2	9	0	0	6	0	0	0	0	0	1	RO
RS	1	0	6	0	9	1	6	1	1	0	6	14	1	0	1	0	4	5	0	4	4	13	0	0	10	0	0	0	0	0	0	RS
RUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	RUE
SE	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SE
SI	0	0	34	0	2	2	1	0	5	0	14	42	1	0	1	0	11	7	0	1	15	10	0	0	72	0	0	0	0	0	0	SI
SK	0	0	14	0	2	2	1	1	2	0	14	27	1	0	1	0	8	6	0	0	5	22	0	0	10	0	0	0	0	0	0	SK
TJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	12	0	0	0	0	TJ
TM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	TM
TR	0	2	0	1	0	0	3	0	0	0	0	1	0	0	0	0	1	1	0	2	0	0	0	0	1	0	0	0	0	0	0	TR
UA	0	0	2	0	0	1	1	4	0	0	2	6	1	0	0	1	2	3	0	0	1	3	0	0	2	0	2	1	0	0	1	UA
UZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	23	0	0	0	0	UZ
ATL	0	0	0	0	0	0	0	0	0	0	0	1	0	0	-0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	ATL
BAS	0	0	1	0	0	1	0	1	0	0	1	7	1	0	0	0	3	2	0	0	0	0	0	0	0	0	0	1	0	0	0	BAS
BLS	0	0	0	1	0	0	2	1	0	0	0	1	0	0	0	0	0	0	1	-0	0	1	0	0	-0	0	1	0	0	0	1	BLS
MED	0	0	1	0	1	0	3	0	0	0	0	1	-0	0	2	0	4	-0	0	4	1	0	0	0	12	0	0	0	0	0	0	MED
NOS	0	0	1	0	0	1	0	0	0	0	2	11	2	0	0	0	7	6	0	0	0	0	1	0	0	0	0	0	0	0	0	NOS
AST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	AST
NOA	0	0	0	0	0	-0	1	0	0	0	0	-0	-0	0	0	0	0	-0	0	3	0	0	0	0	2	0	0	0	-0	0	0	NOA
EXC	0	0	1	0	0	1	1	1	1	0	1	6	0	0	2	0	5	3	0	0	0	1	0	0	4	0	6	0	0	0	0	EXC
EU	0	0	6	0	1	4	2	1	3	0	4	27	1	0	10	0	24	11	0	1	1	3	1	0	19	0	0	0	0	0	0	EU
	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	

Table C.10 Cont.: 2007 country-to-country blame matrices for **PM2.5**.
Units: ng/m^3 per 15% emis. red. of NO_x. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	
AL	6	4	0	1	0	4	0	5	19	1	0	0	1	0	0	1	2	0	1	0	0	6	1	0	0	5	0	0	109	53	AL
AM	0	0	0	0	0	1	0	1	0	5	0	0	0	0	1	27	1	0	0	0	1	1	1	5	0	4	0	0	93	9	AM
AT	0	0	0	5	1	8	0	3	1	2	0	5	2	0	0	0	2	0	1	1	0	2	6	0	0	6	0	0	254	233	AT
AZ	0	0	0	0	0	1	0	1	0	13	0	0	0	0	1	11	2	1	0	0	0	0	1	4	0	4	0	0	99	9	AZ
BA	2	0	0	1	0	7	0	4	9	1	0	1	2	0	0	0	2	0	1	1	0	2	2	0	0	5	0	0	114	72	BA
BE	0	0	0	27	1	8	0	1	0	2	1	0	1	0	0	0	2	0	7	4	0	1	25	0	0	15	0	0	219	210	BE
BG	1	1	0	0	0	2	0	16	7	3	0	0	1	0	0	1	5	0	1	0	2	1	1	0	0	5	0	0	90	64	BG
BY	0	0	0	1	1	21	0	3	1	29	2	0	1	0	0	1	12	0	1	4	0	0	3	0	0	4	0	0	127	69	BY
CH	0	0	0	7	0	4	0	0	0	1	0	1	0	0	0	0	0	0	1	1	0	2	7	0	0	6	0	0	333	267	CH
CY	0	0	0	-0	0	0	0	1	1	2	0	0	0	0	0	23	1	0	0	-0	1	9	-0	2	0	5	0	0	43	13	CY
CZ	0	0	0	7	1	15	0	3	1	4	1	3	4	0	0	0	3	0	2	3	0	1	8	0	0	8	0	0	232	213	CZ
DE	0	0	0	14	1	12	0	1	0	3	1	0	1	0	0	0	2	0	4	5	0	1	16	0	0	10	0	0	241	226	DE
DK	0	0	0	4	3	11	0	1	0	4	3	0	1	0	0	0	2	0	2	10	0	0	13	0	0	6	0	0	83	73	DK
EE	0	0	0	0	0	3	0	0	0	7	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	2	0	0	27	14	EE
ES	0	0	0	2	0	1	4	0	0	1	0	0	0	0	0	0	0	0	4	0	0	2	3	0	0	6	0	0	122	119	ES
FI	0	0	0	-0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	1	0	0	5	2	FI
FR	0	0	0	12	1	5	0	0	0	2	1	0	0	0	0	0	1	0	5	2	0	2	21	0	0	8	0	0	275	263	FR
GB	0	0	0	6	1	5	0	0	0	2	1	0	0	0	0	0	1	0	4	3	0	0	11	0	0	6	0	0	79	74	GB
GE	0	0	0	0	0	1	0	1	0	9	0	0	0	0	0	16	1	0	0	0	1	0	0	2	0	3	0	0	67	7	GE
GL	0	0	-0	0	0	0	-0	0	0	0	0	0	0	-0	-0	-0	0	-0	0	0	0	-0	0	-0	-0	0	0	0	0	0	GL
GR	1	3	0	0	0	1	0	6	5	1	0	0	0	0	0	2	2	0	1	0	1	5	0	0	0	5	0	0	84	63	GR
HR	1	0	0	2	0	10	0	5	10	2	0	4	3	0	0	0	2	0	1	1	0	4	3	0	0	6	0	0	173	131	HR
HU	1	0	0	2	1	18	0	15	13	5	1	4	9	0	0	1	6	0	2	2	0	3	4	0	0	7	0	0	224	179	HU
IE	0	0	0	5	1	3	0	0	0	1	1	0	0	0	0	0	1	0	5	2	0	0	8	0	0	4	0	0	84	81	IE
IS	0	0	0	-0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	IS
IT	0	0	0	2	0	3	0	2	2	1	0	5	1	0	0	0	1	0	1	0	0	10	2	0	0	7	0	0	280	263	IT
KG	0	0	0	0	0	0	0	0	0	4	0	0	0	7	1	1	0	27	0	0	0	0	0	5	0	7	0	0	84	2	KG
KZT	0	0	0	0	0	1	0	0	0	32	0	0	0	0	1	0	1	2	0	0	0	0	0	2	0	4	0	0	71	5	KZT
LT	0	0	0	2	1	20	0	2	1	23	2	0	1	0	0	0	6	0	1	5	0	0	3	0	0	3	0	0	112	71	LT
LU	0	0	0	20	1	9	0	1	0	3	1	0	1	0	0	0	1	0	5	2	0	1	15	0	0	12	0	0	251	240	LU
LV	0	0	0	1	1	8	0	1	0	17	1	0	0	0	0	0	4	0	1	2	0	0	1	0	0	2	0	0	63	34	LV
MD	0	0	0	1	1	16	0	39	3	17	1	0	2	0	0	1	32	0	1	3	2	1	3	0	0	5	0	0	168	101	MD
ME	14	1	0	1	0	4	0	5	16	1	0	1	1	0	0	1	2	0	1	0	0	3	1	0	0	5	0	0	106	52	ME
MK	2	8	0	1	0	4	0	7	16	2	0	0	1	0	0	1	2	0	1	0	0	3	1	0	0	5	0	0	105	63	MK
MT	0	0	-11	-0	0	-0	0	1	1	0	-0	0	0	0	0	0	0	0	1	-0	0	-36	-0	0	1	4	0	0	5	1	MT
NL	0	0	0	11	1	11	0	1	0	3	2	0	1	0	0	0	2	0	7	8	0	1	24	0	0	14	0	0	195	185	NL
NO	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	3	NO
PL	0	0	0	4	1	27	0	3	1	9	2	1	3	0	0	0	6	0	2	5	0	1	6	0	0	7	0	0	156	130	PL
PT	0	0	0	1	0	0	10	0	0	0	0	0	0	0	0	0	0	0	5	0	0	1	1	0	0	6	0	0	70	69	PT
RO	1	1	0	1	1	12	0	52	8	7	1	1	3	0	0	1	12	0	1	1	1	2	2	0	0	5	0	0	160	122	RO
RS	3	2	0	2	1	11	0	17	28	3	0	1	3	0	0	1	4	0	1	1	0	2	3	0	0	6	0	0	164	105	RS
RUE	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	26	3	RUE
SE	0	0	0	0	1	1	0	0	0	2	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	12	8	SE
SI	0	0	0	3	1	10	0	5	3	2	0	14	3	0	0	0	2	0	1	1	0	5	4	0	0	7	0	0	263	233	SI
SK	0	0	0	2	1	15	0	8	5	5	1	3	9	0	0	0	6	0	2	2	0	1	4	0	0	6	0	0	175	146	SK
TJ	0	0	0	0	0	0	0	0	0	3	0	0	0	19	2	1	0	23	0	0	0	0	0	6	0	5	0	0	63	1	TJ
TM	0	0	0	0	0	0	0	0	0	10	0	0	0	1	6	1	0	9	0	0	0	0	0	4	0	4	0	0	44	3	TM
TR	0	0	0	0	0	1	0	2	1	3	0	0	0	0	0	51	2	0	0	0	1	2	0	2	0	5	0	0	77	14	TR
UA	0	0	0	1	1	13	0	10	1	23	1	0	2	0	0	1	22	0	1	2	1	0	2	0	0	4	0	0	111	54	UA
UZ	0	0	0	0	0	0	0	0	0	11	0	0	0	4	2	1	1	18	0	0	0	0	0	3	0	5	0	0	67	3	UZ
ATL	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	5	5	ATL
BAS	0	0	0	1	1	5	0	1	0	4	1	0	0	0	0	0	1	0	1	0	0	0	2	0	0	2	0	0	35	27	BAS
BLS	0	-0	0	0	0	1	0	4	0	6	0	0	0	0	0	2	5	0	0	0	3	-0	0	0	0	3	0	0	28	10	BLS
MED	0	0	0	0	0	-0	0	1	1	1	0	0	0	0	0	4	1	0	0	-0	0	-3	-0	0	0	4	0	0	40	29	MED
NOS	0	0	0	2	0	4	0	0	0	2	1	0	0	0	0	0	1	0	2	3	0	0	1	0	0	4	0	0	44	40	NOS
AST	0	0	0	0	0	0	0	0	0	4	0	0	0	1	1	8	0	3	0	0	0	1	0	18	0	5	0	0	28	2	AST
NOA	0	0	0	-0	0	-0	0	1	1	0	0	0	0	0	0	1	0	0	0	-0	0	2	-0	0	1	3	0	0	11	8	NOA
EXC	0	0	0	1	0	2	0	2	1	14	0	0	0	0	0	2	2	1	1	1	0	1	2	1	0	3	0	0	62	31	EXC
EU	0	0	0	5	1	7	1	5	1	3	1	1	1	0	0	0	2	0	2	2	0	2	7	0	0	6	0	0	148	133	EU
	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	

Table C.11: 2007 country-to-country blame matrices for **PM2.5**.
Units: ng/m^3 per 15% emis. red. of NH_3. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	
AL	66	0	2	-0	1	0	1	0	0	-0	2	4	0	0	0	0	0	0	-0	9	2	3	0	0	7	0	0	0	0	0	0	AL
AM	0	10	0	4	-0	0	0	-0	0	-0	0	0	-0	-0	-0	-0	-0	0	1	-0	0	0	0	-0	0	0	-0	-0	0	-0	0	AM
AT	0	0	52	0	0	3	0	0	8	-0	13	68	0	0	0	0	9	2	0	0	2	4	0	0	14	0	0	0	0	0	0	AT
AZ	0	3	0	24	-0	0	0	-0	0	-0	-0	0	-0	-0	-0	-0	-0	-0	2	-0	-0	-0	-0	-0	0	0	1	-0	0	-0	0	AZ
BA	1	0	7	0	41	0	0	0	1	0	5	13	1	0	0	0	1	1	0	0	23	13	0	0	14	-0	0	0	0	0	0	BA
BE	0	0	3	0	0	101	0	0	1	-0	2	59	2	0	1	-0	53	25	0	0	0	0	2	0	1	-0	0	0	3	0	0	BE
BG	2	0	2	0	1	0	48	1	0	0	1	5	0	0	0	0	0	0	0	10	2	6	0	0	3	-0	0	0	0	0	1	BG
BY	0	0	2	0	0	1	0	55	1	-0	6	16	1	0	0	0	4	1	0	0	1	3	0	0	1	0	5	3	0	1	1	BY
CH	0	0	4	0	0	4	0	0	57	-0	3	58	0	0	1	-0	29	2	0	0	0	0	0	0	27	0	0	0	1	0	0	CH
CY	0	0	0	0	0	-0	1	0	0	21	-0	0	0	-0	0	-0	0	-0	0	2	0	0	0	-0	1	-0	0	0	0	-0	0	CY
CZ	0	0	17	-0	0	3	0	1	3	-0	67	84	2	0	1	0	10	4	0	0	2	6	1	0	5	0	0	0	0	0	0	CZ
DE	0	0	5	0	0	10	0	1	3	-0	6	146	4	0	1	0	22	8	0	0	0	1	1	0	2	-0	0	0	1	0	0	DE
DK	-0	0	1	0	-0	3	0	1	0	-0	2	33	52	0	0	-0	6	5	0	0	0	0	0	0	0	-0	1	1	0	0	0	DK
EE	-0	-0	0	-0	0	0	-0	5	0	-0	1	6	1	16	0	1	1	0	0	-0	0	0	0	-0	0	-0	1	4	0	6	0	EE
ES	0	0	1	0	0	2	0	0	1	-0	0	6	0	0	81	-0	28	2	0	0	0	0	0	0	2	-0	0	0	0	0	0	ES
FI	-0	-0	0	-0	-0	0	-0	1	0	-0	0	0	0	1	0	10	0	0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	FI
FR	0	0	2	0	0	14	0	0	5	-0	2	40	1	0	3	-0	132	14	0	0	0	0	1	0	10	-0	0	0	1	0	0	FR
GB	0	0	1	0	0	4	0	0	0	0	1	21	2	0	0	-0	8	77	0	0	0	0	2	0	0	-0	0	0	0	0	0	GB
GE	0	1	0	4	0	0	0	0	0	-0	0	0	-0	-0	-0	-0	-0	0	10	0	0	0	0	0	0	0	-0	-0	0	-0	0	GE
GL	0	0	0	0	-0	0	0	0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	GL
GR	5	0	1	0	1	0	12	0	0	0	1	2	0	0	1	-0	0	0	0	56	1	2	0	0	5	-0	0	0	0	0	0	GR
HR	0	0	13	-0	8	1	0	0	1	-0	7	18	1	0	0	0	2	1	-0	0	46	18	0	0	35	0	0	0	0	0	0	HR
HU	0	-0	15	-0	1	1	0	1	2	-0	12	25	1	0	-0	0	3	2	-0	0	14	95	0	0	13	0	0	0	0	0	0	HU
IE	0	0	1	0	0	2	0	0	0	0	1	14	2	0	0	0	7	33	0	0	0	0	31	0	0	0	0	0	0	0	0	IE
IS	-0	0	0	-0	-0	0	-0	0	0	0	0	0	0	-0	0	-0	0	0	-0	-0	-0	0	0	1	0	0	0	0	0	0	-0	IS
IT	0	0	6	-0	1	0	0	0	4	-0	2	11	0	-0	1	-0	5	1	-0	0	2	2	0	0	158	-0	0	0	0	0	0	IT
KG	0	0	0	0	0	0	0	0	0	0	0	0	-0	-0	0	-0	-0	-0	0	0	0	0	-0	-0	0	40	24	0	0	-0	0	KG
KZT	0	0	0	0	-0	0	0	0	0	-0	0	0	-0	-0	0	-0	0	-0	0	0	0	0	-0	-0	0	1	59	0	0	0	0	KZT
LT	0	-0	1	-0	0	1	0	15	1	-0	5	22	3	0	0	0	4	1	-0	0	0	1	0	0	1	-0	3	30	0	3	0	LT
LU	0	0	3	0	0	50	0	0	2	-0	3	76	1	0	1	0	61	13	0	0	0	0	1	0	2	-0	0	0	23	0	0	LU
LV	0	0	1	0	0	1	0	12	0	0	2	16	2	2	0	0	2	1	0	0	0	1	0	-0	1	0	2	13	0	17	0	LV
MD	0	0	1	0	0	0	3	3	0	0	2	5	1	0	-0	-0	0	0	0	0	1	4	0	0	2	0	2	0	0	0	44	MD
ME	8	-0	3	-0	7	0	0	0	0	0	2	6	0	0	0	0	1	1	-0	2	4	6	0	0	7	0	-0	0	0	0	0	ME
MK	14	0	2	-0	1	0	6	0	0	0	2	4	0	0	0	0	0	0	0	27	2	5	0	0	4	0	0	0	0	0	0	MK
MT	1	0	0	0	0	0	0	0	0	0	0	0	0	-0	2	-0	1	0	-0	1	0	0	-0	-0	15	0	-0	0	-0	-0	0	MT
NL	0	0	2	0	0	23	0	1	1	-0	2	67	5	0	0	-0	26	24	0	0	0	0	1	0	1	-0	0	0	0	0	0	NL
NO	-0	0	0	0	-0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	-0	0	0	0	0	0	0	0	0	0	0	0	NO
PL	0	-0	4	-0	0	1	0	3	1	-0	14	43	5	0	1	-0	6	2	-0	0	1	4	0	0	3	-0	1	1	0	0	0	PL
PT	-0	0	0	-0	-0	1	0	0	0	-0	0	2	0	0	42	-0	12	1	0	-0	0	0	0	0	0	-0	0	0	0	0	0	PT
RO	1	0	3	0	1	0	4	1	1	-0	3	8	1	-0	0	-0	1	1	0	1	3	17	0	0	5	0	0	0	0	0	3	RO
RS	3	0	5	-0	5	0	2	0	0	-0	4	11	1	0	0	0	1	1	0	3	10	23	0	0	6	-0	0	0	0	0	0	RS
RUE	0	0	0	0	0	0	0	1	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	RUE
SE	-0	0	0	-0	0	0	-0	1	0	-0	0	5	3	0	0	1	1	1	0	-0	0	0	0	0	0	-0	0	1	0	0	0	SE
SI	0	0	29	-0	1	1	0	0	3	-0	8	30	0	0	0	0	4	2	-0	0	14	7	0	0	65	0	0	0	0	0	0	SI
SK	0	0	12	-0	1	1	0	1	2	-0	19	30	2	0	0	0	3	2	0	0	6	31	0	0	7	0	0	0	0	0	0	SK
TJ	0	0	0	0	0	-0	-0	-0	0	0	-0	0	-0	-0	0	-0	-0	-0	0	-0	0	0	-0	-0	0	4	9	-0	-0	-0	0	TJ
TM	-0	0	0	0	-0	0	0	0	0	0	0	0	-0	-0	0	-0	-0	-0	0	0	-0	-0	-0	-0	0	1	16	-0	0	-0	0	TM
TR	0	0	0	0	0	0	2	0	0	0	0	1	0	-0	0	-0	0	0	0	1	0	0	0	0	1	-0	0	0	0	0	0	TR
UA	0	0	1	0	0	0	1	7	1	0	3	7	1	0	0	0	1	0	0	0	1	5	0	0	1	0	4	0	0	0	4	UA
UZ	0	0	0	0	-0	0	0	0	0	0	0	0	0	-0	0	-0	-0	-0	0	0	-0	0	-0	-0	0	4	35	0	0	-0	0	UZ
ATL	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	ATL
BAS	-0	0	1	0	0	1	-0	3	0	-0	1	20	9	1	0	2	3	2	0	-0	0	0	0	0	0	-0	1	3	0	2	0	BAS
BLS	0	0	0	0	0	0	6	1	0	0	0	2	0	0	0	-0	0	0	1	1	0	1	0	0	1	0	1	0	0	0	2	BLS
MED	1	0	1	0	1	0	2	0	1	1	0	3	0	-0	8	-0	6	0	0	5	1	1	0	0	22	-0	0	0	0	0	0	MED
NOS	0	0	1	0	0	5	0	1	0	0	1	24	7	0	0	-0	13	27	0	0	0	0	1	0	0	-0	0	0	0	0	0	NOS
AST	0	0	0	1	0	0	0	0	0	0	0	0	-0	-0	0	-0	-0	-0	0	0	0	0	-0	-0	0	0	5	0	0	-0	0	AST
NOA	1	0	0	0	0	0	1	0	0	0	0	0	0	-0	2	-0	1	0	0	1	0	0	0	0	4	-0	0	0	0	0	0	NOA
EXC	0	0	1	0	0	1	0	1	1	0	1	7	0	0	2	0	5	2	0	0	0	1	0	0	3	1	12	0	0	0	0	EXC
EU	0	0	4	0	0	4	2	1	2	0	4	30	2	0	11	1	25	9	0	2	1	4	1	0	15	-0	0	1	0	0	0	EU
	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	

Table C.11 Cont.: 2007 country-to-country blame matrices for **PM2.5**.
Units: ng/m^3 per 15% emis. red. of NH_3. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	
AL	5	4	0	0	0	4	-0	3	15	-0	0	0	2	0	0	0	0	-0	0	0	0	0	0	-0	0	0	0	0	132	38	AL
AM	0	0	-0	0	-0	-0	-0	0	0	-0	-0	0	0	0	-0	9	-0	-0	0	0	0	0	0	1	-0	0	0	0	24	0	AM
AT	0	0	-0	4	0	7	-0	1	0	0	0	5	3	-0	-0	-0	1	-0	0	0	0	0	0	-0	0	0	0	0	199	187	AT
AZ	0	0	-0	0	-0	-0	-0	-0	-0	2	-0	0	-0	0	0	4	-0	0	0	0	0	0	0	1	-0	0	0	0	36	-0	AZ
BA	3	0	0	1	0	7	-0	4	11	0	0	2	5	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	156	76	BA
BE	0	0	-0	52	0	4	-0	1	0	1	0	0	1	-0	0	0	1	0	0	0	0	0	0	-0	0	0	0	0	314	310	BE
BG	1	3	0	0	0	4	0	40	20	1	0	0	2	-0	0	1	6	0	0	0	0	0	0	0	0	0	0	0	165	126	BG
BY	0	0	-0	1	0	36	-0	5	0	11	1	0	3	-0	0	0	18	0	0	0	0	0	0	-0	0	0	0	0	176	84	BY
CH	0	0	0	5	0	2	-0	0	0	0	0	0	0	0	-0	-0	0	-0	0	0	0	0	0	-0	0	0	0	0	193	136	CH
CY	0	0	0	0	-0	-0	0	1	0	0	-0	0	-0	-0	-0	44	0	-0	0	0	0	0	0	2	0	0	0	0	71	26	CY
CZ	0	0	-0	6	0	23	-0	1	1	1	1	2	7	-0	-0	-0	1	-0	0	0	0	0	0	-0	0	0	0	0	250	240	CZ
DE	0	0	-0	20	0	8	-0	1	0	1	1	0	1	-0	-0	0	1	0	0	0	0	0	0	-0	0	0	0	0	243	237	DE
DK	-0	-0	-0	7	1	11	-0	1	-0	1	4	0	1	-0	0	0	1	0	0	0	0	0	0	-0	0	0	0	0	131	126	DK
EE	-0	-0	-0	1	0	8	0	1	0	9	1	0	0	-0	-0	-0	2	0	0	0	0	0	0	-0	0	0	0	0	66	49	EE
ES	0	0	0	2	0	0	1	0	0	0	0	0	0	-0	-0	0	0	-0	0	0	0	0	0	-0	0	0	0	0	127	126	ES
FI	-0	-0	0	0	0	0	0	0	0	3	0	0	0	-0	-0	-0	1	-0	0	0	0	0	0	-0	-0	0	0	0	19	13	FI
FR	0	0	0	12	0	2	-0	0	0	0	0	0	0	-0	-0	-0	0	-0	0	0	0	0	0	-0	0	0	0	0	240	234	FR
GB	0	0	-0	10	0	4	-0	0	0	1	0	0	0	-0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	136	133	GB
GE	0	0	-0	0	-0	-0	-0	0	0	2	-0	0	0	0	-0	6	0	-0	0	0	0	0	0	0	-0	0	0	0	24	0	GE
GL	0	0	-0	0	0	0	0	0	-0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	0	1	0	0	0	0	GL
GR	1	3	0	0	0	2	0	6	6	1	0	0	1	-0	0	2	2	0	0	0	0	0	0	0	1	0	0	0	113	90	GR
HR	1	0	0	1	0	9	-0	3	6	0	0	8	6	0	-0	0	0	-0	0	0	0	0	0	-0	0	0	0	0	189	125	HR
HU	0	0	-0	2	0	20	-0	10	9	0	0	5	24	0	-0	-0	2	-0	0	0	0	0	0	-0	0	0	0	0	257	228	HU
IE	0	0	-0	5	0	3	-0	0	0	0	0	0	0	-0	-0	0	1	0	0	0	0	0	0	0	0	0	0	0	102	101	IE
IS	-0	-0	0	0	0	0	0	-0	-0	-0	0	-0	0	0	-0	-0	-0	-0	0	0	0	0	0	-0	-0	0	0	0	2	0	IS
IT	0	0	0	1	0	2	-0	1	0	0	0	3	1	-0	-0	0	0	-0	0	0	0	0	0	-0	0	0	0	0	201	193	IT
KG	0	0	0	-0	-0	-0	0	0	0	0	-0	0	0	10	0	0	0	31	0	0	0	0	0	6	0	0	0	0	106	0	KG
KZT	0	0	-0	0	-0	0	-0	0	0	14	-0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	78	1	KZT
LT	0	0	-0	2	0	49	0	1	0	7	1	0	1	-0	-0	-0	3	0	0	0	0	0	0	-0	0	0	0	0	158	129	LT
LU	0	0	-0	28	0	4	-0	1	0	0	0	0	1	-0	0	0	1	0	0	0	0	0	0	-0	0	0	0	0	271	268	LU
LV	0	0	-0	1	0	23	0	1	0	8	1	0	1	-0	0	-0	2	0	0	0	0	0	0	-0	0	0	0	0	110	84	LV
MD	0	0	0	0	0	13	-0	47	2	5	0	0	3	0	0	1	37	0	0	0	0	0	0	-0	0	0	0	0	179	83	MD
ME	40	1	0	0	0	4	-0	2	17	-0	0	1	3	0	-0	0	0	-0	0	0	0	0	0	-0	0	0	0	0	116	39	ME
MK	1	39	0	0	0	4	-0	7	28	0	0	0	2	-0	0	0	1	0	0	0	0	0	0	-0	0	0	0	0	154	66	MK
MT	0	0	58	0	-0	0	-0	1	1	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	0	82	80	MT
NL	0	0	-0	113	0	5	-0	1	0	1	1	0	1	-0	0	0	1	0	0	0	0	0	0	-0	0	0	0	0	275	271	NL
NO	-0	-0	0	0	3	1	0	0	-0	0	1	0	0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	7	NO
PL	0	0	-0	3	0	100	-0	2	1	1	1	1	5	-0	-0	-0	3	0	0	0	0	0	0	-0	0	0	0	0	212	200	PL
PT	-0	-0	-0	1	0	0	37	0	-0	0	0	0	0	-0	-0	-0	0	-0	0	0	0	0	0	-0	0	0	0	0	98	98	PT
RO	0	0	-0	1	0	10	-0	98	10	1	0	1	6	-0	-0	0	10	-0	0	0	0	0	0	-0	0	0	0	0	191	159	RO
RS	2	2	0	1	0	9	-0	21	82	0	0	1	7	-0	-0	0	1	-0	0	0	0	0	0	-0	0	0	0	0	201	95	RS
RUE	0	0	-0	0	0	1	-0	0	0	31	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	44	3	RUE
SE	-0	-0	0	1	1	3	0	0	0	1	9	0	0	0	-0	0	0	0	0	0	0	0	0	-0	-0	0	0	0	29	25	SE
SI	0	0	0	2	0	7	-0	2	1	0	0	51	4	0	-0	-0	0	-0	0	0	0	0	0	-0	0	0	0	0	233	213	SI
SK	0	0	-0	2	0	42	-0	6	3	1	1	3	64	0	-0	0	3	0	0	0	0	0	0	-0	0	0	0	0	244	227	SK
TJ	0	0	0	-0	-0	-0	0	0	0	0	-0	0	-0	32	1	0	-0	22	0	0	0	0	0	7	0	0	0	0	68	-0	TJ
TM	-0	-0	0	-0	-0	-0	-0	0	-0	2	-0	0	0	1	16	0	0	11	0	0	0	0	0	2	0	0	0	0	47	-0	TM
TR	0	0	0	0	0	1	-0	3	1	1	0	0	0	-0	-0	70	2	-0	0	0	0	0	0	1	0	0	0	0	86	10	TR
UA	0	0	0	1	0	19	-0	13	1	17	0	0	3	0	0	1	84	0	0	0	0	0	0	0	0	0	0	0	180	59	UA
UZ	0	0	0	0	-0	-0	-0	0	0	3	-0	-0	0	6	2	0	0	41	0	0	0	0	0	3	0	0	0	0	92	0	UZ
ATL	0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	10	9	ATL
BAS	-0	-0	-0	2	0	15	0	1	0	2	6	0	0	-0	-0	0	1	0	0	0	0	0	0	-0	0	0	0	0	77	69	BAS
BLS	0	0	0	0	0	2	0	14	1	11	0	0	1	-0	0	7	19	0	0	0	0	0	0	0	0	0	0	0	73	29	BLS
MED	0	0	0	0	0	0	0	2	1	0	0	0	0	-0	0	9	1	0	0	0	0	0	0	1	2	0	0	0	69	53	MED
NOS	0	0	0	11	1	5	-0	0	0	1	1	0	0	-0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	100	96	NOS
AST	0	0	0	0	-0	-0	-0	0	0	1	-0	0	0	1	1	3	0	1	0	0	0	0	0	14	0	1	0	0	14	0	AST
NOA	0	0	0	0	0	0	0	1	0	0	0	0	0	-0	0	2	0	0	0	0	0	0	0	0	10	1	0	0	16	12	NOA
EXC	0	0	0	1	0	4	0	2	1	17	0	0	1	0	0	3	4	2	0	0	0	0	0	1	0	0	0	0	76	33	EXC
EU	0	0	0	6	0	13	1	7	2	1	1	1	3	-0	-0	0	1	0	0	0	0	0	0	0	0	0	0	0	158	148	EU
	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	

Table C.12: 2007 country-to-country blame matrices for **PM2.5**.
Units: ng/m^3 per 15% emis. red. of VOC. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	
AL	-1	0	-0	-0	-1	0	-0	0	0	0	-0	0	0	0	0	0	0	0	0	-1	-1	-0	0	0	-0	0	0	0	0	0	-0	AL
AM	-0	2	-0	-3	-0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0	-0	-0	-1	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	-0	0	AM
AT	0	0	1	-0	-0	0	-0	0	-0	0	0	0	0	0	0	0	1	0	0	-0	-0	-0	0	0	1	0	0	0	0	0	-0	AT
AZ	-0	-0	-0	-7	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	-0	-0	-0	-2	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	AZ
BA	0	0	0	0	-2	0	-0	0	0	0	0	0	0	0	0	0	1	0	0	0	-1	0	0	0	-0	0	0	0	0	0	-0	BA
BE	0	0	0	0	0	8	0	1	0	0	1	24	1	0	1	0	10	16	0	0	0	0	1	0	1	0	0	0	0	0	0	BE
BG	0	0	0	-0	-0	0	0	-0	0	0	0	1	0	0	0	0	1	0	-0	-0	-0	0	0	0	1	0	0	0	0	0	-0	BG
BY	0	-0	0	-0	-0	0	-0	1	0	0	0	1	0	0	0	0	0	0	-0	-0	0	0	0	0	0	0	-0	0	0	0	0	BY
CH	0	0	-0	0	-0	0	-0	0	-2	0	0	-5	0	0	-0	0	-1	-0	0	0	-0	-0	0	0	-2	0	0	0	0	0	0	CH
CY	-0	0	0	-0	-0	0	-0	0	0	-0	0	0	0	0	0	0	0	0	-0	-1	-0	0	0	0	0	0	-0	0	0	0	0	CY
CZ	0	0	1	0	0	1	-0	0	0	0	2	9	0	0	1	0	4	2	0	0	-0	-0	0	0	1	0	0	0	0	0	-0	CZ
DE	0	0	1	0	0	2	0	0	0	0	1	14	1	0	1	0	5	5	0	0	0	0	0	0	1	0	0	0	0	0	0	DE
DK	0	0	0	0	0	1	0	0	0	0	0	3	2	0	0	0	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	DK
EE	-0	-0	0	-0	-0	0	0	0	0	-0	0	1	0	0	0	0	0	1	-0	0	0	0	0	0	0	0	-0	0	0	0	0	EE
ES	0	0	-0	0	-0	0	0	0	-0	0	-0	-0	0	0	1	0	0	1	0	0	-0	-0	0	0	0	0	0	0	0	0	0	ES
FI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	FI
FR	0	0	-0	0	-0	1	0	0	0	0	0	2	0	0	0	0	3	4	0	0	-0	-0	0	0	-0	0	0	0	0	0	0	FR
GB	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	GB
GE	-0	-0	-0	-3	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-3	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	-0	-0	GE
GL	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	GL
GR	-0	-0	0	-0	-0	0	-1	0	0	-0	0	0	0	0	0	0	1	0	-0	-2	-0	-0	0	0	0	0	-0	0	0	0	-0	GR
HR	0	0	0	-0	-1	0	-0	0	0	0	0	0	0	0	0	0	1	1	0	0	-1	0	0	0	1	0	0	0	0	0	-0	HR
HU	0	-0	1	-0	-0	0	-0	0	0	0	1	2	0	0	0	0	1	1	-0	0	-0	1	0	0	2	0	0	0	0	0	-0	HU
IE	0	0	0	0	0	0	0	0	0	0	-0	0	-0	0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	0	-0	IE
IS	0	0	0	0	0	0	0	0	-0	0	0	0	0	0	-0	0	0	0	0	0	0	0	-0	0	-0	0	0	0	0	0	0	IS
IT	-0	0	0	0	-0	0	-0	0	0	0	0	-0	0	0	1	0	1	0	0	-0	-1	-0	0	0	8	0	0	0	0	0	0	IT
KG	0	-0	0	-0	0	0	0	0	0	-0	0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	-0	-0	0	0	0	0	KG
KZT	0	-0	0	-0	0	0	-0	-0	0	-0	0	0	0	-0	0	0	0	0	-0	0	0	0	0	0	0	0	0	-0	0	-0	-0	KZT
LT	0	-0	0	-0	-0	0	-0	0	0	0	0	2	0	0	0	0	1	1	-0	0	0	0	0	0	0	0	-0	0	0	0	0	LT
LU	0	0	-0	-0	0	4	0	0	0	0	0	14	1	0	1	0	8	9	0	0	0	-0	0	0	1	0	0	0	1	0	0	LU
LV	0	-0	0	-0	-0	0	-0	0	0	-0	0	1	0	0	0	0	1	1	-0	0	-0	0	0	0	0	0	-0	0	0	0	0	LV
MD	0	-0	0	-0	0	0	-0	-0	0	0	0	0	0	0	0	0	0	0	-0	-0	0	0	0	0	0	0	-0	0	0	0	0	MD
ME	-0	-0	-0	-0	-1	0	-0	-0	-0	0	-0	0	0	0	0	0	0	0	-0	-0	-1	-0	0	0	-0	0	0	0	0	0	-0	ME
MK	-0	-0	-0	-0	-0	0	-1	-0	0	0	-0	0	0	0	0	0	0	0	-0	-1	-0	-0	0	0	0	0	-0	0	0	0	-0	MK
MT	-0	0	0	0	-0	0	-0	0	0	0	0	1	0	0	1	0	1	1	0	-0	-0	0	0	0	1	0	0	0	0	0	0	MT
NL	0	0	0	0	0	5	0	0	0	0	0	17	1	0	1	0	10	14	0	0	0	0	1	0	1	0	0	0	0	0	0	NL
NO	0	-0	0	-0	0	0	-0	0	0	-0	0	0	0	0	0	0	0	0	-0	-0	0	0	0	0	0	-0	-0	0	0	0	0	NO
PL	0	0	1	0	0	0	0	0	0	0	1	6	1	0	0	0	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	PL
PT	0	0	0	0	-0	0	0	0	-0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	PT
RO	0	-0	0	-0	-0	0	-0	-0	0	0	0	0	0	0	0	0	0	0	-0	-0	0	0	0	0	1	0	-0	0	0	0	-0	RO
RS	0	-0	0	-0	-1	0	-0	0	0	0	0	1	0	0	0	0	1	1	-0	-0	-0	0	0	0	0	0	0	0	0	0	-0	RS
RUE	0	-0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	RUE
SE	0	0	0	-0	0	0	0	0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SE
SI	0	-0	0	-0	-0	0	-0	0	-0	0	-0	-2	0	0	1	0	1	0	0	-0	-1	-1	0	0	5	0	-0	0	0	0	-0	SI
SK	0	0	1	-0	-0	0	-0	-0	0	0	1	3	0	0	0	0	1	1	0	0	-0	0	0	0	1	0	0	0	0	0	-0	SK
TJ	0	-0	0	-0	0	0	0	-0	0	-0	0	0	0	-0	0	-0	0	0	-0	0	0	0	0	-0	0	-0	-0	-0	0	-0	-0	TJ
TM	-0	-0	0	-0	0	0	0	-0	0	-0	0	0	0	-0	0	-0	0	0	-0	-0	0	0	0	-0	0	0	-0	-0	0	-0	-0	TM
TR	-0	-0	0	-0	-0	0	-0	-0	0	-0	0	0	0	0	0	0	0	0	-0	-0	-0	-0	0	0	0	0	-0	-0	0	0	-0	TR
UA	0	-0	0	-0	-0	0	-0	0	0	-0	0	1	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	-0	0	0	0	-0	UA
UZ	0	-0	0	-0	0	0	0	-0	0	-0	0	0	0	-0	0	-0	0	0	-0	0	0	0	0	0	0	0	-0	-0	0	-0	-0	UZ
ATL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	-0	0	-0	0	0	0	0	0	ATL
BAS	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	BAS
BLS	0	-0	0	-0	0	0	-0	-0	0	-0	0	1	0	0	0	0	1	0	-0	0	0	0	0	0	1	0	-0	0	0	0	-0	BLS
MED	-0	0	0	-0	-0	0	-0	0	0	-0	0	1	0	0	1	0	1	0	-0	-1	-0	-0	0	0	0	0	-0	0	0	0	-0	MED
NOS	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	NOS
AST	-0	-0	0	-0	-0	0	-0	-0	0	-0	0	0	0	-0	0	-0	0	0	-0	-0	-0	0	0	-0	0	-0	-0	-0	0	-0	-0	AST
NOA	-0	0	0	-0	-0	0	-0	0	0	-0	0	0	0	0	0	0	0	0	-0	-0	-0	-0	0	0	0	0	-0	0	0	0	-0	NOA
EXC	-0	-0	0	-0	-0	0	-0	0	0	-0	0	1	0	0	0	0	0	0	-0	-0	-0	0	0	0	0	0	0	0	0	0	-0	EXC
EU	0	0	0	0	-0	0	-0	0	0	-0	0	3	0	0	0	0	2	2	0	-0	-0	0	0	0	1	0	0	0	0	0	0	EU
	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	

Table C.12 Cont.: 2007 country-to-country blame matrices for **PM2.5**.
Units: ng/m^3 per 15% emis. red. of VOC. **Emitters →, Receptors ↓**. (Based on HIRLAM meteorology.)

	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	
AL	-1	-0	-0	0	0	-0	0	-1	-2	0	0	-0	-0	0	0	0	0	0	0	0	0	-0	0	0	-0	-7	0	0	-5	-0	AL
AM	-0	-0	-0	-0	-0	-0	-0	-0	-0	-1	-0	-0	-0	-0	-0	-1	-0	-0	-0	-0	-0	-0	-0	-0	-0	-12	0	0	-5	-1	AM
AT	0	0	0	0	0	0	0	-0	-0	0	0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	-0	-6	0	0	5	5	AT
AZ	-0	-0	-0	-0	-0	-0	0	-0	-0	-1	-0	-0	-0	-0	-0	-1	-0	-0	-0	0	-0	-0	-0	-0	-0	-10	0	0	-12	-1	AZ
BA	-0	0	0	0	0	0	0	-0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	-5	0	0	-0	2	BA
BE	0	0	0	8	1	3	0	0	0	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	10	0	0	84	78	BE
BG	0	-0	0	0	0	0	0	-1	-0	1	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	-0	-5	0	0	4	3	BG
BY	0	0	0	0	0	0	0	0	-0	1	0	0	0	0	-0	0	0	0	0	0	-0	0	0	-0	0	-3	0	0	6	4	BY
CH	0	-0	0	0	0	0	0	-0	-0	1	0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	-0	-6	0	0	-8	-7	CH
CY	-0	-0	0	0	0	0	0	-0	-0	0	0	0	0	0	-0	-3	0	0	0	0	-0	-0	0	-0	-0	-11	0	0	-3	0	CY
CZ	0	0	0	1	0	2	0	-0	0	1	0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	28	25	CZ
DE	0	0	0	2	0	2	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	40	36	DE
DK	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	17	14	DK
EE	-0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	-0	0	0	0	0	0	0	0	-0	-0	-1	0	0	5	3	EE
ES	0	0	0	0	0	0	-0	0	0	0	0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	-0	-6	0	0	3	2	ES
FI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	2	1	FI
FR	0	0	0	1	0	1	0	0	0	2	0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	-2	0	0	15	13	FR
GB	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	14	GB
GE	-0	-0	-0	-0	-0	-0	-0	-0	-0	-1	-0	-0	-0	-0	-0	-1	-0	-0	-0	-0	-0	-0	-0	-0	-0	-8	0	0	-8	-1	GE
GL	-0	-0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	0	-0	-0	GL
GR	-0	-0	-0	0	0	0	0	-1	-1	1	0	0	0	0	0	0	0	0	0	0	-0	-0	0	0	-0	-7	0	0	-3	-2	GR
HR	-0	0	0	0	0	1	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	-4	0	0	4	6	HR
HU	0	0	0	0	0	1	0	-1	-0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	-0	-3	0	0	13	13	HU
IE	0	0	0	0	0	0	0	-0	0	0	0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	-3	0	0	1	1	IE
IS	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	-0	-0	0	0	0	0	0	0	-0	0	0	0	0	IS
IT	-0	0	0	0	0	0	0	-0	-0	0	0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	-2	0	0	12	11	IT
KG	0	0	0	0	0	0	0	0	0	-0	0	0	0	-0	-0	-0	0	-1	0	0	0	0	0	-1	-0	-15	0	0	-3	0	KG
KZT	0	0	0	0	-0	-0	-0	-0	0	-1	-0	0	0	0	-0	0	-0	0	0	0	-0	0	0	0	-0	-8	0	0	-0	0	KZT
LT	0	0	0	0	0	0	0	0	0	2	0	0	0	0	-0	0	0	-0	0	0	0	0	0	-0	0	-2	0	0	8	6	LT
LU	0	0	0	5	0	2	0	-0	0	2	1	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	50	47	LU
LV	-0	0	0	0	0	0	0	-0	0	1	0	0	0	0	-0	-0	0	-0	0	0	-0	0	0	-0	-0	-1	0	0	5	4	LV
MD	0	0	0	0	0	-0	0	1	0	0	0	0	0	0	-0	0	-0	0	0	0	-0	0	0	-0	-0	-7	0	0	3	2	MD
ME	-1	-0	-0	0	0	-0	0	-1	-2	0	0	-0	-0	0	0	0	-0	0	0	0	-0	0	0	0	-0	-7	0	0	-7	-2	ME
MK	-0	-0	0	0	0	-0	0	-1	-1	0	0	-0	-0	0	0	0	0	0	0	0	-0	0	0	0	-0	-7	0	0	-4	-2	MK
MT	-0	-0	-0	0	0	0	0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	-0	-0	0	0	-0	-3	0	0	5	5	MT
NL	0	0	0	9	1	2	0	0	0	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	9	0	0	70	64	NL
NO	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	-0	-0	0	-0	0	0	0	0	0	-0	-0	-0	0	0	0	0	NO
PL	0	0	0	1	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	24	21	PL
PT	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	-6	0	0	2	2	PT
RO	-0	0	0	0	0	0	0	-1	-0	0	0	0	0	0	0	0	-0	0	0	0	-0	0	0	0	-0	-6	0	0	3	2	RO
RS	-0	0	0	0	0	0	0	-2	-1	0	0	0	0	0	0	0	-0	0	0	0	-0	0	0	0	-0	-6	0	0	2	3	RS
RUE	0	0	0	0	0	0	0	0	0	1	0	0	0	0	-0	0	0	0	0	0	0	0	0	0	0	-1	0	0	2	0	RUE
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	2	2	SE
SI	-0	-0	0	0	0	0	0	-1	-0	0	0	0	-0	0	0	0	0	0	0	0	-0	0	0	0	0	-5	0	0	3	4	SI
SK	-0	0	0	0	0	2	0	-1	-0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	0	-3	0	0	13	13	SK
TJ	-0	0	-0	0	-0	0	0	0	0	-0	0	0	0	-1	-0	-0	0	-1	0	0	-0	0	0	-1	-0	-8	0	0	-2	0	TJ
TM	0	0	-0	0	-0	-0	0	-0	0	-1	0	0	0	0	-0	-0	-0	-0	0	0	-0	-0	0	-0	-0	-9	0	0	-3	0	TM
TR	-0	-0	0	0	0	-0	0	-0	-0	-0	0	0	-0	0	-0	-1	-0	-0	0	0	-0	-0	0	-0	-0	-11	0	0	-3	-0	TR
UA	0	0	0	0	0	0	0	-0	0	1	0	0	0	0	0	0	0	0	0	0	-0	0	0	-0	-0	-5	0	0	4	2	UA
UZ	0	0	0	0	-0	-0	0	-0	0	-1	0	0	0	0	-0	-0	-0	1	0	0	0	0	0	-0	-0	-10	0	0	0	0	UZ
ATL	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	-0	-0	0	0	0	0	0	0	-1	0	0	0	0	ATL
BAS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	6	BAS
BLS	0	0	0	0	0	-0	0	-0	0	1	0	0	0	0	-0	0	-1	0	0	0	-0	0	0	-0	-0	-4	0	0	3	3	BLS
MED	-0	-0	-0	0	0	0	0	-0	-0	0	0	0	0	0	0	-0	0	0	0	0	-0	-0	0	-0	-0	-4	0	0	1	2	MED
NOS	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	12	11	NOS
AST	-0	-0	-0	0	-0	-0	0	-0	-0	-0	0	0	0	-0	-0	-1	-0	-0	0	0	-0	-0	0	-3	-0	-10	0	0	-2	-0	AST
NOA	-0	-0	-0	0	0	0	0	-0	-0	0	0	0	-0	0	0	-0	-0	0	0	0	-0	-0	0	-0	-0	-3	0	0	0	1	NOA
EXC	-0	0	0	0	0	0	0	-0	-0	1	0	0	0	0	-0	-0	0	0	0	0	-0	0	0	-0	-0	-3	0	0	3	2	EXC
EU	-0	0	0	1	0	1	0	-0	-0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	0	0	12	11	EU
	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	

Table C.13: 2007 country-to-country blame matrices for **PM2.5**.
Units: ng/m^3 per 15% emis. red. of PPM, SO_x, NO_x, NH_3 and VOC. **Emitters →, Receptors ↓.**
(Based on HIRLAM meteorology.)

	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	
AL	163	0	6	0	68	1	69	1	1	0	9	17	1	0	20	0	12	5	0	106	10	12	0	0	58	0	1	0	0	0	1	AL
AM	0	49	0	74	1	0	3	0	0	0	1	2	0	0	1	0	1	1	9	2	0	1	0	0	1	0	23	0	0	0	0	AM
AT	0	0	162	0	7	12	6	1	27	0	52	215	2	0	13	0	56	16	0	1	9	17	1	0	67	0	1	1	1	0	0	AT
AZ	0	17	0	162	1	0	3	0	0	0	1	2	0	0	1	0	1	1	14	1	0	1	0	0	1	1	49	0	0	0	0	AZ
BA	3	0	19	0	285	3	18	1	2	0	24	41	2	0	19	0	17	7	0	8	52	35	1	0	65	0	1	0	0	0	1	BA
BE	0	0	9	0	1	307	1	1	4	0	19	225	9	1	20	1	272	130	0	0	1	3	9	0	6	0	1	1	6	1	0	BE
BG	5	0	6	0	32	1	470	3	1	0	10	17	1	1	8	1	7	4	0	47	6	17	0	0	17	0	4	1	0	0	4	BG
BY	0	0	6	1	4	3	7	128	2	0	18	40	6	7	4	5	13	10	0	2	2	8	1	0	5	0	13	14	0	5	2	BY
CH	0	0	23	0	4	18	2	1	181	0	17	215	1	0	24	0	175	18	0	1	2	2	1	0	99	0	0	1	2	0	0	CH
CY	2	0	1	2	9	0	44	1	0	61	2	3	0	0	7	0	3	1	0	53	1	2	0	0	9	0	4	0	0	0	1	CY
CZ	0	0	60	0	7	15	4	3	11	0	202	257	5	1	11	1	62	27	0	1	8	22	2	0	23	0	1	2	1	1	1	CZ
DE	0	0	22	0	1	39	2	2	15	0	39	443	12	1	15	1	135	59	0	1	1	4	4	0	12	0	1	2	3	1	0	DE
DK	0	0	2	0	1	11	0	4	0	0	7	76	153	2	3	2	26	50	0	0	0	2	3	0	1	0	2	3	0	1	0	DK
EE	0	0	1	0	1	2	1	13	0	0	3	15	4	98	1	19	5	8	0	1	0	1	1	0	1	-0	4	10	0	16	0	EE
ES	0	0	2	0	3	7	1	0	2	0	2	19	0	0	419	0	85	15	0	1	1	1	1	0	10	0	0	0	0	0	0	ES
FI	0	0	0	0	0	0	0	3	0	0	1	2	1	7	0	60	1	4	0	0	0	0	0	0	0	0	1	1	0	1	0	FI
FR	0	0	9	0	3	48	2	1	16	0	13	136	3	0	53	1	511	73	0	1	1	2	5	0	36	0	0	1	4	0	0	FR
GB	0	0	2	0	0	10	0	1	1	0	6	48	6	0	3	0	27	246	0	0	0	1	12	0	1	0	1	0	0	0	0	GB
GE	0	10	0	58	2	0	5	1	0	0	1	2	0	0	1	0	1	1	42	2	0	1	0	0	1	0	21	0	0	0	0	GE
GL	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	0	0	0	0	0	GL
GR	18	0	3	0	35	1	220	1	1	0	7	11	1	0	15	0	8	3	0	285	5	8	0	0	33	0	4	0	0	0	1	GR
HR	2	0	39	0	119	4	15	1	5	0	36	63	2	0	22	0	24	10	0	5	125	51	1	0	131	0	1	1	0	0	1	HR
HU	1	0	48	0	45	6	15	4	5	0	54	85	3	1	12	1	25	14	0	4	42	225	1	0	60	0	1	1	0	1	1	HU
IE	0	0	1	0	0	6	0	0	1	0	4	31	4	0	1	0	19	108	0	0	0	1	74	0	1	0	0	0	0	0	0	IE
IS	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0	0	0	IS
IT	2	0	24	0	37	4	11	1	14	0	14	44	1	0	43	0	51	7	0	9	18	8	1	0	601	0	0	0	0	0	0	IT
KG	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	362	278	0	0	0	0	KG
KZT	0	0	0	1	1	0	1	1	0	0	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	25	392	0	0	0	0	KZT
LT	0	0	4	0	3	6	3	37	1	0	15	52	10	9	4	5	17	13	0	1	1	4	1	0	4	-0	7	78	0	14	1	LT
LU	0	0	11	0	1	131	2	1	8	0	27	265	4	1	24	1	505	79	0	1	1	3	6	0	9	0	1	1	95	0	0	LU
LV	0	0	2	0	2	4	2	28	1	0	6	33	6	20	2	8	10	10	0	1	1	2	1	0	2	-0	6	31	0	56	1	LV
MD	1	0	6	1	12	2	37	12	1	0	13	22	4	2	5	2	8	8	0	9	3	15	0	0	9	0	10	3	0	1	100	MD
ME	25	0	9	0	117	2	37	1	1	0	12	23	1	0	17	0	13	5	0	28	14	16	0	0	52	0	1	0	0	0	0	ME
MK	36	0	6	0	48	2	165	1	1	0	10	18	1	0	13	0	9	4	0	139	7	15	0	0	30	0	2	0	0	0	1	MK
MT	3	0	2	0	35	1	22	0	1	0	5	9	0	0	61	0	26	3	0	29	7	3	0	0	142	0	0	0	0	0	0	MT
NL	0	0	6	0	1	88	1	2	2	0	14	230	16	1	13	1	136	129	0	0	0	2	8	0	4	0	1	1	2	1	0	NL
NO	0	0	0	0	0	1	0	1	0	0	0	4	2	1	0	2	2	6	0	0	0	0	0	0	0	0	1	0	0	0	0	NO
PL	0	0	17	0	8	8	4	12	4	0	54	126	15	2	8	2	33	24	0	1	5	15	1	0	13	0	3	6	1	2	1	PL
PT	0	0	1	0	2	4	0	0	1	0	1	10	0	0	275	0	42	10	0	0	0	0	1	0	3	0	0	0	0	0	0	PT
RO	2	0	10	1	28	2	65	5	2	0	18	30	3	1	7	1	10	7	0	12	8	43	0	0	20	0	4	1	0	0	8	RO
RS	10	0	15	0	98	3	55	2	2	0	24	42	2	0	13	1	14	9	0	22	24	58	1	0	37	0	2	1	0	0	2	RS
RUE	0	0	0	1	0	0	1	3	0	0	1	2	0	1	0	2	1	1	0	0	0	0	0	0	0	1	47	1	0	0	0	RUE
SE	0	0	0	0	0	1	0	2	0	0	1	11	8	3	1	5	4	10	0	0	0	0	1	0	0	0	1	2	0	1	0	SE
SI	0	0	92	0	25	6	11	1	11	0	40	102	2	0	21	0	34	13	0	3	59	28	1	0	255	0	1	1	0	0	0	SI
SK	1	0	40	0	23	6	7	5	6	0	74	91	5	1	9	1	25	15	0	2	20	90	1	0	34	0	1	2	0	1	1	SK
TJ	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	165	0	0	0	0	TJ
TM	0	1	0	5	1	0	2	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	0	1	14	173	0	0	0	0	TM
TR	1	3	1	5	6	0	36	1	0	2	2	4	0	0	3	0	2	1	1	20	1	2	0	0	4	0	7	0	0	0	1	TR
UA	1	0	4	2	7	2	17	19	1	0	12	22	3	3	4	2	7	7	1	5	3	13	0	0	6	0	18	3	0	1	10	UA
UZ	0	0	0	2	1	0	1	0	0	0	1	1	0	0	1	0	1	1	0	1	0	0	0	0	1	64	323	0	0	0	0	UZ
ATL	0	0	0	0	0	1	0	0	0	0	0	3	0	0	6	0	9	8	0	0	0	0	1	0	0	0	0	0	0	0	0	ATL
BAS	0	0	2	0	1	5	1	7	0	0	5	43	25	10	2	15	12	17	0	0	1	2	1	0	2	0	2	6	0	5	0	BAS
BLS	1	1	2	7	7	1	51	5	0	0	5	8	1	1	3	1	3	3	4	12	1	4	0	0	4	0	15	1	0	0	5	BLS
MED	5	0	4	0	31	2	52	1	2	3	6	13	0	0	70	0	39	3	0	58	7	4	0	0	98	0	3	0	0	0	1	MED
NOS	0	0	2	0	0	11	0	2	1	0	4	50	14	1	3	1	38	91	0	0	0	1	4	0	1	0	1	1	0	0	0	NOS
AST	0	1	0	6	1	0	3	0	0	2	0	1	0	0	1	0	0	0	0	3	0	0	0	0	1	17	72	0	0	0	0	AST
NOA	2	0	1	0	11	1	27	0	0	0	2	4	0	0	30	0	10	1	0	32	2	1	0	0	25	0	2	0	0	0	0	NOA
EXC	1	0	3	2	4	3	8	4	2	0	5	21	2	1	14	2	21	9	0	4	2	4	1	0	12	8	82	1	0	1	1	EXC
EU	1	0	14	0	9	16	24	4	6	0	20	94	6	3	69	6	104	40	0	11	5	12	4	0	58	0	1	3	1	2	1	EU
	AL	AM	AT	AZ	BA	BE	BG	BY	CH	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GE	GR	HR	HU	IE	IS	IT	KG	KZT	LT	LU	LV	MD	

Table C.13 Cont.: 2007 country-to-country blame matrices for **PM2.5**.
Units: ng/m^3 per 15% emis. red. of PPM, SO_x, NO_x, NH_3 and VOC. **Emitters →, Receptors ↓.**
(Based on HIRLAM meteorology.)

	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	
AL	40	55	1	1	1	27	2	45	152	5	0	2	7	0	0	6	17	0	2	1	1	66	3	0	5	6	3	22	922	401	AL
AM	0	0	0	0	0	3	0	5	1	18	0	0	0	0	7	149	9	6	0	0	1	2	1	53	1	-1	0	20	370	22	AM
AT	1	0	0	12	1	56	1	18	10	5	1	17	13	0	0	1	14	0	2	3	0	9	12	0	1	9	1	3	821	744	AT
AZ	0	0	0	0	0	4	0	5	1	50	0	0	0	0	12	68	13	11	1	0	1	1	1	44	0	-1	0	15	424	22	AZ
BA	20	4	0	3	1	47	2	43	115	5	1	5	16	0	0	3	19	0	2	2	0	26	5	0	2	6	2	7	889	377	BA
BE	0	0	0	127	3	37	1	4	1	9	3	1	3	0	0	1	11	0	15	10	0	2	102	0	0	38	8	2	1230	1196	BE
BG	7	16	0	1	1	41	1	201	96	23	1	1	10	0	0	15	79	0	1	2	8	13	2	1	2	6	2	10	1158	864	BG
BY	0	1	0	3	3	139	0	20	6	84	5	1	9	0	0	5	93	1	2	12	1	2	8	1	0	5	2	2	677	331	BY
CH	0	0	0	14	1	20	2	4	3	2	1	1	2	0	0	0	2	0	3	2	0	8	14	0	1	9	1	3	840	642	CH
CY	2	5	0	0	0	9	1	25	15	18	0	0	1	0	0	522	37	0	1	0	5	84	1	31	5	4	10	32	841	223	CY
CZ	1	0	0	18	2	147	1	16	11	10	3	7	30	0	0	2	25	0	4	7	0	4	19	0	0	17	2	2	1000	918	CZ
DE	0	0	0	50	3	71	1	7	2	10	4	1	4	0	0	1	12	0	7	17	0	3	47	0	0	24	5	2	981	931	DE
DK	0	0	0	17	11	46	0	4	1	13	14	0	2	0	0	1	9	0	6	55	0	0	68	0	0	15	10	1	467	426	DK
EE	0	0	0	2	2	29	0	4	1	60	7	0	1	0	0	3	22	0	2	27	0	1	8	1	0	5	3	2	340	230	EE
ES	0	0	0	5	0	5	46	1	2	1	0	0	1	0	0	0	1	0	20	1	0	19	7	0	2	13	5	4	633	622	ES
FI	0	0	0	0	2	5	0	1	0	23	6	0	0	0	0	1	5	0	1	8	0	0	3	0	0	3	2	1	129	93	FI
FR	0	0	0	31	1	22	3	3	3	4	2	1	2	0	0	1	3	0	15	4	0	11	47	0	1	17	7	3	993	959	FR
GB	0	0	0	20	2	17	0	2	0	5	2	0	1	0	0	0	5	0	18	5	0	0	37	0	0	16	11	0	420	403	GB
GE	0	0	0	0	0	5	0	9	2	41	0	0	1	0	6	100	21	5	0	0	4	1	1	26	0	1	1	18	341	31	GE
GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	GL
GR	9	38	1	1	0	26	1	66	65	13	0	1	5	0	0	25	41	0	1	1	4	65	2	1	5	6	4	23	954	698	GR
HR	7	2	0	5	1	65	2	43	84	7	1	22	20	0	0	3	21	0	2	2	0	38	7	0	2	9	2	5	941	563	HR
HU	3	2	0	6	2	131	1	81	86	13	2	16	83	0	0	4	49	0	3	4	1	14	9	1	1	11	1	4	1136	877	HU
IE	0	0	0	11	1	11	0	1	0	2	1	0	1	0	0	0	3	0	21	3	0	0	14	0	0	12	13	0	287	278	IE
IS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	7	6	0	9	5	IS
IT	3	3	1	3	0	25	3	14	22	2	0	12	5	0	0	1	7	0	3	1	0	79	4	0	4	15	4	14	992	881	IT
KG	0	0	0	0	0	0	0	0	0	12	0	0	0	32	4	5	2	325	0	0	0	0	0	30	0	-0	0	20	1027	4	KG
KZT	0	0	0	0	0	4	0	2	1	150	0	0	0	1	4	4	16	26	0	1	0	0	1	13	0	1	0	6	639	16	KZT
LT	0	0	0	5	4	140	0	12	4	67	7	1	4	0	0	4	40	0	2	23	0	1	12	1	0	7	3	2	582	409	LT
LU	0	0	0	69	2	43	2	6	2	7	3	1	3	0	0	1	11	0	11	6	0	3	49	0	0	30	5	3	1327	1292	LU
LV	0	0	0	4	3	66	0	8	3	60	7	0	2	0	0	4	32	0	2	21	0	1	10	1	0	5	3	2	426	284	LV
MD	2	2	0	2	2	95	0	222	21	53	2	1	13	0	1	14	267	1	2	5	7	5	5	2	1	4	2	5	984	481	MD
ME	156	14	0	2	1	27	1	44	143	4	0	2	9	0	0	4	16	0	2	1	1	37	3	0	4	5	2	15	800	302	ME
MK	16	135	0	2	1	31	1	69	156	8	0	2	8	0	0	7	25	0	1	1	2	25	3	1	4	5	2	17	973	528	MK
MT	4	5	150	0	0	11	4	16	20	1	0	1	2	0	0	4	5	0	3	0	0	326	2	0	20	11	17	40	577	490	MT
NL	0	0	0	253	4	42	1	4	1	11	4	1	2	0	0	1	13	0	15	18	0	1	145	0	0	36	10	2	995	958	NL
NO	0	0	0	1	29	4	0	0	0	4	3	0	0	0	0	0	1	0	2	2	0	0	6	0	0	4	3	0	62	27	NO
PL	1	1	0	10	4	405	1	19	12	24	6	3	21	0	0	3	46	0	4	18	0	3	18	1	0	15	3	2	921	796	PL
PT	0	0	0	2	0	3	395	1	1	1	0	0	0	0	0	0	1	0	59	0	0	4	5	0	1	13	10	2	756	749	PT
RO	4	5	0	2	1	81	1	448	65	25	1	2	23	0	0	9	112	0	1	3	5	8	4	1	1	5	1	5	1070	788	RO
RS	21	16	0	3	1	63	1	139	372	11	1	3	23	0	0	5	37	0	2	2	1	18	5	1	2	7	1	9	1133	532	RS
RUE	0	0	0	0	0	5	0	2	0	161	1	0	0	0	1	2	16	1	0	1	0	0	1	2	0	4	0	1	254	19	RUE
SE	0	0	0	2	12	10	0	1	0	8	30	0	0	0	0	1	4	0	2	12	0	0	11	0	0	4	3	1	121	93	SE
SI	1	1	0	7	1	60	2	29	27	6	1	123	14	0	0	2	18	0	2	3	0	36	9	0	1	10	2	4	999	845	SI
SK	2	1	0	6	2	204	1	46	38	12	2	11	207	0	0	3	49	0	3	5	0	8	10	1	1	11	2	3	1048	881	SK
TJ	0	0	0	0	0	0	0	0	0	10	0	0	0	125	10	5	2	288	0	0	0	0	0	43	0	5	0	23	687	3	TJ
TM	0	0	0	0	0	2	0	2	1	48	0	0	0	5	81	19	8	113	0	0	0	1	0	38	0	2	0	15	483	13	TM
TR	1	3	0	0	0	12	0	29	11	24	0	0	2	0	1	447	46	1	1	1	8	17	1	25	2	2	2	27	684	124	TR
UA	1	1	0	2	2	95	0	62	12	103	2	1	12	0	1	14	437	2	1	5	4	3	4	3	0	4	1	4	919	286	UA
UZ	0	0	0	0	0	3	0	2	1	56	0	0	0	23	21	10	10	322	0	0	0	0	0	22	0	2	0	12	848	14	UZ
ATL	0	0	0	1	0	1	2	0	0	3	0	0	0	0	0	0	1	0	8	0	0	0	2	0	0	11	8	0	41	35	ATL
BAS	0	0	0	6	6	49	0	4	2	24	22	0	2	0	0	2	13	0	3	49	0	0	18	0	0	8	5	1	296	238	BAS
BLS	1	2	0	1	1	34	0	71	13	92	1	0	4	0	1	91	196	2	1	2	33	6	2	7	1	5	6	8	654	210	BLS
MED	5	8	3	1	0	16	4	26	27	8	0	2	3	0	0	78	23	0	3	1	2	176	2	6	12	9	12	24	607	408	MED
NOS	0	0	0	19	7	19	0	1	0	6	3	0	1	0	0	0	4	0	9	8	0	0	62	0	0	12	13	0	288	266	NOS
AST	0	0	0	0	0	2	0	3	1	22	0	0	0	4	8	64	7	29	0	0	0	5	0	114	1	6	1	15	250	16	AST
NOA	2	4	2	0	0	5	3	12	11	4	0	0	1	0	0	22	9	0	1	0	1	66	1	2	40	12	5	28	228	158	NOA
EXC	1	1	0	3	1	20	3	13	6	104	1	1	3	2	3	19	28	17	2	2	1	4	5	5	0	6	1	4	441	154	EXC
EU	1	2	0	16	3	63	15	39	14	12	6	3	10	0	0	4	20	0	9	8	1	14	20	0	1	12	5	4	722	639	EU
	ME	MK	MT	NL	NO	PL	PT	RO	RS	RUE	SE	SI	SK	TJ	TM	TR	UA	UZ	ATL	BAS	BLS	MED	NOS	AST	NOA	BIC	DMS	VOL	EXC	EU	