Table S1 Pollen and spore composition of the TKN2004 core from Takano Formation, Nagano Prefecture, Japan

Sample No	Depth from core top (cm)	Corrected depth from core top (cm)	Sedimentation age (ka) after Nagahashi et al. (2007)	Remarks with marker tephra codes	*Pinus* subg. *Diploxylon* マツ属複維管束亜属	Indistinct *Pinus* 不明マツ属	*Pinus* subg. *Haploxylon* マツ属単維管束亜属	*Abies* モミ属	*Picea* トウヒ属	*Tsuga* ツガ属	*Larix* カラマツ属	*Podocarpus* マキ属	*Sciadopitys* コウヤマキ属	*Cryptomeria* スギ属	Cupressaceae ヒノキ科	Sum of conifers	*Salix* ヤナギ属	*Myrica gale* ヤチヤナギ	*Juglans*–*Pterocarya* クルミ－サワグルミ属	*Betula* カバノキ属	*Carpinus* クマシデ属	*Corylus* ハシバミ属	*Fagus* ブナ属	*Quercus* subg. *Lepidobalanus* コナラ属コナラ亜属	*Quercus* subg. *Cyclobalanopsis* コナラ属アカガシ亜属	*Castanea* クリ属	*Ulmus*–*Zelkova* ニレ－ケヤキ属	*Ilex* モチノキ属	*Acer* カエデ属	*Tilia* シナノキ属	*Celtis*–*Aphananthe* エノキ－ムクノキ属	Ericaceae ツツジ科	*Fraxinus* トネリコ属	Sum of other broad-leaved trees	Sum of broad-leaved trees	Carduoideae キク亜科	*Artemisia* ヨモギ属	Gramineae イネ科	Cyperaceae カヤツリグサ科	Other non-arboreal pollens	Sum of non-arboreal polens (%)	Sum of counted pollens (grains)	Sum ofcounted spores (grains)	Spores ratio (%)	Non arboreal pollen ratio (%) (NAP)	Arboreal pollen ratio excluding Alnus (%)	Alnus ratio to all pollens and spores (%)	Pollen and spore abundance (grains/g)	TKN2004 Polen zone
237	237	237	37.61		1.3	7.0	25.2	8.6	32.4	2.1	0.3	0.0	0.0	0.0	0.0	76.9	0.0	1.9	0.3	16.6	0.0	0.0	0.0	1.9	0.0	0.3	1.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0	23.1	0.5	1.2	0.2	0.2	0.0	2.1	424	73	14.7	1.8	75.1	8.5	1132	
253	253	253	38.08		1.7	12.0	28.6	6.5	41.3	3.4	1.0	0.0	0.0	0.0	0.0	94.5	0.0	0.2	0.2	1.9	0.0	0.0	0.0	1.4	0.0	0.0	1.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	5.5	0.2	0.9	0.0	0.0	0.2	1.4	429	22	4.9	1.3	92.2	1.6	1620	
269&270	270	270	38.58		0.4	6.1	30.8	8.6	29.3	17.3	0.4	0.0	0.0	0.0	0.0	92.8	0.0	0.2	1.5	1.0	0.0	0.2	1.3	1.9	0.0	0.2	0.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0	7.2	0.0	0.6	0.2	0.2	0.2	1.1	540	54	9.1	1.0	88.6	1.3	2475	
287	287	287	39.09		2.7	7.7	30.3	5.7	33.9	10.9	0.0	0.0	0.0	0.2	0.2	91.8	0.0	0.5	0.2	1.1	0.0	0.0	1.4	3.6	0.0	0.0	0.9	0.0	0.2	0.2	0.0	0.0	0.0	0.0	8.2	0.0	1.3	0.2	0.0	0.0	1.6	450	7	1.5	1.5	96.1	0.9	4763	
304	304	304	39.59	BW1466	3.0	5.7	29.1	6.7	35.6	10.9	0.7	0.0	0.0	0.7	0.0	92.5	0.0	1.0	0.0	3.2	0.0	0.0	0.2	1.7	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.2	0.7	0.2	0.2	1.4	426	27	6.0	1.3	88.7	4.0	4363	
319&320	320	320	40.06		0.2	10.4	33.4	5.2	21.9	17.2	0.0	0.0	0.0	0.2	0.0	88.5	0.2	1.9	0.9	3.5	0.0	0.2	0.7	2.1	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.2	0.0	0.2	11.5	0.2	0.0	0.0	0.5	0.7	1.4	436	47	9.7	1.2	88.0	1.0	503	
337	337	337	40.56		2.4	6.3	19.5	11.6	42.9	12.3	1.2	0.0	0.0	0.2	0.0	96.4	0.0	0.2	0.0	1.7	0.0	0.0	0.0	1.2	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.2	0.0	0.0	0.0	0.2	419	7	1.6	0.2	97.4	0.7	8200	
353	353	353	41.04		1.2	5.7	25.1	9.0	41.7	9.5	2.4	0.0	0.7	0.7	0.0	96.0	0.0	0.5	0.5	0.7	0.0	0.0	0.0	0.5	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0	4.0	0.4	2.9	0.4	0.4	1.3	5.5	475	86	15.3	4.6	75.2	4.8	1745	
369&370	370	370	41.54		0.4	7.6	26.9	13.5	32.7	13.2	0.0	0.0	0.0	0.0	0.0	94.4	0.0	1.8	0.2	1.6	0.0	0.0	0.0	1.6	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.9	0.9	455	38	7.7	0.8	90.5	1.0	1761	
387	387	387	42.04		3.5	7.7	26.1	5.2	37.3	11.9	0.0	0.0	0.0	0.7	0.0	92.5	0.0	0.0	0.2	0.0	0.0	0.0	0.7	1.7	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	7.5	0.0	0.0	0.2	0.0	0.2	0.5	417	25	5.7	0.5	91.0	2.9	7925	
404	404	404	42.55		3.2	6.2	25.3	9.9	29.5	17.7	1.2	0.0	0.0	0.0	0.0	93.1	0.0	0.5	0.0	1.6	0.0	0.0	1.2	2.1	0.0	0.0	1.2	0.0	0.5	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.4	0.0	0.0	0.9	1.3	445	2	0.4	1.3	97.1	1.1	6225	
419&420	420	420	43.02		0.4	15.0	24.5	7.2	16.9	24.1	0.2	0.0	0.2	0.4	0.2	89.2	0.0	1.1	0.6	2.1	0.0	0.0	1.9	3.6	0.0	0.0	0.8	0.0	0.4	0.0	0.0	0.0	0.0	0.2	10.8	0.0	0.0	0.0	0.0	0.2	0.2	479	34	6.6	0.2	92.2	1.0	916	XII
437	437	437	43.52		3.7	9.2	34.2	3.9	23.1	20.8	0.0	0.0	0.0	0.0	0.0	94.9	0.0	0.9	0.0	0.7	0.0	0.0	0.0	1.8	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	437	5	1.1	0.0	98.0	0.9	2119	
453	453	453	44		1.2	7.2	29.2	7.2	42.2	10.0	0.0	0.0	0.0	0.0	0.0	97.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.5	0.0	0.5	435	113	20.6	0.4	78.6	0.4	6200	
469&470	470	470	44.5		0.2	5.9	23.6	11.3	38.5	11.3	0.2	0.0	0.0	0.0	0.2	91.2	0.0	1.1	0.5	3.8	0.0	0.0	0.5	2.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	8.8	0.0	0.8	0.0	0.4	1.7	3.0	474	272	36.5	1.9	59.5	2.1	7050	
487	487	487	45		1.9	0.7	31.4	9.2	43.6	10.7	0.0	0.0	0.5	1.0	0.0	99.0	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	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	415	108	20.7	0.0	78.6	0.8	1481	
504	504	504	45.5		2.7	9.7	34.8	6.3	30.9	10.4	0.0	0.0	0.5	0.7	0.0	95.9	0.0	0.0	0.5	0.0	0.0	0.0	0.7	2.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	419	40	8.7	0.0	90.2	1.1	1688	
520&521	521	521	46.01		1.3	10.0	26.7	6.7	20.3	22.1	0.2	0.0	0.2	0.6	0.0	88.1	0.0	1.5	0.6	4.6	0.2	0.2	1.0	2.3	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	0.2	0.6	0.4	0.2	0.0	1.4	509	86	14.5	1.2	80.5	3.9	8063	
537	537	537	46.48		1.7	3.1	29.8	10.6	42.8	7.3	0.7	0.0	0.0	0.2	0.0	96.2	0.0	0.2	0.0	1.7	0.0	0.0	0.0	0.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.7	0.0	3.8	0.2	0.0	0.0	0.0	0.0	0.2	448	35	7.2	0.2	87.6	5.0	4138	
553	553	553	46.95		1.9	4.0	32.8	4.0	48.6	7.4	0.0	0.0	0.0	0.0	0.0	98.6	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.5	0.0	0.0	0.0	0.5	436	64	12.8	0.4	86.0	0.8	963	
567&568	568	568	47.4		2.4	4.8	32.8	7.8	34.0	8.8	0.7	0.0	0.0	1.2	0.0	92.4	0.0	1.0	0.2	3.6	0.0	0.5	0.2	1.0	0.0	0.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0	2.4	0.7	0.0	0.9	4.0	455	84	15.6	3.3	78.1	3.0	1966	
587	587	587	47.96		2.5	1.3	29.8	3.3	47.4	13.3	0.5	0.0	0.0	0.0	0.0	98.0	0.0	0.5	0.5	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	410	32	7.2	0.0	90.3	2.5	2750	
604	604	604	48.46		2.8	9.7	38.9	5.7	28.1	11.8	0.0	0.0	0.0	0.7	0.0	97.6	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.9	0.9	431	78	15.3	0.8	83.3	0.6	3625	
617&618	618	618	48.87		1.7	6.8	15.7	1.6	6.0	11.5	0.2	0.0	0.2	4.7	0.8	49.1	1.4	4.3	3.3	8.5	0.0	0.2	3.9	21.7	0.0	0.0	6.8	0.0	0.4	0.2	0.0	0.0	0.0	0.2	50.9	0.5	0.5	2.2	1.5	2.9	7.6	595	194	24.6	5.7	65.3	4.4	4440	
633	633	633	49.32		1.5	9.0	32.3	5.5	26.9	10.4	0.0	0.0	0.0	0.5	0.0	86.1	0.0	1.5	1.5	3.0	0.0	0.0	1.5	4.5	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	0.0	0.0	0.5	0.0	0.0	0.5	428	64	13.0	0.4	81.7	4.9	5775	
644	644	644	49.64		1.2	11.6	29.9	1.7	24.6	12.1	0.0	0.0	0.0	0.7	0.7	82.5	0.0	0.7	0.0	1.7	0.0	0.0	2.8	9.7	0.0	0.0	1.7	0.0	0.0	0.0	0.5	0.0	0.0	0.5	17.5	0.0	0.0	0.0	0.4	0.4	0.9	450	60	11.8	0.8	82.7	4.7	3738	
656	656	656	50		3.9	18.0	30.3	1.9	13.1	12.9	0.0	0.0	0.5	0.0	0.0	80.6	0.0	1.2	1.2	1.9	0.0	0.5	5.3	6.3	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0	19.4	0.0	0.0	0.0	0.0	0.0	0.0	453	47	5.8	0.0	91.4	2.9	3325	
667&668	668	668	50.35		3.3	7.9	15.4	2.0	10.1	18.2	0.2	0.0	0.0	2.4	0.4	59.9	0.7	4.4	2.9	3.5	0.4	0.0	6.6	13.6	0.0	0.0	6.1	0.0	0.6	0.2	0.0	0.0	0.4	0.7	40.1	0.0	0.5	0.9	1.0	1.5	3.9	588	107	15.4	3.3	78.3	3.0	2291	
687	687	687	50.92		3.9	18.0	30.3	1.9	13.1	12.9	0.0	0.0	0.5	0.0	0.0	80.6	0.0	1.2	1.2	1.9	0.0	0.5	5.3	6.3	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0	19.4	0.0	0.0	0.0	0.0	0.0	0.0	425	26	5.8	0.0	91.4	2.9	6850	XI
704	704	701	51.33		1.6	14.7	37.0	6.0	4.3	17.4	1.6	0.0	0.0	0.0	0.0	82.6	0.0	1.6	2.7	2.7	0.0	0.0	8.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	0.0	0.0	0.0	0.0	0.0	0.0	184	133	42.0	0.0	58.0	0.0	69	
721&722	722	718	51.83		4.1	10.8	16.5	1.6	3.4	8.2	0.2	0.0	0.0	4.3	1.4	50.4	0.2	8.3	3.7	5.5	0.2	0.0	9.8	13.5	0.4	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.2	49.6	0.6	1.4	1.5	2.1	2.9	8.5	662	177	21.1	6.7	67.1	5.1	4990	
737	737	733	52.28		4.2	18.2	36.9	1.8	9.9	1.3	0.0	0.0	0.8	0.0	0.0	73.0	0.0	1.8	3.1	1.8	0.0	0.8	5.7	10.1	0.0	0.0	3.4	0.0	0.3	0.0	0.0	0.0	0.0	0.0	27.0	0.0	1.0	0.0	0.0	0.2	1.2	408	73	15.2	1.0	80.0	3.7	2808	
753	753	749	52.75		2.1	14.1	38.4	4.1	12.9	15.5	0.0	0.0	0.5	0.5	0.0	88.1	0.0	1.4	0.0	0.7	0.0	0.0	3.6	4.3	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	0.0	0.0	0.0	0.5	0.0	0.5	432	69	13.8	0.4	83.6	2.2	3638	
771&772	772	768	53.31		5.2	7.9	15.1	2.9	5.2	9.9	0.3	0.0	0.3	1.5	0.7	49.0	0.2	5.9	2.7	3.2	0.0	0.2	5.5	24.7	0.0	0.2	6.9	0.0	0.8	0.3	0.0	0.0	0.3	0.2	51.0	0.0	0.6	0.3	0.6	3.3	4.8	669	80	10.7	4.3	79.6	5.5	10350	
794	794	790	53.96		3.8	13.0	39.3	3.3	30.5	7.3	0.3	0.0	0.0	0.0	0.0	97.3	0.0	0.0	0.0	1.5	0.0	0.0	0.3	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	403	47	10.4	0.0	88.9	0.7	7550	
806	806	802	54.32		1.2	11.9	37.9	2.4	26.9	14.1	0.0	0.0	0.0	0.0	0.0	94.4	0.0	1.2	0.5	1.7	0.0	0.0	0.7	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.5	0.0	0.0	0.0	0.5	428	54	11.2	0.4	85.5	2.9	6500	
817&818	818	814	54.67		8.4	14.1	29.9	3.3	4.5	9.8	0.5	0.0	0.7	1.0	0.5	72.7	0.0	5.3	0.7	8.1	0.0	0.0	3.8	7.7	0.0	0.0	1.0	0.0	0.2	0.2	0.0	0.0	0.2	0.0	27.3	0.2	1.1	0.7	0.2	1.1	3.3	455	93	17.0	2.7	76.3	4.0	7600	
837	837	832	55.2		1.2	17.0	37.4	2.9	20.9	10.8	0.5	0.0	0.5	0.7	0.0	91.8	0.0	2.2	0.0	1.4	0.0	0.0	1.4	1.4	0.0	0.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.5	0.0	0.0	0.0	0.5	431	49	10.2	0.4	86.9	2.5	3800	
853	853	847	55.65		1.4	12.0	37.3	1.9	27.2	9.9	0.0	0.0	0.0	0.2	1.0	90.9	0.2	2.4	1.2	1.2	0.0	0.0	0.2	2.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.2	0.0	0.2	0.5	430	37	7.9	0.4	89.1	2.6	9725	
869&870	870	863	56.15		6.6	19.2	41.0	0.6	1.4	15.1	0.8	0.0	0.0	0.4	0.2	85.4	0.0	1.6	0.4	0.6	0.0	0.0	3.3	6.4	0.0	0.0	1.4	0.0	0.4	0.2	0.0	0.2	0.0	0.0	14.6	0.0	0.0	0.0	0.2	0.4	0.6	494	73	12.9	0.5	85.5	1.1	567	
887	887	880	56.65		0.5	7.4	44.8	3.9	19.0	8.9	0.0	0.0	0.2	0.2	0.0	85.0	0.0	3.2	0.2	1.2	0.0	0.2	1.5	5.9	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	0.2	0.0	0.0	0.0	0.0	0.2	430	52	10.8	0.2	84.2	4.8	5025	
904	904	897	57.16		1.9	14.2	37.4	5.2	16.8	6.9	0.0	0.0	0.0	1.4	0.0	83.9	0.0	2.6	0.7	1.7	0.0	0.0	1.4	5.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	432	41	8.7	0.0	89.2	2.1	8450	X
919&920	920	914	57.63		14.3	12.8	41.4	1.1	7.5	13.9	0.0	0.0	0.0	0.0	0.0	91.0	0.0	2.4	0.9	1.5	0.0	0.2	0.7	1.8	0.0	0.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.2	0.2	0.2	0.4	1.1	466	21	4.3	1.0	93.2	1.4	1522	
937	937	931	58.13		2.0	16.6	39.6	3.1	22.9	5.6	1.3	0.0	0.0	0.2	0.0	91.5	0.0	0.9	0.2	0.9	0.0	0.0	1.1	4.3	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.0	0.4	0.2	0.0	0.0	0.7	454	26	5.4	0.6	92.7	1.3	12000	
953	953	946	58.6		1.9	16.2	43.7	3.1	26.1	3.4	0.2	0.0	0.0	0.0	0.0	94.7	0.0	1.4	0.0	1.7	0.0	0.0	0.2	1.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	422	61	12.6	0.0	85.7	1.7	2700	
969&970	970	964	59.11		4.2	8.7	27.7	1.5	6.7	30.0	1.2	0.0	0.0	0.2	0.0	80.2	0.2	7.4	0.5	5.4	0.0	0.0	0.5	2.5	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	0.2	0.9	0.5	0.5	0.2	2.3	437	94	17.7	1.9	76.1	4.3	561	
987	987	981	59.61		1.6	9.5	30.8	9.5	34.1	5.8	0.0	0.0	0.0	0.2	0.0	91.6	0.2	0.4	0.2	2.9	0.0	0.0	0.4	1.3	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.2	0.0	0.0	0.2	0.4	461	28	5.7	0.4	92.2	1.6	10250	
1004	1004	998	60.11		1.0	10.0	43.9	10.0	23.3	3.9	1.5	0.0	0.0	0.2	0.0	93.7	0.0	1.0	0.0	3.2	0.0	0.0	0.2	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.5	0.2	0.0	0.0	0.7	421	74	14.9	0.6	83.2	1.2	9875	
1031&1032	1032	1026	60.91		2.4	8.8	28.3	2.4	4.9	10.2	0.0	0.0	0.0	1.1	0.0	58.2	0.0	25.9	0.9	8.4	0.0	0.2	0.2	3.8	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	41.8	0.0	1.2	1.4	0.6	1.4	4.5	509	138	21.3	3.6	69.9	5.3	1089	
1037	1037	1031	61.09		1.5	5.4	31.1	13.0	35.7	5.9	1.7	0.0	0.0	1.5	0.0	95.6	0.2	0.2	0.0	0.7	0.0	0.0	0.0	1.5	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.9	0.0	0.0	0.0	0.9	430	65	13.1	0.8	82.6	3.4	8475	
1053	1053	1047	61.56		1.5	7.5	36.6	13.1	32.0	5.8	0.2	0.0	0.0	1.5	0.0	98.1	0.5	0.5	0.0	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.2	0.0	0.0	0.0	0.2	420	124	22.8	0.2	75.9	1.1	4650	
1067&1068	1068	1062	62.01	SG	0.6	5.0	23.1	8.0	27.9	4.4	1.5	0.0	0.0	0.0	0.0	70.4	0.0	20.0	0.2	5.0	0.0	0.0	0.0	1.9	0.0	0.2	1.9	0.0	0.0	0.0	0.0	0.2	0.2	0.0	29.6	0.0	1.9	0.7	0.2	1.4	4.1	589	442	42.9	2.3	50.8	4.0	7694	
1083	1083	1066	62.12		1.9	8.1	41.4	6.7	29.2	11.8	0.0	0.0	0.0	0.0	0.0	99.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	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	0.0	0.0	0.0	0.0	434	110	20.2	0.0	79.4	0.4	1731	
1104	1104	1087	62.74		0.0	4.8	33.3	13.1	40.9	7.8	0.2	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	424	104	19.7	0.0	79.7	0.6	1640	
1115&1116	1116	1099	63.1		9.7	8.7	31.0	9.9	24.7	3.0	0.8	0.0	0.0	0.0	0.0	87.7	0.0	9.7	0.0	1.2	0.0	0.0	0.0	0.4	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.2	0.0	0.0	12.3	0.0	1.6	0.9	0.2	1.4	4.1	557	366	39.7	2.5	53.8	4.0	4679	
1137	1137	1120	63.72		0.7	8.6	29.4	10.8	36.8	10.8	0.5	0.0	0.0	0.0	0.0	97.5	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	413	112	21.3	0.0	77.7	1.0	1756	
1154	1154	1135	64.16		0.0	6.6	25.3	11.7	54.0	1.7	0.0	0.0	0.0	0.0	0.0	99.3	0.0	0.0	0.2	0.2	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	0.7	0.0	0.0	0.0	0.0	0.0	0.0	415	116	21.8	0.0	77.4	0.8	2075	
1169&1170	1170	1150	64.61		0.0	4.9	24.6	6.1	28.1	10.2	1.6	0.0	0.0	0.2	0.0	75.8	0.0	16.9	0.2	4.1	0.0	0.0	0.0	0.2	0.0	0.0	2.4	0.0	0.0	0.2	0.0	0.2	0.0	0.0	24.2	0.3	7.1	2.1	1.5	2.9	13.8	680	389	36.4	8.8	45.9	8.9	3966	IXb
1187	1187	1167	65.11		1.2	6.2	36.4	14.3	32.4	8.1	0.5	0.0	0.0	0.0	0.0	99.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.5	0.5	0.0	0.9	1.8	442	154	25.8	1.3	70.5	2.3	3625	
1204	1204	1184	65.61		0.2	5.1	32.6	12.0	41.4	5.9	0.0	0.0	0.0	0.7	0.0	98.0	0.0	0.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	2.0	0.0	0.9	0.7	0.0	0.0	1.6	436	135	23.6	1.2	71.5	3.7	2808	
1219&1220	1220	1200	66.09		0.0	1.2	12.2	14.6	33.4	24.1	0.2	0.0	0.0	1.0	0.2	87.1	0.7	9.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.2	0.2	12.9	0.0	6.3	1.4	2.2	2.0	11.8	558	227	28.9	8.4	52.2	10.4	3518	
1237	1237	1217	66.59		1.0	12.7	33.8	9.1	28.3	11.8	1.9	0.0	0.0	0.0	0.0	98.6	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.5	0.0	0.0	0.0	0.5	429	221	34.0	0.3	64.2	1.5	2950	
1253	1253	1228	66.91		0.5	7.6	24.7	12.9	37.4	15.2	0.0	0.0	0.0	1.2	0.5	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.7	0.0	2.0	450	135	23.1	1.5	74.0	1.4	4038	
1269&1270	1270	1245	67.42		0.2	0.8	16.5	12.8	36.0	20.8	1.0	0.0	0.0	4.5	0.2	92.8	0.6	3.7	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.8	0.0	0.0	7.2	0.0	5.3	1.9	0.8	1.1	9.2	618	788	56.0	4.1	34.6	5.3	5736	
1287	1287	1262	67.92		1.4	9.4	31.1	10.4	34.7	5.3	0.2	0.0	0.2	3.1	0.0	95.9	0.0	1.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.2	0.7	0.0	0.9	446	134	23.1	0.7	71.6	4.7	8575	
1304	1304	1278	68.39		0.2	7.0	31.1	9.3	34.3	12.3	0.5	0.0	0.0	0.2	0.0	94.9	0.0	1.4	0.0	1.4	0.0	0.0	0.0	0.9	0.0	0.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.5	0.0	0.0	0.0	0.5	443	123	21.7	0.4	76.1	1.8	1617	
1319&1320	1320	1294	68.87		1.1	4.3	8.7	11.3	18.5	23.4	0.8	0.2	0.0	26.2	0.9	95.5	0.6	1.9	0.0	0.6	0.0	0.0	0.0	0.2	0.0	0.0	0.9	0.0	0.2	0.0	0.0	0.2	0.0	0.0	4.5	0.2	3.8	2.2	2.6	2.4	11.2	627	387	38.2	6.9	52.3	2.7	7588	
1337	1337	1311	69.37		2.4	12.6	13.1	6.4	34.8	24.0	0.0	0.0	0.0	5.2	1.2	99.8	0.0	0.0	0.0	0.0	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	0.0	0.2	0.0	0.7	0.0	0.0	0.0	0.7	431	147	25.4	0.5	72.7	1.4	9200	
1358	1358	1332	69.99		2.7	9.7	12.8	6.8	39.0	21.5	1.2	0.0	0.0	5.6	0.2	99.5	0.0	0.0	0.0	0.2	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	0.0	0.5	0.0	0.5	0.0	0.2	0.2	0.9	423	50	10.6	0.8	87.3	1.3	1346	
1379&1380	1380	1337	70.14	Tt-E	0.6	0.8	11.0	14.9	21.5	41.6	0.4	0.0	0.0	8.1	0.0	99.0	0.0	0.2	0.0	0.4	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	0.0	1.0	0.0	1.5	0.0	0.7	0.6	2.8	534	121	18.5	2.3	73.7	5.5	5792	
1387	1387	1344	70.34		1.3	5.1	14.4	14.6	44.2	18.6	0.4	0.0	0.0	1.1	0.0	99.8	0.0	0.0	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	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	453	32	6.6	0.0	93.2	0.2	4863	
1404	1404	1360	70.82		1.3	6.1	16.1	16.8	56.4	3.1	0.0	0.0	0.0	0.2	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	463	6	1.3	0.0	97.9	0.9	9775	
1417&1418	1417	1374	71.23		1.7	2.6	17.5	12.4	26.2	19.8	0.4	0.0	0.2	15.6	1.1	97.4	0.2	0.4	0.6	0.6	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.2	2.6	1.1	1.8	0.2	5.9	545	61	10.1	5.3	77.4	7.3	5050	

1437	1437	1392	71.76		1.3	5.6	18.2	10.0	38.6	14.4	0.0	0.0	0.2	7.5	1.3	97.1	0.0	0.0	2.7	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	0.0	0.0	2.9	0.2	0.4	0.0	0.0	0.2	0.8	483	12	2.4	0.8	96.8	0.0	6188	IXa
1453	1453	1408	72.24		2.6	9.7	17.5	7.3	33.6	14.7	0.5	0.0	1.4	11.1	1.7	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	1.2	428	7	1.6	1.1	97.2	0.0	10875	
1465&1466	1466	1421	72.62		3.7	7.4	11.3	4.8	34.1	31.6	0.2	0.0	0.7	4.1	0.0	97.9	0.0	0.2	0.0	0.7	0.0	0.0	0.2	0.5	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.7	0.0	0.4	0.4	1.5	452	16	3.4	1.5	92.7	2.4	1671	
1487	1487	1442	73.24		2.0	7.9	20.5	7.4	35.4	14.7	0.2	0.0	0.5	8.4	0.0	97.1	0.0	0.0	0.0	0.5	1.4	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	2.9	0.0	0.4	0.0	0.0	0.0	0.4	452	13	2.8	0.4	95.3	1.5	5813	
1504	1504	1459	73.75		1.4	6.5	12.0	6.9	32.9	14.5	0.2	0.0	0.2	19.1	3.0	96.8	0.0	0.9	0.2	1.2	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	1.8	0.0	0.2	0.0	2.0	457	84	15.5	1.7	80.2	2.6	6763	
1519&1520	1520	1473	74.16		1.4	3.8	23.7	9.1	26.3	25.6	0.0	0.0	0.0	5.5	0.0	95.5	0.0	2.9	0.0	0.0	0.0	0.0	1.0	0.2	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	1.7	0.9	0.4	0.2	3.2	463	56	10.8	2.9	80.5	5.8	1854	
1537	1537	1490	74.66		1.8	8.8	23.0	10.1	39.9	6.9	0.7	0.0	0.0	6.0	0.9	98.2	0.0	0.2	0.7	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.8	0.0	0.0	0.7	0.0	0.4	1.1	453	26	5.4	1.0	90.6	2.9	9200	
1553	1553	1506	75.14		4.3	11.3	22.1	8.0	39.2	7.8	0.0	0.0	0.5	2.8	1.3	97.2	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	2.8	0.0	0.7	0.5	0.0	0.2	1.4	440	22	4.8	1.3	86.1	7.8	5775	
1569&1570	1570	1522	75.61		3.4	7.6	25.8	5.1	20.9	22.8	0.2	0.0	0.0	3.4	0.0	89.2	0.0	1.0	0.7	0.2	0.0	0.0	3.8	3.1	0.0	0.0	1.6	0.0	0.3	0.0	0.0	0.0	0.0	0.2	10.8	0.2	0.6	0.5	0.0	0.2	1.4	628	59	8.6	1.3	88.6	1.5	8588	
1582	1582	1534	75.96		5.5	16.9	12.9	3.0	4.0	2.0	0.0	0.0	2.5	38.8	5.5	91.0	0.0	0.2	1.2	1.2	0.0	0.0	1.0	3.2	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	9.0	0.0	0.5	0.2	0.0	0.0	0.7	425	46	9.8	0.6	85.4	4.2	4900	
1594	1594	1546	76.32		2.0	19.4	22.4	6.4	8.7	7.7	0.0	0.0	1.3	12.0	1.8	81.6	0.0	1.0	1.8	1.0	0.0	0.0	2.8	8.7	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.3	0.0	18.4	0.2	1.7	0.2	0.0	0.5	2.6	417	50	10.7	2.4	83.9	3.0	1688	
1606	1606	1558	76.67		3.2	20.6	28.4	5.5	10.1	6.7	0.0	0.0	0.5	9.6	1.1	85.8	0.0	0.5	2.1	1.6	0.0	0.0	4.1	4.4	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	0.2	1.3	0.0	0.0	0.0	1.6	451	41	8.3	1.4	88.6	1.6	4100	
1633	1633	1585	77.47		4.8	22.6	34.4	7.5	6.5	2.6	0.0	0.0	0.0	7.0	0.2	85.6	0.0	1.2	1.9	0.5	0.0	0.0	2.9	5.3	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	14.4	0.0	0.9	0.0	0.0	0.0	0.9	428	36	7.8	0.9	89.7	1.7	3867	
1645	1645	1597	77.83		5.5	13.5	23.5	8.1	5.0	5.9	0.0	0.0	1.4	11.8	0.2	74.9	0.0	1.2	3.1	0.7	0.0	0.0	8.3	6.9	0.0	0.0	4.0	0.0	0.7	0.0	0.0	0.0	0.2	0.0	25.1	0.2	2.2	0.4	0.4	0.2	3.5	451	65	12.6	3.1	81.8	2.5	6450	
1657	1657	1609	78.18		6.4	21.7	27.4	5.9	1.4	4.5	0.0	0.0	0.9	8.5	0.0	76.7	0.0	0.0	3.5	0.0	0.0	0.0	3.5	14.4	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.3	0.0	0.9	0.0	0.0	0.0	0.9	436	53	10.8	0.8	86.7	1.6	233	
1659&1660	1660	1612	78.27		7.8	0.8	3.0	1.9	2.8	2.3	0.0	0.0	0.2	15.9	0.2	35.0	0.0	7.8	6.1	1.7	0.0	0.0	20.8	20.8	0.0	0.0	6.1	0.0	0.8	0.0	0.0	0.0	0.2	0.6	65.0	0.0	3.1	0.2	0.8	0.8	4.8	524	55	9.5	4.3	81.5	4.7	4825	
1687	1687	1639	79.07		4.8	12.4	28.0	9.0	5.5	5.7	0.2	0.0	0.9	6.4	0.7	73.8	0.0	0.7	3.0	0.7	0.0	0.0	7.8	8.5	0.0	0.2	4.4	0.0	0.7	0.0	0.0	0.0	0.2	0.0	26.2	0.0	1.6	0.2	0.7	0.4	2.9	451	30	6.2	2.7	90.4	0.6	3658	
1704	1704	1656	79.57		6.2	9.0	21.3	6.8	8.8	3.1	0.0	0.0	0.4	10.8	0.2	66.6	0.0	1.5	7.5	0.9	0.0	0.0	11.4	7.9	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.4	0.0	2.1	0.2	0.0	0.0	2.3	473	28	5.6	2.2	90.8	1.4	10425	
1719&1720	1720	1672	80.04		0.7	1.2	0.7	1.0	2.9	3.6	0.0	0.0	0.2	9.5	0.5	20.3	0.0	8.1	13.4	1.9	0.0	0.0	19.8	19.1	0.0	0.0	14.8	0.2	1.9	0.0	0.0	0.0	0.2	0.2	79.7	0.0	5.9	1.0	0.0	2.1	9.0	478	79	14.2	7.7	75.2	2.9	4642	
1737	1737	1689	80.55		6.6	4.9	15.4	4.9	6.9	3.6	0.0	0.0	0.2	8.1	3.4	54.2	0.0	5.6	8.6	1.5	0.0	0.0	10.5	10.9	0.0	0.0	7.5	0.0	0.6	0.0	0.0	0.0	0.4	0.2	45.8	0.0	2.3	0.0	0.0	0.4	2.7	488	25	4.9	2.5	91.0	1.6	3206	
1753	1753	1705	81.02		4.1	1.9	13.9	2.6	3.8	2.4	0.0	0.0	0.0	7.7	3.1	39.5	0.0	5.7	9.8	1.2	0.0	0.0	16.3	14.8	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	60.5	0.0	1.1	0.2	0.2	0.0	1.6	444	43	8.8	1.4	85.8	3.9	3408	
1771&1772	1772	1722	81.52		1.5	1.5	0.7	0.7	0.7	0.5	0.0	0.0	0.2	7.0	1.2	14.2	0.0	9.0	13.2	3.0	0.0	0.0	22.4	20.7	0.0	0.2	11.7	0.0	2.7	0.0	0.7	0.0	0.0	2.0	85.8	0.0	8.4	1.2	1.2	2.9	13.7	490	88	15.2	11.6	69.4	3.8	1806	VIII
1782	1782	1732	81.82		1.2	3.3	4.7	0.9	2.4	1.7	0.0	0.0	0.5	9.0	4.3	28.0	0.0	6.9	12.8	1.9	0.0	0.2	20.9	20.1	0.0	0.0	7.6	0.0	0.2	0.0	0.0	0.2	0.9	0.2	72.0	0.0	2.5	0.2	0.0	0.2	2.9	445	54	10.8	2.6	84.6	2.0	3483	
1794	1794	1744	82.17		6.8	7.5	7.7	1.1	3.4	0.7	0.2	0.0	0.2	9.0	0.7	37.3	0.2	4.3	10.9	1.8	0.0	0.0	15.4	21.0	0.0	0.2	6.6	0.0	0.9	0.0	0.0	0.0	0.9	0.5	62.7	0.0	3.0	0.2	0.6	0.2	4.0	472	71	13.1	3.5	81.4	2.0	4525	
1806	1806	1756	82.53		2.5	9.6	14.9	1.8	4.1	1.8	0.0	0.0	0.5	8.0	0.7	44.0	0.5	3.9	8.7	2.1	0.5	0.0	14.2	13.1	0.0	0.0	11.5	0.0	0.0	0.0	0.0	0.0	1.4	0.2	56.0	0.0	2.0	0.4	0.7	0.0	3.1	456	66	12.6	2.7	83.5	1.1	4288	
1819&1820	1820	1770	82.94		2.7	1.2	2.0	6.5	4.2	1.0	0.2	0.0	0.0	7.2	0.7	25.9	0.0	6.2	15.5	3.2	0.2	0.0	12.7	15.5	0.0	0.0	15.5	0.0	4.5	0.0	0.2	0.0	0.0	0.5	74.1	0.0	2.2	1.8	1.3	2.0	7.4	445	95	17.6	6.1	74.3	2.0	12675	
1832	1832	1781	83.3		3.6	6.5	13.8	0.7	2.7	1.0	0.0	0.0	0.2	8.5	1.9	39.0	0.0	3.6	12.1	5.1	0.0	0.2	13.6	11.6	0.0	0.0	13.8	0.0	0.7	0.0	0.0	0.0	0.0	0.2	61.0	0.0	4.4	0.2	0.7	0.9	6.1	459	63	12.1	5.4	79.1	3.4	9375	
1844	1844	1794	83.65		2.7	4.5	10.8	3.6	4.0	0.9	0.9	0.0	0.9	9.0	3.1	40.4	0.0	6.5	17.8	3.8	0.0	0.0	4.0	13.7	0.2	0.0	13.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	59.6	0.0	4.4	0.2	0.0	0.4	5.0	499	113	18.5	4.1	72.7	4.7	12775	
1856	1856	1806	84.01		5.8	23.8	41.1	3.8	9.5	1.8	0.8	0.0	0.4	3.2	0.2	90.3	0.0	0.2	2.6	0.2	0.0	0.0	2.8	2.0	0.2	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	9.7	0.0	0.8	0.2	0.4	0.0	1.3	519	10	1.9	1.3	95.3	1.5	696	
1867&1868	1868	1816	84.3		2.1	2.5	3.9	1.4	0.0	0.9	0.2	0.0	0.0	9.7	6.4	27.1	0.0	13.8	12.6	2.8	0.2	0.2	9.0	17.2	0.0	0.2	12.4	0.0	1.1	0.0	0.5	0.0	2.8	0.0	72.9	0.2	7.1	0.9	2.2	2.6	13.0	537	58	9.7	11.8	73.1	5.4	3719	
1882	1882	1828	84.66		4.7	8.8	14.7	3.2	7.9	2.7	0.5	0.0	0.0	8.6	1.5	52.6	0.0	6.4	12.3	1.7	0.0	0.0	8.4	10.8	0.0	0.0	5.7	0.0	0.0	1.0	0.0	0.0	1.0	0.2	47.4	0.0	2.9	0.0	1.1	0.7	4.7	444	41	8.5	4.3	83.9	3.3	2525	
1894	1894	1840	85.01		3.7	6.1	15.2	2.1	4.7	2.1	0.9	0.0	0.0	7.2	1.2	43.1	0.0	7.2	12.4	5.4	0.0	0.2	3.0	19.1	0.0	0.2	7.7	0.0	0.0	0.2	0.0	0.2	1.2	0.0	56.9	0.0	2.5	0.6	1.1	0.8	5.1	475	29	5.8	4.8	85.1	4.4	2425	
1906	1906	1850	85.31	SP II	4.3	8.1	22.6	3.3	14.2	0.8	1.0	0.0	0.0	8.9	3.3	66.5	0.0	7.6	5.6	1.8	0.3	0.0	4.6	7.9	0.3	0.0	3.0	0.0	0.3	0.5	0.0	0.0	1.5	0.3	33.5	0.0	1.4	0.5	1.4	0.9	4.1	441	71	13.9	3.5	77.0	5.7	3708	
1915&1916	1916	1860	85.6		9.8	8.1	7.9	3.1	5.3	3.3	0.6	0.0	0.2	4.2	10.3	52.9	0.0	9.9	7.7	5.9	0.0	0.6	2.9	10.5	0.0	0.2	7.7	0.0	0.9	0.2	0.2	0.0	0.2	0.2	47.1	0.0	1.9	0.2	1.3	1.3	4.6	629	121	16.1	3.9	72.4	7.6	9375	
1937	1937	1880	86.2		3.7	16.1	22.8	6.7	22.6	6.2	0.9	0.0	0.2	2.3	2.1	83.6	0.0	3.5	1.8	0.9	0.0	0.0	3.0	3.5	0.0	0.0	2.1	0.0	0.0	0.5	0.0	0.0	0.9	0.2	16.4	0.0	1.1	0.0	0.0	0.4	1.5	460	14	3.0	1.5	91.6	4.0	11850	
1953	1953	1895	86.64		1.5	15.7	24.2	9.0	20.2	8.2	0.6	0.0	0.0	4.7	0.9	85.0	0.0	4.5	1.5	1.5	0.0	0.2	1.3	3.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.4	0.0	15.0	0.0	0.4	0.0	0.2	0.4	1.0	500	56	10.1	0.9	83.8	5.2	4633	
1969&1970	1970	1911	87.11		6.2	13.8	8.3	6.7	12.4	15.5	1.2	0.0	0.0	2.4	3.6	70.0	0.0	7.9	2.4	5.0	0.0	0.5	3.8	3.1	0.0	0.2	5.7	0.0	0.5	0.2	0.0	0.0	0.5	0.2	30.0	0.2	0.7	0.2	0.4	0.9	2.4	451	122	21.3	1.9	73.3	3.5	7163	
1987	1987	1928	87.62		3.5	23.4	21.9	5.5	13.5	8.0	1.2	0.0	0.0	7.2	1.0	85.3	0.0	3.0	2.2	2.7	0.0	0.0	0.5	4.2	0.2	0.0	0.5	0.0	0.0	0.2	0.0	0.0	1.0	0.0	14.7	0.0	1.4	0.0	0.5	0.0	1.9	431	25	5.5	1.8	87.9	4.8	5700	VIIb
2004	2004	1942	88.03	Aso-4	2.3	15.0	16.0	8.7	30.0	10.3	0.5	0.0	0.7	3.8	0.2	87.6	0.0	3.5	1.4	1.6	0.0	0.0	0.7	1.6	0.2	0.0	2.3	0.0	0.2	0.0	0.0	0.0	0.7	0.0	12.4	0.0	0.7	0.0	0.0	0.4	1.1	454	186	29.1	0.8	66.6	3.6	8000	
2019&2020	2020	1958	88.44		5.8	10.0	21.5	5.4	32.5	13.8	0.2	0.0	0.2	0.2	0.0	89.7	0.0	1.2	1.6	2.8	0.0	0.0	0.9	2.3	0.0	0.0	1.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.2	0.5	0.2	0.2	1.1	444	23	4.9	1.1	91.6	2.4	11675	
2037	2037	1975	88.89		2.8	21.6	38.7	2.8	13.4	11.3	0.7	0.0	0.9	0.2	0.0	92.5	0.0	1.6	0.5	0.0	0.0	0.0	0.7	2.8	0.0	0.0	1.4	0.0	0.0	0.2	0.0	0.0	0.2	0.0	7.5	0.0	0.2	0.0	0.2	0.0	0.5	428	40	8.5	0.4	91.0	0.0	5338	
2053	2053	1991	89.31		1.7	23.5	51.6	1.7	5.1	4.8	0.0	0.0	0.5	2.4	0.2	91.5	0.0	1.0	0.7	0.0	0.0	0.0	1.0	2.2	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.2	0.0	8.5	0.0	1.6	0.0	0.4	0.2	2.2	445	51	10.3	2.0	83.3	4.4	1256	
2069&2070	2070	2008	89.75		2.9	6.3	14.4	10.3	26.0	11.3	0.0	0.0	1.0	8.2	1.4	81.7	0.0	3.1	2.6	0.7	0.0	0.0	2.6	4.1	0.0	0.0	4.1	0.0	0.5	0.0	0.0	0.0	0.5	0.0	18.3	0.0	1.4	0.5	0.2	0.2	2.3	433	26	5.7	2.2	90.6	1.5	2869	
2087	2087	2025	90.2		2.4	25.8	29.8	3.8	5.4	8.7	0.0	0.0	1.4	11.3	0.9	89.6	0.0	2.4	2.6	0.5	0.0	0.0	3.1	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.5	0.0	10.4	0.0	0.9	0.0	0.2	0.0	1.1	439	46	9.5	1.0	87.2	2.3	6063	
2104	2104	2042	90.64		3.5	21.0	26.9	1.5	4.9	6.9	0.2	0.0	2.0	16.3	0.7	84.0	0.0	3.5	1.0	0.2	0.0	0.0	6.7	2.5	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	16.0	0.0	0.0	0.2	0.2	0.0	0.5	422	18	4.1	0.5	92.0	3.4	3950	
2121&2122	2122	2060	91.11		5.6	5.4	16.6	5.4	13.2	10.0	0.2	0.0	2.0	23.4	5.8	87.8	0.0	1.6	2.2	0.6	0.0	0.0	3.4	1.2	0.0	0.0	2.0	0.0	0.4	0.0	0.2	0.0	0.6	0.0	12.2	0.0	1.3	0.2	0.2	0.4	2.1	524	28	5.1	2.0	90.4	2.5	6900	
2137	2137	2075	91.5		4.5	18.0	47.5	5.9	9.5	9.2	0.2	0.0	0.5	3.8	0.3	99.3	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.2	583	17	2.8	0.2	96.5	0.5	7500	
2153	2153	2091	91.92		1.8	14.9	40.9	5.1	14.9	14.3	0.2	0.0	0.2	6.4	0.0	98.9	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.2	0.9	0.0	0.0	0.5	1.6	444	114	20.4	1.3	78.0	0.4	2335	
2169&2170	2170	2106	92.31		3.6	8.6	5.3	3.2	7.4	16.2	0.2	0.0	1.1	31.4	9.5	86.5	0.0	4.0	0.8	0.2	0.0	0.0	1.7	3.8	0.0	0.0	2.3	0.0	0.2	0.0	0.0	0.0	0.4	0.0	13.5	0.4	3.4	0.4	0.2	0.7	5.0	537	53	9.0	4.6	80.3	6.1	738	
2187	2187	2122	92.73		3.3	25.3	42.3	4.4	7.9	9.3	0.0	0.0	0.9	5.6	0.0	99.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.2	0.2	0.0	0.5	438	25	5.4	0.4	92.9	1.3	2419	
2204	2204	2139	93.17		4.3	20.6	40.0	5.0	14.2	8.7	0.0	0.0	0.0	5.7	0.0	98.3	0.0	0.2	0.5	0.0	0.0	0.0	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.7	0.0	0.0	0.0	0.7	431	3	0.7	0.7	97.5	1.2	5425	
2219&2220	2220	2155	93.59		10.0	12.0	6.2	0.0	2.9	12.9	0.0	0.0	2.9	25.4	19.1	91.4	0.0	2.9	1.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.8	1.8	0.0	3.7	217	23	9.6	3.3	87.1	0.0	115	
2237	2237	2172	94.04		2.2	12.8	42.4	7.0	18.6	10.3	0.0	0.0	0.2	3.8	0.0	97.3	0.0	1.3	0.0	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	2.7	0.0	0.2	0.0	0.0	0.0	0.2	450	28	5.9	0.2	93.3	0.6	2138	
2253	2253	2188	94.45		2.8	13.7	37.4	4.7	16.8	10.6	0.2	0.0	0.7	9.7	0.7	97.4	0.0	0.9	0.2	0.0	0.0	0.0	0.5	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	1.6	0.0	0.0	0.0	1.6	434	65	13.0	1.4	84.8	0.8	6275	VIIa
2269&2270	2270	2205	94.9		7.4	5.9	5.9	9.1	4.9	12.3	0.5	0.0	3.0	27.2	16.0	92.3	0.0	1.7	1.2	0.7	0.0	0.0	2.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.0	1.6	0.5	1.1	0.0	3.2	444	23	4.9	3.0	86.7	5.4	5838	
2288	2288	2216	95.21	SP I	1.6	11.5	30.4	5.4	14.6	25.4	0.0	0.0	0.9	7.8	0.0	97.6	0.0	0.0	0.2	0.0	0.0	0.0	0.7	1.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.2	0.0	0.0	0.0	0.2	431	35	7.5	0.2	91.2	1.1	1282	
2304	2304	2232	95.6	K-Tz	3.5	20.0	22.0	5.3	7.6	11.3	0.0	0.0	0.7	12.4	15.5	98.2	0.0	1.1	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.8	0.0	0.2	0.0	0.4	0.4	0.9	567	56	9.0	0.8	88.3	1.9	1558	
2319&2320	2320	2248	96.02		6.9	7.5	2.7	3.3	7.1	11.7	0.0	0.0	4.0	28.3	17.5	88.9	0.0	2.7	0.9	0.7	0.0	0.0	2.4	2.4	0.0	0.0	1.3	0.0	0.0	0.2	0.2	0.2	0.0	0.0	11.1	0.2	3.9	0.4	0.0	0.4	4.8	517	55	9.6	4.4	79.0	7.0	1788	
2337	2337	2265	96.47		4.2	13.6	11.7	5.6	9.8	8.2	0.2	0.0	1.3	32.6	10.7	97.9	0.0	0.6	0.0	0.0	0.0	0.0	1.1	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.2	0.2	0.0	0.0	0.0	0.4	531	40	7.0	0.4	91.4	1.2	2379	
2353	2353	2281	96.89		3.8	22.7	18.7	6.0	10.9	11.8	0.0	0.0	0.9	17.4	3.8	96.0	0.0	1.3	1.3	0.0	0.0	0.0	0.9	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	1.3	0.0	0.0	0.0	1.3	465	35	7.0	1.2	89.8	2.0	2231	
2367&2368	2368	2296	97.28		6.0	5.8	16.1	7.6	23.5	14.3	0.2	0.0	3.1	5.1	5.4	87.2	0.0	2.7	1.3	2.9	0.0	0.0	2.9	2.0	0.0	0.0	0.2	0.0	0.0	0.2	0.2	0.2	0.0	0.0	12.8	0.0	0.0	1.9	0.2	0.4	2.5	486	41	7.8	2.3	84.8	5.1	6588	
2385	2385	2307	97.56	B Ash	5.3	27.8	18.4	5.3	3.6	4.8	0.0	0.0	1.0	22.0	8.2	96.6	0.0	0.7	0.2	1.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.7	0.0	0.0	0.0	0.7	420	7	1.6	0.7	96.7	0.9	3988	
2404	2404	2324	98.01	Aso-ABC	4.7	26.1	27.0	2.8	6.8	6.6	0.0	0.0	0.8	13.1	1.3	89.1	0.0	3.4	0.8	0.4	0.0	0.0	2.8	1.7	0.0	0.0	1.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0	10.9	0.2	1.2	0.0	0.0	0.0	1.4	561	58	9.4	1.3	86.1	3.2	7738	
2419&2420	2420	2340	98.43		3.6	7.0	5.1	7.8	19.9	3.2	0.0	0.0	3.2	13.3	14.4	77.4	0.4	3.6	4.9	2.1	0.0	0.0	4.0	4.4	0.0	0.0	2.5	0.0	0.2	0.2	0.0	0.2	0.0	0.0	22.6	0.0	2.1	0.4	0.2	1.2	3.9	514	72	12.3	3.4	80.7	3.6	7325	
2437	2437	2355	98.82	Ata	5.1	26.4	32.2	4.9	6.3	1.2	0.0	0.0	2.1	9.1	0.7	88.1	0.0	1.9	1.9	0.2	0.0	0.0	5.4	1.6	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	11.9	0.0	1.6	0.0	0.0	0.0	1.6	443	78	15.0	1.3	82.1	1.5	5000	
2535	2535	2388	99.68	Tt-D	0.0	6.2	0.5	6.6	35.0	3.4	0.0	0.0	1.4	1.4	0.0	54.5	0.0	0.0	2.7	3.0	2.1	0.9	7.1	10.5	0.0	0.0	9.2	0.0	0.5	0.0	0.0	0.0	0.5	9.2	45.5	0.0	1.9	0.2	0.0	0.0	2.2	463	2	0.4	2.2	94.0	3.4	−	
2579	2579	2429	100.8		0.0	5.4	0.2	12.5	15.6	4.7	0.0	0.0	3.3	1.7	0.0	43.4	0.0	0.0	5.9	1.4	5.7	2.6	9.4	16.7	0.0	0.0	12.0	0.2	1.4	0.0	0.5	0.0	0.7	0.0	56.6	0.0	1.1	0.7	0.2	0.0	2.0	446	0	0.0	2.0	95.1	2.9	−	
2629	2629	2478	102		5.5	0.0	1.4	0.7	14.7	3.4	0.3	0.0	0.7	0.3	0.0	27.1	0.0	0.0	12.3	2.1	3.4	3.8	12.3	19.5	0.0	0.0	7.2	0.0	1.7	0.0	0.0	0.0	0.3	10.3	72.9	0.0	1.6	0.0	0.6	2.2	4.4	317	1	0.3	4.4	91.8	3.5	−	
2680	2680	2529	103.4	SK	0.0	6.8	1.4	14.0	20.0	9.4	0.0	0.0	1.9	0.0	0.0	53.6	0.0	0.0	5.3	4.8	1.2	2.7	3.6	16.4	0.0	0.0	8.0	0.0	1.0	1.0	0.0	0.0	2.2	0.2	46.4	0.2	0.7	0.4	0.0	0.0	1.3	455	8	1.7	1.3	89.4	7.6	−	VI
2728	2728	2577	104.6		0.0	5.8	1.3	3.3	13.1	2.9	0.2	0.0	1.8	0.2	0.0	28.7	0.0	0.0	10.0	8.0	10.0	3.8	4.0	20.7	0.0	0.0	5.3	0.0	0.9	0.0	0.2	0.0	4.0	4.2	71.3	0.0	1.7	1.5	1.3	0.6	5.1	525	4	0.8	5.1	84.9	9.3	−	
2786	2786	2629	106		0.0	2.0	1.1	8.1	11.0	2.2	0.0	0.0	1.1	0.4	0.0	25.9	0.0	0.0	24.4	7.3	6.8	5.1	5.7	11.6	0.0	0.0	9.5	0.0	1.1	0.0	0.4	0.0	2.2	0.0	74.1	0.0	0.4	0.0	0.4	0.0	0.8	475	2	0.4	0.8	95.4	3.4	−	
2830	2830	2671	107.1		0.0	9.3	3.1	3.1	17.2	8.1	0.0	0.0	1.0	1.4	0.0	43.3	0.0	0.0	15.3	4.3	11.5	0.5	4.5	10.3	0.0	0.0	5.3	0.0	1.2	0.0	0.0	0.2	3.1	0.5	56.7	0.0	0.2	0.4	1.3	0.0	2.0	461	2	0.4	1.9	90.3	7.3	−	
2880	2880	2721	108.4		0.0	5.2	9.6	15.3	30.8	28.8	0.0	0.0	0.2	0.2	0.0	90.1	0.0	0.0	1.2	5.9	0.0	0.5	0.5	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	9.9	0.0	0.0	0.0	0.2	0.0	0.2	430	16	3.6	0.2	91.0	5.2	−	
2930	2930	2771	109.7		0.5	8.3	6.3	12.1	33.0	30.3	0.0	0.0	0.5	2.7	0.0	93.7	0.0	0.0	0.7	2.7	0.0	0.7	0.2	0.2	0.0	0.0	0.5	0.0	0.2	0.0	0.0	0.5	0.5	0.0	6.3	0.0	0.7	0.0	0.4	2.0	3.1	459	21	4.4	2.9	85.8	6.9	−	Vb
2980	2980	2819	110.9		0.0	12.0	3.6	22.5	27.5	22.2	0.0	0.0	2.2	6.7	0.0	96.7	0.0	0.0	1.4	0.7	0.0	0.5	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.2	0.0	0.0	0.2	441	2	0.5	0.2	94.4	5.0	−	
3032	3032	2870	112.3		0.2	1.5	3.2	7.4	41.3	32.9	0.0	0.0	0.2	8.1	0.0	94.8	0.5	0.0	1.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.5	0.0	5.2	0.0	0.4	0.6	0.0	1.3	2.3	475	16	3.3	2.2	82.9	11.6	−	
3080	3080	2918	113.5		0.0	1.2	0.2	4.3	33.6	9.2	0.0	0.0	1.4	44.2	0.0	94.2	0.0	0.0	1.2	1.4	0.5	0.0	0.7	0.0	0.0	0.0	1.4	0.0	0.2	0.0	0.0	0.0	0.0	0.2	5.8	0.0	0.4	0.0	0.0	0.0	0.4	512	2	0.4	0.4	80.5	18.7	−	
3128	3128	2965	114.8		0.6	1.9	0.0	12.5	19.7	13.4	0.0	0.0	0.6	28.9	0.0	77.7	0.0	0.0	3.2	4.5	0.4	0.6	3.2	4.5	0.0	0.0	3.8	0.0	0.2	0.0	0.0	0.0	1.1	0.8	22.3	0.0	0.0	0.3	0.2	4.2	4.7	601	2	0.3	4.6	78.1	16.9	−	Va
3180	3180	3017	116.1		0.0	5.6	3.4	16.1	35.0	6.1	0.0	0.0	6.1	3.6	0.0	75.9	0.0	0.0	2.2	0.7	0.7	0.7	10.9	3.6	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.1	0.0	0.0	0.0	0.2	0.0	0.2	419	2	0.5	0.2	97.6	1.7	−	
3230	3230	3067	117.4		0.5	1.1	1.1	6.8	22.4	7.0	0.0	0.0	0.9	8.2	0.0	48.1	0.0	0.0	4.5	1.8	4.1	0.0	28.6	5.4	0.0	0.0	5.4	0.2	0.9	0.0	0.0	0.0	0.2	0.7	51.9	0.0	0.2	0.4	0.0	2.4	3.0	496	2	0.4	3.0	88.6	8.0	−	
3282	3282	3115	118.7	Nanko-III	0.0	2.6	0.5	7.3	12.5	6.6	0.2	0.0	4.0	1.2	0.0	35.0	0.0	0.0	2.4	0.9	1.9	0.9	48.2	2.6	0.0	0.0	6.6	0.2	0.9	0.0	0.2	0.0	0.0	0.0	65.0	0.0	0.0	0.0	0.2	0.0	0.2	451	3	0.7	0.2	93.2	5.9	−	
3330	3330	3160	119.9	Nanko-II	0.0	0.2	0.0	10.8	6.1	4.2	0.0	0.0	2.0	0.5	0.0	23.8	0.0	0.0	5.9	1.0	4.4	0.0	51.7	4.7	0.0	0.0	3.7	0.2	0.5	0.0	0.2	0.2	0.0	3.7	76.2	0.0	0.5	0.2	0.0	2.7	3.4	438	4	0.9	3.4	92.3	3.4	−	
3380	3380	3209	121.1		0.0	2.7	0.2	8.1	11.5	7.8	0.0	0.0	2.0	0.2	0.0	32.5	0.0	0.0	2.4	1.0	1.2	0.0	48.7	6.4	0.0	0.0	7.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	67.5	0.0	0.0	0.0	0.2	0.0	0.2	433	0	0.0	0.2	94.5	5.3	−	
3430	3430	3258	122.4		0.9	0.0	0.3	1.2	4.2	2.1	0.0	0.0	0.9	0.0	0.0	9.6	0.0	0.0	4.8	1.2	4.5	0.9	56.0	12.3	0.0	0.0	3.0	0.3	0.9	0.3	0.0	0.0	0.3	5.7	90.4	0.0	0.3	0.8	0.5	3.4	5.0	383	0	0.0	5.0	86.7	8.4	−	IVb

3480	3480	3308	123.7	0.0	2.2	0.0	9.8	15.5	10.3	0.0	0.0	0.2	0.0	0.0	38.1	0.0	0.0	4.2	0.0	1.7	0.0	47.4	5.2	0.0	0.0	3.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	61.9	0.0	0.0	0.0	0.0	0.2	0.2	430	1	0.2	0.2	94.4	5.1	–	
3530	3530	3357	125	1.2	0.0	0.2	1.5	1.5	1.2	0.0	0.0	0.5	0.2	0.0	6.3	0.0	0.0	8.3	0.7	10.2	0.2	55.6	11.5	0.0	0.0	3.4	0.0	0.5	0.2	0.2	0.0	0.5	2.2	93.7	0.0	0.0	0.2	0.2	0.0	0.4	469	1	0.2	0.4	87.2	12.1	–	
3580	3580	3406	126.3	0.0	4.2	0.7	15.2	7.4	7.6	0.0	0.0	0.2	0.0	0.0	35.4	0.0	0.0	8.6	0.7	9.8	0.5	30.7	3.9	0.0	0.0	5.7	0.2	1.5	1.7	0.0	0.0	1.2	0.0	64.6	0.0	0.2	0.2	0.2	0.0	0.6	469	2	0.4	0.6	86.4	12.5	–	IVa
3630	3630	3456	127.6	0.2	1.2	0.0	1.4	1.6	2.8	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0	15.3	1.4	4.9	1.2	35.0	14.8	0.0	0.0	3.0	0.0	2.1	2.1	0.7	0.2	1.9	10.4	92.8	0.0	0.0	0.4	0.2	0.0	0.6	487	1	0.2	0.6	88.5	10.7	–	
3680	3680	3506	128.9	0.0	0.7	0.7	1.0	0.5	5.8	0.0	0.0	0.0	0.0	0.0	8.7	0.0	0.0	16.1	3.9	4.1	0.5	21.7	25.8	0.0	0.0	6.3	0.0	1.4	5.1	0.0	0.0	6.5	0.0	91.3	0.0	0.7	0.7	0.0	0.0	1.3	450	3	0.7	1.3	91.6	6.4	–	
3730	3730	3553	130.2	0.0	11.4	1.0	2.9	11.2	9.0	0.2	0.0	0.0	0.0	0.0	35.7	0.0	0.0	5.7	10.6	6.9	2.9	8.6	14.1	0.0	0.0	6.1	0.0	0.4	1.2	0.0	0.0	7.4	0.4	64.3	0.2	0.6	0.0	1.5	0.2	2.4	542	3	0.6	2.4	89.9	7.2	–	
3780	3780	3604	131.4	0.0	9.7	13.8	14.7	12.0	30.6	1.2	0.0	0.0	0.0	0.0	82.0	0.0	0.0	1.6	8.1	0.0	0.7	2.3	0.7	0.0	0.0	3.9	0.0	0.2	0.0	0.0	0.0	0.5	0.0	18.0	0.0	0.4	0.0	0.2	0.0	0.7	454	5	1.1	0.7	94.6	3.7	–	IIIb
3830	3830	3653	132.7	0.2	16.3	9.1	7.4	19.9	28.8	1.0	0.0	0.0	0.0	0.0	82.7	0.0	0.0	0.5	12.2	0.5	0.2	0.7	1.0	0.0	0.0	1.7	0.0	0.2	0.0	0.0	0.2	0.0	0.0	17.3	0.9	0.0	0.4	0.2	0.9	2.5	445	24	5.1	2.3	88.9	3.6	–	
3880	3880	3703	133.8 Aso-3	0.2	8.0	13.8	7.8	26.2	36.8	1.2	0.0	0.0	0.0	0.0	93.9	0.0	0.5	0.0	4.6	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.5	0.0	0.0	6.1	0.2	0.7	0.7	0.2	0.2	2.1	436	12	2.7	2.0	92.2	3.1	–	
3930	3930	3748	134.7	0.0	13.1	6.2	15.0	37.1	17.8	1.2	0.0	0.0	0.0	0.0	90.3	0.0	0.2	0.0	7.1	0.2	0.0	0.0	0.2	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.5	0.0	0.0	9.7	0.2	2.8	0.4	1.3	0.6	5.4	467	56	10.7	4.8	80.5	4.0	–	
3984	3984	3802	135.7	0.0	6.7	8.9	19.2	13.2	47.6	0.2	0.0	0.0	0.0	0.0	95.9	0.0	0.0	0.2	2.4	0.0	0.2	0.0	0.2	0.0	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	0.0	4.1	0.2	0.2	0.0	0.0	0.5	0.9	431	24	5.3	0.9	91.4	2.4	–	IIIa
4030	4030	3848	136.6	0.0	6.8	2.7	15.0	43.0	27.8	1.2	0.0	0.0	0.0	0.0	96.4	0.0	0.0	0.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.2	0.0	0.0	3.6	1.1	1.1	0.7	1.3	0.4	4.7	451	43	8.7	4.3	83.8	3.2	–	
4132	4132	3949	138.6	0.0	0.0	0.0	13.5	44.2	39.6	0.0	0.0	0.0	0.0	0.0	97.3	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.7	1.2	1.7	2.2	1.4	1.4	8.0	415	37	8.2	7.3	80.5	4.0	–	
4180	4180	3996	139.5	0.5	7.5	5.3	9.5	45.9	30.1	0.5	0.0	0.0	0.0	0.0	99.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.7	0.7	1.6	0.2	0.7	0.2	3.5	433	39	8.3	3.2	87.3	1.3	–	
4230	4230	4045	140.5	0.0	4.3	14.8	10.3	39.6	24.8	0.9	0.0	0.0	0.0	0.0	94.8	0.0	0.0	0.0	3.2	0.2	0.2	0.7	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	5.2	0.6	1.0	0.6	2.3	0.6	5.2	483	56	10.4	5.2	81.5	3.0	–	
4280	4280	4095	141.4	0.7	11.2	5.5	6.2	32.5	43.2	0.0	0.0	0.0	0.0	0.0	99.3	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.7	0.2	0.2	0.5	2.1	436	16	3.5	2.2	92.7	1.6	–	
4330	4330	4143	142.4	0.0	8.7	14.7	24.8	25.1	21.0	1.0	0.0	0.0	0.0	0.0	95.2	0.0	0.0	0.0	4.6	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	4.8	0.7	0.7	0.2	0.9	0.2	2.7	439	44	9.1	2.5	85.9	2.5	–	IIb
4390	4390	4202	143.5	1.0	18.7	15.2	2.0	34.4	20.7	0.0	0.0	0.0	0.0	0.0	92.0	0.0	0.0	0.0	6.0	0.5	0.5	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.9	1.1	0.2	1.4	0.5	4.1	435	76	14.9	3.5	78.5	3.1	–	
4430	4430	4242	144.3	0.2	7.3	25.8	10.7	31.6	17.5	0.2	0.0	0.0	0.0	0.0	93.4	0.0	0.0	0.0	5.1	0.0	0.2	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	6.6	0.7	0.7	0.7	1.6	0.0	3.6	444	45	9.2	3.3	84.0	3.5	–	
4480	4480	4291	145.3	3.5	21.3	18.7	3.0	19.2	22.0	0.2	0.0	0.0	0.0	0.0	88.1	0.0	0.0	0.0	9.6	0.0	0.9	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	11.9	0.7	0.7	0.0	0.2	0.7	2.2	454	37	7.5	2.0	87.0	3.5	–	
4530	4530	4339	146.2 Aso-2	0.5	25.1	12.7	4.4	34.1	16.8	0.5	0.0	0.0	0.0	0.0	93.9	0.0	0.5	0.2	3.2	0.0	1.7	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	1.4	0.5	0.5	0.0	0.2	2.5	440	82	15.7	2.5	78.7	3.1	–	
4584	4584	4386	147.1	0.0	7.4	33.6	9.8	29.7	14.4	0.2	0.0	0.0	0.0	0.0	95.2	0.0	0.5	0.2	3.4	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	4.8	0.9	0.2	0.5	0.2	0.5	2.3	429	35	7.5	2.2	89.9	0.4	–	
4630	4630	4429	148	3.1	22.0	15.1	20.1	31.4	5.9	0.7	0.0	0.0	0.0	0.0	98.3	0.0	0.0	0.0	0.9	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7	0.0	0.2	0.0	0.0	0.2	0.5	426	30	6.6	0.4	92.8	0.2	–	IIa
4678	4678	4477	148.9	0.0	18.7	25.9	13.9	33.8	4.8	0.7	0.0	0.0	0.0	0.0	97.8	0.0	0.0	0.0	1.7	0.2	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	2.2	0.7	0.5	0.5	0.9	0.5	3.0	434	83	16.1	2.5	80.7	0.8	–	
4706	4706	4500	149.3	1.2	10.7	35.5	20.4	21.3	9.0	0.7	0.0	0.0	0.0	0.0	98.8	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	1.3	0.4	1.1	1.6	1.6	6.0	450	44	8.9	5.5	85.4	0.2	–	
4940	4940	4590	151.1	2.9	4.3	20.2	24.0	36.7	5.7	1.7	0.0	0.0	0.0	0.0	95.5	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	1.6	0.2	0.9	1.1	0.9	4.8	443	86	16.3	4.2	79.4	0.2	–	I
4990	4990	4640	152.1	0.0	8.4	4.3	31.3	41.3	10.1	1.9	0.0	0.0	0.0	0.0	97.4	0.0	0.2	0.0	1.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	2.6	1.1	0.5	1.1	1.6	0.7	5.0	440	167	27.5	3.6	68.5	0.3	–	
5040	5040	4690	153.1	0.0	21.6	0.0	21.8	42.9	6.7	1.5	0.0	0.0	0.0	0.0	94.5	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.2	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	5.5	0.2	0.7	0.5	0.5	0.2	2.2	414	77	15.7	1.8	82.1	0.4	–	
5164	5164	4789	155	0.0	10.3	7.1	19.3	51.3	9.0	0.5	0.0	0.0	0.0	0.0	97.6	0.0	0.0	0.0	2.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.6	1.1	0.0	3.6	0.9	7.3	441	109	19.8	5.8	74.4	0.0	–	
5214	5214	4827	155.7	0.0	13.1	3.2	31.8	33.0	16.3	0.7	0.0	0.0	0.0	0.0	98.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.0	1.4	0.0	1.6	2.3	0.2	5.5	435	219	33.5	3.8	62.1	0.6	–	
5264	5264	4872	156.8	0.0	10.0	2.9	25.2	40.4	18.6	1.5	0.0	0.0	0.0	0.0	98.8	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.6	0.0	0.7	0.5	0.5	3.3	428	229	34.9	2.1	62.1	0.9	–	
5312	5312	4917	157.5	0.0	12.0	6.0	19.3	51.1	7.7	0.7	0.0	0.2	0.0	0.0	97.1	0.0	0.0	0.0	2.7	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	2.9	1.2	0.0	0.0	0.7	0.5	2.3	428	111	20.6	2.2	77.0	0.2	–	
5354	5354	4944	158 SyPm	0.0	11.1	9.2	7.5	34.6	33.2	0.7	0.0	0.0	0.0	0.0	96.4	0.0	0.0	0.0	2.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	3.6	0.5	1.8	0.7	1.1	0.2	4.3	437	82	15.8	3.7	79.6	1.0	–	

Tephra horizon is just above the sample on the same line.