

Kinematics of the Kahramanmaraş triple junction and of Cyprus: evidence of shear partitioning: supplemental document

INTRODUCTION

This document includes supplemental material to accompany the article "Kinematics of the Kahramanmaraş triple junction and of Cyprus: evidence of shear partitioning" in the Earth Sciences Bulletin journal. This document contains figures, and tables to guide the readers to visualize some additional modeling results, and supply input data leveraging in the analyses. We decided to put all content, which is explained below, in an order consistent with the main text.

Supplementary Document Content

- **Table S1.** GNSS velocities (horizontal components) of newly derived rates with respect to both the Arabian and ITRF14 fixed reference frame
- **Table S2.** Continuous sites Up velocities
- **Table S3.** Life span of survey mode GNSS sites
- **Table S4.** Helmert Transformation Parameters of each rotation
- **Table S5.** Unified GNSS velocities (horizontal components) coming from previously published rates with respect to both the Arabian and ITRF14 fixed reference frame
- **Fig. S1.** Checkerboard Test Solution
- **Fig. S2.** Block Model Comparison - 1st Model outcomes
- **Fig. S3.** Block Model Comparison - 2nd Model outcomes

TABLE S1. GNSS VELOCITIES (HORIZONTAL COMPONENTS) OF NEWLY DERIVED RATES WITH RESPECT TO BOTH THE ARABIAN AND ITRF14 FIXED REFERENCE FRAME

Table S1. Site velocities processed in this study and their standard errors

Lon (°)	Lat (°)	V_E	V_N	V_E	V_N	σ_E (mm/yr)	σ_N (mm/yr)	Rho	Site ID
		wrt Arabia (mm/yr)	wrt Arabia (mm/yr)	wrt ITRF14 (mm/yr)	wrt ITRF14 (mm/yr)				
34.19466	35.53690	-3.03	-7.18	17.66	16.33	0.20	0.17	0.014	DIPK
34.36891	40.15398	-11.85	-8.73	4.96	14.85	0.22	0.26	0.005	SUNL
34.25585	36.56639	-5.22	-7.76	14.62	15.77	0.20	0.21	0.010	MERS
35.68522	37.37615	-7.36	-5.45	12.15	18.75	0.27	0.27	-0.007	KOZA
34.25533	35.52984	-2.92	-7.22	17.79	16.31	0.27	0.28	0.015	BUYU
34.03096	35.42148	-2.49	-6.39	18.25	17.04	0.31	0.27	0.012	SAYO
33.74673	35.34960	-2.69	-7.09	18.05	16.20	0.26	0.27	0.021	ZIYA
31.10426	36.90380	-6.28	-14.21	12.52	7.80	0.33	0.37	-0.005	SERK
31.39024	36.76774	-6.18	-13.09	12.81	9.06	0.40	0.38	0.002	SELM
31.98355	36.79235	-6.61	-12.33	12.49	10.11	0.41	0.64	0.017	GUND
33.20322	37.72917	-9.81	-8.54	8.78	14.49	0.33	0.35	-0.011	MRDV
32.95808	35.37535	-1.68	-8.49	18.85	14.42	0.26	0.27	0.010	SADR
33.87947	35.38205	-1.26	-8.31	19.48	15.05	1.98	2.16	0.023	SINA
33.90739	35.14582	-1.48	-6.28	19.46	17.09	0.18	0.18	0.015	MGOS
33.98229	35.03449	-1.81	-6.21	19.24	17.20	0.19	0.19	0.015	PRLM
33.63197	34.93072	-0.67	-7.52	20.39	15.72	0.23	0.23	0.010	LARN
33.39645	35.14099	-1.29	-7.63	19.54	15.50	0.17	0.17	0.011	NICO
33.36286	35.16107	-1.77	-7.37	19.03	15.74	0.32	0.32	0.005	LEFG
33.35290	35.19505	-1.53	-7.30	19.24	15.80	0.18	0.15	0.017	LEFK
33.02510	34.66758	-0.60	-7.73	20.54	15.22	0.21	0.22	0.011	LSOS
32.98947	35.20125	-1.30	-8.33	19.38	14.60	0.38	0.33	0.004	GYUR
32.42785	34.77388	-0.92	-7.29	20.00	15.37	0.49	0.50	0.002	PAFO
32.42748	35.03302	-1.40	-8.70	19.30	13.96	0.50	0.36	0.003	POLI
32.89991	35.03854	-1.02	-8.21	19.78	14.68	0.23	0.26	0.008	EVRY
34.00084	35.35015	-1.30	-6.41	19.50	17.00	0.41	0.41	0.012	KALE
33.89771	35.30349	-1.03	-6.79	19.78	16.57	0.43	0.45	0.004	IKLE
33.79924	35.16439	-0.94	-7.08	19.96	16.24	0.41	0.42	0.024	KKTE
33.75578	35.10851	-1.56	-6.61	19.38	16.69	0.41	0.42	0.010	KOPL
33.67998	35.17247	-2.29	-7.38	18.58	15.88	0.39	0.41	0.024	DIRE
33.54418	35.29153	-2.41	-6.64	18.33	16.56	0.51	0.52	0.021	YAYL
33.43533	35.14556	-1.37	-7.00	19.46	16.14	0.39	0.39	0.021	GOZC

Table S1. (continued)

Lon (°)	Lat (°)	V_E wrt Arabia (mm/yr)	V_N wrt Arabia (mm/yr)	V_E wrt ITRF14 (mm/yr)	V_N wrt ITRF14 (mm/yr)	σ_E (mm/yr)	σ_N (mm/yr)	Rho	Site ID
33.31272	35.31235	-0.73	-8.16	19.94	14.93	1.30	1.42	-0.057	SP02
33.12568	35.22136	-1.19	-8.04	19.51	14.96	0.39	0.41	0.002	KCAT
32.89015	35.12085	-1.07	-8.81	19.66	14.07	0.39	0.39	0.013	KLSE
35.39207	31.59320	-1.06	-3.76	23.13	20.31	0.24	0.18	0.017	DRAG
35.36882	31.03691	-0.51	-2.21	24.12	21.85	0.20	0.19	0.020	DSEA
35.33145	32.78250	-0.75	-3.62	22.47	20.42	0.22	0.25	0.009	NZRT
35.20967	32.10383	-0.85	-3.66	22.89	20.33	0.19	0.17	0.017	YOSH
35.20928	32.10236	-0.85	-3.66	22.89	20.33	0.19	0.17	0.017	AREL
35.20245	31.77115	-0.77	-3.95	23.23	20.03	0.18	0.17	0.023	JSLM
35.14506	33.02282	-0.81	-3.78	22.17	20.17	0.20	0.16	0.020	KABR
35.03604	30.03842	-0.83	-3.15	24.52	20.76	0.19	0.18	0.019	NRIF
35.02298	32.77899	-0.76	-4.02	22.39	19.88	0.17	0.17	0.020	BSHM
34.92060	29.50928	-0.37	-3.33	25.37	20.52	0.47	0.56	0.002	ELAT
34.86631	31.37782	-1.29	-4.79	22.96	19.04	0.57	0.56	-0.002	LHAV
34.78090	32.06800	-1.02	-3.92	22.65	19.87	0.23	0.18	0.008	TELA
34.76314	30.59761	-1.25	-4.31	23.60	19.47	0.13	0.14	-0.040	RAMO
34.28382	31.22818	-0.93	-5.02	23.31	18.53	0.62	0.57	0.002	SLOM
37.30934	37.04126	-1.22	-0.31	18.99	24.63	0.52	0.48	0.005	GAZT
37.10605	36.68511	0.38	-0.95	20.83	23.90	0.68	0.76	-0.061	KILS
41.15448	37.86360	-0.91	-1.05	19.68	25.56	0.32	0.32	-0.003	BTMN
40.27582	37.91529	-1.09	-0.73	19.21	25.51	0.34	0.38	0.034	DYR2
40.87802	37.55039	-0.62	-0.45	20.14	26.05	0.38	0.42	-0.024	SAVR
40.72829	37.31050	-0.68	-1.13	20.23	25.31	0.32	0.32	-0.001	MARD
38.81802	37.19185	-2.36	-0.67	18.13	24.94	0.22	0.22	-0.001	SURF
38.22968	37.74586	-1.86	-1.04	18.01	24.31	0.32	0.32	-0.009	ADIY
37.37361	37.06496	-1.63	-0.86	18.58	24.11	0.32	0.32	-0.009	ANTE
36.93113	37.58076	-4.68	-4.00	14.98	20.77	0.36	0.36	-0.008	MARA
36.64326	37.08757	-2.29	-2.91	17.71	21.73	0.68	0.78	0.035	FEVZ
36.59880	36.73683	-1.51	-2.42	18.77	22.20	0.74	0.84	0.063	AKAB
36.52351	36.78796	-2.44	-2.91	17.78	21.68	0.40	0.42	-0.003	HASA
36.46507	36.53105	-1.75	-2.24	18.67	22.32	0.56	0.66	0.013	ABAK
36.46013	36.84267	-2.25	-2.75	17.91	21.81	0.42	0.50	-0.065	CRAK
36.40229	37.21930	-5.35	-6.03	14.48	18.50	0.44	0.48	-0.134	ELLK
36.32984	37.57249	-5.48	-6.49	14.03	18.01	0.56	0.56	-0.094	ANDR
36.25386	37.10219	-6.04	-4.98	13.85	19.48	0.22	0.22	-0.013	ONIY

Table S1. (continued)

Lon (°)	Lat (°)	V_E wrt Arabia (mm/yr)	V_N wrt Arabia (mm/yr)	V_E wrt ITRF14 (mm/yr)	V_N wrt ITRF14 (mm/yr)	σ_E (mm/yr)	σ_N (mm/yr)	Rho	Site ID
36.21633	36.37856	-1.53	-2.58	18.95	21.87	0.46	0.50	-0.012	SERI
36.18007	36.53991	-3.18	-3.00	17.16	21.43	0.60	0.68	0.028	ISKE
36.15275	36.20828	-1.70	-2.23	18.90	22.19	0.24	0.26	-0.030	HATA
36.14608	36.53803	-2.52	-1.89	17.81	22.52	0.24	0.24	-0.001	ISKN
36.13742	36.89942	-5.75	-3.48	14.28	20.93	0.24	0.26	0.038	DORT
35.91233	37.81512	-7.29	-5.54	11.91	18.76	0.22	0.22	0.004	FEEK
35.34374	37.00418	-7.06	-5.94	12.68	18.10	0.42	0.44	0.001	ADN1
35.34016	36.54270	-6.61	-4.75	13.51	19.29	0.36	0.38	-0.072	KRTA
34.87166	37.42211	-7.33	-6.80	11.94	17.02	0.02	0.02	-0.050	POZA
34.81055	37.20670	-8.02	-6.43	11.41	17.36	0.42	0.46	-0.055	CAMA
34.67944	37.95877	-8.46	-6.91	10.31	16.82	0.22	0.22	-0.010	NIGD
34.60259	36.78100	-6.40	-7.46	13.34	16.24	0.02	0.02	-0.022	MRSI
34.29382	37.03177	-7.01	-7.17	12.44	16.38	0.60	0.70	0.015	ARS1
34.25585	36.56639	-5.76	-7.12	14.08	16.41	0.34	0.34	-0.015	MERS
34.22217	36.52944	-5.77	-7.35	14.09	16.17	0.50	0.54	-0.041	TRTR
34.18337	37.44508	-7.50	-7.03	11.58	16.47	0.02	0.02	0.016	HALP
34.15478	36.71803	-5.83	-7.14	13.85	16.34	0.42	0.48	-0.019	EREN
33.9364	36.38189	-5.07	-8.26	14.84	15.12	0.22	0.22	-0.014	SILF
33.84056	36.83808	-6.38	-6.58	13.13	16.76	0.72	0.80	-0.124	KIRO
33.69401	37.10246	-7.36	-7.55	11.89	15.72	0.34	0.38	0.014	PNKY
33.62978	36.18831	-5.48	-8.34	14.52	14.90	0.46	0.52	0.003	OVAC
33.31188	36.80953	-6.37	-8.67	13.03	14.41	0.38	0.42	0.027	AKGE
33.22027	37.19323	-6.99	-8.02	12.06	15.02	0.22	0.22	-0.010	KAMN
32.91015	36.32113	-5.04	-9.19	14.68	13.70	0.42	0.48	-0.079	ABAN
32.86511	36.06902	-4.20	-9.24	15.72	13.63	0.22	0.22	-0.007	ANMU
32.67583	37.03157	-6.74	-9.63	12.32	13.15	0.46	0.54	0.037	BDML
32.61725	36.69665	-6.97	-8.82	12.36	13.93	0.34	0.34	-0.016	SARV
32.2826	36.28255	-5.00	-10.65	14.61	11.94	0.52	0.58	-0.021	GAZI
39.25646	38.64467	-8.59	-4.31	10.82	21.49	0.31	0.31	-0.002	ELAZ
38.42525	38.32833	-7.36	-3.01	12.08	22.43	0.32	0.33	-0.018	MLTY
41.3574	37.4174	-0.93	-1.14	20.07	25.56	0.36	0.36	0.017	MIDY
41.15449	37.8636	-1.11	-1.34	19.48	25.27	0.35	0.36	0.016	BTMN

TABLE S2. CONTINUOUS SITES UP VELOCITIES

Table S2. Up velocities and their standard errors. n_{years} is the number of years between first and the last epoch. n_{obs} is the number of observations.

Lon (°)	Lat (°)	n_{years} (yr)	n_{obs}	V_U (mm/yr)	σ_U (mm/yr)	Site ID
35.34374	37.00418	2.51	166	1.0	4.2	ADN1
35.32327	36.98345	0.11	8	NaN	NaN	ADN2
31.42974	38.36927	10.49	744	5.2	0.3	AKHR
31.78750	37.04772	7.32	485	2.1	0.8	AKSI
32.75847	39.88737	11.03	740	3.8	1.5	ANKR
32.86511	36.06902	12.23	763	0.1	0.3	ANMU
30.66643	36.88845	10.49	750	0.3	0.2	ANTL
31.74655	37.67730	10.49	743	0.5	0.3	BEYS
35.02299	32.77899	12.15	743	-0.3	0.2	BSHM
34.19467	35.53690	9.03	567	0.2	0.4	DIPK
35.39207	31.59320	12.23	716	-3.0	0.2	DRAG
35.36883	31.03692	9.78	670	0.4	0.3	DSEA
32.89992	35.03854	7.75	525	-0.1	0.4	EVRY
35.91233	37.81512	12.23	758	0.5	0.3	FEEK
30.14641	36.30222	10.49	747	0.3	0.3	FINI
36.08085	39.18513	12.23	743	-0.1	0.2	GEME
32.98947	35.20125	12.23	680	2.2	0.6	GYUR
34.18338	37.44508	10.49	747	-0.1	0.3	HALP
36.15582	36.20002	5.05	366	0.2	1.1	HAT1
44.43840	33.34142	12.23	614	-0.2	0.3	ISBA
44.01094	36.15985	10.47	710	7.3	0.5	ISER
45.80838	32.50189	10.03	607	3.0	0.3	ISKU

Table S2. (continued)

Lon (°)	Lat (°)	n_{years} (yr)	n_{obs}	V_U (mm/yr)	σ_U (mm/yr)	Site ID
44.35328	32.01254	10.48	602	1.3	0.3	ISNA
35.14506	33.02282	12.23	736	-0.6	0.3	KABR
33.22027	37.19323	12.23	758	9.1	1.3	KAMN
27.78078	35.95148	10.45	558	1.7	0.9	KATC
66.88674	39.13339	4.72	215	0.6	2.3	KITG
33.63197	34.93072	7.75	537	4.9	0.3	LARN
33.36287	35.16107	6.40	411	-0.2	0.4	LEFG
33.35291	35.19505	12.07	726	0.4	0.3	LEFK
33.02510	34.66758	7.75	534	0.5	0.3	LSOS
34.25585	36.56639	12.23	279	1.1	0.3	MERS
33.90739	35.14582	11.86	699	0.5	0.3	MGOS
34.60259	36.78100	12.23	748	0.4	0.3	MRSI
33.39645	35.14099	12.23	739	0.4	0.2	NICO
34.67944	37.95877	12.23	753	0.0	0.2	NIGD
36.25386	37.10219	12.23	759	0.8	0.3	ONIY
32.42785	34.77388	8.08	560	0.1	0.5	PAFO
32.42748	35.03302	8.08	545	0.6	1.2	POLI
33.98348	35.02558	1.30	96	NaN	NaN	PRL1
33.98229	35.03449	6.74	465	-0.4	0.5	PRLM
34.76314	30.59761	12.23	723	-0.4	0.2	RAMO
32.61726	36.69665	9.30	546	2.1	0.7	SARV
47.17515	41.22018	12.23	701	2.0	0.6	SEKC
33.93640	36.38189	12.23	761	1.2	0.3	SILF
37.00250	39.74370	10.49	748	-0.6	0.3	SIVS
31.86630	49.20164	10.30	709	-0.6	0.3	SMLA
34.36891	40.15398	10.49	745	0.0	0.5	SUNL
34.78090	32.06800	12.23	734	-1.5	0.2	TELA
35.20967	32.10384	12.23	733	-0.7	0.2	YOSH

TABLE S3. LIFE SPAN OF SURVEY MODE GNSS SITES**Table S3.** Survey Mode sites data history

Site ID	First Epoch (yr)	Last Epoch (yr)	n_{obs}	Site ID	First Epoch (yr)	Last Epoch (yr)	n_{obs}
AKGE	1998	2021	7	KOZA	1998	2021	9
ANDR	1998	2021	8	KRTA	1998	2021	10
ARS1	2004	2021	8	MRDV	1998	2021	7
BDML	1998	2021	4	OVAC	1998	2021	7
BUYU	1998	2021	4	PNKY	1998	2021	8
CAMA	1998	2021	9	SADR	1998	2021	4
DIRE	1998	2021	13	SAYO	1998	2021	4
DORT	1998	2021	14	SELM	1998	2021	11
EREN	1998	2021	7	SERK	1998	2021	8
GAZI	1998	2021	8	TRTR	1998	2021	7
GOZC	1998	2021	5	YAYL	1998	2021	6
ABAN	1998	2021	7	ZIYA	1998	2021	5
GRNL	2009	2021	7	SIN1	2019	2021	3
GUND	1998	2021	10	AKI1	2019	2021	3
IKLE	1998	2021	4	KIV1	2019	2021	3
KALE	1998	2021	6	SAH1	2019	2021	3
KCAT	1998	2021	6	SP01	2011	2021	4
KIRO	1998	2021	6	SP02	2011	2021	4
KKTE	1998	2021	5	ELLK	1998	2021	7
KLSE	1998	2021	5	FEVZ	1998	2021	8
KOPL	1998	2021	4	CRAK	1998	2021	9

TABLE S4. HELMERT TRANSFORMATION PARAMETERS OF EACH ROTATION

Table S4. 6 parameters of Helmert Transformation in cartesian coordinate system

X-offset (mm/yr)		Y-offset (mm/yr)		Z-offset (mm/yr)		X-rot (mas/yr)		Y-rot (mas/yr)		Z-rot (mas/yr)		Study
-0.92	0.65	0.95	0.69	0.16	0.51	-0.11	0.96	0.47	0.53	-0.55	0.15	Gomez et al. [1]
-0.61	0.57	0.37	0.09	-0.21	0.49	0.97	0.38	0.43	0.42	-0.18	0.41	Hamiel and Piatibratova [2]
-0.66	0.65	0.43	0.83	-0.14	0.25	0.86	1.13	-0.04	0.26	-0.45	0.23	Viltres et al. [4]
0.85	1.14	-0.61	0.25	-0.11	0.89	0.00	0.08	-0.02	0.12	0.03	0.09	Kurt et al. [3]

TABLE S5. UNIFIED GNSS VELOCITIES (HORIZONTAL COMPONENTS) COMING FROM PREVIOUSLY PUBLISHED RATES WITH RESPECT TO BOTH THE ARABIAN AND ITRF14 FIXED REFERENCE FRAME

Table S5. Combined velocities from previous studies

Lon (°)	Lat (°)	V_E	V_N	V_E	V_N	σ_E	σ_N	Site ID	Study
		wrt Arabia (mm/yr)	wrt Arabia (mm/yr)	wrt ITRF14 (mm/yr)	wrt ITRF14 (mm/yr)				
41.8429	37.3497	-0.69	-2.28	20.51	24.62	1.08	1.20	IDIL	Kurt et al. (2022)
41.1992	37.1455	-0.88	-0.88	20.30	25.75	0.93	0.93	KELI	Kurt et al. (2022)
40.9121	38.1397	-1.35	-0.96	18.94	25.55	0.75	0.90	ORCL	Kurt et al. (2022)
40.6505	37.2461	-0.83	-0.85	20.11	25.55	0.57	0.63	KIZZ	Kurt et al. (2022)
40.269	37.3431	-1.69	-2.16	19.07	24.08	0.48	0.48	TPBG	Kurt et al. (2022)
40.1875	37.9544	-1.40	-1.03	18.84	25.17	0.51	0.51	DIYB	Kurt et al. (2022)
40.0285	36.8736	-1.28	-1.32	19.79	24.82	0.51	0.57	EVRP	Kurt et al. (2022)
39.835	37.5262	-2.47	-2.79	18.02	23.26	0.60	0.63	HISA	Kurt et al. (2022)
39.8053	38.2886	-2.31	0.35	17.55	26.39	0.630	0.69	ERGA	Kurt et al. (2022)
39.8048	37.8469	-1.48	-0.12	18.74	25.92	0.600	0.63	KARA	Kurt et al. (2022)
39.7582	38.2696	-1.65	-0.63	18.21	25.39	0.480	0.48	ERGN	Kurt et al. (2022)
39.7512	37.2337	-1.21	-0.43	19.50	25.59	0.540	0.54	VIRA	Kurt et al. (2022)
39.417	36.9712	-1.97	-0.78	18.86	25.09	0.570	0.63	AYZC	Kurt et al. (2022)
39.3293	37.7524	-1.08	-1.28	19.09	24.55	0.510	0.51	SIVE	Kurt et al. (2022)
39.2993	38.2068	-1.48	-4.04	18.31	21.78	0.540	0.6	CUNG	Kurt et al. (2022)
39.0319	37.5522	-2.61	-0.10	17.64	25.61	0.660	0.72	ARPA	Kurt et al. (2022)
38.9968	37.1748	-1.96	0.11	18.59	25.80	0.570	0.6	HRRN	Kurt et al. (2022)
38.9044	36.706	-2.71	-0.44	18.20	25.21	0.540	0.6	AKKL	Kurt et al. (2022)
38.8485	37.1656	-2.86	-0.63	17.66	25.00	0.480	0.51	URFA	Kurt et al. (2022)
38.8166	36.9223	-2.30	-0.17	18.41	25.44	0.930	0.96	GBKL	Kurt et al. (2022)
38.6827	38.0924	-3.20	-2.14	16.51	23.41	0.450	0.51	TEPE	Kurt et al. (2022)
38.5695	37.333	-1.87	-0.26	18.43	25.24	1.020	1.26	KPLN	Kurt et al. (2022)
38.4861	37.5564	-2.56	1.00	17.54	26.47	0.540	0.57	YBAG	Kurt et al. (2022)
38.3995	37.1777	-1.21	-0.77	19.18	24.66	0.600	0.66	AKMA	Kurt et al. (2022)
38.3548	36.9111	-1.99	-0.71	18.60	24.70	0.570	0.6	MURS	Kurt et al. (2022)
38.0091	36.8331	-0.88	-1.19	19.69	24.07	0.600	0.66	KARK	Kurt et al. (2022)
37.9023	37.2368	-1.40	-0.45	18.81	24.76	0.630	0.72	ARGA	Kurt et al. (2022)
37.8861	37.5414	-1.79	-1.41	18.16	23.79	0.600	0.66	CKRH	Kurt et al. (2022)
37.6262	37.3079	-1.66	-0.73	18.41	24.35	0.720	0.78	YVZE	Kurt et al. (2022)
37.5742	36.9012	-1.45	-1.39	18.95	23.67	0.600	0.72	GAZ1	Kurt et al. (2022)
37.4359	37.5177	-1.87	-1.65	17.98	23.35	0.930	1.08	ALAR	Kurt et al. (2022)
37.306	37.0242	-1.75	-1.28	18.47	23.66	0.570	0.69	KZH1	Kurt et al. (2022)
37.1611	37.4171	-2.29	-2.75	17.57	22.12	0.720	0.78	NARL	Kurt et al. (2022)
37.1126	37.7466	-5.47	-5.55	14.10	19.30	0.960	1.02	ABEY	Kurt et al. (2022)
36.996	37.5216	-3.82	-3.31	15.91	21.49	0.690	0.72	MARS	Kurt et al. (2022)
36.9719	37.1905	-2.22	-2.57	17.78	22.22	0.690	0.72	SAKZ	Kurt et al. (2022)
36.9285	36.8951	-2.21	-2.16	18.02	22.61	0.600	0.69	MUSA	Kurt et al. (2022)
36.6973	37.7615	-5.16	-5.35	14.29	19.31	0.960	1.02	SUCT	Kurt et al. (2022)

Table S5. continued

Lon (°)	Lat (°)	V_E wrt Arabia (mm/yr)	V_N wrt Arabia (mm/yr)	V_E wrt ITRF14 (mm/yr)	V_N wrt ITRF14 (mm/yr)	σ_E (mm/yr)	σ_N (mm/yr)	Site ID	Study
36.1311	36.0496	-1.53	-2.97	19.20	21.44	0.900	1.02	SENK	Kurt et al. (2022)
36.0729	37.3943	-7.32	-5.86	12.28	18.52	1.140	1.17	YIZK	Kurt et al. (2022)
35.8394	37.0545	-6.93	-5.03	12.89	19.24	0.750	0.81	CEYH	Kurt et al. (2022)
35.7954	36.8077	-5.85	-4.49	14.17	19.76	0.540	0.6	YUMU	Kurt et al. (2022)
35.6318	37.8511	-8.09	-5.08	11.01	19.09	0.600	0.69	MANS	Kurt et al. (2022)
35.4102	38.0727	-9.65	-6.11	9.21	17.96	0.780	0.9	YAHY	Kurt et al. (2022)
35.3748	36.8199	-8.97	-6.32	10.93	17.74	2.400	2.61	DKNT	Kurt et al. (2022)
35.3693	37.5601	-9.10	-5.68	10.18	18.37	1.170	1.38	KBSK	Kurt et al. (2022)
35.0759	37.2208	-7.54	-4.52	11.95	19.40	0.690	0.78	KRHY	Kurt et al. (2022)
34.9638	37.7788	-7.95	-5.25	11.04	18.61	0.810	0.93	BRCK	Kurt et al. (2022)
34.6865	37.5254	-8.39	-6.33	10.74	17.40	0.750	0.84	CFTH	Kurt et al. (2022)
34.5522	36.9001	-6.73	-6.41	12.90	17.26	0.330	0.36	MERH	Kurt et al. (2022)
34.4774	37.7825	-8.55	-6.39	10.31	17.25	0.570	0.63	SLKY	Kurt et al. (2022)
34.2572	37.3768	-6.71	-6.99	12.44	16.54	0.870	0.96	KSRY	Kurt et al. (2022)
34.256	37.517	-8.34	-7.22	10.69	16.31	0.600	0.66	BOZD	Kurt et al. (2022)
33.9906	37.7865	-9.38	-7.08	9.36	16.33	0.630	0.69	KRYL	Kurt et al. (2022)
33.9437	36.3698	-5.08	-7.80	14.85	15.59	0.870	1.17	SLFK	Kurt et al. (2022)
33.836	36.2815	-3.95	-7.92	16.02	15.41	0.990	1.08	TSCU	Kurt et al. (2022)
33.703	37.3663	-7.88	-7.89	11.14	15.38	0.570	0.66	AYRN	Kurt et al. (2022)
33.6286	36.5635	-6.75	-8.02	12.94	15.21	0.600	0.69	SARI	Kurt et al. (2022)
33.4646	36.6512	-5.87	-8.85	13.70	14.31	0.450	0.51	KELC	Kurt et al. (2022)
33.3948	36.32	-5.94	-8.22	13.90	14.90	0.600	0.66	GLNR	Kurt et al. (2022)
33.3147	36.1518	-4.96	-8.81	15.00	14.28	0.660	0.75	AYDI	Kurt et al. (2022)
33.2284	37.0914	-7.44	-8.63	11.70	14.41	0.420	0.51	OKZY	Kurt et al. (2022)
33.1912	37.3777	-7.90	-8.83	10.99	14.19	0.270	0.3	MELE	Kurt et al. (2022)
33.0065	36.903	-6.04	-8.62	13.21	14.32	0.630	0.72	BAYK	Kurt et al. (2022)
32.968	37.2396	-6.46	-9.13	12.49	13.79	0.450	0.51	KZKB	Kurt et al. (2022)
32.9403	36.0962	-3.75	-8.80	16.17	14.11	0.840	0.9	BOZ2	Kurt et al. (2022)
32.9157	36.6189	-6.49	-10.71	12.98	12.18	1.200	1.41	ERME	Kurt et al. (2022)
32.8031	36.025	-3.49	-9.18	16.46	13.66	0.540	0.54	ANMR	Kurt et al. (2022)
32.6099	37.3261	-7.73	-10.07	11.06	12.67	0.540	0.63	DNEK	Kurt et al. (2022)
32.386	36.9609	-6.91	-10.60	12.14	12.04	0.600	0.69	BYRL	Kurt et al. (2022)
32.2777	36.7317	-6.53	-11.19	12.69	11.39	1.800	1.95	CMAL	Kurt et al. (2022)
32.1598	36.4308	-5.58	-10.67	13.87	11.86	0.570	0.63	SEKI	Kurt et al. (2022)
39.9098	38.7368	-8.30	-3.86	11.22	22.22	1.020	1.12	SRYB	Kurt et al. (2022)
38.8059	38.4067	-8.66	-2.85	10.82	22.75	0.660	0.69	GULE	Kurt et al. (2022)
38.3938	38.3585	-8.15	-3.72	11.26	21.70	0.650	0.68	MALA	Kurt et al. (2022)
38.2169	38.3377	-7.60	-3.49	11.78	21.86	0.460	0.46	MALY	Kurt et al. (2022)
38.139	38.615	-8.67	-3.29	10.46	22.02	0.650	0.68	FETI	Kurt et al. (2022)
37.9534	38.3752	-7.08	-2.89	12.20	22.34	0.520	0.61	AKCD	Kurt et al. (2022)
37.8688	38.0504	-7.01	-3.99	12.51	21.20	0.730	0.78	ALTP	Kurt et al. (2022)
37.6071	38.4883	-8.32	-3.62	10.77	21.45	0.750	0.8	BLBN	Kurt et al. (2022)
37.4233	37.9687	-6.29	-4.24	13.18	20.75	0.720	0.78	NRHK	Kurt et al. (2022)
37.3079	38.7174	-8.95	-4.78	9.87	20.16	0.460	0.46	GURU	Kurt et al. (2022)
37.22	38.179	-7.97	-3.71	11.27	21.19	0.600	0.65	ELBI	Kurt et al. (2022)
37.1879	38.0588	-7.23	-4.51	12.10	20.38	0.460	0.46	EKIZ	Kurt et al. (2022)
36.9144	38.4255	-8.13	-4.66	10.82	20.10	0.660	0.69	TANR	Kurt et al. (2022)
36.8452	38.0924	-7.92	-3.90	11.29	20.83	0.630	0.68	CRDK	Kurt et al. (2022)
36.5206	38.4475	-8.99	-4.78	9.84	19.80	0.690	0.75	SNCK	Kurt et al. (2022)
36.5182	38.0569	-7.41	-4.78	11.75	19.80	0.580	0.61	ORTP	Kurt et al. (2022)
36.995	37.521	-2.79	-2.66	16.94	22.14	1.800	1.77	KMAS	Kurt et al. (2022)

Table S5. continued

Lon (°)	Lat (°)	V_E wrt Arabia (mm/yr)	V_N wrt Arabia (mm/yr)	V_E wrt ITRF14 (mm/yr)	V_N wrt ITRF14 (mm/yr)	σ_E (mm/yr)	σ_N (mm/yr)	Site ID	Study
35.3133	29.7041	-0.49	-1.58	25.18	22.46	0.480	0.48	ROM0	Hamiel and Piatibratova (2021)
35.0829	29.7458	0.47	-2.47	26.06	21.46	0.480	0.45	JEM0	Hamiel and Piatibratova (2021)
34.9578	29.7808	-0.39	-3.16	25.15	20.71	0.300	0.3	TIM0	Hamiel and Piatibratova (2021)
34.8565	29.7838	-0.52	-3.62	24.99	20.20	0.300	0.3	SAG0	Hamiel and Piatibratova (2021)
35.6782	30.1665	0.10	-1.41	25.48	22.80	0.770	0.77	MAN0	Hamiel and Piatibratova (2021)
36.1944	30.259	-0.20	-0.60	25.22	23.84	0.680	0.61	JFR0	Hamiel and Piatibratova (2021)
35.2659	30.2819	-0.41	-2.10	24.80	21.91	0.300	0.3	ABK0	Hamiel and Piatibratova (2021)
35.1338	30.2892	-0.61	-3.33	24.56	20.62	0.300	0.3	MNH0	Hamiel and Piatibratova (2021)
35.5136	30.308	-0.63	-0.86	24.61	23.27	0.380	0.36	QUL0	Hamiel and Piatibratova (2021)
34.9646	30.3207	-1.21	-3.32	23.90	20.55	0.300	0.3	MAP0	Hamiel and Piatibratova (2021)
35.438	30.443	0.23	-1.19	25.34	22.90	0.360	0.36	SUL0	Hamiel and Piatibratova (2021)
34.6046	30.5068	-1.16	-4.56	23.73	19.14	0.300	0.3	BOR0	Hamiel and Piatibratova (2021)
35.2957	30.951	-0.84	-4.08	23.84	19.95	0.300	0.3	TAM0	Hamiel and Piatibratova (2021)
35.7816	30.9588	-0.13	-0.86	24.65	23.39	0.300	0.3	AYN0	Hamiel and Piatibratova (2021)
35.6438	30.9814	0.16	-1.30	24.89	22.89	0.450	0.46	BUR0	Hamiel and Piatibratova (2021)
35.075	31.0271	-1.39	-4.69	23.18	19.23	0.300	0.3	DIM0	Hamiel and Piatibratova (2021)
35.5167	31.0761	0.38	-1.75	25.01	22.38	0.320	0.3	SAF0	Hamiel and Piatibratova (2021)
35.7178	31.0947	-0.65	-1.34	24.01	22.88	0.720	0.68	MUTA	Hamiel and Piatibratova (2021)
34.9998	29.6479	-0.20	-2.56	25.45	21.33	0.320	0.3	AV07	Hamiel and Piatibratova (2021)
35.0182	29.6549	-0.48	-2.45	25.17	21.45	0.490	0.46	AV06	Hamiel and Piatibratova (2021)
35.0146	29.6758	-0.54	-2.71	25.09	21.19	0.410	0.41	AV04	Hamiel and Piatibratova (2021)
35.0174	29.676	-1.42	-2.89	24.21	21.01	0.450	0.45	AV05	Hamiel and Piatibratova (2021)
34.9929	29.6791	-0.08	-2.92	25.55	20.97	0.380	0.35	AV03	Hamiel and Piatibratova (2021)
34.982	29.6805	-0.24	-2.79	25.38	21.09	0.360	0.35	AV02	Hamiel and Piatibratova (2021)
34.9737	29.6875	-1.11	-1.99	24.50	21.89	0.430	0.42	AV01	Hamiel and Piatibratova (2021)
35.3783	30.9336	-2.15	-1.50	22.56	22.57	0.300	0.3	NEO1	Hamiel and Piatibratova (2021)
35.3514	31.0373	-1.50	-4.24	23.12	19.81	0.430	0.43	SDM2	Hamiel and Piatibratova (2021)
35.3566	31.0384	-1.57	-4.57	23.05	19.49	0.300	0.3	SDM1	Hamiel and Piatibratova (2021)
35.3403	31.0431	-1.50	-4.19	23.12	19.86	0.840	0.83	SDM4	Hamiel and Piatibratova (2021)
35.3345	31.0449	-1.80	-4.09	22.81	19.96	0.300	0.3	SDM5	Hamiel and Piatibratova (2021)
35.3014	31.0451	-1.64	-3.91	22.97	20.12	0.420	0.43	SDM8	Hamiel and Piatibratova (2021)
35.3074	31.0455	-1.03	-4.53	23.58	19.50	0.350	0.35	SDM7	Hamiel and Piatibratova (2021)
35.3276	31.0461	-1.44	-3.72	23.17	20.32	0.420	0.42	SDM6	Hamiel and Piatibratova (2021)
35.6038	31.7512	-0.32	-1.23	23.79	22.94	1.030	1.11	IJ09	Hamiel and Piatibratova (2021)
35.5152	31.7983	0.54	-2.54	24.59	21.59	0.300	0.3	DS03	Hamiel and Piatibratova (2021)
35.5079	31.7998	0.11	-2.14	24.16	21.99	0.300	0.3	DS04	Hamiel and Piatibratova (2021)
35.4997	31.7999	-0.30	-3.04	23.75	21.08	0.320	0.33	DS05	Hamiel and Piatibratova (2021)
35.4901	31.7999	0.00	-2.93	24.04	21.19	0.490	0.52	DS06	Hamiel and Piatibratova (2021)
35.527	31.8007	0.86	-2.49	24.91	21.64	0.380	0.38	DS01	Hamiel and Piatibratova (2021)
35.4773	31.8086	0.01	-2.35	24.04	21.76	0.430	0.45	BTAR	Hamiel and Piatibratova (2021)
35.4382	31.8228	-0.37	-3.00	23.64	21.09	0.630	0.68	VRDJ	Hamiel and Piatibratova (2021)
35.5458	31.8375	0.37	-2.82	24.40	21.32	0.390	0.39	KSYH	Hamiel and Piatibratova (2021)
35.5383	31.838	-0.42	-2.85	23.60	21.29	1.330	1.29	KY02	Hamiel and Piatibratova (2021)
35.6471	32.6967	-0.40	-1.41	22.96	22.78	0.520	0.57	TK03	Hamiel and Piatibratova (2021)
35.5992	32.7053	-0.95	-2.38	22.39	21.79	0.350	0.36	MAGN	Hamiel and Piatibratova (2021)
35.5765	32.7066	-0.80	-2.60	22.53	21.56	0.420	0.42	DGAN	Hamiel and Piatibratova (2021)
35.6189	32.7076	-0.49	-2.99	22.85	21.19	0.300	0.3	TLKZ	Hamiel and Piatibratova (2021)
35.5457	32.7077	-1.00	-3.20	22.33	20.94	0.300	0.3	ALUM	Hamiel and Piatibratova (2021)
35.6406	32.7084	0.03	-1.20	23.38	22.99	0.480	0.51	TK02	Hamiel and Piatibratova (2021)
35.6269	32.7094	0.06	-1.12	23.40	23.06	0.350	0.36	TK01	Hamiel and Piatibratova (2021)
35.665	32.7103	0.02	-1.04	23.37	23.16	0.390	0.42	TK04	Hamiel and Piatibratova (2021)
35.6091	32.9683	-0.32	-2.58	22.81	21.59	0.300	0.3	KN01	Hamiel and Piatibratova (2021)

Table S5. continued

Lon (°)	Lat (°)	V_E wrt Arabia (mm/yr)	V_N wrt Arabia (mm/yr)	V_E wrt ITRF14 (mm/yr)	V_N wrt ITRF14 (mm/yr)	σ_E (mm/yr)	σ_N (mm/yr)	Site ID	Study
35.6156	32.9728	-0.36	-2.51	22.77	21.66	0.330	0.33	KN03	Hamiel and Piatibratova (2021)
35.6367	32.9743	-0.09	-2.21	23.04	21.97	0.300	0.3	KN10	Hamiel and Piatibratova (2021)
35.6331	32.9765	0.07	-2.34	23.20	21.84	0.360	0.36	KN07	Hamiel and Piatibratova (2021)
35.6158	32.9768	-0.37	-2.46	22.75	21.71	0.300	0.3	KN04	Hamiel and Piatibratova (2021)
35.607	32.9802	-0.25	-3.30	22.87	20.87	0.330	0.35	KN02	Hamiel and Piatibratova (2021)
35.6485	32.9808	-0.04	-1.64	23.09	22.55	0.390	0.41	KN11	Hamiel and Piatibratova (2021)
35.6305	32.9867	-0.28	-1.99	22.84	22.19	0.300	0.3	KN09	Hamiel and Piatibratova (2021)
35.6434	32.9883	-0.13	-2.04	22.99	22.15	0.300	0.3	KN12	Hamiel and Piatibratova (2021)
35.614	32.9903	-0.37	-2.72	22.74	21.45	0.300	0.3	KN06	Hamiel and Piatibratova (2021)
35.5546	32.9943	-0.72	-2.83	22.38	21.32	0.510	0.54	HZOR	Hamiel and Piatibratova (2021)
34.9524	29.6255	-0.09	-3.02	25.57	20.85	0.300	0.3	SHOR	Hamiel and Piatibratova (2021)
34.8775	29.6542	-0.42	-3.70	25.20	20.13	0.300	0.3	UZIA	Hamiel and Piatibratova (2021)
34.9286	29.6786	-0.67	-2.53	24.94	21.33	0.300	0.3	RAHM	Hamiel and Piatibratova (2021)
34.8611	29.6923	-0.84	-3.02	24.75	20.81	0.410	0.41	SHNI	Hamiel and Piatibratova (2021)
34.9077	29.812	-0.60	-3.18	24.90	20.67	0.300	0.3	BERE	Hamiel and Piatibratova (2021)
34.8139	29.8474	-0.65	-3.77	24.81	20.03	0.300	0.3	SAYA	Hamiel and Piatibratova (2021)
34.9916	29.9208	-0.59	-3.32	24.84	20.57	0.300	0.3	ARUT	Hamiel and Piatibratova (2021)
34.7192	30.1211	-1.73	-4.16	23.49	19.60	0.300	0.3	PARA	Hamiel and Piatibratova (2021)
35.0152	30.2195	-0.53	-3.73	24.67	20.17	0.300	0.3	ZIHA	Hamiel and Piatibratova (2021)
34.9514	30.2474	-0.43	-3.54	24.74	20.33	0.300	0.3	ZHOR	Hamiel and Piatibratova (2021)
35.1039	30.2912	-0.85	-3.29	24.31	20.65	0.300	0.3	MNHA	Hamiel and Piatibratova (2021)
34.6338	30.3434	-1.02	-4.59	24.00	19.13	0.300	0.3	SAGI	Hamiel and Piatibratova (2021)
34.9723	30.368	-1.36	-3.69	23.72	20.19	0.300	0.3	KIPA	Hamiel and Piatibratova (2021)
35.1382	30.4135	-0.67	-4.14	24.40	19.82	0.300	0.3	BRAK	Hamiel and Piatibratova (2021)
34.5526	30.5081	-0.76	-4.15	24.12	19.53	0.300	0.3	HARI	Hamiel and Piatibratova (2021)
34.7702	30.5167	-1.58	-4.23	23.33	19.55	0.300	0.3	ODED	Hamiel and Piatibratova (2021)
34.941	30.5236	-0.91	-4.10	24.04	19.76	0.300	0.3	HDAV	Hamiel and Piatibratova (2021)
35.1808	30.5467	-1.08	-2.93	23.90	21.04	0.300	0.3	ZOFR	Hamiel and Piatibratova (2021)
34.6806	30.5719	-1.55	-4.39	23.30	19.35	0.300	0.3	ACRA	Hamiel and Piatibratova (2021)
35.0514	30.5798	-0.85	-4.18	24.07	19.73	0.300	0.3	ARMS	Hamiel and Piatibratova (2021)
34.5417	30.5901	-1.19	-4.12	23.62	19.56	0.300	0.3	BARN	Hamiel and Piatibratova (2021)
34.9232	30.6901	-0.87	-3.97	23.94	19.88	0.300	0.3	MAML	Hamiel and Piatibratova (2021)
34.7785	30.7368	-1.66	-4.28	23.08	19.51	0.210	0.22	NAFA	Hamiel and Piatibratova (2021)
34.4646	30.7806	-1.26	-3.86	23.38	19.78	0.300	0.3	BERO	Hamiel and Piatibratova (2021)
35.2772	30.8077	-0.85	-3.68	23.94	20.34	0.300	0.32	IDAN	Hamiel and Piatibratova (2021)
35.1771	30.8549	-0.82	-3.88	23.91	20.09	0.300	0.3	SAIF	Hamiel and Piatibratova (2021)
34.423	30.8667	-1.15	-4.25	23.41	19.37	0.300	0.3	NIZA	Hamiel and Piatibratova (2021)
34.6247	30.8856	-1.08	-4.52	23.51	19.19	0.300	0.3	SHVT	Hamiel and Piatibratova (2021)
34.861	30.9038	-1.28	-4.17	23.35	19.65	0.300	0.3	MAAN	Hamiel and Piatibratova (2021)
35.3747	30.9294	-1.62	-4.21	23.09	19.85	0.300	0.3	NECR	Hamiel and Piatibratova (2021)
35.1498	30.9345	-0.87	-4.36	23.79	19.60	0.300	0.3	KATN	Hamiel and Piatibratova (2021)
34.6323	30.9666	-1.07	-4.37	23.46	19.35	0.300	0.3	ANTN	Hamiel and Piatibratova (2021)
34.9806	30.9725	-0.93	-4.76	23.67	19.12	0.300	0.3	AVNO	Hamiel and Piatibratova (2021)
34.4953	30.984	-1.47	-3.98	23.01	19.67	0.300	0.3	KERN	Hamiel and Piatibratova (2021)
34.759	30.9908	-1.04	-4.63	23.49	19.15	0.300	0.3	TLLM	Hamiel and Piatibratova (2021)
34.9008	31.0065	-1.17	-4.48	23.38	19.36	0.300	0.3	YERU	Hamiel and Piatibratova (2021)
35.2565	31.0178	-0.85	-4.23	23.77	19.78	0.300	0.3	PRES	Hamiel and Piatibratova (2021)
35.3852	31.0795	0.95	-2.47	25.55	21.60	0.170	0.17	SDOM	Hamiel and Piatibratova (2021)
34.8293	31.0861	-1.10	-4.27	23.37	19.54	0.300	0.3	NEGV	Hamiel and Piatibratova (2021)
34.6303	31.1293	-1.18	-4.22	23.22	19.50	0.300	0.3	ZLIM	Hamiel and Piatibratova (2021)

Table S5. continued

Lon (°)	Lat (°)	V_E wrt Arabia (mm/yr)	V_N wrt Arabia (mm/yr)	V_E wrt ITRF14 (mm/yr)	V_N wrt ITRF14 (mm/yr)	σ_E (mm/yr)	σ_N (mm/yr)	Site ID	Study
35.1088	31.1363	-1.39	-4.35	23.10	19.59	0.300	0.3	DAYA	Hamiel and Piatibratova (2021)
35.3219	31.1649	-2.06	-4.41	22.46	19.63	0.300	0.3	ZHAR	Hamiel and Piatibratova (2021)
34.7962	31.1985	-1.05	-3.90	23.33	19.89	0.300	0.3	HAIL	Hamiel and Piatibratova (2021)
35.2019	31.2326	-0.96	-4.10	23.48	19.88	0.610	0.61	ARAD	Hamiel and Piatibratova (2021)
34.638	31.3086	-0.73	-4.29	23.52	19.43	0.300	0.3	OFKM	Hamiel and Piatibratova (2021)
35.0776	31.3178	-1.38	-4.67	22.96	19.26	0.300	0.3	MASA	Hamiel and Piatibratova (2021)
35.3306	31.3187	-1.19	-3.88	23.20	20.16	0.300	0.3	MZDA	Hamiel and Piatibratova (2021)
34.8232	31.3232	-0.79	-4.61	23.49	19.20	0.300	0.3	GORL	Hamiel and Piatibratova (2021)
34.4748	31.3457	-1.27	-4.37	22.92	19.27	0.300	0.3	BSOR	Hamiel and Piatibratova (2021)
34.7212	31.3867	-1.28	-4.51	22.93	19.25	0.300	0.3	RHAT	Hamiel and Piatibratova (2021)
34.463	31.4225	-1.08	-4.23	23.04	19.41	0.300	0.3	BERI	Hamiel and Piatibratova (2021)
34.888	31.4373	-1.04	-4.29	23.16	19.55	0.300	0.3	SHOM	Hamiel and Piatibratova (2021)
34.6804	31.4987	-1.01	-4.25	23.10	19.49	0.300	0.3	RUMA	Hamiel and Piatibratova (2021)
35.3777	31.5105	-0.65	-3.83	23.60	20.24	0.300	0.3	KEDM	Hamiel and Piatibratova (2021)
34.901	31.5294	-1.22	-4.36	22.91	19.48	0.300	0.3	AMAZ	Hamiel and Piatibratova (2021)
34.5756	31.5397	-1.29	-4.37	22.76	19.32	0.300	0.3	NRAM	Hamiel and Piatibratova (2021)
35.022	31.5529	-0.98	-3.60	23.16	20.30	0.300	0.3	ADRA	Hamiel and Piatibratova (2021)
34.8484	31.5886	-0.99	-4.02	23.08	19.80	0.300	0.3	GVRN	Hamiel and Piatibratova (2021)
35.2328	31.5957	-0.87	-3.89	23.28	20.11	0.300	0.3	AMOS	Hamiel and Piatibratova (2021)
35.3951	31.597	-0.75	-3.81	23.44	20.26	0.300	0.3	DRGA	Hamiel and Piatibratova (2021)
35.0973	31.6097	-0.75	-4.13	23.36	19.80	0.300	0.3	CZUR	Hamiel and Piatibratova (2021)
34.5163	31.6241	-1.30	-4.20	22.67	19.46	0.300	0.3	ASHK	Hamiel and Piatibratova (2021)
34.6772	31.6343	-0.94	-4.31	23.06	19.43	0.300	0.3	CVEL	Hamiel and Piatibratova (2021)
35.0802	31.6997	-1.15	-3.80	22.88	20.13	0.300	0.3	SNSN	Hamiel and Piatibratova (2021)
34.9491	31.7026	-1.11	-3.76	22.89	20.11	0.300	0.3	ZACH	Hamiel and Piatibratova (2021)
34.662	31.7495	-0.83	-4.71	23.07	19.02	0.300	0.3	EZRA	Hamiel and Piatibratova (2021)
34.8919	31.789	-0.74	-4.25	23.18	19.59	0.300	0.3	TLSR	Hamiel and Piatibratova (2021)
35.0476	31.7929	-1.06	-3.37	22.89	20.54	0.300	0.3	BMIR	Hamiel and Piatibratova (2021)
35.3412	31.8169	-0.47	-3.58	23.53	20.47	0.300	0.3	CADM	Hamiel and Piatibratova (2021)
35.1035	31.8225	-0.87	-3.68	23.07	20.26	0.300	0.3	NTAF	Hamiel and Piatibratova (2021)
35.4254	31.8291	-0.52	-2.95	23.49	21.14	0.300	0.3	VERD	Hamiel and Piatibratova (2021)
34.9986	31.8461	-0.66	-4.27	23.24	19.62	0.300	0.3	CNDA	Hamiel and Piatibratova (2021)
35.0323	31.9297	-1.12	-3.87	22.72	20.03	0.300	0.3	MATI	Hamiel and Piatibratova (2021)
35.3541	31.9459	-0.38	-3.07	23.52	20.98	0.300	0.3	CSHR	Hamiel and Piatibratova (2021)
35.2623	31.9608	-0.78	-3.43	23.08	20.58	0.300	0.3	OFRA	Hamiel and Piatibratova (2021)
35.4555	31.965	-0.47	-3.15	23.43	20.95	0.300	0.3	NRAN	Hamiel and Piatibratova (2021)
34.9684	32.0392	-0.70	-4.04	23.04	19.83	0.300	0.3	RNTS	Hamiel and Piatibratova (2021)
35.2964	32.0521	-0.92	-3.61	22.88	20.42	0.300	0.3	SHLO	Hamiel and Piatibratova (2021)
35.4614	32.0539	-0.61	-2.80	23.22	21.30	0.300	0.3	DRTA	Hamiel and Piatibratova (2021)
35.1967	32.1002	-0.95	-3.65	22.79	20.33	0.300	0.3	ARIL	Hamiel and Piatibratova (2021)
35.4866	32.1023	-0.28	-2.54	23.52	21.58	0.300	0.3	MSUA	Hamiel and Piatibratova (2021)
35.3869	32.1023	-0.76	-3.19	23.02	20.88	0.300	0.3	GTIT	Hamiel and Piatibratova (2021)
35.0394	32.1141	-0.67	-4.23	23.02	19.68	0.300	0.3	ELKN	Hamiel and Piatibratova (2021)
34.8039	32.1408	-0.34	-4.51	23.28	19.29	0.300	0.3	GLIL	Hamiel and Piatibratova (2021)
35.4209	32.1681	-0.52	-3.24	23.21	20.84	0.300	0.3	MCRA	Hamiel and Piatibratova (2021)
35.5213	32.1685	-0.51	-2.61	23.24	21.52	0.300	0.3	ARMN	Hamiel and Piatibratova (2021)
34.98	32.2069	-0.86	-3.91	22.74	19.97	0.300	0.3	EYAL	Hamiel and Piatibratova (2021)
35.1588	32.2166	-0.79	-3.34	22.85	20.62	0.610	0.65	KDUM	Hamiel and Piatibratova (2021)
35.3276	32.2426	-0.69	-3.14	22.96	20.90	0.300	0.3	CBIR	Hamiel and Piatibratova (2021)
35.4517	32.2467	-0.56	-3.19	23.12	20.91	0.300	0.3	BKOT	Hamiel and Piatibratova (2021)

Table S5. continued

Lon (°)	Lat (°)	V_E wrt Arabia (mm/yr)	V_N wrt Arabia (mm/yr)	V_E wrt ITRF14 (mm/yr)	V_N wrt ITRF14 (mm/yr)	σ_E (mm/yr)	σ_N (mm/yr)	Site ID	Study
34.8412	32.2598	-0.44	-4.18	23.09	19.63	0.300	0.3	UDIM	Hamiel and Piatibratova (2021)
35.5114	32.2837	-0.50	-2.51	23.16	21.62	0.300	0.3	MSAI	Hamiel and Piatibratova (2021)
35.0201	32.3487	-0.72	-4.12	22.78	19.78	0.300	0.3	BAHN	Hamiel and Piatibratova (2021)
35.5234	32.3501	-0.95	-2.18	22.66	21.95	0.300	0.3	SDLA	Hamiel and Piatibratova (2021)
35.4199	32.4258	-0.94	-3.16	22.58	20.92	0.300	0.3	AVNR	Hamiel and Piatibratova (2021)
35.497	32.4563	-0.63	-3.45	22.89	20.67	0.300	0.3	RHOV	Hamiel and Piatibratova (2021)
35.0292	32.4696	-0.92	-3.80	22.48	20.10	0.300	0.3	BRKA	Hamiel and Piatibratova (2021)
35.1563	32.5044	-0.50	-3.75	22.90	20.21	0.300	0.3	MAMI	Hamiel and Piatibratova (2021)
35.3965	32.5075	-0.94	-3.57	22.51	20.50	0.300	0.3	LPDM	Hamiel and Piatibratova (2021)
34.9144	32.55	-0.86	-4.45	22.45	19.40	0.300	0.3	MGAN	Hamiel and Piatibratova (2021)
35.3935	32.5655	-0.77	-3.42	22.64	20.65	0.300	0.3	ENRD	Hamiel and Piatibratova (2021)
35.5265	32.5759	-0.89	-3.02	22.54	21.11	0.300	0.3	CVDN	Hamiel and Piatibratova (2021)
35.1619	32.5837	-0.62	-3.12	22.72	20.84	0.300	0.3	MDOZ	Hamiel and Piatibratova (2021)
34.9664	32.5925	-0.59	-4.12	22.70	19.75	0.300	0.3	SFIA	Hamiel and Piatibratova (2021)
35.359	32.6189	-0.93	-3.47	22.42	20.59	0.300	0.3	MORE	Hamiel and Piatibratova (2021)
35.0853	32.6777	-0.73	-3.75	22.52	20.18	0.300	0.3	MRKA	Hamiel and Piatibratova (2021)
35.2674	32.6856	-0.84	-3.49	22.44	20.52	0.300	0.3	YAFI	Hamiel and Piatibratova (2021)
35.1112	32.6971	-0.64	-3.85	22.60	20.09	0.300	0.3	KRTV	Hamiel and Piatibratova (2021)
34.946	32.7085	-0.63	-4.06	22.56	19.80	0.300	0.3	ATLT	Hamiel and Piatibratova (2021)
35.0027	32.7236	-0.65	-4.22	22.54	19.67	0.300	0.3	KRML	Hamiel and Piatibratova (2021)
35.2761	32.7458	-0.68	-4.09	22.55	19.93	0.300	0.3	ZPRI	Hamiel and Piatibratova (2021)
35.1823	32.7636	-0.76	-3.53	22.44	20.44	0.300	0.3	KBIA	Hamiel and Piatibratova (2021)
35.5139	32.7834	-1.19	-2.75	22.07	21.38	0.300	0.3	TIBR	Hamiel and Piatibratova (2021)
35.3708	32.7967	-0.60	-3.18	22.61	20.88	0.300	0.3	NTFA	Hamiel and Piatibratova (2021)
35.7139	32.8084	-0.44	-1.34	22.84	22.88	0.300	0.3	YOAV	Hamiel and Piatibratova (2021)
34.9654	32.8087	-0.29	-3.95	22.82	19.92	0.300	0.3	KRMV	Hamiel and Piatibratova (2021)
35.2659	32.8235	-0.80	-3.37	22.37	20.64	0.300	0.3	AZMN	Hamiel and Piatibratova (2021)
35.3563	32.8411	-0.38	-3.47	22.79	20.58	0.350	0.36	AVTL	Hamiel and Piatibratova (2021)
35.4516	32.8508	-0.32	-2.86	22.87	21.24	0.300	0.3	RVID	Hamiel and Piatibratova (2021)
35.7537	32.8546	-0.52	-0.91	22.73	23.33	0.300	0.3	NTUR	Hamiel and Piatibratova (2021)
35.1455	32.8549	-0.67	-3.83	22.45	20.13	0.300	0.3	CSON	Hamiel and Piatibratova (2021)
35.6917	32.8841	-0.50	-0.15	22.72	24.06	0.300	0.3	GMLA	Hamiel and Piatibratova (2021)
35.4941	32.8922	-0.35	-2.63	22.81	21.49	0.300	0.32	HKUK	Hamiel and Piatibratova (2021)
35.4026	32.8998	-0.51	-3.39	22.63	20.69	0.300	0.3	HZON	Hamiel and Piatibratova (2021)
35.2302	32.9116	-0.62	-3.71	22.47	20.28	0.300	0.3	GLON	Hamiel and Piatibratova (2021)
35.8511	32.9258	-0.68	-0.71	22.54	23.57	0.300	0.3	ORHA	Hamiel and Piatibratova (2021)
35.3668	32.9555	-0.60	-3.47	22.48	20.59	0.150	0.15	BJAN	Hamiel and Piatibratova (2021)
35.7352	32.9556	-0.77	-0.94	22.40	23.29	0.300	0.3	ANAM	Hamiel and Piatibratova (2021)
35.7099	32.9632	-0.64	-1.03	22.52	23.19	0.300	0.3	QZAB	Hamiel and Piatibratova (2021)
35.236	33.0093	-0.34	-3.57	22.67	20.43	0.300	0.3	ECOV	Hamiel and Piatibratova (2021)
35.1445	33.0172	-0.47	-3.78	22.51	20.17	0.300	0.3	CABR	Hamiel and Piatibratova (2021)
35.354	33.0386	-0.53	-3.90	22.48	20.15	0.300	0.3	MTAT	Hamiel and Piatibratova (2021)
35.1045	33.0643	-0.94	-3.72	22.00	20.22	0.300	0.3	NHRI	Hamiel and Piatibratova (2021)
35.1979	33.0799	-0.45	-3.10	22.49	20.88	0.300	0.33	ADMT	Hamiel and Piatibratova (2021)
35.5643	33.0896	-0.60	-2.71	22.42	21.44	0.600	0.6	NFTA	Hamiel and Piatibratova (2021)
35.7207	33.1227	-0.35	-1.62	22.68	22.60	0.300	0.3	SHAL	Hamiel and Piatibratova (2021)
35.5452	33.1657	-0.49	-2.61	22.46	21.53	0.300	0.3	MNAR	Hamiel and Piatibratova (2021)
35.5544	33.2296	-0.39	-3.07	22.51	21.08	0.300	0.3	MARG	Hamiel and Piatibratova (2021)
35.7488	33.2618	-0.46	-1.78	22.46	22.45	0.300	0.3	ATIV	Hamiel and Piatibratova (2021)
42.0447	19.2114	0.10	0.88	34.54	27.89	0.150	0.15	NAMA	Hamiel and Piatibratova (2021)

Table S5. continued

Lon (°)	Lat (°)	V_E wrt Arabia (mm/yr)	V_N wrt Arabia (mm/yr)	V_E wrt ITRF14 (mm/yr)	V_N wrt ITRF14 (mm/yr)	σ_E (mm/yr)	σ_N (mm/yr)	Site ID	Study
46.4006	24.9107	0.40	0.72	31.90	29.44	0.150	0.15	SOLA	Hamiel and Piatibratova (2021)
36.3777	26.4583	0.21	-0.05	28.59	24.48	0.150	0.15	ALWJ	Hamiel and Piatibratova (2021)
34.7966	28.2995	-0.02	-0.42	26.65	23.38	0.150	0.15	RASH	Hamiel and Piatibratova (2021)
36.0999	29.1389	0.66	-0.86	26.94	23.54	0.150	0.15	HALY	Hamiel and Piatibratova (2021)
47.9715	29.325	-0.18	0.09	28.67	29.39	0.150	0.15	KUWT	Hamiel and Piatibratova (2021)
35.4687	30.3275	-0.46	-1.58	24.75	22.53	0.380	0.36	PETA	Hamiel and Piatibratova (2021)
35.184	30.6136	-0.88	-2.93	24.04	21.05	0.150	0.15	SPIR	Hamiel and Piatibratova (2021)
34.4235	30.8843	-0.96	-4.55	23.59	19.07	0.150	0.15	NIZN	Hamiel and Piatibratova (2021)
34.9283	30.9916	-1.13	-4.36	23.44	19.50	0.150	0.15	YRCM	Hamiel and Piatibratova (2021)
35.5664	31.3035	-0.40	-1.07	24.06	23.08	0.200	0.2	GHAJ	Hamiel and Piatibratova (2021)
34.6067	31.7079	-1.28	-4.40	22.64	19.30	0.150	0.15	ALON	Hamiel and Piatibratova (2021)
35.4644	31.9521	-0.37	-3.29	23.55	20.81	0.320	0.32	UJAP	Hamiel and Piatibratova (2021)
35.1913	32.0686	-0.34	-4.23	23.42	19.75	0.430	0.43	SALP	Hamiel and Piatibratova (2021)
35.6401	32.091	-0.06	-1.50	23.78	22.69	1.400	1.54	BALJ	Hamiel and Piatibratova (2021)
36.1888	32.1013	0.17	-0.21	24.13	24.23	0.330	0.32	HUGS	Hamiel and Piatibratova (2021)
35.4165	32.4793	-0.96	-3.44	22.52	20.64	0.150	0.15	GILB	Hamiel and Piatibratova (2021)
34.8902	32.4883	-0.91	-4.09	22.45	19.75	0.150	0.15	CSAR	Hamiel and Piatibratova (2021)
35.9872	32.4927	-1.17	0.18	22.43	24.53	0.330	0.33	JUST	Hamiel and Piatibratova (2021)
35.4984	32.6908	-0.89	-3.15	22.44	20.97	0.300	0.3	YVEL	Hamiel and Piatibratova (2021)
35.6545	32.738	-0.37	-0.82	22.96	23.37	0.650	0.69	MEHA	Hamiel and Piatibratova (2021)
35.6883	32.9953	-0.66	-1.66	22.46	22.55	0.150	0.15	KATZ	Hamiel and Piatibratova (2021)
35.7707	33.182	-0.43	-1.71	22.56	22.54	0.150	0.15	ELRO	Hamiel and Piatibratova (2021)
35.7855	33.3083	-0.64	-1.70	22.25	22.55	0.150	0.15	HRMN	Hamiel and Piatibratova (2021)
44.4384	33.3414	-0.15	-0.65	24.88	27.31	0.150	0.15	ISBA	Hamiel and Piatibratova (2021)
42.4776	18.2435	0.09	-0.16	35.21	27.03	0.430	0.35	ABHA	Viltres et al. (2022)
45.0399	12.8123	0.24	-1.10	38.89	27.11	0.920	0.75	ADEN	Viltres et al. (2022)
41.0346	30.951	0.39	0.01	26.37	26.58	0.360	0.41	ARRA	Viltres et al. (2022)
42.9038	18.5392	0.18	1.11	35.18	28.47	0.540	0.75	AS01	Viltres et al. (2022)
42.5984	19.9772	-0.51	0.23	33.52	27.47	0.700	0.72	AS02	Viltres et al. (2022)
43.5293	19.5107	-0.02	-0.09	34.46	27.52	0.700	0.68	AS03	Viltres et al. (2022)
42.8187	19.4391	0.11	0.31	34.52	27.64	0.460	0.38	AS06	Viltres et al. (2022)
43.2893	18.8948	-1.01	0.45	33.82	27.97	0.660	0.63	AS94	Viltres et al. (2022)
42.2754	19.5485	0.28	0.12	34.54	27.22	1.230	1.32	AS99	Viltres et al. (2022)
37.924	26.6098	0.60	0.33	29.17	25.56	0.300	0.32	AULA	Viltres et al. (2022)
41.4682	20.0135	0.24	0.21	34.07	26.98	0.550	0.43	BAHA	Viltres et al. (2022)
50.6081	26.2091	-0.24	-0.09	31.33	30.13	0.260	0.21	BAHR	Viltres et al. (2022)
42.3641	27.9141	0.44	0.39	28.98	27.52	0.420	0.43	BAQA	Viltres et al. (2022)
35.6721	28.5252	0.65	-0.13	27.32	24.08	0.750	1.24	BEJD	Viltres et al. (2022)
41.0434	20.294	-0.27	-0.23	33.30	26.36	0.810	0.9	BH99	Viltres et al. (2022)
41.5297	18.2083	-0.40	-0.03	34.60	26.77	0.490	0.58	BIRK	Viltres et al. (2022)
42.6887	20.2535	0.74	0.52	34.61	27.79	0.520	0.48	BSHA	Viltres et al. (2022)
43.955	26.3512	-0.07	0.37	29.92	28.14	0.420	0.41	BURD	Viltres et al. (2022)
44.392	14.571	0.06	-0.50	37.65	27.46	0.830	0.77	DHMR	Viltres et al. (2022)
49.9692	26.8331	-0.61	0.46	30.41	30.46	0.730	0.69	ES01	Viltres et al. (2022)
49.3082	27.3135	0.20	0.06	30.75	29.83	0.610	0.65	ES02	Viltres et al. (2022)
50.5227	25.2765	-0.45	1.25	31.70	31.45	0.990	0.84	ES04	Viltres et al. (2022)
51.4409	24.5713	-0.59	0.19	32.21	30.69	0.720	0.58	ES05	Viltres et al. (2022)
45.963	28.4311	-0.83	-0.46	28.16	28.09	0.480	0.55	ES07	Viltres et al. (2022)
48.9642	23.2988	0.13	0.50	33.20	30.16	0.810	0.84	ES10	Viltres et al. (2022)
50.186	22.9068	0.57	-0.46	34.13	29.62	0.550	0.52	ES11	Viltres et al. (2022)

Table S5. continued

Lon (°)	Lat (°)	V_E wrt Arabia (mm/yr)	V_N wrt Arabia (mm/yr)	V_E wrt ITRF14 (mm/yr)	V_N wrt ITRF14 (mm/yr)	σ_E (mm/yr)	σ_N (mm/yr)	Site ID	Study
53.9284	22.5116	-0.75	0.00	33.82	31.30	2.030	1.69	ES12	Viltres et al. (2022)
48.5081	27.4639	0.51	0.11	30.77	29.60	0.900	0.92	ES19	Viltres et al. (2022)
44.8933	27.8617	0.23	-0.70	29.37	27.44	0.930	1.09	ES20	Viltres et al. (2022)
49.5658	25.3558	-0.95	-0.17	30.94	29.70	0.480	0.42	ES96	Viltres et al. (2022)
48.8339	25.8489	-0.37	0.39	31.03	30.00	0.720	0.72	ES97	Viltres et al. (2022)
49.5308	26.2653	-0.38	0.13	30.91	29.98	1.120	1.11	ES99	Viltres et al. (2022)
41.3828	19.0426	-0.26	-0.03	34.18	26.70	0.700	0.68	GOOZ	Viltres et al. (2022)
42.543	16.8808	-1.04	-0.42	34.94	26.80	0.510	0.42	GZAN	Viltres et al. (2022)
34.9284	29.0553	-0.12	-0.78	25.98	23.08	0.350	0.35	HAQS	Viltres et al. (2022)
41.1795	27.3707	-0.06	0.46	28.61	27.10	0.870	0.87	HL01	Viltres et al. (2022)
42.903	28.2409	-0.15	0.58	28.27	27.93	0.950	0.9	HL02	Viltres et al. (2022)
41.4924	26.8745	1.02	-0.62	30.12	26.15	0.580	0.9	HL05	Viltres et al. (2022)
42.2343	26.5749	-0.18	0.55	29.29	27.63	0.510	0.61	HL95	Viltres et al. (2022)
42.1817	27.0292	-0.76	-0.37	28.37	26.69	0.300	0.3	HL96	Viltres et al. (2022)
42.4779	27.4327	0.35	0.57	29.26	27.75	0.730	0.68	HL97	Viltres et al. (2022)
44.011	36.16	0.82	0.82	23.57	28.60	0.630	0.6	ISER	Viltres et al. (2022)
44.353	32.013	0.02	0.18	26.02	28.10	0.420	0.3	ISNA	Viltres et al. (2022)
43.673	34.601	0.10	0.14	23.96	27.79	0.840	0.84	ISSD	Viltres et al. (2022)
39.631	21.3692	0.16	0.02	32.78	26.01	0.420	0.3	JEDD	Viltres et al. (2022)
42.1036	16.6992	-0.52	-0.22	35.51	26.82	0.360	0.32	JIZN	Viltres et al. (2022)
40.1976	29.9618	0.07	0.10	26.60	26.32	0.730	0.61	JOUF	Viltres et al. (2022)
40.0197	29.7771	1.01	-0.18	27.64	25.96	0.660	0.7	JW01	Viltres et al. (2022)
41.4432	29.2506	0.06	0.91	27.41	27.66	0.600	0.42	JW02	Viltres et al. (2022)
38.4268	29.7778	0.49	-0.98	26.77	24.47	0.690	0.73	JW03	Viltres et al. (2022)
41.8211	16.829	0.14	-0.90	36.05	26.02	0.810	0.65	JZ02	Viltres et al. (2022)
42.2269	17.6403	-0.28	-0.95	35.18	26.14	0.720	0.66	JZ03	Viltres et al. (2022)
42.6795	17.4915	-0.05	0.43	35.57	27.70	1.030	0.81	JZ04	Viltres et al. (2022)
48.4608	28.484	0.14	-0.60	29.69	28.87	0.660	0.58	KAFJ	Viltres et al. (2022)
41.8291	19.0962	-0.19	0.02	34.29	26.94	0.570	0.55	MAJR	Viltres et al. (2022)
37.6064	24.3507	-0.06	0.42	30.11	25.51	0.700	0.73	MD02	Viltres et al. (2022)
39.3013	25.6466	-0.85	-0.77	28.70	25.07	1.050	0.95	MD03	Viltres et al. (2022)
40.8928	23.4895	-0.16	0.40	31.22	26.92	0.730	0.69	MD04	Viltres et al. (2022)
39.7155	24.4806	-0.15	0.89	30.31	26.91	0.660	0.61	MD15	Viltres et al. (2022)
39.5453	23.217	-0.09	-0.14	31.24	25.81	0.890	0.66	MD99	Viltres et al. (2022)
39.2746	20.9886	-0.18	0.95	32.64	26.78	0.700	0.68	MK01	Viltres et al. (2022)
39.0955	22.7611	-0.56	0.62	31.01	26.37	0.450	0.68	MK02	Viltres et al. (2022)
41.0803	19.1679	0.38	0.03	34.70	26.64	0.980	0.81	MK03	Viltres et al. (2022)
40.5341	20.7071	-0.49	-0.63	32.73	25.74	1.400	1.16	MK04	Viltres et al. (2022)
40.4403	21.8307	-0.08	0.01	32.36	26.34	0.550	0.55	MK05	Viltres et al. (2022)
42.0274	21.9067	1.02	-0.94	33.68	26.06	0.290	0.27	MK06	Viltres et al. (2022)
42.35	23.4121	-0.22	0.93	31.48	28.06	0.610	0.58	MK07	Viltres et al. (2022)
41.6678	22.9358	1.03	0.69	32.93	27.54	0.870	0.77	MK08	Viltres et al. (2022)
41.6952	20.7734	0.47	-0.11	33.83	26.75	0.930	1.6	MK76	Viltres et al. (2022)
41.2028	20.9294	1.00	-0.49	34.18	26.17	0.680	1.01	MK77	Viltres et al. (2022)
41.017	21.8785	-0.07	0.16	32.44	26.74	0.750	0.7	MK82	Viltres et al. (2022)
40.2653	20.1325	0.03	0.49	33.59	26.75	0.870	0.69	MK85	Viltres et al. (2022)
40.139	20.8383	0.28	-0.50	33.34	25.71	0.650	0.75	MK86	Viltres et al. (2022)
39.7213	20.4477	0.30	0.75	33.56	26.78	0.420	0.55	MK87	Viltres et al. (2022)
39.9154	21.1085	0.24	-0.24	33.09	25.87	0.730	0.96	MK88	Viltres et al. (2022)
40.8343	21.3533	-0.27	0.14	32.56	26.64	0.460	0.39	MK89	Viltres et al. (2022)

Table S5. continued

Lon (°)	Lat (°)	V_E wrt Arabia (mm/yr)	V_N wrt Arabia (mm/yr)	V_E wrt ITRF14 (mm/yr)	V_N wrt ITRF14 (mm/yr)	σ_E (mm/yr)	σ_N (mm/yr)	Site ID	Study
40.3977	21.2823	-0.11	-0.20	32.70	26.12	0.700	1.14	MK90	Viltres et al. (2022)
39.9563	21.5628	-0.47	0.38	32.07	26.51	0.690	0.84	MK91	Viltres et al. (2022)
40.0218	22.0841	-0.78	0.18	31.42	26.33	0.810	0.65	MK92	Viltres et al. (2022)
39.3715	21.9713	-0.51	0.47	31.65	26.34	0.700	0.6	MK93	Viltres et al. (2022)
39.6294	22.579	-0.71	2.04	31.08	28.02	0.890	0.78	MK94	Viltres et al. (2022)
38.842	23.1176	-1.07	0.03	30.20	25.67	0.900	0.8	MK95	Viltres et al. (2022)
39.1135	22.2805	-0.76	0.17	31.15	25.93	0.610	0.7	MK96	Viltres et al. (2022)
39.2429	21.5561	-0.33	-0.14	32.10	25.68	0.570	0.46	MK97	Viltres et al. (2022)
39.5401	21.4513	0.53	-0.30	33.08	25.65	0.490	0.17	MK98	Viltres et al. (2022)
39.1282	21.762	0.31	0.00	32.58	25.77	0.580	0.49	MK99	Viltres et al. (2022)
49.1285	14.5438	-0.51	0.81	37.69	30.54	0.690	0.54	MUKA	Viltres et al. (2022)
46.2324	24.4731	-0.42	0.71	31.33	29.37	0.660	0.45	MUZH	Viltres et al. (2022)
40.9099	31.0251	0.55	-0.06	26.44	26.46	0.540	0.61	NB01	Viltres et al. (2022)
43.5554	29.6429	0.83	-0.36	28.38	27.25	0.610	0.87	NB02	Viltres et al. (2022)
39.1982	32.1384	0.64	-0.43	25.27	25.36	0.730	0.7	NB03	Viltres et al. (2022)
44.1942	17.5187	-0.50	-0.93	35.32	26.95	0.870	0.8	NJ01	Viltres et al. (2022)
44.205	18.5335	-0.42	-0.36	34.78	27.52	0.850	0.72	NJ02	Viltres et al. (2022)
45.1035	18.967	-1.02	-0.63	34.05	27.60	0.660	0.6	NJ03	Viltres et al. (2022)
51.1019	18.8979	-0.52	0.33	35.58	30.73	0.930	0.75	NJ05	Viltres et al. (2022)
50.1162	26.4256	-0.34	0.18	30.98	30.24	0.300	0.22	QATD	Viltres et al. (2022)
37.9275	27.8551	0.30	0.37	27.94	25.60	0.480	0.45	QLAB	Viltres et al. (2022)
42.6454	25.1079	0.27	0.14	30.86	27.39	0.450	0.45	QS02	Viltres et al. (2022)
44.0945	26.992	0.68	0.94	30.26	28.77	1.360	1.65	QS04	Viltres et al. (2022)
43.9478	25.6098	0.59	-0.74	31.10	27.03	0.570	0.6	QS07	Viltres et al. (2022)
44.5891	25.8312	-0.47	-0.13	30.02	27.90	0.650	0.63	QS95	Viltres et al. (2022)
43.3547	25.5609	-0.49	-0.03	29.93	27.51	0.520	0.55	QS96	Viltres et al. (2022)
43.2906	26.0334	-0.77	-0.42	29.31	27.09	0.610	0.61	QS97	Viltres et al. (2022)
46.7563	24.6804	-0.32	0.61	31.40	29.47	0.450	0.39	RIYD	Viltres et al. (2022)
46.363	24.9173	-0.32	0.26	31.16	28.97	0.730	0.72	RY01	Viltres et al. (2022)
46.1658	25.3256	0.37	0.67	31.54	29.30	0.570	0.45	RY02	Viltres et al. (2022)
48.0589	24.2066	0.14	-0.14	32.45	29.19	0.610	0.45	RY03	Viltres et al. (2022)
46.1491	26.1319	0.22	-0.46	30.84	28.17	0.520	0.6	RY04	Viltres et al. (2022)
45.6155	23.5755	-0.41	-0.82	31.81	27.61	0.770	0.54	RY05	Viltres et al. (2022)
43.9196	23.4039	-0.23	-0.12	31.78	27.64	0.550	0.54	RY07	Viltres et al. (2022)
44.89	20.4237	0.08	-0.41	34.21	27.74	0.630	0.45	RY09	Viltres et al. (2022)
46.6488	25.1561	0.34	-0.42	31.72	28.39	0.920	0.9	RY10	Viltres et al. (2022)
47.0941	23.5562	0.02	-0.56	32.55	28.42	0.490	0.3	RY11	Viltres et al. (2022)
47.5172	24.1876	0.20	-0.75	32.40	28.39	0.570	0.45	RY13	Viltres et al. (2022)
43.2337	24.5572	0.52	-0.13	31.61	27.36	0.520	0.6	RY15	Viltres et al. (2022)
47.2334	26.3678	-0.22	0.32	30.48	29.35	0.690	0.72	RY18	Viltres et al. (2022)
44.1838	24.2643	0.10	0.20	31.58	28.07	0.580	0.45	RY70	Viltres et al. (2022)
44.2864	24.7208	0.00	0.08	31.19	27.99	0.600	0.58	RY72	Viltres et al. (2022)
43.6843	24.6729	0.06	-0.20	31.16	27.47	0.690	0.6	RY73	Viltres et al. (2022)
43.4793	25.1413	-0.50	-0.90	30.24	26.69	0.720	0.78	RY74	Viltres et al. (2022)
44.8216	26.2477	-0.14	0.92	30.11	29.04	0.550	0.66	RY75	Viltres et al. (2022)
46.4906	23.2153	-0.61	0.17	32.02	28.93	0.550	0.49	RY77	Viltres et al. (2022)
47.1725	24.3039	-0.60	0.09	31.46	29.10	0.680	0.61	RY82	Viltres et al. (2022)
46.8351	24.4013	0.08	0.16	32.00	29.05	0.540	0.45	RY83	Viltres et al. (2022)
46.2939	24.0232	-0.76	-0.01	31.30	28.67	0.450	0.52	RY84	Viltres et al. (2022)
44.7592	23.7603	-0.71	0.02	31.22	28.11	0.780	0.73	RY85	Viltres et al. (2022)

Table S5. continued

Lon (°)	Lat (°)	V_E wrt Arabia (mm/yr)	V_N wrt Arabia (mm/yr)	V_E wrt ITRF14 (mm/yr)	V_N wrt ITRF14 (mm/yr)	σ_E (mm/yr)	σ_N (mm/yr)	Site ID	Study
45.2738	24.0608	-0.19	-0.02	31.64	28.27	0.460	0.48	RY86	Viltres et al. (2022)
45.8117	24.3444	-0.26	-0.11	31.49	28.39	0.450	0.48	RY87	Viltres et al. (2022)
45.2548	24.6136	0.16	0.33	31.62	28.62	0.510	0.45	RY89	Viltres et al. (2022)
45.8634	24.9211	-0.09	-0.10	31.29	28.42	0.480	0.39	RY90	Viltres et al. (2022)
45.2397	25.2371	-0.19	-0.06	30.84	28.22	0.510	0.46	RY91	Viltres et al. (2022)
45.418	25.8618	-0.07	0.13	30.58	28.48	0.510	0.51	RY92	Viltres et al. (2022)
46.5521	25.6886	-0.39	0.16	30.62	28.94	0.480	0.48	RY93	Viltres et al. (2022)
45.7944	25.5954	0.08	-0.21	30.99	28.28	0.520	0.45	RY94	Viltres et al. (2022)
47.1558	25.5707	-0.64	-0.45	30.58	28.55	0.550	0.55	RY95	Viltres et al. (2022)
47.5557	25.103	-0.37	-0.42	31.24	28.73	0.680	0.69	RY96	Viltres et al. (2022)
46.9967	24.9294	0.00	0.26	31.61	29.20	0.840	0.75	RY97	Viltres et al. (2022)
46.6942	24.6741	-0.29	0.13	31.42	28.96	0.570	0.48	RY99	Viltres et al. (2022)
47.1171	17.4864	-0.38	-0.11	35.89	28.89	0.270	0.22	SHAR	Viltres et al. (2022)
46.5592	22.0279	0.37	-0.30	33.78	28.49	0.320	0.45	SHML	Viltres et al. (2022)
35.2433	28.0369	-0.84	-0.72	26.12	23.29	0.830	0.81	SHRM	Viltres et al. (2022)
58.1763	23.5849	-0.26	0.15	34.62	32.67	0.410	0.3	SQUO	Viltres et al. (2022)
36.4769	28.381	-0.13	-0.33	26.81	24.25	0.390	0.52	TB01	Viltres et al. (2022)
34.7401	28.4046	-0.51	-0.92	26.06	22.85	0.510	0.6	TB03	Viltres et al. (2022)
35.5417	27.5659	0.49	-0.11	27.87	24.04	0.540	0.6	TB04	Viltres et al. (2022)
36.3686	26.3669	0.35	-0.32	28.80	24.21	0.610	0.75	TB05	Viltres et al. (2022)
36.5502	28.2292	-0.06	0.48	27.01	25.09	0.410	0.52	TBKS	Viltres et al. (2022)
36.5641	28.4095	0.15	0.25	27.09	24.87	0.240	0.15	TBUK	Viltres et al. (2022)
56.1123	22.1865	-1.08	-0.14	34.13	31.81	0.220	0.2	YIBL	Viltres et al. (2022)
37.9564	24.1562	-0.39	-0.72	29.98	24.53	0.360	0.32	YNBU	Viltres et al. (2022)
44.2068	15.3926	0.35	0.68	37.44	28.57	0.540	0.45	YRS1	Viltres et al. (2022)
35.899	34.466	-1.29	-2.61	20.69	21.69	0.840	0.85	ADAS	Gomez et al. (2020)
36.156	34.882	-0.94	-1.49	20.76	22.93	0.730	0.72	AJSH	Gomez et al. (2020)
35.532	33.323	-2.86	-4.05	19.96	20.08	1.410	1.46	ARNA	Gomez et al. (2020)
35.496	33.89	-0.90	-3.54	21.45	20.58	0.600	0.61	B6HF	Gomez et al. (2020)
36.091	35.247	-0.77	-2.35	20.61	22.04	0.720	0.72	BATH	Gomez et al. (2020)
36.204	35.09	-0.76	-1.59	20.78	22.85	0.730	0.73	BNAB	Gomez et al. (2020)
36.818	32.156	1.29	1.47	25.35	26.20	0.850	0.85	BSHR	Gomez et al. (2020)
35.588	33.742	-2.70	-2.41	19.80	21.75	0.920	0.92	CHAR	Gomez et al. (2020)
36.27	35.215	-0.72	-2.20	20.73	22.27	0.770	0.77	DALY	Gomez et al. (2020)
36.104	35.598	-1.77	-2.42	19.33	21.98	0.770	0.78	DOHA	Gomez et al. (2020)
35.748	34.352	-3.12	-2.66	18.91	21.57	0.960	0.99	ENFE	Gomez et al. (2020)
35.2	30.214	2.53	-0.81	27.78	23.17	1.750	1.72	FGFZ	Gomez et al. (2020)
35.829	34.015	-1.28	-2.94	21.05	21.33	0.680	0.68	FRYA	Gomez et al. (2020)
36.084	34.461	-1.00	-2.63	21.03	21.76	0.840	0.84	HABT	Gomez et al. (2020)
35.762	34.089	-2.60	-3.53	19.65	20.71	0.900	0.9	HAYT	Gomez et al. (2020)
36.033	34.915	-0.82	-2.18	20.82	22.18	0.700	0.72	HBAB	Gomez et al. (2020)
35.731	33.802	-1.52	-3.17	20.96	21.06	1.410	1.41	HMNA	Gomez et al. (2020)
35.401	33.641	-1.97	-3.62	20.56	20.45	1.010	1.02	JIYE	Gomez et al. (2020)
35.579	33.545	-1.19	-3.26	21.46	20.90	0.900	0.9	JZIN	Gomez et al. (2020)
35.674	34.115	-1.70	-3.59	20.51	20.61	0.460	0.45	LAUG	Gomez et al. (2020)
35.954	34.838	-1.12	-2.68	20.57	21.65	0.700	0.7	MJDL	Gomez et al. (2020)
36.269	34.885	-1.29	-2.63	20.43	21.84	0.720	0.72	MSHT	Gomez et al. (2020)
35.162	33.149	-0.68	-4.32	22.20	19.64	1.060	1.09	RBDA	Gomez et al. (2020)
35.197	30.202	-0.64	-2.44	24.61	21.54	2.250	2.23	RSH3	Gomez et al. (2020)
35.809	35.523	-2.79	-2.62	18.30	21.64	1.060	1.06	TUAB	Gomez et al. (2020)

Table S5. continued

Lon (°)	Lat (°)	V_E wrt Arabia (mm/yr)	V_N wrt Arabia (mm/yr)	V_E wrt ITRF14 (mm/yr)	V_N wrt ITRF14 (mm/yr)	σ_E (mm/yr)	σ_N (mm/yr)	Site ID	Study
35.302	33.365	-0.17	-3.84	22.57	20.19	1.520	1.58	ZARA	Gomez et al. (2020)
37.634	35.8	1.46	1.00	22.77	26.09	1.080	0.77	AKIL	Gomez et al. (2020)
39.336	37.636	-0.84	0.63	19.42	26.47	1.360	1.46	AKTP	Gomez et al. (2020)
35.922	33.74	-1.18	-2.17	21.39	22.14	0.780	0.78	ANJR	Gomez et al. (2020)
35.019	29.528	-2.22	-1.23	23.53	22.67	1.060	1.06	AQBA	Gomez et al. (2020)
36.467	34.174	-0.75	-1.52	21.60	23.04	0.950	0.96	ARSL	Gomez et al. (2020)
36.4	33.879	0.19	-0.74	22.76	23.79	0.800	0.8	ASAL	Gomez et al. (2020)
37.648	32.333	0.06	-0.23	24.17	24.87	0.960	0.99	ASGF	Gomez et al. (2020)
35.695	30.239	-1.95	0.60	23.38	24.81	1.160	1.14	BALQ	Gomez et al. (2020)
36.754	34.914	-0.56	-0.57	21.26	24.12	0.770	0.75	BLAN	Gomez et al. (2020)
36.343	34.957	-1.64	-1.60	20.04	22.91	0.730	0.73	BMRA	Gomez et al. (2020)
36.404	34.948	2.14	1.38	23.84	25.91	0.700	1.26	BREN	Gomez et al. (2020)
39.1	37.863	-0.41	0.73	19.60	26.46	1.810	1.71	BUCK	Gomez et al. (2020)
36.708	34.713	-0.85	0.25	21.12	24.92	1.050	1.05	BUSF	Gomez et al. (2020)
35.911	33.759	-1.45	-2.41	21.11	21.90	0.630	0.63	CG29	Gomez et al. (2020)
37.093	37.46	-1.21	-1.30	18.60	23.54	0.780	0.77	CNRT	Gomez et al. (2020)
35.58	30.698	1.61	-0.43	26.55	23.73	0.840	0.83	DANA	Gomez et al. (2020)
35.691	32.501	-0.52	-0.91	23.00	23.30	1.050	1.05	DASK	Gomez et al. (2020)
38.757	36.461	-1.23	-0.75	19.84	24.84	0.870	0.84	DBSS	Gomez et al. (2020)
35.659	30.897	-0.67	-0.46	24.13	23.74	1.080	1.08	DBUS	Gomez et al. (2020)
36.419	35.118	-0.65	-1.98	20.92	22.56	0.770	0.77	DERS	Gomez et al. (2020)
35.572	31.249	-0.52	-0.86	23.98	23.30	0.770	0.75	DRAA	Gomez et al. (2020)
35.456	30.907	-1.61	-1.99	23.14	22.11	0.930	0.92	FIFA	Gomez et al. (2020)
38.901	37.968	0.11	1.65	19.98	27.30	1.420	1.5	GNDM	Gomez et al. (2020)
35.583	33.337	1.26	-2.84	24.08	21.32	1.440	1.52	GRLN	Gomez et al. (2020)
35.676	32.333	1.20	-1.91	24.86	22.29	1.800	1.86	HALA	Gomez et al. (2020)
36.508	36.146	-1.58	-1.92	19.17	22.66	0.780	0.78	HARM	Gomez et al. (2020)
36.57	35.638	-0.77	-1.17	20.41	23.44	0.770	0.77	HASS	Gomez et al. (2020)
36.909	37.343	-0.76	-0.94	19.10	23.82	0.870	0.84	HBBT	Gomez et al. (2020)
35.721	33.373	-2.42	-1.59	20.41	22.63	1.480	1.52	HIBA	Gomez et al. (2020)
36.503	34.965	-0.89	-1.39	20.82	23.19	0.780	0.77	HMRY	Gomez et al. (2020)
36.111	33.781	0.54	-0.99	23.13	23.41	0.730	0.75	HOOR	Gomez et al. (2020)
36.974	36.233	-0.79	-0.87	20.00	23.92	0.800	0.8	HOWR	Gomez et al. (2020)
36.369	34.412	-0.21	-1.66	21.92	22.86	0.990	0.99	HRML	Gomez et al. (2020)
36.189	32.107	-1.05	-0.07	22.90	24.37	0.870	0.9	HUG1	Gomez et al. (2020)
35.88	33.859	-1.71	-2.25	20.76	22.04	0.680	0.68	HZRT	Gomez et al. (2020)
36.041	32.343	1.09	-2.46	24.82	21.91	2.110	2.08	IRHB	Gomez et al. (2020)
36.368	30.68	-0.44	-0.06	24.69	24.46	1.060	1.05	JAFR	Gomez et al. (2020)
35.915	32.294	-0.39	0.02	23.35	24.33	0.730	0.72	JASH	Gomez et al. (2020)
37.869	34.643	0.03	0.48	22.34	25.68	0.770	0.77	JHAR	Gomez et al. (2020)
36.881	35.649	-0.80	-0.74	20.45	24.01	0.780	0.78	KATR	Gomez et al. (2020)
38.437	33.571	0.35	0.41	23.66	25.86	0.800	0.78	KBDD	Gomez et al. (2020)
36.578	35.449	-0.82	-1.27	20.52	23.34	0.770	0.77	KHAS	Gomez et al. (2020)
37.716	36.246	-1.29	-0.92	19.68	24.21	0.810	0.81	KHBZ	Gomez et al. (2020)
35.902	33.531	-2.48	-1.66	20.26	22.65	1.620	1.68	KOUK	Gomez et al. (2020)
38.481	35.782	-0.89	-0.54	20.66	24.93	0.840	0.84	KRIN	Gomez et al. (2020)
35.588	31.968	-0.79	-3.30	23.14	20.86	2.070	2.07	KRMA	Gomez et al. (2020)
35.761	33.516	-1.17	-2.01	21.55	22.23	0.800	0.8	MCHK	Gomez et al. (2020)
35.755	30.178	-2.01	1.36	23.38	25.60	2.340	2.34	MDUA	Gomez et al. (2020)
35.565	31.426	-1.96	-1.37	22.40	22.78	1.090	1.08	MJBG	Gomez et al. (2020)

Table S5. continued

Lon (°)	Lat (°)	V_E wrt Arabia (mm/yr)	V_N wrt Arabia (mm/yr)	V_E wrt ITRF14 (mm/yr)	V_N wrt ITRF14 (mm/yr)	σ_E (mm/yr)	σ_N (mm/yr)	Site ID	Study
36.55	34.059	-0.09	-0.72	22.37	23.88	0.780	0.78	MSHR	Gomez et al. (2020)
35.632	32.158	0.10	-1.88	23.89	22.30	0.750	0.75	MUD2	Gomez et al. (2020)
35.403	30.469	-0.71	-0.52	24.38	23.56	1.050	1.05	NAML	Gomez et al. (2020)
35.433	30.086	1.14	-0.06	26.54	24.03	1.240	1.23	NAQB	Gomez et al. (2020)
35.739	31.766	-1.41	0.56	22.72	24.79	3.130	3.17	NEB2	Gomez et al. (2020)
35.602	31.644	-0.67	-1.43	23.52	22.74	1.140	1.14	PANO	Gomez et al. (2020)
35.403	30.621	-1.47	-1.61	23.50	22.47	1.050	1.03	QIRA	Gomez et al. (2020)
35.34	29.81	-1.01	-1.05	24.58	23.00	0.960	0.95	QURA	Gomez et al. (2020)
36.681	36.664	-2.12	-2.39	18.24	22.27	0.850	0.83	RAJO	Gomez et al. (2020)
35.151	29.907	-0.62	-1.93	24.86	22.03	0.920	0.9	RAMA	Gomez et al. (2020)
39.009	35.951	-2.41	-1.16	19.14	24.54	1.420	1.42	RAQA	Gomez et al. (2020)
36.224	31.394	0.82	1.44	25.35	25.90	1.840	1.84	RDTB	Gomez et al. (2020)
36.01	33.625	-0.65	-0.86	22.04	23.49	0.700	0.72	ROZA	Gomez et al. (2020)
35.922	31.514	0.14	-1.65	24.51	22.67	1.020	0.99	RSAS	Gomez et al. (2020)
36.913	32.702	0.10	0.24	23.74	25.01	0.690	0.69	RSHD	Gomez et al. (2020)
35.426	29.63	-0.25	-0.77	25.50	23.32	1.290	1.27	RUMM	Gomez et al. (2020)
35.514	31.078	-0.78	-1.45	23.85	22.68	1.060	1.05	SAFI	Gomez et al. (2020)
36.966	35.049	-0.04	-0.43	21.72	24.36	0.730	0.72	SALM	Gomez et al. (2020)
36.051	33.613	0.12	-0.79	22.83	23.58	0.750	0.77	SOBA	Gomez et al. (2020)
36.573	34.934	-0.60	-0.77	21.16	23.84	0.730	0.73	TELF	Gomez et al. (2020)
36.235	33.86	-1.39	-1.19	21.16	23.27	0.850	0.87	TFEL	Gomez et al. (2020)
36.562	31.319	-0.98	-0.30	23.68	24.31	0.990	1.01	TUBA	Gomez et al. (2020)
36.285	33.51	-0.96	-1.17	21.89	23.31	0.490	0.52	UDMC	Gomez et al. (2020)
35.359	30.176	-0.43	-1.19	24.88	22.87	1.060	1.03	WADR	Gomez et al. (2020)
35.872	31.617	-2.33	0.86	21.94	25.15	2.490	2.34	ZFRN	Gomez et al. (2020)
36.523	37.279	-1.37	-3.26	18.44	21.32	0.690	0.69	DZCT	Gomez et al. (2020)
36.807	37.414	-2.11	-1.88	17.66	22.83	0.730	0.77	TRKT	Gomez et al. (2020)

FIG. S1 - CHECKERBOARD TEST SOLUTION

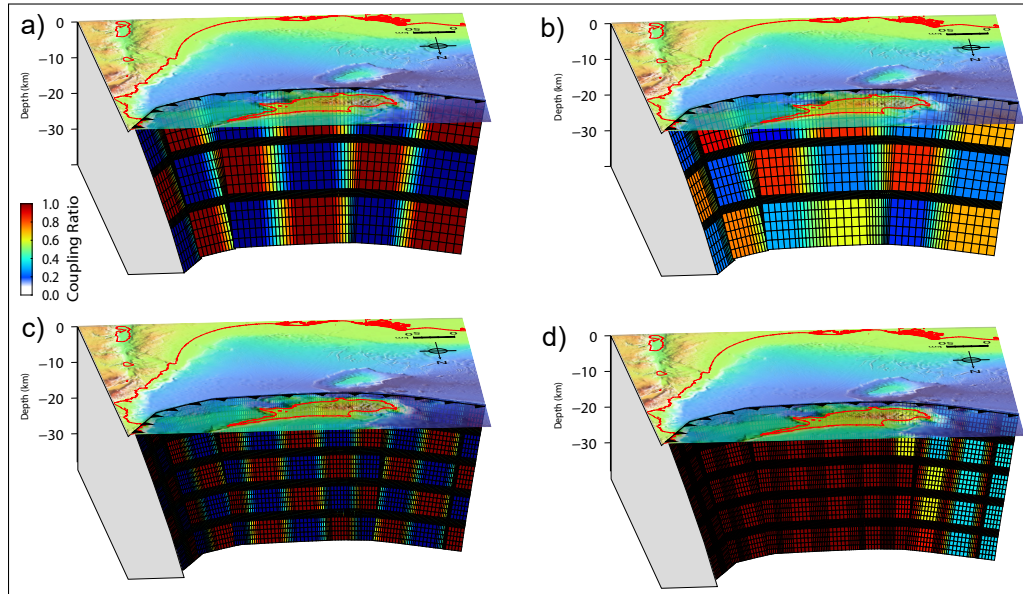


Fig. S1. The checkerboard test was performed to validate the model coupling distribution. Figures a and c show the forward model results for low and high-resolution patterns, respectively. The red areas indicate full coupling, while the blue areas indicate freely slipping. Figures b and d show the inversion results for the low and high-resolution patterns, respectively. Ideally, the same pattern should be obtained in figures a and c.

FIG. S2 - BLOCK MODEL COMPARISON - 1ST MODEL OUTCOMES

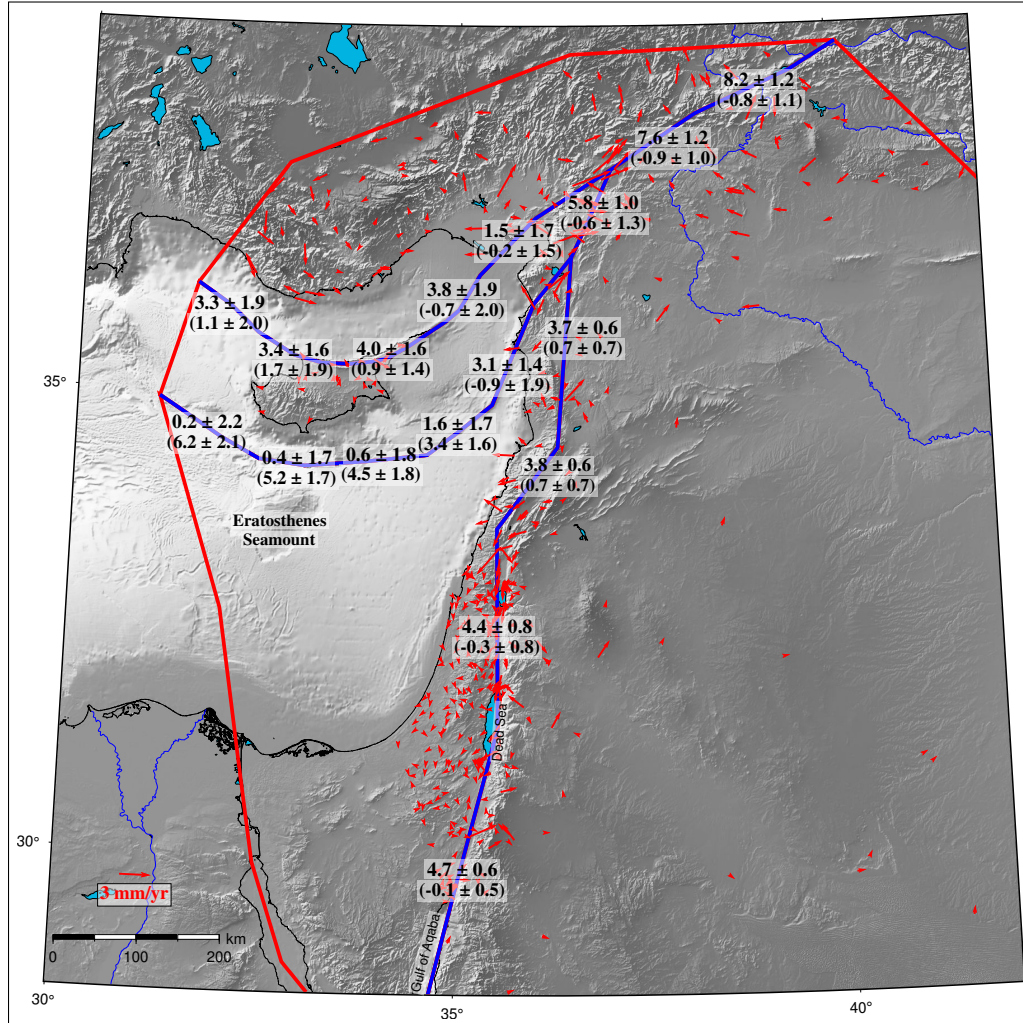


Fig. S2. Residual velocities and slip rates that correspond to model 1. This model aims to test by implementing the geometry proposed by Özkan et al. [5] particularly for the northeast boundary of the model.

FIG. S3 - BLOCK MODEL COMPARISON - 2ND MODEL OUTCOMES

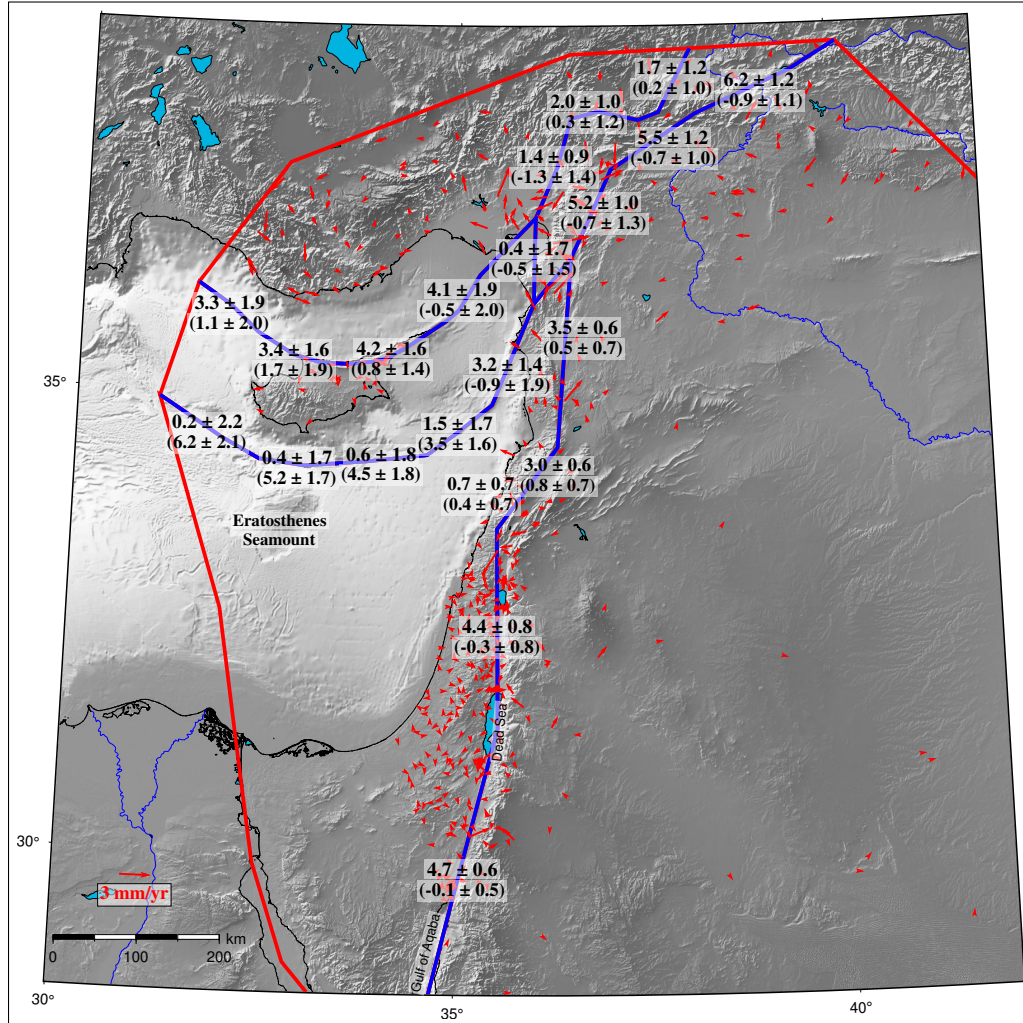


Fig. S3. Residual velocities and slip rates that correspond to model 2. Model 2 is the slightly simplified version of the best-fitting model presented in the main text. Merging the Latakia block into the Sinai block is the only difference between the two models.

REFERENCES

1. Gomez, F., Cochran, W.J., Yassminh, R., Jaafar, R., Reilinger, R., Floyd, M., King, R.W., Barazangi, M., 2020. Fragmentation of the Sinai Plate indicated by spatial variation in present-day slip rate along the Dead Sea Fault System. *Geophysical Journal International* 221, 1913–1940. doi:<https://doi.org/10.1093/gji/ggaa095>.
2. Hamiel, Y., Piatibratova, O., 2021. Spatial Variations of Slip and Creep Rates Along the Southern and Central Dead Sea Fault and the Carmel–Gilboa Fault System. *Journal of Geophysical Research: Solid Earth* 126, e2020JB021585. doi:<https://doi.org/10.1029/2020JB021585>.
3. Kurt, I.A., Özbakir, D.A., Cingoz, A., Ergintav, S., Dogan, U., Özarpaci, S., 2022. Contemporary velocity field for Turkey inferred from combination of a dense network of long term GNSS observations. *Turkish Journal of Earth Sciences* doi:<https://doi.org/10.55730/yer-2203-13>.
4. Viltres, R., Jónsson, S., Alothman, A.O., Liu, S., Leroy, S., Masson, F., Doubre, C., Reilinger, R., 2022. Present-Day Motion of the Arabian Plate. *Tectonics* 41, e2021TC007013. doi:<https://doi.org/10.1029/2021TC007013>.
5. Özkan, A., Yavaşoğlu, H.H., Masson, F., 2023. Present-day strain accumulations and fault kinematics at the Hatay Triple Junction using new geodetic constraints. *Tectonophysics* 854, 229819. doi:<https://doi.org/10.1016/j.tecto.2023.229819>.