

STRUCTURAL DOMAIN	Fault number	Faults and systems	Approximate fault length (km)	slip mode	Age of oldest recorded displacement	Faulted markers (H/F)	Approximate largest cumulative vertical displacement (m)	Approximate long term slip rate derived from total offset (mm/yr)	Age of youngest recorded displacement	Youngest faulted marker (see Figure 2)	Approximate vertical displacement across youngest markers (m)	Approximate short term slip rate derived from youngest offset (mm/yr)	References	Historical earthquakes and instrumental seismicity on or nearby the fault (numbers as in Table S2)
SD 2														
West-dipping	1	Groppodoliosio-Compione-Comano	40	N (NS)	Early Pliocene	L-sbL /Mg	> 2000	0,4	Late Pleistocene	Iera Congl./KnpH	20/103	0,2/0,8-0,6	[59,66,73,78]	11,13, 26
	2	Arzengio-Bagnone	25	N	Early Pleistocene	L-sbL /Mg	600	0,2	Late Pleistocene	Iera Congl.	20	0,2	[59,66]	36,39
	3	Mocrone-Licciana-(Fivizzano)	30	N	mid Early Pleist.	L-sbL /Mg	400	0,2	Middle Pleistocene	MGV Congl.	100	0,3	[59,66,67]	45
East-dipping	4	Coloretta-Parana-Podenzana	35	N	Early Pleistocene	L-sbL /Mg	700	0,3	Late Pleistocene-Holocene	nc	nc	nc	[59]	37
	5	Arzelato-Mulazzo-Tresana-Aulla	25	N	Early Pleistocene	L-sbL /Mg	1000	0,2	late Middle Pleist. - Holoc.	alluvial dep.	9	0,4-0,7	[68,69]	13
SD 3														
Sub-Domain North														
East-dipping	6	Gorfigliano-Vagli	15	N	Early Pliocene	Mg/L Tr-eJ	1500	0,3	Middle Pleistocene	MAC Congl.	200	0,6	[77,86]	48
	7	Casciana-Sillicano	15	N	Late Pliocene	L-sbL /Mg	400	0,1	Late Pleistocene	alluvial dep.	70	0,5	[56,60,64,66]	48
West-dipping	8	Verrucole-S.Romano	17	N	Late Pliocene	L-sbL /Mg	400	0,1	Late Pleistocene-Holocene	alluvial dep.	18	0,1	[56,77,83]	34
	9	Sillano-Corfino	17	N (ND)	Early Pleistocene	Mg/L Tr-eJ	600	0,2	Late Pleistocene-Holocene	alluvial dep./KnpH	20/64	0,2/0,5-0,4	[56,66,73,77]	17,34,1985
	10	Mt.Prado	12	N	nc	Mg/L J-KT	320	nc	post-LGM	nc	nc	nc	[66,77]	15,42
"M.Perpoli"	11	M.Perpoli bounding Faults	10	OS (ND)	nc	L-sbL /Mg	> 250	nc	Middle Pleist.-Holocene	alluvial dep.	150	0,4	[66,77,82,83]	17,34,41,1985,2013
Sub-Domain South														
West-dipping	12	Foce Fobi-Mt.Uccelliera-Mt.Mosca	14	N	nc	Mg/L J-KT	250	nc	nc	nc	nc	nc	[56,66,77]	
	13	Foggeta-Coronato-Mt.Memoriant	17	N	nc	Mg/Mg	300	nc	nc	nc	nc	nc	[56,66,77]	
	14	Barga	12	N	early Pliocene	Mg/L J-KT	700	0,1	Late Pleistocene-Holocene	KnpH	80	0,6	[56,66,73,77]	17,34,41
East-dipping	15	Bolognana-Giovinano	12	N	early Pliocene	Mg/L J-KT	1500	0,3	Late Pleistocene-Holocene	KnpH	39	0,3	[56,66,73,77]	17,34
	16	Borgo a Mozzano	10	N		Mg/L J-KT	150	nc	nc	nc	nc		[56,77]	5,31
	17	Pescaglia-Valdottavo	25	N	early Pliocene ?	Mg/L J-KT	750	0,2	nc	nc	nc		[56,77]	
SD2-SD3 Link. Domain														
	18_a	Fosdinovo	5	OS (ND)	early Pliocene	L-sbL /Mg	700	0,1	nc	nc	nc	nc	[50,58,89]	1955
	18_b	Tenerano-Marciaso	10	OS (ND)	early Pliocene	Mg/metTU	2000	0,4	nc	nc	nc	nc	[50,57,58,66]	
	18_c	Aiola-Equi Terme	6	OS (ND)	early Pliocene	Mg/metTU	3000	0,6	Middle Pleistocene	Lupacino Congl.	300	0,4	[50,57,87,89]	7,20,27,35,43,47,2013
	19	Ponzanello-Tendola	9	OS (ND)	early Pliocene	L-sbL /Mg	600	0,1	Late Pleistocene	MGV Congl.	50	0,4	[50,59,72]	21,1995
	20	Gorasco - S.Terenzo M.	7	OS (ND)	nc	L-sbL /L-sbL	nc	nc	Late Pleistocene	MGV Congl.	20	0,2	[59,72]	21,1995
	21	Olivola-Soliera	12	N(D)	Early Pleistocene	L-sbL /L-sbL	180	0,2	Late Pleistocene	alluvial dep.	50	0,4	[59,66,73]	30,1955
	22	Gramolazzo		OS (ND)	Early Pliocene	L-sbL /Mg	nc	nc	Late Pleistocene	alluvial dep.	nc	nc	[86]	
SD4														
	23	Mt.Albano	> 20	NS	Early-Mid.Plioc(Pleist.)	L-sbL /Mg	1000(600)	0,2(0,2)	mid Early Pleistocene	Marginone fm.	150	0,2	[92,94]	
	24	Montecatini-Ponte a Moriano	20	ND	Early-Middle Plioc.	L-sbL /Mg	1000	0,2	Middle-Late Pleistocene	scree dep.	50	0,1	[92,94]	4,5,12,31
	24_1	North Lucca	10	ND	nc	L-sbL /Mg	150	nc	Late Pleistocene	alluvial dep.	nc	nc	[91,92,94]	3,8
	25a	West Cerbaie	10		Pleistocene	Montecarlo Cg.	400	0,2	late Middle Pleistocene	Cerbaie Congl.	110	0,3	[91,92,93]	33
	25b	East Cerbaie	10		Pleistocene	Montecarlo Cg.	400	0,2	late Middle Pleistocene	Cerbaie Congl.	110	0,3	[91,92,93]	33
	26	East Mt.Pisano	12		Early Plioc. (Pleist.)	L-sbL/metTU	2000(400)	0,4(0,2)	late Middle Pleistocene	Cerbaie Congl.	100	0,3	[91,92,93]	33
	27	Bientina	18		Early Pliocene	L-sbL/metTU	2000	0,4	late Middle Pleistocene	Cerbaie Congl.	100	0,3	[91,93]	33
	28	S.Croce sull'Arno	10	OS(NS)	Pleistocene	Marginone fm.	500	0,2	Late Pleistocene	alluvial dep.	10	0,3	[91,93]	

	29	Tinaia	4	OS(NS)	Early Pliocene	nc	150	nc	nc	nc	nc	nc	[91,92]	
	30	Livorno-Empoli	70	OS(NS)	Early Pliocene	base Miocene	2600	0,5	Middle Pleistocene	alluvial dep.	65	0,2	[46,47,97,98]	19,22,24,28,32,38,49,1973
SD5														
west-dipping Apuane FS	31_a	West Mt.Pisano	20	N	Late Miocene	L-sbL/metTU	>3600	0,7	Early Pleistocene	alluvial dep.	>500	0,2	[100,102,103]	1,2,4,9
	31_b	Vecchiano-Massarosa	18	N	Early Pleistocene	Mg/L Tr-eJ	200	0,1	Late Pleistocene	alluvial dep.	10	0,6	[100,103,105]	1,9
	31_c	Pietrasanta-Massa	34	N	Late Miocene	L-sbL/metTU	>3600	0,7	Early Pleistocene	alluvial dep.	>500	0,2	[57,100]	
east-dipping	31_e	Viareggio basin	25	N	Late Miocene	Seq2-6/Substr.	>3600	0,7	Middle Pleistocene	alluvial dep.	200	0,3	[30,46,100,104]	
	32_d	Viareggio basin	20	N	Early Pliocene	Seq4-6/Substr.	1900	0,4	nc	nc	nc	nc	[30,46,100,104]	
	32_c	Viareggio basin	25	N	Late Miocene	Seq2-6	2100	0,4	nc	nc	nc	nc	[30,46,100,104]	
	32_b	Viareggio basin	30	N	Early Pliocene	Seq2-6	1300	0,3	nc	nc	nc	nc	[30,46,100,104]	
	32_a	Viareggio basin	34	N	Early Pliocene	Seq5-6/Substr.	1200	0,2	nc	nc	nc	nc	[30,46,100,104]	
SD6														
west-dipping	31_d	Sarzana-Carrara	25	NS	Early Pliocene	L-sbL /L-sbL	700	0,1	Late Pleistocene	alluvial dep.	75	0,6	[50,58,107,109]	1955
	33	Mt.Grosso-Mt.Cornoviglio-Mt.Vruga	35	N	Early Pliocene		400	0,1	nc	nc	nc	nc	[50,58,107,109]	
	33_t	S.Stefano	7	OS(ND)	nc	L-sbL /L-sbL	200	nc	Late Pleistocene	alluvial dep.	20	0,2	[50,58,107,109]	2009, 2013
east-dipping	34	Ameglia-Vezzano-P.Battolla	40	N	Early Pliocene	L-sbL/metTU	1000	0,2	mid Early Pleistocene-Hol.	alluvial dep.	200	0,1	[50,58,107,109]	2009, 2013
	35	Beverino-Borghetto Vara	16	N	nc	L-sbL /L-sbL	50	nc	Late Pleistocene-Holocene	alluvial dep.	nc	nc	[50,58,107,109]	46
	36	La Spezia	20	N	Early Pliocene	L-sbL/L Tr-eJ	2000	0,4	mid Early Pleistocene	P.Barca Congl.	100	0,1	[50,58,107,109]	25

Supplementary Table S1: Columns (A) Structural domain; (C) Main Fault systems/segments, with identification number (B) as reported in Figures 3,5,8,9,10; (D): approximate fault length, in km; (E): Slip mode (N: normal; ND normal and dextral; NS normal and sinistral; OS: oblique slip; (F): timing of first recorded displacement; (G): Displaced marker (H/F hangingwall/footwall); (H): Approximate largest cumulative vertical displacement (m); (I): Approximate long term slip rate derived from total displacement and oldest age data; (J): age of younger documented displacement; (K): youngest faulted marker (Ligurian-subLigurian units; Tuscan nappe with Mg; Late J-K/T; Late Trias-eJ; metamorphic Tuscan units) ; KnpH: height of knickpoint in riverbed crossed by the fault [73]; see Figure 2); (L): Approximate vertical displacement recorded in youngest marker (m) ; (M): Approximate short term slip rate from youngest displacement and age data; (N): references where reported data can be found; (O): historical and instrumental seismicity related to the fault systems or structural domains (Identification numbers as in Table S2; for post-1955 earthquakes, the year is provided. In the whole table, nc for not constrained.