

Groundwater flow dynamics in the complex aquifer system of Gidabo River Basin (Ethiopian Rift): a multi-proxy approach

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Table S1: Location and approximate discharge of springs in Gidabo River Basin

ID	District	Kebele	Site name	X	Y	Elevation (m a.s.l.)	Discharge (l/s)
SP-1	Wonago	Jemo jemo	Anole	415217	695903	1948	0.11
SP-2	Wonago	Jemo jemo	Debaya	416106	693644	1916	0.38
SP-3	Wonago	Dodoro	Dimtu	416915	691196	1988	0.50
SP-4	Wonago	Dodoro	Dobha	416114	690599	1988	0.63
SP-5	Wonago	Banko okoto	Logoda	415048	688069	1955	0.43
SP-6	Wonago	Banko okoto	Dembelo	414912	688980	1972	0.10
SP-7	Wonago	Mekonisa	Amba wedessa	414534	699530	1928	0.40
SP-8	Wonago	Kara sodti	-	413816	695681	1956	0.25
SP-9	Wonago	Kara soditi	Tulu loko	414072	697595	1876	0.20
SP-10	Wonago	Sugale	Didi	417635	697375	1758	0.10
SP-11	Wonago	Sokicha	Butiya	417743	695114	1770	0.12
SP-12	Wonago	Sokicha	Dengo	417743	692651	1959	0.50
SP-13	Wonago	Sokicha	Kosa	417778	692184	2024	0.10
SP-15	Wonago	Setamo	Darancho	427798	716037	1773	0.50
SP-16	Wonago	Bedesa	Tuta	429313	710974	1856	0.40
SP-17	Wonago	Gelowach	Lebicha	427457	714620	1826	0.50
SP-18	Wonago	Kumato	Kisho	426203	715399	1751	0.25
SP-19	Wonago	Shoicho	Haloya	430466	717391	1801	1.30
SP-20	Wonago	Babe komolcha	Babiso	434513	715710	2106	0.13
SP-21	Wonago	shebedela	Afrto	436722	716006	2151	0.40
SP-22	Wonago	Shilcho	Fendela	434041	716935	1911	0.20
SP-23	Wonago	Mechiso	Nitro	425086	714265	1674	0.13
SP-25	Abaya	Gunguwa badiya	-	420523	703597	1503	3.50
SP-26	Abaya	-	-	403063	688990	1647	0.80
SP-27	Aleta chuko	Dongora kebado	Hoye	428127	737040	1784	0.07
SP-28	Aleta chuko	Dongora kebado	Gidibo	428566	734087	1750	1.50
SP-29	Aleta chuko	Lela honcho	Dama chanco	431777	721637	1887	0.60
SP-30	Aleta chuko	Futahe	Areke	429997	719860	1827	0.57
SP-35	Aleta wondo	Habeja	Hombesa	438323	731567	1932	0.10
SP-36	Aleta wondo	Gordama	Doramo	441424	731953	2050	1.00
SP-37	Aleta wondo	Hondoba	Bedegelo	441145	734042	2098	0.12
SP-38	Aleta wondo	Hankesa	Fenja	443124	736462	2280	2.75
SP-39	Aleta wondo	Hankesa	Miriga	443143	735666	2201	3.00
SP-40	Aleta wondo	Hondoba	Hoyte	440865	734654	2087	0.73
SP-41	Aleta wondo	Habeja	Situ	438055	732730	1904	0.51
SP-42	Aleta wondo	Dande	Tuticha	436295	725462	2122	0.33
SP-43	Aleta wondo	Dande	Arogi	438039	725473	2109	0.25
SP-44	Aleta wondo	Gerbicho leba	Seda	437614	723609	2032	0.20

SP-45	Aleta wondo	Haranencho	Gena	435470	722738	2093	0.05
SP-46	Aleta wondo	Bultuma	Ejersa	439229	726294	2329	0.40
SP-47	Aleta wondo	Mogisa	Megrira	441111	727062	2412	0.75
SP-48	Aleta wondo	Gerbicho kila	Ediwo	443557	727355	2395	0.21
SP-49	Aleta wondo	Belesito	Wolo	434768	731352	1856	6.00
SP-55	Bule	Bule 01	-	433550	697410	2841	0.20
SP-56	Bule	Suko	Chemberta	434058	693224	2778	0.75
SP-57	Bule	Oslo majo	Oslo majo	432992	696538	2736	0.29
SP-58	Bule	Adado	Kisha	430119	697023	2112	2.00
SP-59	Bule	Adado	-	429896	695686	2002	0.67
SP-60	Bule	Kolsha kara	Legisho	430485	693565	2228	0.04
SP-61	Bule	Amba	Gerada	428256	699239	2293	0.40
SP-62	Bule	Bula	Geso	427387	697257	1956	0.22
SP-63	Bule	Hoticha	Ashube	427604	695920	1926	0.28
SP-64	Bule	Bula	Buchici	426376	698609	2074	0.50
SP-70	Wonsho	Fero 2 nd	Mayo	442528	745997	1858	0.33
SP-71	Wonsho	Kinante	Hanafa	447091	749012	2084	0.29
SP-72	Wonsho	Kinante	Aduma	448539	748685	2292	0.50
SP-73	Wonsho	Gudumo	Megeucho	451112	748613	2588	0.04
SP-74	Wonsho	Bokaso	Orisha	445793	747110	1991	0.67
SP-75	Wonsho	Fero 2 nd	Germuba	443886	744310	1916	0.50
SP-76	Wonsho	Mamena	Ejersa	443327	740770	1992	0.50
SP-77	Dale	Shefina	Gisa	442067	745713	1908	0.40
SP-78	Dale	Bua bedegelo	Dela	440454	740301	1868	0.04
SP-79	Dale	Bua bedegelo	Bukanto	441175	739974	1900	0.13
SP-80	Dale	Haylo	Tulo	440785	736383	1995	0.50
SP-81	Dale	Wara	Galama (Osole)	430868	740926	1710	3.00
SP-82	Dale	Megara	Gisa	428010	736931	1787	0.01
SP-83	Dale	Duba	Muro	442469	753718	1800	2.50
SP-84	Dale	Chume	Tullo	437408	752082	1776	1.80
SP-85	Dale	Awada chanco	-	432184	743397	1686	~150.00
SP-90	Awassa zuria	Finchawa	Loke palace	436990	772134	1692	26.00
SP-91	Awassa zuria	Gemeto	Gemeto	444763	771041	1719	40.00
SP-95	Shebedino	Galuko haro	-	443470	761444	1900	6.00
SP-96	Shebedino	Gonoba gabalo	Andisa	445727	758119	1929	0.60
SP-105	Malga	Sintaro	Gonanto	448950	767133	1983	0.20
SP-106	Malga	Barana	Chuchu mender	455224	766492	2319	0.25
SP-107	Malga	Fito Ketemuna	Magatet	456164	765587	2451	0.25
SP-110	Gorche	Murancho gorche	Darama	456301	758858	2578	0.14
SP-111	Gorche	Harbe welbeto	Simalo	454876	755612	2683	0.30
SP-112	Gorche	Gorche	-	453722	760393	2375	0.11
SP-120	Dilla Zuria	Sisota mazoria	-	426303	705062	1738	2.25
SP-121	Dilla Zuria	-	-	425457	702999	1751	2.50
SP-122	Dilla Zuria	-	-	425234	702440	1758	0.91
SP-123	Dilla Zuria	-	-	425257	700920	1799	0.53
SP-124	Dilla Zuria	-	-	425546	700265	1963	1.00
SP-125	Dilla Zuria	-	-	425635	699845	1954	0.83
SP-126	Dilla Zuria	-	-	432985	696534	2718	0.21
SP-127	Dilla Zuria	Shigedo	-	430680	706966	1950	0.23
SP-128	Dilla Zuria	Otilcho	-	432134	708000	1985	0.24

SP-129	Dilla Zuria	Otilcho	-	433305	706856	2250	0.19
SP-130	Dilla Zuria	-	-	427491	708291	1861	0.67
SP-131	Dilla Zuria	-	-	418895	694559	1744	1.00
SP-135	Dara	Schycho	-	429538	717299	1774	0.56
SP-136	Dara	Schycho	-	430264	717292	1764	1.00
SP-137	Dara	-	-	431090	716928	1764	0.43
SP-138	Dara	Loya	-	435411	718195	1891	1.33
SP-139	Dara	-	-	427199	711254	1740	0.25
SP-140	Dara	Korate bute	-	428013	712213	1861	2.00
SP-141	Dara	-	-	428483	712462	1861	0.56
SP-142	Dara	-	-	433575	712900	2341	1.00
SP-143	Dara	Banko markos	-	433975	711701	2533	1.67
SP-144	Dara	-	-	441341	713176	2844	0.50
SP-145	Loka Abaya	Chancha balicho	-	425848	744129	1625	~7.00
HSP-1	Dilla Zuria	Bersiso	-	421659	711357	1414	~6.00
HSP-2	Dilla Zuria	Dilla rift valley resort	-	421487	711446	1383	~15.00
HSP-3	Dilla Zuria	Kidane mihret	-	420893	710375	1429	~6.00
HSP-4	Abaya	Odomike arabi	-	417007	706492	1427	~10.00
HSP-5	Dale	Yirgalem	Gidabo	432370	746659	1698	~15.00
HSP-6	Dale	Shoye	Wenjela	437295	747784	1710	1.50
HSP-7	Dale	Aposto	-	431081	744600	1682	~8.00
HSP-9	Dale	Kality simita	-	425365	742560	1648	2.00
HSP-10	Dale	Yeboka	-	429788	741826	1709	1.50
HSP-11	Dale	Michael	-	430975	744411	1705	~ 7.00
HSP-12	Loka Abaya	Danshe gambela	-	418850	732980	1601	0.04