

DOI: 10.1590/2317-4889202220210051

Neoproterozoic intrusive volcanoclastic lamprophyre in the southernmost Brazil: geophysical characterization and modeling

Anderson Baesso, Carlos A. Sommer, Jairo F. Savian, Johnathan H. Gambeta, Robson D. S. Aquino

Coordinates in WGS 84

Datum Córrego Alegre

Station	date	time	Reading	lat	long	elevation
UFRGS	26/04/2018	08:10:58	5908,595	-30 04' 21"	-51 07' 13"	63,1424
CTG001	26/04/2018	14:38:24	5905,81	-30 11' 05,49283"	-53 49' 03,32667"	187,355
CTG002	26/04/2018	15:00:55	5906,025	-30 11' 03,86642"	-53 49' 04,46749"	184,778
CTG003	26/04/2018	15:09:53	5906,445	-30 11' 01,73844"	-53 49' 03,71926"	180,534
CTG004	26/04/2018	15:18:46	5906,82	-30 11' 00,08741"	-53 49' 02,94261"	176,628
CTG005	26/04/2018	15:27:09	5907,15	-30 10' 58,11650"	-53 49' 02,44571"	172,633
CTG006	26/04/2018	15:33:30	5907,365	-30 10' 56,32322"	-53 49' 02,22508"	171,418
CTG007	26/04/2018	15:40:30	5907,62	-30 10' 54,11181"	-53 49' 01,52126"	168,718
CTG008	26/04/2018	15:47:05	5907,83	-30 10' 52,44344"	-53 49' 00,96643"	167,024
CTG009	26/04/2018	15:53:12	5907,95	-30 10' 50,39960"	-53 49' 00,90910"	165,099
CTG010	26/04/2018	16:01:19	5908,075	-30 10' 48,52867"	-53 49' 00,84346"	164,31
CTG011	26/04/2018	16:14:31	5908,225	-30 10' 46,71216"	-53 49' 01,08286"	162,456
CTG012	26/04/2018	16:21:11	5908,465	-30 10' 44,92172"	-53 49' 01,03087"	160,046
CTG013	26/04/2018	16:27:27	5908,62	-30 10' 42,99726"	-53 49' 01,14294"	158,122
CTG014	26/04/2018	16:35:24	5908,835	-30 10' 41,33588"	-53 49' 01,32035"	154,665
CTG015	26/04/2018	16:42:50	5909,23	-30 10' 39,58265"	-53 49' 01,65049"	150,673
CS1	26/04/2018	18:31:16	5899,325	-30 31' 02"	-53 29' 02"	427,0538
CS2	27/04/2018	08:00:16	5899,272	-30 31' 02"	-53 29' 02"	427,0538
CTG016	27/04/2018	10:41:27	5906,61	-30 11' 01,46199"	-53 49' 05,29683"	177,904
CTG017	27/04/2018	10:49:24	5907,115	-30 10' 59,73311"	-53 49' 05,09211"	173,069
CTG018	27/04/2018	10:56:45	5907,41	-30 10' 57,85717"	-53 49' 04,95291"	169,5
CTG019	27/04/2018	11:05:56	5907,99	-30 10' 56,08348"	-53 49' 06,05467"	164,977
CTG020	27/04/2018	11:13:39	5908,31	-30 10' 54,30040"	-53 49' 05,86294"	162,172
CTG021	27/04/2018	11:21:45	5908,48	-30 10' 52,66676"	-53 49' 05,97000"	160,24
CTG022	27/04/2018	11:26:24	5908,635	-30 10' 51,00558"	-53 49' 06,50833"	158,801
CTG023	27/04/2018	11:34:04	5909,11	-30 10' 49,31889"	-53 49' 05,88028"	153,99
CTG024	27/04/2018	11:43:47	5909,375	-30 10' 47,30136"	-53 49' 04,67488"	150,129
CTG025	27/04/2018	11:52:51	5909,64	-30 10' 45,77915"	-53 49' 05,70818"	146,338
CTG026	27/04/2018	12:00:09	5909,85	-30 10' 44,03182"	-53 49' 07,09838"	144,655
CTG027	27/04/2018	12:06:32	5910,07	-30 10' 41,34609"	-53 49' 08,03154"	142,283
CTG028	27/04/2018	12:16:43	5910,305	-30 10' 39,60867"	-53 49' 08,43232"	139,051
CTG029	27/04/2018	12:29:13	5910,49	-30 10' 37,32074"	-53 49' 08,81434"	140,001
CTG030	27/04/2018	12:38:58	5910,505	-30 10' 35,39555"	-53 49' 08,73390"	141,782
CTG031	27/04/2018	12:45:50	5908,915	-30 10' 35,23356"	-53 49' 11,52050"	154,783
CTG032	27/04/2018	12:53:17	5908,55	-30 10' 36,85510"	-53 49' 12,12375"	157,491
CTG033	27/04/2018	13:00:09	5908,37	-30 10' 38,67761"	-53 49' 12,75081"	158,902
CTG034	27/04/2018	13:07:17	5908,225	-30 10' 40,18671"	-53 49' 12,55873"	161,228
CTG035	27/04/2018	13:12:36	5908,055	-30 10' 41,77861"	-53 49' 12,54248"	162,905
CTG036	27/04/2018	13:19:12	5907,83	-30 10' 44,17902"	-53 49' 12,76688"	165,191
CTG037	27/04/2018	13:26:06	5907,8	-30 10' 46,32481"	-53 49' 13,74755"	165,422
CTG038	27/04/2018	13:30:49	5907,61	-30 10' 49,17077"	-53 49' 14,24276"	166,57
CTG039	27/04/2018	13:36:52	5906,81	-30 10' 51,55655"	-53 49' 13,48297"	171,243
CTG040	27/04/2018	13:43:38	5906,855	-30 10' 53,42319"	-53 49' 13,21482"	175,13
CTG041	27/04/2018	13:48:46	5906,245	-30 10' 55,76311"	-53 49' 13,09037"	180,768
CTG042	27/04/2018	13:53:53	5906,05	-30 10' 58,06535"	-53 49' 12,37417"	183,957
CTG043	27/04/2018	14:01:32	5905,805	-30 11' 01,03151"	-53 49' 11,40207"	185,71
CTG044	27/04/2018	14:46:32	5905,615	-30 10' 59,55239"	-53 49' 15,70701"	185,854
CTG045	27/04/2018	14:54:21	5905,805	-30 10' 56,57846"	-53 49' 16,41195"	184,454
CTG046	27/04/2018	14:59:17	5906,01	-30 10' 54,92011"	-53 49' 16,46844"	182,694
CTG047	27/04/2018	15:07:58	5906,145	-30 10' 53,26652"	-53 49' 16,88738"	179,357
CTG048	27/04/2018	15:12:26	5906,445	-30 10' 51,19852"	-53 49' 17,33707"	178,17
CTG049	27/04/2018	15:17:11	5906,515	-30 10' 49,15883"	-53 49' 17,41624"	177,386
CTG050	27/04/2018	15:22:03	5906,68	-30 10' 46,97412"	-53 49' 18,51546"	174,629
CTG051	27/04/2018	15:28:14	5907,05	-30 10' 44,65903"	-53 49' 19,05469"	171,034

CTG052	27/04/2018	15:33:50	5907,465	-30 10' 42,55283"	-53 49' 19,18401"	165,175
CTG053	27/04/2018	15:40:22	5907,835	-30 10' 40,94375"	-53 49' 19,15297"	167,652
CTG054	27/04/2018	15:45:55	5908,03	-30 10' 38,84415"	-53 49' 19,41263"	163,266
CTG055	27/04/2018	15:51:04	5908,305	-30 10' 37,29874"	-53 49' 19,92633"	158,885
CTG056	27/04/2018	16:02:03	5908,765	-30 10' 35,59031"	-53 49' 20,56525"	154,299
CTG057	27/04/2018	16:16:51	5907,66	-30 10' 40,29944"	-53 49' 22,19897"	165,061
CTG058	27/04/2018	16:26:30	5907,31	-30 10' 45,01326"	-53 49' 27,42704"	169,307
CTG059	27/04/2018	16:39:06	5906,69	-30 10' 53,85247"	-53 49' 25,64853"	174,376
CTG060	27/04/2018	16:49:59	5905,445	-30 10' 59,95535"	-53 49' 20,81257"	181,529
CS3	27/04/2018	18:25:00	5899,32	-30 31' 02"	-53 29' 02"	427,0538

Field magnetometer

Station	date	time	Field (nT)	lat	long	elevation
CTG001	26/04/2018	14:38:24	22442,62	-30 11' 05,49283"	-53 49' 03,32667"	187,355
CTG002	26/04/2018	15:00:55	22487,97	-30 11' 03,86642"	-53 49' 04,46749"	184,778
CTG003	26/04/2018	15:09:53	22534,74	-30 11' 01,73844"	-53 49' 03,71926"	180,534
CTG004	26/04/2018	15:18:46	22577,81	-30 11' 00,08741"	-53 49' 02,94261"	176,628
CTG005	26/04/2018	15:27:09	22472,31	-30 10' 58,11650"	-53 49' 02,44571"	172,633
CTG006	26/04/2018	15:33:30	22463,59	-30 10' 56,32322"	-53 49' 02,22508"	171,418
CTG007	26/04/2018	15:40:30	22459,39	-30 10' 54,11181"	-53 49' 01,52126"	168,718
CTG008	26/04/2018	15:47:05	22440,45	-30 10' 52,44344"	-53 49' 00,96643"	167,024
CTG009	26/04/2018	15:53:12	22425,37	-30 10' 50,39960"	-53 49' 00,90910"	165,099
CTG010	26/04/2018	16:01:19	22446,92	-30 10' 48,52867"	-53 49' 00,84346"	164,31
CTG011	26/04/2018	16:14:31	22440,94	-30 10' 46,71216"	-53 49' 01,08286"	162,456
CTG012	26/04/2018	16:21:11	22445,92	-30 10' 44,92172"	-53 49' 01,03087"	160,046
CTG013	26/04/2018	16:27:27	22456,98	-30 10' 42,99726"	-53 49' 01,14294"	158,122
CTG014	26/04/2018	16:35:24	22424,47	-30 10' 41,33588"	-53 49' 01,32035"	154,665
CTG015	26/04/2018	16:42:50	22439,16	-30 10' 39,58265"	-53 49' 01,65049"	150,673
CTG016	27/04/2018	10:41:27	22589,32	-30 11' 01,46199"	-53 49' 05,29683"	177,904
CTG017	27/04/2018	10:49:24	22530,45	-30 10' 59,73311"	-53 49' 05,09211"	173,069
CTG018	27/04/2018	10:56:45	22491,66	-30 10' 57,85717"	-53 49' 04,95291"	169,5
CTG019	27/04/2018	11:05:56	22460,60	-30 10' 56,08348"	-53 49' 06,05467"	164,977
CTG020	27/04/2018	11:13:39	22480,07	-30 10' 54,30040"	-53 49' 05,86294"	162,172
CTG021	27/04/2018	11:21:45	22496,55	-30 10' 52,66676"	-53 49' 05,97000"	160,24
CTG022	27/04/2018	11:26:24	22506,33	-30 10' 51,00558"	-53 49' 06,50833"	158,801
CTG023	27/04/2018	11:34:04	22563,99	-30 10' 49,31889"	-53 49' 05,88028"	153,99
CTG024	27/04/2018	11:43:47	22502,69	-30 10' 47,30136"	-53 49' 04,67488"	150,129
CTG025	27/04/2018	11:52:51	22525,70	-30 10' 45,77915"	-53 49' 05,70818"	146,338
CTG026	27/04/2018	12:00:09	22492,93	-30 10' 44,03182"	-53 49' 07,09838"	144,655
CTG027	27/04/2018	12:06:32	22482,16	-30 10' 41,34609"	-53 49' 08,03154"	142,283
CTG028	27/04/2018	12:16:43	22491,52	-30 10' 39,60867"	-53 49' 08,43232"	139,051
CTG029	27/04/2018	12:29:13	22454,76	-30 10' 37,32074"	-53 49' 08,81434"	140,001
CTG030	27/04/2018	12:38:58	22501,10	-30 10' 35,39555"	-53 49' 08,73390"	141,782
CTG031	27/04/2018	12:45:50	22507,08	-30 10' 35,23356"	-53 49' 11,52050"	154,783
CTG032	27/04/2018	12:53:17	22634,68	-30 10' 36,85510"	-53 49' 12,12375"	157,491
CTG033	27/04/2018	13:00:09	22574,02	-30 10' 38,67761"	-53 49' 12,75081"	158,902
CTG034	27/04/2018	13:07:17	22458,65	-30 10' 40,18671"	-53 49' 12,55873"	161,228
CTG035	27/04/2018	13:12:36	22431,97	-30 10' 41,77861"	-53 49' 12,54248"	162,905
CTG036	27/04/2018	13:19:12	22177,37	-30 10' 44,17902"	-53 49' 12,76688"	165,191
CTG037	27/04/2018	13:26:06	22496,59	-30 10' 46,32481"	-53 49' 13,74755"	165,422
CTG038	27/04/2018	13:30:49	22546,17	-30 10' 49,17077"	-53 49' 14,24276"	166,57
CTG039	27/04/2018	13:36:52	22567,23	-30 10' 51,55655"	-53 49' 13,48297"	171,243
CTG040	27/04/2018	13:43:38	22555,87	-30 10' 53,42319"	-53 49' 13,21482"	175,13
CTG041	27/04/2018	13:48:46	22555,58	-30 10' 55,76311"	-53 49' 13,09037"	180,768
CTG042	27/04/2018	13:53:53	22563,49	-30 10' 58,06535"	-53 49' 12,37417"	183,957
CTG043	27/04/2018	14:01:32	22556,31	-30 11' 01,03151"	-53 49' 11,40207"	185,71
CTG044	27/04/2018	14:46:32	22535,07	-30 10' 59,55239"	-53 49' 15,70701"	185,854
CTG045	27/04/2018	14:54:21	22525,34	-30 10' 56,57846"	-53 49' 16,41195"	184,454
CTG046	27/04/2018	14:59:17	22524,50	-30 10' 54,92011"	-53 49' 16,46844"	182,694
CTG047	27/04/2018	15:07:58	22522,11	-30 10' 53,26652"	-53 49' 16,88738"	179,357
CTG048	27/04/2018	15:12:26	22517,58	-30 10' 51,19852"	-53 49' 17,33707"	178,17
CTG049	27/04/2018	15:17:11	22502,17	-30 10' 49,15883"	-53 49' 17,41624"	177,386
CTG050	27/04/2018	15:22:03	22467,98	-30 10' 46,97412"	-53 49' 18,51546"	174,629
CTG051	27/04/2018	15:28:14	22460,46	-30 10' 44,65903"	-53 49' 19,05469"	171,034
CTG052	27/04/2018	15:33:50	22466,10	-30 10' 42,55283"	-53 49' 19,18401"	165,175
CTG053	27/04/2018	15:40:22	22474,85	-30 10' 40,94375"	-53 49' 19,15297"	167,652
CTG054	27/04/2018	15:45:55	22486,89	-30 10' 38,84415"	-53 49' 19,41263"	163,266
CTG055	27/04/2018	15:51:04	22489,31	-30 10' 37,29874"	-53 49' 19,92633"	158,885
CTG056	27/04/2018	16:02:03	22486,87	-30 10' 35,59031"	-53 49' 20,56525"	154,299
CTG057	27/04/2018	16:16:51	22454,74	-30 10' 40,29944"	-53 49' 22,19897"	165,061
CTG058	27/04/2018	16:26:30	22496,34	-30 10' 45,01326"	-53 49' 27,42704"	169,307
CTG059	27/04/2018	16:39:06	22498,70	-30 10' 53,85247"	-53 49' 25,64853"	174,376

Base Station

date	time	Field (nT)
27/04/2018	09:55:02	22440,47
27/04/2018	10:00:02	22438,99
27/04/2018	10:05:02	22436,98
27/04/2018	10:10:02	22435,1
27/04/2018	10:15:02	22435,53
27/04/2018	10:20:02	22436,19
27/04/2018	10:25:02	22435,29
27/04/2018	10:30:02	22434,29
27/04/2018	10:35:02	22434,02
27/04/2018	10:40:02	22433,06
27/04/2018	10:45:02	22431,28
27/04/2018	10:50:02	22429,69
27/04/2018	10:55:02	22428,85
27/04/2018	11:00:02	22428,85
27/04/2018	11:05:02	22428,5
27/04/2018	11:10:02	22427,65
27/04/2018	11:15:02	22428,04
27/04/2018	11:20:02	22428,04
27/04/2018	11:25:02	22428,73
27/04/2018	11:30:02	22428,75
27/04/2018	11:35:02	22430,14
27/04/2018	11:40:02	22431,66
27/04/2018	11:45:02	22432,05
27/04/2018	11:50:02	22430,7
27/04/2018	11:55:02	22431,99
27/04/2018	12:00:02	22429,79
27/04/2018	12:05:02	22429,24
27/04/2018	12:10:02	22428,59
27/04/2018	12:15:02	22428,38
27/04/2018	12:20:02	22427,91
27/04/2018	12:25:02	22426,73
27/04/2018	12:30:02	22425,81
27/04/2018	12:35:02	22425,26
27/04/2018	12:40:02	22424,63
27/04/2018	12:45:02	22424,29
27/04/2018	12:50:02	22423,98
27/04/2018	12:55:02	22424,58
27/04/2018	13:00:02	22424,84
27/04/2018	13:05:02	22424,99
27/04/2018	13:10:02	22425,56
27/04/2018	13:15:02	22425,72
27/04/2018	13:20:02	22424,87
27/04/2018	13:25:02	22424,61
27/04/2018	13:30:02	22425,45
27/04/2018	13:35:02	22425,32
27/04/2018	13:40:02	22425,54
27/04/2018	13:45:02	22426,09
27/04/2018	13:50:02	22425,08
27/04/2018	13:55:02	22423,16
27/04/2018	14:00:02	22421,94
27/04/2018	14:05:02	22421,06
27/04/2018	14:10:02	22420,24
27/04/2018	14:15:02	22419,04
27/04/2018	14:20:02	22418,13
27/04/2018	14:25:02	22416,79
27/04/2018	14:30:02	22415,71
27/04/2018	14:35:02	22415,51
27/04/2018	14:40:02	22413,75
27/04/2018	14:45:02	22411,34

CTG060 27/04/2011 16:49:59 22520,98 -30 10' 59,95535" -53 49' 20,81257" 181,529

27/04/2011: 14:50:02 22409,29
27/04/2011: 14:55:02 22409,26
27/04/2011: 15:00:02 22409,54
27/04/2011: 15:05:02 22409,93
27/04/2011: 15:10:02 22410,32
27/04/2011: 15:15:02 22409,39
27/04/2011: 15:20:02 22409,56
27/04/2011: 15:25:02 22410,09
27/04/2011: 15:30:02 22409,9
27/04/2011: 15:35:02 22410,56
27/04/2011: 15:40:02 22411,42
27/04/2011: 15:45:02 22412,05
27/04/2011: 15:50:02 22412,1
27/04/2011: 15:55:02 22412,38
27/04/2011: 16:00:02 22412,85
27/04/2011: 16:05:02 22413,24
27/04/2011: 16:10:02 22413,7
27/04/2011: 16:15:02 22414,26
27/04/2011: 16:20:02 22414,75
27/04/2011: 16:25:02 22415,36
27/04/2011: 16:30:02 22415,92
27/04/2011: 16:35:02 22416,32
27/04/2011: 16:40:02 22436,32

Station	date	lat	long	elevation	CT (cps)	K (%)	eU (ppm)	eTh (ppm)
CTG001	26/04/2018	-30 11' 05,49283"	-53 49' 03,32667"	187,355	96,17	2,73	5,53	11,80
CTG002	26/04/2018	-30 11' 03,86642"	-53 49' 04,46749"	184,778	79,10	2,30	2,80	12,57
CTG003	26/04/2018	-30 11' 01,73844"	-53 49' 03,71926"	180,534	93,63	3,00	3,40	13,20
CTG004	26/04/2018	-30 11' 00,08741"	-53 49' 02,94261"	176,628	86,93	2,83	2,77	12,87
CTG005	26/04/2018	-30 10' 58,11650"	-53 49' 02,44571"	172,633	102,57	3,13	2,50	17,80
CTG006	26/04/2018	-30 10' 56,32322"	-53 49' 02,22508"	171,418	96,60	2,97	4,57	12,37
CTG007	26/04/2018	-30 10' 54,11181"	-53 49' 01,52126"	168,718	97,80	3,77	1,97	14,50
CTG008	26/04/2018	-30 10' 52,44344"	-53 49' 00,96643"	167,024	121,23	4,40	3,80	15,97
CTG009	26/04/2018	-30 10' 50,39960"	-53 49' 00,90910"	165,099	79,00	2,77	3,23	9,30
CTG010	26/04/2018	-30 10' 48,52867"	-53 49' 00,84346"	164,31	31,87	0,87	0,67	6,13
CTG011	26/04/2018	-30 10' 46,71216"	-53 49' 01,08286"	162,456	32,47	0,83	1,83	4,10
CTG012	26/04/2018	-30 10' 44,92172"	-53 49' 01,03087"	160,046	46,37	1,47	1,13	7,63
CTG013	26/04/2018	-30 10' 42,99726"	-53 49' 01,14294"	158,122	90,37	3,57	2,70	10,73
CTG014	26/04/2018	-30 10' 41,33588"	-53 49' 01,32035"	154,665	90,17	3,43	0,90	14,87
CTG015	26/04/2018	-30 10' 39,58265"	-53 49' 01,65049"	150,673	92,50	2,93	2,93	14,97
CTG016	27/04/2018	-30 11' 01,46199"	-53 49' 05,29683"	177,904	81,20	2,60	2,67	12,17
CTG017	27/04/2018	-30 10' 59,73311"	-53 49' 05,09211"	173,069	51,80	1,57	1,00	9,60
CTG018	27/04/2018	-30 10' 57,85717"	-53 49' 04,95291"	169,5	59,43	1,77	2,30	9,03
CTG019	27/04/2018	-30 10' 56,08348"	-53 49' 06,05467"	164,977	103,57	3,20	5,37	12,03
CTG020	27/04/2018	-30 10' 54,30040"	-53 49' 05,86294"	162,172	46,57	1,60	1,60	6,47
CTG021	27/04/2018	-30 10' 52,66676"	-53 49' 05,97000"	160,24				
CTG022	27/04/2018	-30 10' 51,00558"	-53 49' 06,50833"	158,801	30,77	0,80	1,50	4,43
CTG023	27/04/2018	-30 10' 49,31889"	-53 49' 05,88028"	153,99	33,93	0,90	1,67	4,73
CTG024	27/04/2018	-30 10' 47,30136"	-53 49' 04,67488"	150,129	32,87	1,07	1,27	4,47
CTG025	27/04/2018	-30 10' 45,77915"	-53 49' 05,70818"	146,338	35,80	1,47	0,50	5,20
CTG026	27/04/2018	-30 10' 44,03182"	-53 49' 07,09838"	144,655	33,63	1,40	0,40	5,03
CTG027	27/04/2018	-30 10' 41,34609"	-53 49' 08,03154"	142,283	36,27	1,43	0,97	4,53
CTG028	27/04/2018	-30 10' 39,60867"	-53 49' 08,43232"	139,051	41,30	1,60	1,90	3,97
CTG029	27/04/2018	-30 10' 37,32074"	-53 49' 08,81434"	140,001	41,67	1,50	1,00	6,17
CTG030	27/04/2018	-30 10' 35,39555"	-53 49' 08,73390"	141,782				
CTG031	27/04/2018	-30 10' 35,23356"	-53 49' 11,52050"	154,783	82,40	2,20	2,13	13,00
CTG032	27/04/2018	-30 10' 36,85510"	-53 49' 12,12375"	157,491	74,77	2,17	2,73	11,80
CTG033	27/04/2018	-30 10' 38,67761"	-53 49' 12,75081"	158,902	76,30	2,20	3,03	10,77
CTG034	27/04/2018	-30 10' 40,18671"	-53 49' 12,55873"	161,228	92,13	3,00	4,37	10,77
CTG035	27/04/2018	-30 10' 41,77861"	-53 49' 12,54248"	162,905	68,50	2,13	2,53	10,03
CTG036	27/04/2018	-30 10' 44,17902"	-53 49' 12,76688"	165,191	95,73	3,00	4,43	12,53
CTG037	27/04/2018	-30 10' 46,32481"	-53 49' 13,74755"	165,422	94,13	3,07	3,47	12,93
CTG038	27/04/2018	-30 10' 49,17077"	-53 49' 14,24276"	166,57	105,80	3,13	2,47	19,10
CTG039	27/04/2018	-30 10' 51,55655"	-53 49' 13,48297"	171,243	94,30	3,10	3,13	13,63
CTG040	27/04/2018	-30 10' 53,42319"	-53 49' 13,21482"	175,13	91,63	3,20	2,43	13,53
CTG041	27/04/2018	-30 10' 55,76311"	-53 49' 13,09037"	180,768	76,80	2,50	2,80	10,67
CTG042	27/04/2018	-30 10' 58,06535"	-53 49' 12,37417"	183,957	80,97	2,50	2,33	13,17
CTG043	27/04/2018	-30 11' 01,03151"	-53 49' 11,40207"	185,71	99,10	3,07	4,13	13,73
CTG044	27/04/2018	-30 10' 59,55239"	-53 49' 15,70701"	185,854	120,07	4,23	1,87	20,37
CTG045	27/04/2018	-30 10' 56,57846"	-53 49' 16,41195"	184,454	99,10	3,40	2,93	14,50
CTG046	27/04/2018	-30 10' 54,92011"	-53 49' 16,46844"	182,694	102,17	3,13	2,27	18,30
CTG047	27/04/2018	-30 10' 53,26652"	-53 49' 16,88738"	179,357				
CTG048	27/04/2018	-30 10' 51,19852"	-53 49' 17,33707"	178,17	101,13	3,23	2,17	17,50
CTG049	27/04/2018	-30 10' 49,15883"	-53 49' 17,41624"	177,386	94,33	3,10	2,83	14,30
CTG050	27/04/2018	-30 10' 46,97412"	-53 49' 18,51546"	174,629	48,37	1,20	2,13	8,20
CTG051	27/04/2018	-30 10' 44,65903"	-53 49' 19,05469"	171,034	45,33	0,77	2,83	7,27
CTG052	27/04/2018	-30 10' 42,55283"	-53 49' 19,18401"	165,175	83,17	2,80	2,43	12,53

CTG053	27/04/2018	-30 10' 40,94375"	-53 49' 19,15297"	167,652	69,93	2,33	1,77	11,20
CTG054	27/04/2018	-30 10' 38,84415"	-53 49' 19,41263"	163,266	71,13	1,30	2,23	15,03
CTG055	27/04/2018	-30 10' 37,29874"	-53 49' 19,92633"	158,885	251,70	2,83	5,43	68,73
CTG056	27/04/2018	-30 10' 35,59031"	-53 49' 20,56525"	154,299	260,80	2,53	6,70	70,60
CTG057	27/04/2018	-30 10' 40,29944"	-53 49' 22,19897"	165,061	67,97	2,10	2,73	9,50
CTG058	27/04/2018	-30 10' 45,01326"	-53 49' 27,42704"	169,307	86,93	2,80	2,70	13,17
CTG059	27/04/2018	-30 10' 53,85247"	-53 49' 25,64853"	174,376	64,60	1,87	2,40	10,00
CTG060	27/04/2018	-30 10' 59,95535"	-53 49' 20,81257"	181,529	83,40	2,23	3,23	13,60