

LATITUD 48° 53' N.

LATITUD 48° 53' N.

TIEMPO SIDERAL			10	11	12	AS	2	3
			♈	♉	♊	♋	♌	♍
h	m	s	°	'	°	'	°	'
0	00	00	0	00	7	58	20	21
0	03	40	1	00	9	04	21	15
0	07	20	2	00	10	09	22	09
0	11	01	3	00	11	14	23	02
0	14	41	4	00	12	18	23	56
0	18	21	5	00	13	22	24	48
0	22	02	6	00	14	26	25	41
0	25	43	7	00	15	30	26	33
0	29	23	8	00	16	33	27	25
0	33	04	9	00	17	36	28	16
0	36	46	10	00	18	39	29	07
0	40	27	11	00	19	42	29	58
0	44	08	12	00	20	44	0	49
0	47	50	13	00	21	46	1	39
0	51	32	14	00	22	47	2	30
0	55	15	15	00	23	49	3	20
0	58	58	16	00	24	50	4	09
1	02	41	17	00	25	51	4	59
1	06	24	18	00	26	51	5	48
1	10	08	19	00	27	52	6	38
1	13	52	20	00	28	52	7	27
1	17	36	21	00	29	52	8	16
1	21	21	22	00	0	52	9	04
1	25	07	23	00	1	51	9	53
1	28	53	24	00	2	50	10	42
1	32	39	25	00	3	49	11	30
1	36	26	26	00	4	48	12	18
1	40	13	27	00	5	47	13	07
1	44	01	28	00	6	46	13	55
1	47	50	29	00	7	44	14	43
1	51	39	0	00	8	42	15	31
1	55	28	1	00	9	40	16	19
1	59	18	2	00	10	38	17	07
2	03	09	3	00	11	36	17	55
2	07	00	4	00	12	34	18	43
2	10	52	5	00	13	31	19	31
2	14	45	6	00	14	28	20	19
2	18	38	7	00	15	26	21	07
2	22	32	8	00	16	23	21	55
2	26	27	9	00	17	20	22	43
2	30	22	10	00	18	16	23	31
2	34	18	11	00	19	13	24	19
2	38	15	12	00	20	10	25	07
2	42	12	13	00	21	07	25	55
2	46	10	14	00	22	03	26	43
2	50	09	15	00	23	00	27	32
2	54	08	16	00	23	56	28	20
2	58	08	17	00	24	52	29	08
3	02	09	18	00	25	49	29	57
3	06	11	19	00	26	45	0	45
3	10	13	20	00	27	41	1	34
3	14	16	21	00	28	37	2	23
3	18	20	22	00	29	33	3	12
3	22	25	23	00	0	29	4	00
3	26	30	24	00	1	25	4	50
3	30	36	25	00	2	21	5	39
3	34	43	26	00	3	17	6	28
3	38	50	27	00	4	13	7	17
3	42	58	28	00	5	10	8	07
3	47	07	29	00	6	06	8	56

CASAS

4 | 5 | 6 | DS | 8 | 9

LATITUD 48° 53' S.

tropical

TIEMPO SIDERAL			10	11	12	AS	2	3
			♊	♋	♌	♍	♎	♏
h	m	s	°	'	°	'	°	'
3	51	17	0	00	7	02	9	46
3	55	27	1	00	7	58	10	36
3	59	38	2	00	8	54	11	26
4	03	49	3	00	9	50	12	16
4	08	01	4	00	10	46	13	06
4	12	14	5	00	11	42	13	57
4	16	27	6	00	12	38	14	47
4	20	41	7	00	13	34	15	38
4	24	56	8	00	14	31	16	29
4	29	11	9	00	15	27	17	19
4	33	27	10	00	16	23	18	10
4	37	43	11	00	17	20	19	02
4	42	00	12	00	18	16	19	53
4	46	17	13	00	19	13	20	44
4	50	35	14	00	20	09	21	36
4	54	53	15	00	21	06	22	27
4	59	11	16	00	22	02	23	19
5	03	30	17	00	22	59	24	11
5	07	50	18	00	23	56	25	03
5	12	09	19	00	24	53	25	55
5	16	29	20	00	25	49	26	47
5	20	49	21	00	26	46	27	39
5	25	10	22	00	27	43	28	31
5	29	31	23	00	28	40	29	24
5	33	52	24	00	29	37	0	16
5	38	13	25	00	0	35	1	09
5	42	34	26	00	1	32	2	02
5	46	55	27	00	2	29	2	54
5	51	17	28	00	3	26	3	47
5	55	38	29	00	4	24	4	40
6	00	00	0	00	5	21	5	33
6	04	22	1	00	6	19	6	26
6	08	43	2	00	7	16	7	19
6	13	05	3	00	8	14	8	11
6	17	26	4	00	9	11	9	04
6	21	47	5	00	10	09	9	57
6	26	08	6	00	11	07	10	50
6	30	29	7	00	12	04	11	43
6	34	50	8	00	13	02	12	36
6	39	11	9	00	14	00	13	29
6	43	31	10	00	14	58	14	22
6	47	51	11	00	15	55	15	15
6	52	10	12	00	16	53	16	08
6	56	30	13	00	17	51	17	01
7	00	49	14	00	18	49	17	54
7	05	07	15	00	19	47	18	47
7	09	25	16	00	20	44	19	39
7	13	43	17	00	21	42	20	32
7	18	00	18	00	22	40	21	25
7	22	17	19	00	23	38	22	17
7	26	33	20	00	24	35	23	09
7	30	49	21	00	25	33	24	02
7	35	04	22	00	26	31	24	54
7	39	19	23	00	27	28	25	46
7	43	33	24	00	28	26	26	38
7	47	46	25	00	29	24	27	30
7	51	59	26	00	0	21	28	21
7	56	11	27	00	1	19	29	13
8	00	22	28	00	2	16	0	05
8	04	33	29	00	3	13	0	56

CASAS

4 | 5 | 6 | DS | 8 | 9

LATITUD 48° 53' S.

LATITUD 48° 53' N.

LATITUD 48° 53' N.

TIEMPO SIDERAL			10	11	12	AS	2	3
			♈	♉	♊	♋	♌	♍
h	m	s	°	'	°	'	°	'
8	08	43	0 00	4 10	1 47	23 22	20 14	22 58
8	12	53	1 00	5 08	2 38	24 08	21 04	23 54
8	17	02	2 00	6 05	3 29	24 52	21 53	24 50
8	21	10	3 00	7 02	4 20	25 37	22 43	25 47
8	25	17	4 00	7 59	5 11	26 22	23 32	26 43
8	29	24	5 00	8 55	6 01	27 07	24 21	27 39
8	33	30	6 00	9 52	6 51	27 51	25 10	28 35
8	37	35	7 00	10 49	7 41	28 35	26 00	29 31
8	41	40	8 00	11 45	8 31	29 19	26 48	0♁27
8	45	44	9 00	12 42	9 21	0♁03	27 37	1 23
8	49	47	10 00	13 38	10 11	0 47	28 26	2 19
8	53	49	11 00	14 34	11 00	1 31	29 15	3 15
8	57	51	12 00	15 30	11 50	2 14	0♁03	4 11
9	01	52	13 00	16 26	12 39	2 58	0 52	5 08
9	05	52	14 00	17 22	13 28	3 41	1 40	6 04
9	09	51	15 00	18 18	14 17	4 24	2 28	7 00
9	13	50	16 00	19 13	15 05	5 07	3 17	7 57
9	17	48	17 00	20 09	15 54	5 50	4 05	8 53
9	21	45	18 00	21 04	16 42	6 33	4 53	9 50
9	25	42	19 00	21 59	17 30	7 15	5 41	10 47
9	29	38	20 00	22 54	18 18	7 58	6 29	11 44
9	33	33	21 00	23 49	19 06	8 40	7 17	12 40
9	37	28	22 00	24 44	19 53	9 23	8 05	13 37
9	41	22	23 00	25 39	20 41	10 05	8 53	14 34
9	45	15	24 00	26 33	21 28	10 47	9 41	15 32
9	49	08	25 00	27 27	22 15	11 29	10 29	16 29
9	53	00	26 00	28 22	23 02	12 11	11 17	17 26
9	56	51	27 00	29 16	23 49	12 52	12 05	18 24
10	00	42	28 00	0♁10	24 36	13 34	12 53	19 22
10	04	32	29 00	1 04	25 22	14 15	13 41	20 20
10	08	21	0♁00	1 57	26 09	14 57	14 29	21 18
10	12	10	1 00	2 51	26 55	15 38	15 17	22 16
10	15	59	2 00	3 44	27 41	16 20	16 05	23 14
10	19	47	3 00	4 37	28 27	17 01	16 53	24 13
10	23	34	4 00	5 30	29 13	17 42	17 42	25 12
10	27	21	5 00	6 23	29 58	18 23	18 30	26 11
10	31	07	6 00	7 16	0♁44	19 04	19 18	27 10
10	34	53	7 00	8 09	1 29	19 45	20 07	28 09
10	38	39	8 00	9 02	2 14	20 26	20 56	29 08
10	42	24	9 00	9 54	3 00	21 07	21 44	0♁08
10	46	08	10 00	10 46	3 45	21 48	22 33	1 08
10	49	52	11 00	11 38	4 30	22 29	23 22	2 08
10	53	36	12 00	12 30	5 14	23 10	24 12	3 09
10	57	19	13 00	13 22	5 59	23 51	25 01	4 09
11	01	02	14 00	14 14	6 44	24 31	25 51	5 10
11	04	45	15 00	15 06	7 28	25 12	26 40	6 11
11	08	28	16 00	15 58	8 13	25 53	27 30	7 13
11	12	10	17 00	16 49	8 57	26 34	28 21	8 14
11	15	52	18 00	17 40	9 41	27 15	29 11	9 16
11	19	33	19 00	18 32	10 26	27 56	0♁02	10 18
11	23	14	20 00	19 23	11 10	28 37	0 53	11 21
11	26	56	21 00	20 14	11 54	29 18	1 44	12 24
11	30	37	22 00	21 05	12 38	29 59	2 35	13 27
11	34	17	23 00	21 56	13 22	0♁40	3 27	14 30
11	37	58	24 00	22 46	14 06	1 21	4 19	15 34
11	41	39	25 00	23 37	14 50	2 02	5 12	16 38
11	45	19	26 00	24 28	15 34	2 44	6 04	17 42
11	48	59	27 00	25 18	16 18	3 25	6 58	18 46
11	52	40	28 00	26 09	17 02	4 06	7 51	19 51
11	56	20	29 00	26 59	17 46	4 48	8 45	20 56
CASAS			4	5	6	DS	8	9

LATITUD 48° 53' S.

tropical

TIEMPO SIDERAL			10	11	12	AS	2	3
			♈	♉	♊	♋	♌	♍
h	m	s	°	'	°	'	°	'
12	00	00	0 00	27 49	18 30	5 30	9 39	22 02
12	03	40	1 00	28 39	19 13	6 12	10 34	23 08
12	07	20	2 00	29 30	19 57	6 54	11 29	24 14
12	11	01	3 00	0♁20	20 41	7 36	12 25	25 20
12	14	41	4 00	1 10	21 25	8 18	13 21	26 27
12	18	21	5 00	2 00	22 09	9 01	14 18	27 34
12	22	02	6 00	2 50	22 53	9 43	15 15	28 42
12	25	43	7 00	3 40	23 37	10 26	16 13	29 49
12	29	23	8 00	4 30	24 21	11 09	17 11	0♁57
12	33	04	9 00	5 19	25 05	11 53	18 10	2 06
12	36	46	10 00	6 09	25 50	12 36	19 09	3 15
12	40	27	11 00	6 59	26 34	13 20	20 09	4 24
12	44	08	12 00	7 49	27 18	14 04	21 10	5 33
12	47	50	13 00	8 39	28 03	14 48	22 11	6 43
12	51	32	14 00	9 29	28 47	15 33	23 13	7 53
12	55	15	15 00	10 18	29 32	16 18	24 15	9 04
12	58	58	16 00	11 08	0♁17	17 03	25 19	10 14
13	02	41	17 00	11 58	1 02	17 49	26 23	11 25
13	06	24	18 00	12 48	1 47	18 34	27 27	12 37
13	10	08	19 00	13 38	2 32	19 21	28 33	13 49
13	13	52	20 00	14 27	3 17	20 07	29 39	15 01
13	17	36	21 00	15 17	4 03	20 54	0♁46	16 13
13	21	21	22 00	16 07	4 48	21 42	1 54	17 26
13	25	07	23 00	16 57	5 34	22 29	3 03	18 38
13	28	53	24 00	17 47	6 20	23 18	4 12	19 52
13	32	39	25 00	18 37	7 06	24 06	5 23	21 05
13	36	26	26 00	19 27	7 53	24 56	6 34	22 19
13	40	13	27 00	20 18	8 39	25 45	7 46	23 33
13	44	01	28 00	21 08	9 26	26 36	9 00	24 47
13	47	50	29 00	21 58	10 13	27 26	10 14	26 02
13	51	39	0♁00	22 49	11 00	28 18	11 29	27 16
13	55	28	1 00	23 39	11 48	29 10	12 45	28 31
13	59	18	2 00	24 30	12 36	0♁02	14 02	29 46
14	03	09	3 00	25 20	13 24	0 55	15 20	1♁02
14	07	00	4 00	26 11	14 12	1 49	16 38	2 17
14	10	52	5 00	27 02	15 01	2 44	17 58	3 33
14	14	45	6 00	27 53	15 50	3 39	19 19	4 49
14	18	38	7 00	28 44	16 39	4 35	20 41	6 05
14	22	32	8 00	29 35	17 28	5 32	22 04	7 21
14	26	27	9 00	0♁27	18 18	6 30	23 28	8 37
14	30	22	10 00	1 18	19 09	7 28	24 53	9 54
14	34	18	11 00	2 10	19 59	8 28	26 20	11 10
14	38	15	12 00	3 01	20 50	9 28	27 47	12 27
14	42	12	13 00	3 53	21 42	10 29	29 15	13 43
14	46	10	14 00	4 45	22 34	11 32	0♁44	15 00
14	50	09	15 00	5 38	23 26	12 35	2 14	16 17
14	54	08	16 00	6 30	24 19	13 39	3 45	17 33
14	58	08	17 00	7 23	25 12	14 45	5 17	18 50
15	02	09	18 00	8 15	26 05	15 52	6 50	20 07
15	06	11	19 00	9 08	27 00	17 00	8 24	21 24
15	10	13	20 00	10 01	27 54	18 09	9 59	22 40
15	14	16	21 00	10 55	28 49	19 20	11 34	23 57
15	18	20	22 00	11 48	29 45	20 32	13 11	25 13
15	22	25	23 00	12 42	0♁41	21 45	14 48	26 30
15	26	30	24 00	13 36	1 38	23 00	16 26	27 46
15	30	36	25 00	14 30	2 35	24 16	18 05	29 02
15	34	43	26 00	15 25	3 33	25 34	19 44	0♁19
15	38	50	27 00	16 19	4 32	26 54	21 24	1 34
15	42	58	28 00	17 14	5 31	28 15	23 04	2 50
15	47	07	29 00	18 09	6 30	29 38	24 45	4 06
CASAS			4	5	6	DS	8	9

LATITUD 48° 53' S.

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LATITUD 48° 53' N.

LATITUD 48° 53' N.

TIEMPO SIDERAL			10	11	12	AS	2	3
			♈	♉	♊	♋	♌	♍
h	m	s	°	'	°	'	°	'
15	51	17	0 00	19 05	7 31	1 03	26 27	5 21
15	55	27	1 00	20 00	8 32	2 30	28 09	6 37
15	59	38	2 00	20 56	9 34	3 59	29 51	7 52
16	03	49	3 00	21 53	10 36	5 30	1♄33	9 06
16	08	01	4 00	22 49	11 40	7 03	3 16	10 21
16	12	14	5 00	23 46	12 44	8 38	4 59	11 35
16	16	27	6 00	24 43	13 48	10 15	6 42	12 49
16	20	41	7 00	25 40	14 54	11 55	8 25	14 03
16	24	56	8 00	26 38	16 00	13 36	10 08	15 17
16	29	11	9 00	27 36	17 08	15 20	11 50	16 30
16	33	27	10 00	28 34	18 16	17 07	13 33	17 43
16	37	43	11 00	29 33	19 25	18 56	15 15	18 55
16	42	00	12 00	0♂31	20 34	20 47	16 57	20 08
16	46	17	13 00	1 31	21 45	22 41	18 39	21 20
16	50	35	14 00	2 30	22 57	24 37	20 20	22 31
16	54	53	15 00	3 30	24 09	26 35	22 01	23 43
16	59	11	16 00	4 30	25 23	28 36	23 41	24 54
17	03	30	17 00	5 31	26 37	0♄39	25 21	26 04
17	07	50	18 00	6 32	27 52	2 44	27 00	27 14
17	12	09	19 00	7 33	29 09	4 52	28 38	28 24
17	16	29	20 00	8 35	0♄26	7 02	0♂16	29 34
17	20	49	21 00	9 37	1 44	9 13	1 53	0♄43
17	25	10	22 00	10 39	3 04	11 27	3 29	1 52
17	29	31	23 00	11 42	4 24	13 42	5 04	3 00
17	33	52	24 00	12 45	5 46	15 59	6 38	4 08
17	38	13	25 00	13 48	7 08	18 17	8 12	5 16
17	42	34	26 00	14 52	8 31	20 36	9 44	6 23
17	46	55	27 00	15 56	9 56	22 56	11 16	7 30
17	51	17	28 00	17 01	11 21	25 17	12 46	8 37
17	55	38	29 00	18 06	12 48	27 38	14 16	9 43
18	00	00	0♂00	19 11	14 16	0♄00	15 44	10 49
18	04	22	1 00	20 17	15 44	2 22	17 12	11 54
18	08	43	2 00	21 23	17 14	4 43	18 39	12 59
18	13	05	3 00	22 30	18 44	7 04	20 04	14 04
18	17	26	4 00	23 37	20 16	9 24	21 29	15 08
18	21	47	5 00	24 44	21 48	11 43	22 52	16 12
18	26	08	6 00	25 52	23 22	14 01	24 14	17 15
18	30	29	7 00	27 00	24 56	16 18	25 36	18 18
18	34	50	8 00	28 08	26 31	18 33	26 56	19 21
18	39	11	9 00	29 17	28 07	20 47	28 16	20 23
18	43	31	10 00	0♄26	29 44	22 58	29 34	21 25
18	47	51	11 00	1 36	1♄22	25 08	0♄51	22 27
18	52	10	12 00	2 46	3 00	27 16	2 08	23 28
18	56	30	13 00	3 56	4 39	29 21	3 23	24 29
19	00	49	14 00	5 06	6 19	1♄24	4 37	25 30
19	05	07	15 00	6 17	7 59	3 25	5 51	26 30
19	09	25	16 00	7 29	9 40	5 23	7 03	27 30
19	13	43	17 00	8 40	11 21	7 19	8 15	28 29
19	18	00	18 00	9 52	13 03	9 13	9 26	29 29
19	22	17	19 00	11 05	14 45	11 04	10 35	0♄27
19	26	33	20 00	12 17	16 27	12 53	11 44	1 26
19	30	49	21 00	13 30	18 10	14 40	12 52	2 24
19	35	04	22 00	14 43	19 52	16 24	14 00	3 22
19	39	19	23 00	15 57	21 35	18 05	15 06	4 20
19	43	33	24 00	17 11	23 18	19 45	16 12	5 17
19	47	46	25 00	18 25	25 01	21 22	17 16	6 14
19	51	59	26 00	19 39	26 44	22 57	18 20	7 11
19	56	11	27 00	20 54	28 27	24 30	19 24	8 07
20	00	22	28 00	22 08	0♄09	26 01	20 26	9 04
20	04	33	29 00	23 23	1 51	27 30	21 28	10 00
CASAS			4	5	6	DS	8	9

TIEMPO SIDERAL			10	11	12	AS	2	3
			♋	♌	♍	♎	♏	♐
h	m	s	°	'	°	'	°	'
20	08	43	0 00	24 39	3 33	28 57	22 29	10 55
20	12	53	1 00	25 54	5 15	0♄22	23 30	11 51
20	17	02	2 00	27 10	6 56	1 45	24 29	12 46
20	21	10	3 00	28 26	8 36	3 06	25 28	13 41
20	25	17	4 00	29 41	10 16	4 26	26 27	14 35
20	29	24	5 00	0♄58	11 55	5 44	27 25	15 30
20	33	30	6 00	2 14	13 34	7 00	28 22	16 24
20	37	35	7 00	3 30	15 12	8 15	29 19	17 18
20	41	40	8 00	4 47	16 49	9 28	0♄15	18 12
20	45	44	9 00	6 03	18 26	10 40	1 11	19 05
20	49	47	10 00	7 20	20 01	11 51	2 06	19 59
20	53	49	11 00	8 36	21 36	13 00	3 00	20 52
20	57	51	12 00	9 53	23 10	14 08	3 55	21 45
21	01	52	13 00	11 10	24 43	15 15	4 48	22 37
21	05	52	14 00	12 27	26 15	16 21	5 41	23 30
21	09	51	15 00	13 43	27 46	17 25	6 34	24 22
21	13	50	16 00	15 00	29 16	18 28	7 26	25 15
21	17	48	17 00	16 17	0♄45	19 31	8 18	26 07
21	21	45	18 00	17 33	2 13	20 32	9 10	26 59
21	25	42	19 00	18 50	3 40	21 32	10 01	27 50
21	29	38	20 00	20 06	5 07	22 32	10 51	28 42
21	33	33	21 00	21 23	6 32	23 30	11 42	29 33
21	37	28	22 00	22 39	7 56	24 28	12 32	0♄25
21	41	22	23 00	23 55	9 19	25 25	13 21	1 16
21	45	15	24 00	25 11	10 41	26 21	14 10	2 07
21	49	08	25 00	26 27	12 02	27 16	14 59	2 58
21	53	00	26 00	27 43	13 22	28 11	15 48	3 49
21	56	51	27 00	28 58	14 40	29 05	16 36	4 40
22	00	42	28 00	0♄14	15 58	29 58	17 24	5 30
22	04	32	29 00	1 29	17 15	0♄50	18 12	6 21
22	08	21	0♄00	2 44	18 31	1 42	19 00	7 11
22	12	10	1 00	3 58	19 46	2 34	19 47	8 02
22	15	59	2 00	5 13	21 00	3 24	20 34	8 52
22	19	47	3 00	6 27	22 14	4 15	21 21	9 42
22	23	34	4 00	7 41	23 26	5 04	22 07	10 33
22	27	21	5 00	8 55	24 37	5 54	22 54	11 23
22	31	07	6 00	10 08	25 48	6 42	23 40	12 13
22	34	53	7 00	11 22	26 57	7 31	24 26	13 03
22	38	39	8 00	12 34	28 06	8 18	25 12	13 53
22	42	24	9 00	13 47	29 14	9 06	25 57	14 43
22	46	08	10 00	14 59	0♄21	9 53	26 43	15 33
22	49	52	11 00	16 11	1 27	10 39	27 28	16 22
22	53	36	12 00	17 23	2 33	11 26	28 13	17 12
22	57	19	13 00	18 35	3 37	12 11	28 58	18 02
23	01	02	14 00	19 46	4 41	12 57	29 43	18 52
23	04	45	15 00	20 56	5 45	13 42	0♄28	19 42
23	08	28	16 00	22 07	6 47	14 27	1 13	20 31
23	12	10	17 00	23 17	7 49	15 12	1 57	21 21
23	15	52	18 00	24 27	8 50	15 56	2 42	22 11
23	19	33	19 00	25 36	9 51	16 40	3 26	23 01
23	23	14	20 00	26 45	10 51	17 24	4 10	23 51
23	26	56	21 00	27 54	11 50	18 07	4 55	24 41
23	30	37	22 00	29 03	12 49	18 51	5 39	25 30
23	34	17	23 00	0♄11	13 47	19 34	6 23	26 20
23	37	58	24 00	1 18	14 45	20 17	7 07	27 10
23	41	39	25 00	2 26	15 42	20 59	7 51	28 00
23	45	19	26 00	3 33	16 39	21 42	8 35	28 50
23	48	59	27 00	4 40	17 35	22 24	9 19	29 40
23	52	40	28 00	5 46	18 31	23 06	10 03	0♄30
23	56	20	29 00	6 52	19 26	23 48	10 47	1 21
CASAS			4	5	6	DS	8	9

LATITUD 48° 53' S.

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