

Spain

E=East Longitude W=West Longitude N= North Latitude S= South Latitude Az=Azimuth EI=Elevation Sk=Skew

		Türksat	Hellas	Eutelsat	ASTRA	ASTRA	ASTRA 1	Eutelsat	Hotbird	Eutelsat	Eutelsat	Sirius 4	Intelsat	Amos	Atlantic	Hispatat	
		2A/3A	Sat 2	W4/Sesat	1D/5A	2A-2D	1E/1G/3A					F/H/KR/L/M	W2				W1
		42.0 East	39.0 East	36.0 East	31.5 East	28.2 East	23.5 East	19.2 East	16.0 East	13.0 East	10.0 East	7.0 East	4.8 East	1.0 West	4.0 West	5.0 West	30.0 West
Albacete N 39.0, W 1.8	Az	123.3	126.1	129.1	133.8	137.5	143.1	148.6	153.0	157.2	161.6	166.2	169.6	178.7	183.5	185.1	220.4
	EI	26.3	28.4	30.4	33.2	35.2	37.8	39.8	41.2	42.3	43.2	43.9	44.3	44.8	44.8	44.7	36.2
	Sk	-40.5	-38.9	-37.1	-27.1	-24.7	-20.8	-16.9	-20.7	-17.5	-14.2	-10.7	-8.1	-1.0	2.7	3.9	30.3
Algeciras N 36.2, W 5.5	Az	118.4	121.0	123.7	128.1	131.5	136.8	142.1	146.3	150.5	154.9	159.4	162.9	172.4	177.5	179.2	217.7
	EI	25.2	27.4	29.6	32.8	35.1	38.1	40.6	42.2	43.7	44.9	46.0	46.6	47.7	48.0	48.0	40.7
	Sk	-45.2	-43.8	-42.2	-32.4	-30.2	-26.5	-22.7	-26.6	-23.4	-20.1	-16.5	-13.7	-6.1	-2.1	-0.7	29.5
Alicante N 38.4, W 0.5	Az	124.1	127.0	130.0	134.8	138.6	144.4	150.0	154.5	158.9	163.4	168.0	171.5	180.8	185.6	187.2	222.3
	EI	27.6	29.7	31.7	34.5	36.4	39.0	41.0	42.3	43.3	44.2	44.8	45.2	45.5	45.4	45.3	36.0
	Sk	-40.4	-38.8	-36.9	-26.8	-24.2	-20.2	-16.0	-19.7	-16.4	-13.0	-9.4	-6.7	0.6	4.4	5.7	31.9
Almeria N 36.9, W 2.5	Az	121.4	124.2	127.1	131.7	135.3	140.9	146.5	150.9	155.2	159.7	164.4	168.0	177.5	182.5	184.2	220.9
	EI	27.0	29.2	31.3	34.4	36.5	39.2	41.5	43.0	44.2	45.2	46.0	46.5	47.2	47.2	47.1	38.4
	Sk	-43.0	-41.4	-39.7	-29.7	-27.2	-23.3	-19.2	-22.9	-19.6	-16.1	-12.4	-9.6	-2.0	2.0	3.3	31.6
Avila N 40.7, W 4.7	Az	121.6	124.3	127.2	131.7	135.2	140.6	145.8	149.9	153.9	158.1	162.4	165.6	174.3	178.9	180.5	215.9
	EI	23.3	25.4	27.4	30.2	32.2	34.8	36.9	38.4	39.5	40.6	41.4	41.9	42.8	42.9	42.9	36.3
	Sk	-40.2	-38.8	-37.2	-27.5	-25.3	-21.8	-18.2	-22.3	-19.5	-16.4	-13.3	-10.9	-4.3	-0.8	0.4	26.4
Badajoz N 38.8, W 7.0	Az	118.6	121.2	123.9	128.2	131.6	136.8	141.9	145.9	149.9	154.0	158.3	161.6	170.5	175.2	176.8	214.1
	EI	22.7	24.9	27.0	30.1	32.2	35.1	37.5	39.1	40.5	41.7	42.8	43.4	44.6	45.0	45.0	39.1
	Sk	-43.2	-41.8	-40.3	-30.8	-28.6	-25.3	-21.8	-25.9	-23.0	-20.0	-16.8	-14.3	-7.4	-3.7	-2.5	25.9
Barcelona N 41.4, E 2.2	Az	128.4	131.5	134.7	139.7	143.6	149.5	155.2	159.6	163.9	168.3	172.8	176.1	184.8	189.3	190.8	223.6
	EI	27.5	29.3	31.1	33.6	35.3	37.4	39.1	40.1	40.9	41.5	41.9	42.1	42.1	41.7	41.6	32.0
	Sk	-36.0	-34.2	-32.3	-22.0	-19.4	-15.4	-11.4	-15.1	-12.0	-8.8	-5.4	-3.0	3.6	7.0	8.1	31.2
Bilbao N 43.3, W 2.9	Az	124.5	127.4	130.4	135.1	138.7	144.1	149.4	153.5	157.4	161.5	165.7	168.9	177.2	181.6	183.1	216.7
	EI	23.0	24.9	26.7	29.3	31.1	33.4	35.3	36.5	37.5	38.4	39.1	39.5	40.0	40.0	40.0	33.1
	Sk	-36.8	-35.3	-33.7	-23.9	-21.7	-18.3	-14.8	-19.0	-16.2	-13.3	-10.3	-8.1	-2.0	1.2	2.2	25.8
Burgos N 42.4, W 3.7	Az	123.4	126.2	129.1	133.7	137.3	142.7	147.9	152.0	156.0	160.1	164.4	167.5	176.0	180.4	181.9	216.2
	EI	23.1	25.0	26.9	29.6	31.4	33.8	35.8	37.1	38.2	39.1	39.9	40.3	41.0	41.1	41.0	34.3
	Sk	-38.1	-36.6	-35.0	-25.3	-23.1	-19.6	-16.1	-20.3	-17.5	-14.5	-11.5	-9.2	-3.0	0.3	1.4	25.9
Cadiz N 36.5, W 6.3	Az	117.9	120.5	123.2	127.5	130.9	136.1	141.3	145.4	149.5	153.8	158.3	161.8	171.1	176.1	177.8	216.4
	EI	24.4	26.7	28.9	32.1	34.3	37.3	39.9	41.6	43.0	44.3	45.4	46.1	47.3	47.6	47.6	40.8
	Sk	-45.3	-43.9	-42.3	-32.6	-30.4	-26.9	-23.2	-27.2	-24.1	-20.8	-17.3	-14.6	-7.1	-3.1	-1.8	28.5
Cartagena N 37.6, W 1.0	Az	123.2	126.0	129.0	133.8	137.5	143.2	148.9	153.4	157.8	162.3	167.0	170.6	180.0	184.9	186.5	222.3
	EI	27.7	29.8	31.9	34.8	36.8	39.4	41.5	42.9	44.0	44.9	45.6	46.0	46.4	46.3	46.2	36.9
	Sk	-41.5	-39.9	-38.0	-27.9	-25.4	-21.3	-17.2	-20.8	-17.4	-13.9	-10.2	-7.5	0.0	3.9	5.2	32.2

Cordoba N 37.8, W 4.8	Az	119.9	122.6	125.4	129.8	133.3	138.7	144.0	148.2	152.4	156.7	161.2	164.6	173.8	178.7	180.3	217.5
	EI	24.9	27.0	29.2	32.2	34.3	37.2	39.5	41.1	42.4	43.5	44.5	45.0	46.0	46.2	46.2	38.9
	Sk	-43.2	-41.7	-40.1	-30.4	-28.1	-24.4	-20.7	-24.6	-21.5	-18.2	-14.8	-12.1	-4.9	-1.0	0.3	28.8
Gijon N 43.5, W 5.7	Az	122.1	124.8	127.7	132.2	135.7	140.9	146.0	150.0	153.8	157.8	161.9	164.9	173.2	177.5	179.0	213.3
	EI	21.1	23.0	24.9	27.6	29.5	31.9	33.9	35.3	36.4	37.4	38.2	38.7	39.6	39.8	39.8	34.2
	Sk	-37.9	-36.6	-35.0	-25.5	-23.4	-20.2	-16.9	-21.3	-18.7	-15.9	-13.0	-10.9	-4.9	-1.8	-0.7	23.4
Granada N 37.2, W 3.6	Az	120.6	123.3	126.2	130.7	134.3	139.8	145.2	149.5	153.8	158.2	162.8	166.3	175.7	180.7	182.3	219.4
	EI	26.1	28.2	30.4	33.4	35.5	38.4	40.7	42.2	43.5	44.5	45.4	46.0	46.8	46.9	46.8	38.7
	Sk	-43.3	-41.7	-40.0	-30.2	-27.8	-24.0	-20.1	-23.8	-20.6	-17.2	-13.6	-10.9	-3.4	0.5	1.8	30.4
Hospitalet de N 41.4, E 2.1	Az	128.3	131.4	134.5	139.6	143.5	149.4	155.1	159.5	163.8	168.2	172.6	175.9	184.7	189.2	190.7	223.5
	EI	27.4	29.3	31.1	33.6	35.3	37.4	39.1	40.1	40.9	41.5	41.9	42.1	42.1	41.8	41.6	32.1
	Sk	-36.0	-34.3	-32.3	-22.1	-19.5	-15.5	-11.4	-15.2	-12.1	-8.9	-5.5	-3.1	3.5	6.9	8.0	31.1
Ibiza N 38.9, E 1.4	Az	126.2	129.2	132.3	137.3	141.2	147.1	152.9	157.5	161.9	166.5	171.1	174.6	183.8	188.6	190.1	224.2
	EI	28.6	30.6	32.5	35.2	37.1	39.4	41.3	42.5	43.4	44.1	44.6	44.8	44.9	44.6	44.5	34.5
	Sk	-38.9	-37.1	-35.1	-24.9	-22.2	-18.0	-13.8	-17.4	-14.0	-10.5	-6.9	-4.2	3.0	6.7	7.9	32.9
La Coruna N 43.3, W 8.4	Az	119.6	122.2	125.0	129.4	132.7	137.8	142.7	146.5	150.3	154.1	158.1	161.1	169.3	173.6	175.1	210.0
	EI	19.4	21.4	23.4	26.1	28.1	30.7	32.9	34.3	35.6	36.7	37.7	38.3	39.5	39.9	39.9	35.5
	Sk	-39.3	-38.0	-36.6	-27.2	-25.3	-22.3	-19.2	-23.7	-21.2	-18.5	-15.7	-13.6	-7.8	-4.7	-3.6	21.3
Las Palmas N 28.1, W 15.4	Az	106.8	108.6	110.6	113.8	116.3	120.3	124.3	127.7	131.1	134.8	138.8	142.0	151.4	156.8	158.7	208.9
	EI	20.2	22.9	25.6	29.5	32.4	36.4	39.9	42.4	44.7	46.9	48.9	50.3	53.5	54.9	55.2	53.4
	Sk	-57.6	-56.7	-55.7	-46.8	-45.3	-42.6	-39.8	-44.3	-41.7	-38.8	-35.5	-32.9	-25.0	-20.3	-18.7	25.3
Madrid N 40.4, W 3.7	Az	122.3	125.1	128.0	132.6	136.2	141.6	146.9	151.1	155.2	159.4	163.8	167.0	175.8	180.5	182.0	217.3
	EI	24.2	26.2	28.2	31.0	33.0	35.6	37.7	39.1	40.2	41.2	42.0	42.5	43.2	43.3	43.3	36.0
	Sk	-40.1	-38.6	-36.9	-27.1	-24.8	-21.2	-17.6	-21.6	-18.7	-15.6	-12.3	-9.9	-3.2	0.4	1.5	27.5
Malaga N 36.7, W 4.4	Az	119.6	122.3	125.1	129.5	133.1	138.5	143.8	148.1	152.3	156.8	161.4	164.8	174.3	179.3	181.0	218.7
	EI	25.7	28.0	30.1	33.2	35.4	38.3	40.7	42.3	43.6	44.8	45.8	46.3	47.3	47.4	47.4	39.6
	Sk	-44.2	-42.7	-41.0	-31.2	-28.9	-25.1	-21.2	-25.1	-21.9	-18.5	-14.9	-12.1	-4.6	-0.5	0.8	30.1
Palma de Mallorca N 39.6, E 2.7	Az	127.9	131.0	134.1	139.2	143.2	149.2	155.1	159.7	164.1	168.6	173.3	176.7	185.8	190.4	192.0	225.2
	EI	29.0	30.9	32.8	35.4	37.1	39.4	41.1	42.1	42.9	43.6	44.0	44.1	44.0	43.6	43.5	33.1
	Sk	-37.4	-35.6	-33.6	-23.2	-20.5	-16.2	-12.0	-15.5	-12.2	-8.7	-5.2	-2.5	4.5	8.0	9.2	33.2
Salamanca N 41.0, W 5.7	Az	120.8	123.5	126.4	130.8	134.3	139.6	144.7	148.8	152.7	156.8	161.0	164.2	172.9	177.4	178.9	214.5
	EI	22.5	24.5	26.5	29.4	31.4	34.0	36.2	37.7	38.9	39.9	40.8	41.4	42.4	42.6	42.6	36.5
	Sk	-40.4	-39.0	-37.4	-27.8	-25.7	-22.3	-18.8	-23.0	-20.3	-17.3	-14.2	-11.8	-5.4	-2.0	-0.8	25.3
San Sebastian N 43.3, W 2.0	Az	125.4	128.3	131.3	136.0	139.7	145.2	150.5	154.7	158.7	162.8	167.0	170.1	178.5	182.9	184.4	217.8
	EI	23.6	25.5	27.3	29.8	31.6	33.8	35.7	36.9	37.8	38.6	39.2	39.6	40.0	40.0	40.0	32.7
	Sk	-36.4	-34.9	-33.2	-23.4	-21.1	-17.6	-14.0	-18.2	-15.4	-12.4	-9.4	-7.2	-1.1	2.1	3.2	26.5
Santa Cruz de la Palma N 28.7, W 17.8	Az	105.6	107.5	109.4	112.4	114.9	118.7	122.5	125.7	128.9	132.3	136.1	139.1	147.8	152.9	154.7	204.2
	EI	17.9	20.6	23.2	27.2	30.0	34.0	37.6	40.2	42.5	44.7	46.8	48.3	51.7	53.2	53.7	53.9
	Sk	-57.7	-56.8	-55.8	-47.2	-45.7	-43.3	-40.7	-45.5	-43.1	-40.4	-37.5	-35.1	-27.8	-23.5	-22.0	21.1

Santa Cruz de N 28.5, W 16.3	Az	106.4	108.3	110.2	113.4	115.9	119.8	123.8	127.1	130.4	134.0	137.9	141.0	150.2	155.4	157.3	207.1
	EI	19.3	22.0	24.6	28.5	31.4	35.4	38.9	41.5	43.8	46.0	48.0	49.4	52.7	54.1	54.5	53.5
	Sk	-57.5	-56.6	-55.5	-46.8	-45.2	-42.7	-39.9	-44.5	-42.0	-39.2	-36.1	-33.6	-25.9	-21.4	-19.8	23.6
Santander N 43.5, W 3.9	Az	123.7	126.5	129.5	134.1	137.7	143.0	148.2	152.3	156.2	160.2	164.4	167.5	175.8	180.2	181.6	215.4
	EI	22.3	24.2	26.0	28.6	30.4	32.8	34.7	36.0	37.0	37.9	38.6	39.1	39.7	39.8	39.8	33.4
	Sk	-37.1	-35.7	-34.1	-24.4	-22.3	-18.9	-15.5	-19.7	-17.0	-14.2	-11.3	-9.1	-3.1	0.1	1.2	24.9
Sevilla N 37.4, W 6.0	Az	118.7	121.3	124.0	128.4	131.8	137.0	142.2	146.4	150.5	154.7	159.2	162.6	171.8	176.7	178.4	216.2
	EI	24.2	26.4	28.6	31.7	33.9	36.8	39.2	40.9	42.3	43.5	44.5	45.2	46.3	46.6	46.6	39.9
	Sk	-44.2	-42.8	-41.2	-31.5	-29.3	-25.8	-22.1	-26.1	-23.1	-19.8	-16.4	-13.8	-6.5	-2.6	-1.3	28.0
Valencia N 39.3, W 0.7	Az	124.5	127.3	130.4	135.2	138.9	144.6	150.3	154.7	159.0	163.4	168.0	171.4	180.5	185.2	186.8	221.5
	EI	26.9	28.9	30.9	33.7	35.6	38.1	40.0	41.3	42.3	43.2	43.8	44.2	44.5	44.4	44.3	35.4
	Sk	-39.6	-38.0	-36.1	-26.1	-23.6	-19.6	-15.6	-19.4	-16.1	-12.8	-9.3	-6.7	0.4	4.0	5.2	30.9
Valladolid N 41.6, W 4.7	Az	122.0	124.8	127.7	132.2	135.7	141.1	146.3	150.4	154.3	158.4	162.7	165.9	174.4	179.0	180.5	215.5
	EI	22.8	24.8	26.8	29.6	31.5	34.0	36.1	37.5	38.7	39.6	40.5	41.0	41.8	41.9	41.9	35.5
	Sk	-39.3	-37.9	-36.3	-26.6	-24.5	-21.0	-17.5	-21.7	-18.9	-16.0	-12.9	-10.5	-4.2	-0.8	0.3	25.7
Vigo N 42.2, W 8.7	Az	118.8	121.4	124.2	128.5	131.8	136.9	141.8	145.6	149.4	153.3	157.3	160.3	168.6	173.0	174.5	210.1
	EI	19.8	21.8	23.8	26.7	28.7	31.4	33.7	35.2	36.5	37.7	38.7	39.4	40.6	41.0	41.1	36.7
	Sk	-40.5	-39.2	-37.8	-28.4	-26.5	-23.4	-20.3	-24.7	-22.2	-19.5	-16.6	-14.4	-8.4	-5.2	-4.1	21.8
Zaragoza N 41.6, W 1.0	Az	125.5	128.4	131.4	136.2	139.9	145.5	151.0	155.3	159.4	163.7	168.1	171.3	180.0	184.5	186.0	219.9
	EI	25.3	27.2	29.1	31.7	33.5	35.8	37.7	38.9	39.9	40.6	41.2	41.6	41.9	41.8	41.8	33.6
	Sk	-37.5	-35.9	-34.1	-24.2	-21.8	-18.0	-14.3	-18.2	-15.2	-12.1	-8.9	-6.5	0.0	3.4	4.5	28.6