

# SWBC TRANSMITTER SITE LOCATIONS

## AFRICA, ASIA, EUROPE, OCEANIA

### FT Staff

The exact geographic location of shortwave broadcast transmitter sites is becoming increasingly important to radio hobbyists. One main driving factor for this change is the proliferation of PC compatible software now available that will find To/From Azimuthal Bearings, Sunrise/Sunset Times and Grayline Targets. Other sophisticated mapping programs such as Geoclock, DX Aid and DX Edge also require this information. Unfortunately, each of these programs also seems to require the geographical coordinants in a slightly different format. Our database is set up with the following conventions:

East Longitude is Plus  
North Latitude is Plus  
West Longitude is Minus  
South Latitude is Minus

Fractions of a degree are in DECIMAL, not minutes and seconds

The other major reasons to compile and publish this database relate to the differing way of counting radio countries. Country counting is an arcane science with many differing points of view and is far too complex to explore here. There are at least four different listings of 'radio countries' in use by radio listening hobbyists throughout the world. We understand that the most widely used list is that of the North American Shortwave Association (NASWA). Since most of our readers are familiar with that list, the NASWA approach to radio country organization has guided our work.

We have sorted the databases printed here ALPHABETICALLY BY NASWA COUNTRY and by SITE NAME within each NASWA country. The NASWA country list is based on country names as they existed in 1945, although newer names are present in some cases. Because NASWA is a club that specializes only in shortwave *broadcast* radio, the NASWA Country List only recognizes countries from which shortwave *broadcasting* has taken place.

The other radio country list included in the database is that of the European DX Council. The EDXC is an umbrella organization encompassing many different forms of the radio listening hobby. Therefore, the EDXC list contains a few countries not recognized by the NASWA list. These countries are in the database at the end of the lists of each continent. The fact that there is no corresponding NASWA country is acknowledged by placing asterisks (\*\*\*\*) in the NASWA column.

You will also note that NASWA fragments some 'real' countries into several radio countries while the EDXC listing does not often do so. The classic example of the policy is Indonesia. EDXC recognizes only one country, congruent to the modern political entity of Indonesia. NASWA recognizes the major islands and groupings as eight separate radio countries: Sumatra, Java, Bali, Lesser Sunda Islands (Nusa Tenggara), Borneo (Kalimantan), Celebes Is. (Sulawesi), Molucca Is. (Maluku), Netherlands New Guinea (Irian Jaya). Each of these approaches is reflected in databases.

We hope that users will find these databases a useful guide as to which transmitter sites are located in which radio country. We also hope that the listings will serve as a useful conversion table between the two most widely used radio country lists, those of NASWA and EDXC. If you are unfamiliar with the NASWA Country List, you may find that accessing the list from the right hand side (via the EDXC name) is easier.

The remainder of the databases, North and South America, are currently being developed by FT Staff. As any DXer of Latin Station knows, that is an arduous task. Those two remaining databases will be published in *Fine Tuning's Proceedings 1992*.

We have worked very hard to make these lists as complete and error-free as possible. However, this is a very complex endeavor, prone to human error and the SWBC scene changes almost daily. We are sure that a few errors, both of omission and commission exist in these databases. If you note significant errors, we would really appreciate it if you could drop us a note so that we may publish an accurate correction sheet in *Proceeding 1992*. Please drop us a note in care of John Bryant, Rt. 5, Box 14, Stillwater, OK, USA 74074.

Copies of the NASWA Country List and Awards Program are available for \$2.00 from Bill Oliver, Publisher, 45 Wildflower Road, Levittown, PA, 19057, USA

Copies of the EDXC Country list are available from EDXC along with a number of other publications. Send 2 IRC's for more information to EDXC, P.O. Box 4, St. Ives, Huntingdon, PE17 4FE, England

fine tuning's  
**SHORTWAVE BROADCAST STATION TRANSMITER SITES**  
**A\*F\*R\*I\*C\*A**

NASWA COUNTRY	SITE NAME	LAT.	Lon.	EDXC COUNTRY	STATE/PROV
A-E Sudan(Sudan)	Omdurman	15.63	32.50	Sudan	
Algeria	Algiers	37.00	6.00	Algeria	
Angola	Benguela	-12.58	13.42	Angola	Benguela
Angola	Cabinda	-5.55	12.20	Cabinda	Cabinda
Angola	Huambo	-12.72	15.78	Angola	Huambo
Angola	Kuito	-12.50	17.25	Angola	Bie
Angola	Lobito	-12.33	13.56	Angola	Benguela
Angola	Luanda	-9.00	14.00	Angola	Luanda
Angola	Lubango	-14.92	13.50	Angola	Huila
Angola	M'BanzaKongo	-6.27	14.25	Angola	Zaire
Angola	Menongue	-14.60	17.80	Angola	Kuando-Kuang
Angola	Moxico	-13.00	20.50	Angola	Moxico
Angola	N'Dalatando	-9.23	14.90	Angola	Kuanza-Norte
Angola	Saurimo	-9.64	20.40	Angola	Lunda-Sul
Angola	Uige	-7.50	15.10	Angola	Uige
Ascension Is.	Ascension Is	-7.95	-14.35	Ascension Is	
Azores	Azores	28.00	-38.50	Azores(Euro)	
Basutoland(Leso)	Maseru	-29.38	27.50	Lesotho	
Bechuanaland(Bo)	Gaborone	-23.00	25.50	Botswana	
Bel.Co.(Katanga)	Lubumbashi	-11.66	27.47	Zaire	Katanga
BelgianCongo(Za)	Bukavu	-2.50	28.87	Zaire	Bukavu
BelgianCongo(Za)	Bunia	1.56	30.25	Zaire	Haut
BelgianCongo(Za)	Kananga	-5.90	22.42	Zaire	Kasia Occidente
BelgianCongo(Za)	Kinshasa	-5.50	15.50	Zaire	Kinshasa
BelgianCongo(Za)	Mbandaka	0.07	18.27	Zaire	Equateur
BelgianCongo(Za)	Mbuji-Mayi	-6.15	23.64	Zaire	Kasai Oriente
Br. Somaliland	Hargeisa	9.55	44.05	Somalia	
Canary Is.	Tenerife	28.31	-16.56	Canary Is.	
Cape Verde	Cape Verde	16.00	-24.00	Cape Verde	
Comoros (F.I.R.)	Moroni	-11.68	43.27	Comoros Repu	
Comoros(Mayotte)	Dzaoudzi	-12.69	45.27	Mayotte	
Egypt	Cairo	30.00	32.00	Egypt	
Ethiopia	Addis Ababa	9.00	38.00	Ethiopia	
F.E.A.(CentAfRe)	Bangui	4.00	18.00	Cent.African	
F.E.A.(Chad)	Moundou	8.58	16.27	Chad	
F.E.A.(Chad)	N'djamena	12.11	15.05	Chad	
F.E.A.(Gabon)	Libreville	5.00	9.50	Gabon	
F.E.A.(PRCongo)	Brazzaville	-5.00	15.00	Congo	
F.E.A.(PRCongo)	Pointe Noire	-4.80	11.86	Congo	
F.Morocco(Moroc)	Rabat	34.00	-7.00	Morocco	
F.W.A.(Benin)	Cotonu	6.35	2.58	Benin	
F.W.A.(Benin)	Parakou	9.33	2.63	Benin	
F.W.A.(Burkina)	Ouagadougou	12.50	-2.00	Burkina Faso	
F.W.A.(Guinea)	Conakry	9.50	-13.50	Guinea	
F.W.A.(Ivory Co)	Abidjan	6.00	-4.50	Ivory Coast	
F.W.A.(Mali)	Bamako	13.00	-8.00	Mali	
F.W.A.(Mauritan)	Nouakchott	18.00	-16.00	Mauritania	
F.W.A.(Niger)	Naimey	14.00	3.00	Niger	
F.W.A.(Senegal)	Dakar	14.50	-17.00	Senegal	
F.W.A.(Senegal)	Tambacounda	13.78	-13.66	Senegal	
F.W.A.(Senegal)	Ziguinchor	12.58	-16.27	Senegal	
FSomaliland (Dj)	Djibouti	11.50	43.00	Djibouti	

FTogoland (Togo)	Kara	9.58	1.15	Togo	
FTogoland (Togo)	Lome	6.27	1.20	Togo	
Fern.Poo(Eq.Gu.)	Malabo	3.75	8.78	Eq. Guinea	
Fr. Cameroun	Bafoussam	5.48	10.40	Cameroun	Ouest
Fr. Cameroun	Bertoua	4.58	13.68	Cameroun	Est
Fr. Cameroun	Buea	4.03	9.30	Cameroun	Sud-Ouest
Fr. Cameroun	Douala	4.05	9.69	Cameroun	Littoral
Fr. Cameroun	Garoua	9.30	13.24	Cameroun	Nord
Fr. Cameroun	Yaounde	4.00	12.00	Cameroun	Centre-Sud
Gambia	Banjul	13.00	-17.00	Gambia	
GoldCoast(Ghana)	Accra	6.00	-1.00	Ghana	
It. Somaliland	Mogadishu	2.00	45.00	Somaliland	
Kenya	Nairobi	-2.00	36.00	Kenya	
Liberia	Monrovia	6.70	-11.50	Liberia	
Libya	Banghazi	32.11	20.06	Libya	
Libya	Tripoli	33.00	13.00	Libya	
Madagascar	Antananarivo	-18.84	47.58	Madagascar	
Madagascar	Talata/Vol.	-18.71	43.61	Madagascar	
Mauritius	Forest Side	-20.31	57.22	Mauritius	
Mozambique	Beira	-18.82	32.36	Mozambique	Sofala
Mozambique	Maputo	-25.98	32.36	Mozambique	Maputo
Mozambique	Nampula	-15.11	39.20	Mozambique	Nampula
Mozambique	Pemba	-13.03	40.75	Mozambique	Cabo-Delgado
Mozambique	Quelimane	-17.90	36.90	Mozambique	Zambezia
Nigeria	Ibadan	7.28	3.50	Nigeria	Oyo State
Nigeria	Jos	9.92	8.89	Nigeria	Plateau State
Nigeria	Kaduna	10.55	7.45	Nigeria	Kaduna State
Nigeria	Lagos	7.00	3.00	Nigeria	Lagos FCT
Nigeria	Maiduguri	11.86	13.17	Nigeria	Borno State
Nigeria (Biafra)	Enugu	6.45	7.45	Nigeria	Anambra State
NorthernRhodesia	Lusaka	-15.00	29.00	Zambia	
Nyasaland(Malawi)	Blantyre	-15.78	35.00	Malawi	
Port.Guinea(G.B)	Bissau	11.86	-15.58	GuineaBissau	
Reunion Is.	Reunion	-21.10	55.60	Reunion Is.	
Rio Muni(Eq.Gu.)	Bata	1.86	9.75	Eq. Guinea	
Ruanda-Urundi(Bu)	Bujumbura	-3.39	29.36	Burundi	
Ruanda-Urundi(Rw)	Kigali	-2.00	30.20	Rwanda	
S.W.Africa (Nam)	Windhoek	-22.00	18.00	Namibia	
Sao Tome	Sao Tome	0.33	6.76	Sao Tome	
Seychelles	Victoria	-6.00	52.00	Seychelles	
Sierra Leone	Freetown	8.10	-13.00	Sierra Leone	
South Africa	Meyerton	-26.58	28.02	South Africa	
South Africa	Umtata	-31.58	28.78	South Africa	
SouthernRhodesia	Harare	-17.84	31.05	Zimbabwe	
Sp.Morocco (Mor)	Nador	34.97	-2.92	Morocco	
Sp.Sahara(Moroc)	El Aaiun	27.15	-13.20	Morocco	
St. Helena	St. Helena	-15.95	-5.68	St. Helena	
Swaziland	Manzini	-26.30	31.25	Swaziland	
Swaziland	Mbabne	-26.00	32.50	Swaziland	
Tanganyika(Tanz)	DarEsSalaam	-7.50	39.00	Tanzania	
Tangier(Morocco)	Tangier	35.75	-5.84	Morocco	
Tristan Da Cunha	Tristan	-12.00	-37.00	Tristan Da C	
Tunisia	Sfax	34.97	10.58	Tunisia	
Tunisia	Tunis	36.78	10.19	Tunisia	
Uganda	Kampala	2.00	33.00	Uganda	
Zanzibar(Tanzania)	Zanzibar	-6.08	39.23	Tanzania	
****	Madeira	32.75	-17.00	Madeira	
****	Melilla	35.30	-3.00	Melilla	
****	Walvis Bay	-23.00	14.52	Walvis Bay	

fine tuning's  
**SHORTWAVE BROADCAST STATION TRANSMITER SITES**  
**A\*S\*I\*A**

NASWA COUNTRY	SITE NAME	LAT.	LON.	EDXC COUNTRY	STATE/PROV
Abu Dhabi (UAE)	Abu Dhabi	24.40	54.28	U.A.E.	
Aden (YeminiRep)	Aden	12.83	45.05	Southern Yem	
Afganistan	Kabul	34.50	69.17	Afganistan	
Andaman&Nicobar	Port Blair	12.00	92.50	Andaman & Ni	
Armenian SSR	Yerevan	40.18	44.50	Soviet Union	
Asiatic RSFSR	Anadyr	64.75	177.50	Soviet Union	Magadan Oblast
Asiatic RSFSR	Birobidzhan	48.80	132.95	Soviet Union	Khabarovsk K.
Asiatic RSFSR	Blagoveshcen	50.33	127.60	Soviet Union	Amur Oblast
Asiatic RSFSR	Chanty-Mansi	61.00	69.10	Soviet Union	Tyumen Oblast
Asiatic RSFSR	Chita	52.05	113.50	Soviet Union	Chita Oblast
Asiatic RSFSR	Irkutsk	52.30	104.25	Soviet Union	Irkutsk Oblast
Asiatic RSFSR	Khabarovsk	48.00	140.00	Soviet Union	Khabarovsk K.
Asiatic RSFSR	Komsomolsk	50.00	138.00	Soviet Union	Khabarovsk K.
Asiatic RSFSR	Krasnojarsk	56.02	92.83	Soviet Union	Krasnojarsk
Asiatic RSFSR	Kyzyl	51.73	97.48	Soviet Union	Tuva ASSR
Asiatic RSFSR	Magadan	60.00	152.00	Soviet Union	Magadan Oblast
Asiatic RSFSR	Novosibirsk	55.07	83.08	Soviet Union	Novosibirsk
Asiatic RSFSR	Palana	59.12	159.96	Soviet Union	Kamchatka Obl
Asiatic RSFSR	Petropavlovs	52.00	158.00	Soviet Union	Kamchatka Obl
Asiatic RSFSR	T'umen'	57.15	65.55	Soviet Union	T'umen' Oblast
Asiatic RSFSR	Ufa	54.73	55.93	Soviet Union	Bashkir ASSR
Asiatic RSFSR	Ulan-Ude	51.85	107.61	Soviet Union	Buryat ASSR
Asiatic RSFSR	Vladivostok	43.15	131.88	Soviet Union	Primor Krai
Asiatic RSFSR	Yakutsk	62.00	129.66	Soviet Union	Yakut ASSR
Asiatic RSFSR	Yuzhno-Sakha	47.00	143.00	Soviet Union	Sakhalin Obl
Azerbaijan SSR	Baku	40.37	49.88	Soviet Union	
Bahrain	Bahrain	26.00	50.50	Bahrain	
Bali (Bali,Indo)	Denpasar	-8.75	115.20	Indonesia	Bali
Bhutan	Thimphu	27.50	89.66	Bhutan	
Borneo(Kal,Indo)	Banjarmasin	-3.33	114.58	Indonesia	Kal. Selatan
Borneo(Kal,Indo)	Ketapang	-1.87	109.98	Indonesia	Kal. Barat
Borneo(Kal,Indo)	Palangkaraya	-2.27	113.93	Indonesia	Kal. Tengah
Borneo(Kal,Indo)	Pontianak	-0.03	109.33	Indonesia	Kal. Barat
Borneo(Kal,Indo)	Samarinda	-0.50	117.15	Indonesia	Kal. Timur
Borneo(Kal,Indo)	TanjungSelor	2.85	117.37	Indonesia	Kal. Timur
Borneo(Kal,Indo)	Tenggarong	-0.20	116.97	Indonesia	Kal. Timur
Br. North Borneo	KotaKinabalu	5.92	116.08	MalaysiaEast	
Brunei	Brunei	4.93	114.97	Brunei	
Burma (Myanmar)	Rangoon	16.43	96.15	Burma	
Burma (Myanmar)	Taunggyi	20.90	97.00	Burma	
Celebese Is(Sul)	Gorontalo	0.55	123.05	Indonesia	Sula. Utara
Celebese Is(Sul)	Kendari	-3.95	122.58	Indonesia	Sula. Tenggara
Celebese Is(Sul)	Kotamobagu	0.77	124.32	Indonesia	Sula. Utara
Celebese Is(Sul)	Manado	1.48	124.85	Indonesia	Sula. Utara
Celebese Is(Sul)	Palopo	-3.00	120.20	Indonesia	Sula. Selatan
Celebese Is(Sul)	Palu	-0.88	119.88	Indonesia	Sula. Tengah
Celebese Is(Sul)	UjungPandang	-5.12	119.40	Indonesia	Sula. Selatan
Ceylon(SriLanka)	Colombo	7.10	79.95	Sri Lanka	
Ceylon(SriLanka)	Ekala	7.10	79.95	Sri Lanka	
Ceylon(SriLanka)	Trincomalee	8.73	81.17	Sri Lanka	

NASWA COUNTRY	SITE NAME	LAT.	LON.	EDXC COUNTRY	STATE/PROV
China (P.R.C.)	Abagnar Qi	43.92	116.08	China	Nei Monggol
China (P.R.C.)	Baoding	38.87	115.48	China	Hebei
China (P.R.C.)	Baoji	34.50	107.15	China	Shaanxi
China (P.R.C.)	Beijing	39.92	116.42	China	Beijing
China (P.R.C.)	Changi	44.02	87.33	China	Xinjiang Uygur
China (P.R.C.)	Changsha	28.20	112.96	China	Hunan
China (P.R.C.)	Chengdu	30.64	104.06	China	Sichuan
China (P.R.C.)	Chongqing	30.62	103.63	China	Sichuan
China (P.R.C.)	Dongsheng	39.81	109.98	China	Nei Monggol
China (P.R.C.)	Fuzhou	26.10	119.29	China	Fujian
China (P.R.C.)	Guangzhou	23.13	113.33	China	Guangdong
China (P.R.C.)	Guiyang	26.58	106.71	China	Guizhou
China (P.R.C.)	Hailar	49.21	119.70	China	Nei Monggol
China (P.R.C.)	Hangzhou	30.25	120.17	China	Zhejiang
China (P.R.C.)	Hezhou	35.10	102.90	China	Gansu
China (P.R.C.)	Hohhot	40.85	111.66	China	Nei Monggol
China (P.R.C.)	Jinhua	29.10	119.65	China	Zhejiang
China (P.R.C.)	Kunming	25.08	102.67	China	Yunnan
China (P.R.C.)	Lanzhou	36.05	103.68	China	Gansu
China (P.R.C.)	Nanchang	28.68	115.88	China	Jiangxi
China (P.R.C.)	Nanjing	32.05	118.79	China	Jiangsu
China (P.R.C.)	Nanning	22.70	108.33	China	Guangxi
China (P.R.C.)	Qingdao	36.07	120.37	China	Shandong
China (P.R.C.)	Shanghai	31.22	121.46	China	Shanghai
China (P.R.C.)	Shijiazhuang	38.05	114.45	China	Hebei
China (P.R.C.)	Tianjin	39.50	117.25	China	Tianjian
China (P.R.C.)	Togtoh	40.37	111.19	China	Nei Monggol
China (P.R.C.)	Urumqi	43.81	87.58	China	Xinjiang Uygur
China (P.R.C.)	Wenzhou	28.02	120.65	China	Zhejiang
China (P.R.C.)	Wuhan	30.58	114.32	China	Hubei
China (P.R.C.)	Wuxi	31.58	120.32	China	Jiangsu
China (P.R.C.)	Xi'an	34.25	108.90	China	Shaanxi
China (P.R.C.)	Xichang	27.85	102.25	China	Sichuan
China (P.R.C.)	Xining	36.62	101.92	China	Qinghai
China (Taiwan)	Taipei	25.08	121.53	Taiwan	Taiwan
Cypruss	Limassol	34.67	33.05	Cypruss	
Cypruss	Nicosia	33.17	33.37	Cypruss	
Cypruss(Turkish)	Lefkosa	35.28	33.92	Cypruss	
Dodecanesels(Gr)	Rhodes	36.45	28.25	Greece	
Dubai (UAE)	Dubai	25.20	55.25	U.A.E	
F.Ind.China(Cam)	Phnom Penh	11.65	104.88	Cambodia	
F.Ind.China(Lao)	Houa Phan	20.15	103.60	Laos	
F.Ind.China(Lao)	Louang Praba	19.90	102.10	Laos	
F.Ind.China(Lao)	Phong Sali	21.75	102.10	Laos	
F.Ind.China(Lao)	Savannakhet	16.55	104.87	Laos	
F.Ind.China(Lao)	Vientiane	18.12	102.55	Laos	
F.Ind.China(Lao)	Xieng Khouan	19.30	103.40	Laos	
F.Ind.China(SVi)	Kontum	14.40	108.00	Vietnam	
F.Ind.China(SVi)	Pleiku	14.00	108.00	Vietnam	
F.Ind.China(Vie)	Ha Tuyen	21.00	105.00	Vietnam	
F.Ind.China(Vie)	Hanoi	21.07	105.83	Vietnam	
F.Ind.China(Vie)	Lai Chau	22.00	103.20	Vietnam	
F.Ind.China(Vie)	Son La	21.30	103.80	Vietnam	
Georgian SSR	Tblisi	41.71	44.81	Soviet Union	
Goa (India)	Goa	14.33	74.00	Goa	
Hong Kong	Hong Kong	22.27	114.22	Hong Kong	

NASWA COUNTRY	SITE NAME	LAT.	LON.	EDXC COUNTRY	STATE/PROV
India	Alzwi	23.70	92.72	India	Mizoram
India	Aligar	28.00	78.10	India	Uttar Pradesh
India	Bangalore	13.00	77.67	India	Karnataka
India	Bhopal	23.50	77.50	India	Madhya Pradesh
India	Bombay	18.93	72.85	India	Maharashtra
India	Calcutta	22.58	88.35	India	West Bengal
India	Delhi	28.62	77.22	India	Delhi
India	Gorakhpur	26.75	83.35	India	Uttar Pradesh
India	Guwahati	26.00	92.00	India	Assam
India	Hyderabad	17.35	78.49	India	Andhra Pradesh
India	Kohima	25.60	94.10	India	Nagaland
India	Kurseong	26.97	88.33	India	West Bengal
India	Lucknow	26.85	80.90	India	Uttar Pradesh
India	Madras	13.08	80.30	India	Tamil Nadu
India	Nagpur	21.15	79.19	India	Maharashtra
India	New Delhi	28.60	77.25	India	Delhi
India	Ranchi	23.30	85.30	India	Bihar
India	Shillong	25.55	91.90	India	Meghalaya
India	Shimla	31.12	77.15	India	Himachal Pradesh
India (Pakistan)	Islamabad	33.67	73.13	Pakistan	
India (Pakistan)	Karachi	24.85	67.03	Pakistan	
India (Pakistan)	Peshawar	34.00	34.50	Pakistan	
India (Pakistan)	Quetta	30.25	67.00	Pakistan	
India (Banglades)	Dhaka	23.70	90.37	Bangladesh	
Iran	Tehran	35.75	51.50	Iran	
Iraq	Baghdad	33.23	44.37	Iraq	
Japan	Fukuoka	33.75	130.50	Japan	
Japan	Hiroshima	34.38	132.45	Japan	
Japan	Kagoshima	31.60	130.55	Japan	
Japan	Kumamoto	32.80	130.72	Japan	
Japan	Matsuyama	33.83	132.75	Japan	
Japan	Nagoya	35.17	136.91	Japan	
Japan	Osaka	34.67	135.50	Japan	
Japan	Sapporo	43.08	141.38	Japan	
Japan	Tokyo/Chiba	35.67	139.75	Japan	
Japan	Yamata	36.15	139.85	Japan	
Java (Jawa,Indo)	Bandung	-6.85	107.40	Indonesia	Jawa Barat
Java (Jawa,Indo)	Blitar	-8.25	112.15	Indonesia	Jawa Timur
Java (Jawa,Indo)	Blora	-6.60	111.42	Indonesia	Jawa Tengah
Java (Jawa,Indo)	Bogor	-6.32	106.78	Indonesia	Jawa Barat
Java (Jawa,Indo)	Cirebon	-6.53	108.40	Indonesia	Jawa Barat
Java (Jawa,Indo)	Jakarta	-5.97	106.80	Indonesia	D.K. Jakarta
Java (Jawa,Indo)	Jember	-8.37	113.70	Indonesia	Jawa Timur
Java (Jawa,Indo)	Lumajang	-8.00	113.22	Indonesia	Jawa Timur
Java (Jawa,Indo)	Madiun	-7.58	111.52	Indonesia	Jawa Timur
Java (Jawa,Indo)	Malang	-7.98	112.62	Indonesia	Jawa Timur
Java (Jawa,Indo)	Ngawi	-7.42	111.43	Indonesia	Jawa Timur
Java (Jawa,Indo)	Purwokerto	-7.69	109.10	Indonesia	Jawa Tengah
Java (Jawa,Indo)	Semarang	-6.90	110.52	Indonesia	Jawa Tengah
Java (Jawa,Indo)	Serang	5.82	106.15	Indonesia	Jawa Barat
Java (Jawa,Indo)	Sukabumi	-7.18	106.93	Indonesia	Jawa Barat
Java (Jawa,Indo)	Sumenep	-7.02	113.87	Indonesia	Jawa Timur
Java (Jawa,Indo)	Surabaya	-7.25	112.75	Indonesia	Jawa Timur
Java (Jawa,Indo)	Surakarta	-7.75	110.98	Indonesia	Jawa Tengah
Java (Jawa,Indo)	Yogyakarta	-8.22	110.72	Indonesia	D.I. Yogyakarta

NASWA COUNTRY	SITE NAME	LAT.	LON.	EDXC COUNTRY	STATE/PROV
Kashmir (India)	Jammu	34.75	74.85	India	
Kashmir (India)	Leh	34.15	77.58	India	
Kashmir (India)	Srinagar	34.30	75.00	India	
Kashmir(Azad Ka)	Muzzafarabad	34.34	73.49	Pakistan	
Kazakh SSR	Alma Ata	43.25	76.94	Soviet Union	
Kirgiz SSR	Frunze	42.90	74.60	Soviet Union	
Korea (D.P.R.K.)	Chongjin	41.78	129.83	North Korea	
Korea (D.P.R.K.)	Hamhung	39.89	127.53	North Korea	
Korea (D.P.R.K.)	Hyesan	41.38	128.20	North Korea	
Korea (D.P.R.K.)	Kanggye	40.96	126.56	North Korea	
Korea (D.P.R.K.)	Pyongsong	39.02	125.75	North Korea	
Korea (D.P.R.K.)	Pyongyang	39.00	125.78	North Korea	
Korea (D.P.R.K.)	Sariwon	38.52	125.73	North Korea	
Korea (R.O.K.)	Cheju	33.33	126.50	South Korea	
Korea (R.O.K.)	Kimje	35.83	126.83	South Korea	
Korea (R.O.K.)	Pusan	35.08	129.03	South Korea	
Korea (R.O.K.)	Seoul	37.50	127.00	South Korea	
Korea (R.O.K.)	Suwon	37.27	127.02	South Korea	
Kuwait	Al Kuwait	29.07	47.98	Kuwait	
Lebanon	Beirut	33.58	35.50	Lebanon	
Lebanon	Marj Uyun	33.33	35.60	Lebanon	
Lesser Sunda Is.	Bajawa	-8.90	120.98	Indonesia	N.T. Timur
Lesser Sunda Is.	Ende	-8.83	121.65	Indonesia	N.T. Timur
Lesser Sunda Is.	Mataram	-8.65	116.12	Indonesia	N.T. Barat
Lesser Sunda Is.	Kupang	-9.98	123.58	Indonesia	N.T. Timur
Lesser Sunda Is.	Ruteng	-8.40	120.45	Indonesia	N.T. Timur
Lesser Sunda Is.	Sumbawa Besar	-8.20	117.43	Indonesia	N.T. Barat
Lesser Sunda Is.	Waingapu	-9.65	120.27	Indonesia	N.T. Timur
Malaya(Malaysia)	Kuala Lumpur	3.13	101.70	MalaysiaWest	
Maldives	Maledives	3.15	73.00	Maldives	
Manchuria(P.R.C.)	Changchun	43.88	125.31	China	Jilin
Manchuria(P.R.C.)	Harbin	45.75	126.68	China	Heilongjiang
Manchuria(P.R.C.)	Shenyang	41.80	123.45	China	Laoning
Moluccals.(Malu)	Ambon	-3.72	128.20	Indonesia	Maluku
Moluccals.(Malu)	Ternate	0.68	127.40	Indonesia	Maluku
Mongolia	Altaj	46.33	96.30	Mongolia	Gov Altaj
Mongolia	Cojbalsan	48.06	114.50	Mongolia	Dornod
Mongolia	Dalan D zadga	43.60	104.48	Mongolia	Omnogov
Mongolia	Moron	49.62	100.17	Mongolia	Chovsgol
Mongolia	Olgij	48.95	89.95	Mongolia	Bajan-Olgij
Mongolia	Ulaanbaatar	47.92	106.88	Mongolia	Dungov
Mongolia	Uliastaj	47.75	96.81	Mongolia	Dzevchan
Nepal	Kathmandu	27.70	85.30	Nepal	
Oman	Oman	23.66	58.15	Oman	
Palestine(Israel)	Jerusalem	31.78	35.22	Israel	
Philippines	Bulacan	14.80	120.90	Philippines	
Philippines	Iba	15.36	119.96	Philippines	
Philippines	Poro	16.60	120.28	Philippines	
Philippines	Quezon City	14.60	121.05	Philippines	
Port.Timor(Timor)	Dili	-8.55	125.58	Indonesia	
Qatar	Qatar	25.43	51.43	Qatar	
Ryukyuls.(Japan)	Okinawa	26.30	127.65	Japan	
Sarawak(Malaysia)	Kuching	1.50	110.43	MalaysiaEast	
Sarawak(Malaysia)	Miri	4.40	114.00	MalaysiaEast	
Sarawak(Malaysia)	Sibu	2.30	111.95	MalaysiaEast	

NASWA COUNTRY	SITE NAME	LAT.	LON.	EDXC COUNTRY	STATE/PROV
Saudi Arabia	Riyadh	24.52	46.78	Saudi Arabia	
Sharjah	Sharjah	24.40	54.45	U.A.E.	
Singapore	Singapore	1.30	103.87	Singapore	
Sumatra(Sumatera)	Banda Aceh	5.57	95.33	Indonesia	D.I. Aceh
Sumatra(Sumatera)	Bangkinang	0.35	101.03	Indonesia	Riau
Sumatra(Sumatera)	Bengkulu	-3.80	102.27	Indonesia	Bengkulu
Sumatra(Sumatera)	Bukittinggi	-0.32	100.37	Indonesia	Sum. Barat
Sumatra(Sumatera)	Jambi	-1.50	103.00	Indonesia	Jambi
Sumatra(Sumatera)	Kisaran	3.18	99.30	Indonesia	Sum. Utara
Sumatra(Sumatera)	Kotabumi	-4.83	104.90	Indonesia	Lampung
Sumatra(Sumatera)	Medan	3.75	98.67	Indonesia	Sum. Utara
Sumatra(Sumatera)	Padang	-0.95	100.35	Indonesia	Sum. Barat
Sumatra(Sumatera)	Palembang	-2.90	104.75	Indonesia	Sum. Selatan
Sumatra(Sumatera)	Pangkalpinang	-2.13	106.13	Indonesia	Riau
Sumatra(Sumatera)	Pekanbaru	0.75	101.45	Indonesia	Riau
Sumatra(Sumatera)	Pematangsian	2.75	99.00	Indonesia	Sum. Utara
Sumatra(Sumatera)	Rantauprapat	2.10	99.83	Indonesia	Sum. Utara
Sumatra(Sumatera)	Sibolga	1.75	98.80	Indonesia	Sum. Utara
Sumatra(Sumatera)	Tanjung Pand	-2.75	107.65	Indonesia	Sum. Selatan
Sumatra(Sumatera)	Tanjung Pina	0.92	104.45	Indonesia	Riau
Sumatra(Sumatera)	Tanjungkaran	-5.32	105.27	Indonesia	Lampung
Sumatra(Sumatera)	Tembilahan	-0.32	103.15	Indonesia	Riau
Syria	Damascus	33.52	36.30	Syria	
Tadzhik SSR	Dusanbe	38.58	68.80	Soviet Union	
Thailand	Bangkok	13.83	100.48	Thailand	
Tibet (P.R.C.)	Lhasa	29.66	91.15	China	
Trans-Jordan(Jord)	Amman	31.95	35.95	Jordan	
Turkey	Ankara	39.92	32.83	Turkey	
Turkmen SSR	Ashkhabad	37.95	58.38	Soviet Union	
Uzbek SSR	Fergana	40.40	71.76	Soviet Union	
Uzbek SSR	Tashkent	41.27	69.22	Soviet Union	
Yemen(Yemini Rep)	San'a	15.35	44.20	Yemen	
****	Bahrain	26.00	50.50	Bahrain	
****	Chagos Arch.	-6.00	72.00	Chagos	
****	Christmas Is	-10.50	105.66	Christmas Is	
****	Cocos Is	-12.15	96.96	Cocos Is	
****	Iraq/SaudiIn	29.33	45.50	Iraq/SaudiIn	
****	Macau	22.15	113.55	Macau	
****	Spratly Is.	8.60	111.95	Spratly Is.	



fine tuning's  
**SHORTWAVE BROADCAST STATION TRANSMITER SITES**  
**O\*C\*E\*A\*N\*I\*A**

NASWA COUNTRY	SITE NAME	LAT.	Lon.	EDXC COUNTRY	STATE/PROV
AdmiraltyIs(PNG)	Lorengau	-1.80	147.20	Papua New Gu	Manus
Australia	Alice Spring	-23.77	133.93	Australia	NorthernTerr
Australia	Brandon	-19.50	147.33	Australia	Queensland
Australia	Brisbane	-27.50	153.17	Australia	Queensland
Australia	Carnarvon	-24.90	113.72	Australia	Western Aust
Australia	Darwin	-12.42	131.00	Australia	NorthernTerr
Australia	Katherine	-14.47	132.27	Australia	NorthernTerr
Australia	Shepparton	-36.33	144.40	Australia	Victoria
Australia	Tennant Cree	-19.66	134.15	Australia	NorthernTerr
Bougainv'le(PNG)	Kerema	-7.80	145.75	Papua New Gu	NorthSolomon
Co.of N.Marianas	Saipan	13.00	146.00	Marianas	
Cook Islands	Rarotonga	-21.11	-159.48	Cook Is.	
Fiji	Suva	-18.00	178.00	Fiji	
GilbertIs.(Kirbati)	Bairiki	1.00	173.00	Kiribati	
Guam	Agana	13.51	144.75	Mariana Is	
Hawaii	Honolulu	21.00	-158.00	Hawaii	
Marshall Islands	Majuro	7.06	171.23	Marshall Is.	
Neth. New Guinea	Biak	-1.00	136.00	Indonesia	Irian Jaya
Neth. New Guinea	Fak Fak	-2.90	132.30	Indonesia	Irian Jaya
Neth. New Guinea	Jayapura	-2.53	140.70	Indonesia	Irian Jaya
Neth. New Guinea	Manokwari	-0.87	134.08	Indonesia	Irian Jaya
Neth. New Guinea	Merauke	-8.47	140.33	Indonesia	Irian Jaya
Neth. New Guinea	Nabire	-3.37	135.48	Indonesia	Irian Jaya
Neth. New Guinea	Serui	-1.88	136.23	Indonesia	Irian Jaya
Neth. New Guinea	Sorong	-0.88	131.25	Indonesia	Irian Jaya
Neth. New Guinea	Wamena	-4.10	138.50	Indonesia	Irian Jaya
New Britian(PNG)	Kimbe	-5.35	150.00	Papua New Gu	West NewBrit
New Britian(PNG)	Rabaul	-4.00	152.00	Papua New Gu	East NewBrit
New Caledonia	Noumea	-22.16	166.26	NewCaledonia	
New Guinea Terr.	Goroka	-6.05	145.25	Papua New Gu	Eastern High
New Guinea Terr.	Kundiawa	-6.20	144.50	Papua New Gu	Chimbu
New Guinea Terr.	Lae	-6.60	147.00	Papua New Gu	Morobe
New Guinea Terr.	Madang	-4.90	145.80	Papua New Gu	Madang
New Guinea Terr.	Mt. Hagen	-5.50	143.85	Papua New Gu	Western High
New Guinea Terr.	Vanimo	-2.60	141.40	Papua New Gu	West Sepik
New Guinea Terr.	Wabag	-5.10	143.40	Papua New Gu	Western High
New Guinea Terr.	Wewak	-3.35	143.40	Papua New Gu	East Sepik
New Hebrides(Van)	Port Vila	-17.44	168.33	Vanuatu	
New Ireland(PNG)	Kavieng	-2.60	150.90	Papua New Gu	New Ireland
New Zealand	Wellington	-41.28	174.78	New Zealand	
Papua Terr.(PNG)	Alotau	-10.20	151.00	Papua New Gu	Milne Bay
Papua Terr.(PNG)	Boroko	-9.40	147.35	Papua New Gu	Central
Papua Terr.(PNG)	Daru	-9.00	143.20	Papua New Gu	Western
Papua Terr.(PNG)	Mendi	-6.10	143.40	Papua New Gu	SouthernHigh
Papua Terr.(PNG)	Popondetta	-8.46	148.14	Papua New Gu	Northern
Papua Terr.(PNG)	Port Moresby	-9.60	147.30	Papua New Gu	Central
Solomon Islands	Gizo	-7.95	156.75	Solomon Is.	
Solomon Islands	Honiara	-9.25	160.03	Solomon Is.	
Tahiti	Papeete	-17.00	-149.00	Society Is.	

NASWA COUNTRY	SITE NAME	LAT.	LON.	EDXC COUNTRY	STATE/PROV
Tonga	Nuku'alofa	-21.08	-175.10	Tonga	
Western Samoa	Apia W.Samoa	-14.10	-171.70	Western Samoa	
****	Banaba Is.	-0.88	169.58	Banaba Is.	
****	ClippertonIs	10.28	-109.21	ClippertonIs	
****	Easter Is.	-27.10	-109.36	Easter Is.	
****	Howland&Bake	0.80	-176.60	Howland&Bake	
****	Jarvis Is.	-0.35	-160.04	Jarvis Is.	
****	Johnston Is.	17.00	-168.50	Johnston Is.	
****	Kosrae	5.33	163.00	Caroline Is.	
****	Marquesas Is	-9.00	-139.50	MarquesasIs.	
****	Nauru Is.	-0.33	166.56	Nauru Is.	
****	Niue Is.	-19.03	-169.92	Niue Is.	
****	Norfolk Is.	-29.50	168.00	Norfolk Is.	
****	PagoPagoAm.S	-14.30	-170.70	Am. Samoa	
****	Palau	7.50	134.27	Caroline Is.	
****	Palmyra Is.	5.88	-162.10	Palmyra Is.	
****	Parece Vela	20.40	136.00	Parece Vela	
****	Phoenix Is.	-4.00	-172.00	Phoenix Is.	
****	Pitcairn Is	-25.08	-130.10	Pitcairn Is.	
****	Pohnpei	7.50	158.00	Caroline Is.	
****	Touamotou	-21.15	-159.80	Touamotou	
****	Toubouai	-27.60	-144.33	Toubouai	
****	Truk	7.50	152.50	Caroline Is.	
****	Tuvalu	-9.00	179.00	Tuvalu	
****	Wake Is.	19.17	166.38	Wake Is.	
****	Wallis Is.	-13.30	-176.17	Wallis&Fortu	
****	Yap	9.50	138.00	Caroline Is.	

fine tuning's  
 SHORTWAVE BROADCAST STATION TRANSMITER SITES  
 E\*U\*R\*O\*P\*E

NASWA COUNTRY	SITE NAME	LAT.	LON.	EDXC COUNTRY	STATE/PROV
Albania	Gjirokaster	40.10	20.10	Albania	
Albania	Kruje	41.60	19.60	Albania	
Albania	Lushnje	40.95	19.66	Albania	
Albania	Tirana	41.30	19.83	Albania	
Andorra	Andorra	42.50	1.51	Andorra	
Austria	Vienna(Moos)	48.22	16.37	Austria	
Balearicls(Spain)	Balearic Is.	39.60	2.70	Spain	
Belgium	Brussels	51.22	3.23	Belgium	
Bulgaria	Kostinbrod	42.85	23.62	Bulgaria	
Bulgaria	Plovdiv	42.15	24.68	Bulgaria	
Bulgaria	Sofia	42.67	23.30	Bulgaria	
Bulgaria	Stolnik	42.68	23.63	Bulgaria	
Byelorussian SSR	Minsk	53.90	27.56	Soviet Union	
Byelorussian SSR	Mogil'ov	53.90	30.34	Soviet Union	
Channel Islands	Jersey	49.20	-2.00	Great Britian	
Czechoslovakia	Kostolany	48.52	16.15	Czechoslovakia	
Czechoslovakia	Litomysl	49.80	16.15	Czechoslovakia	
Czechoslovakia	Prague	50.08	14.50	Czechoslovakia	
Czechoslovakia	Rimovska Sob	48.40	20.00	Czechoslovakia	
Denmark	Copenhagen	55.72	12.68	Denmark	
England	Daventry	52.25	-1.12	Great Britian	
England	London	51.50	0.00	Great Britian	
Estonian SSR	Tallin	59.41	24.75	Soviet Union	
European RSFSR	Archangel'sk	64.53	40.67	Soviet Union	Archangel'sk
European RSFSR	Krasnodar	45.04	39.00	Soviet Union	Kransnodar
European RSFSR	Leningrad	59.92	30.42	Soviet Union	Leningrad Obla
European RSFSR	Moscow	55.75	37.70	Soviet Union	Moskva Oblast
European RSFSR	Murmansk	68.98	33.13	Soviet Union	Murmansk Obla
European RSFSR	Tula	54.20	37.65	Soviet Union	Tula Oblast
European RSFSR	Uljanovsk	54.33	48.40	Soviet Union	Uljanovsk Obla
Finland	Helsinki	60.17	24.88	Finland	
Finland	Pori	61.45	21.90	Finland	
France	Allouis	47.20	2.00	France	
France	Issoudun	47.15	2.22	France	
France	Paris	48.85	2.33	France	
Ger (FRG)	Biblis	49.68	8.48	Ger (FRG)	Hessen
Ger (FRG)	Bremen	53.10	8.78	Ger (FRG)	Lower Saxony
Ger (FRG)	Holzkirchen	47.85	11.72	Ger (FRG)	Bavaria
Ger (FRG)	Julich	50.95	6.35	Ger (FRG)	Wesphalia
Ger (FRG)	Lampertheim	49.50	8.52	Ger (FRG)	Hessen
Ger (FRG)	Munich	48.13	11.58	Ger (FRG)	Bavaria
Ger (FRG)	Werachtal	48.10	10.68	Ger (FRG)	Bavaria
Ger (GDR)	Konigswuster	52.30	13.60	Ger (GDR)	Brandenburg
Ger (GDR)	Leipzig	51.16	12.28	Ger (GDR)	Saxony
Ger (GDR)	Nauen	52.62	12.90	Ger (GDR)	Brandenburg
Ger (W. Berlin)	Berlin	52.52	13.33	Ger (W.Ber.)	Berlin
Greece	Alvis	38.35	23.60	Greece	
Greece	Athens	38.00	23.73	Greece	
Greece	Kavala	40.90	24.86	Greece	
Hungary	Budapest	47.50	19.08	Hungary	
Iceland	Reykjavik	64.15	-21.65	Iceland	
Ireland (Eire)	Dublin	53.33	-6.25	Ireland	

Italy	Milano	45.47	9.20	Italy
Italy	Ravenna	44.42	12.20	Italy
Italy	Rome	41.88	12.50	Italy
Karelo-Fin. SSR	Petrozavodsk	61.77	34.33	Soviet Union
Latvian SSR	Riga	56.95	24.09	Soviet Union
Lithuanian SSR	Vilnius	54.67	25.33	Soviet Union
Luxembourg	Luxembourg	49.63	6.50	Luxembourg
Malta	Malta	35.85	14.60	Malta
Moldavian SSR	Kinsinov	47.00	28.83	Soviet Union
Monaco	Monaco	43.75	7.42	Monaco
Netherlands	Hilversum	52.25	5.15	Netherlands
Northern Ireland	Belfast	54.60	-5.95	Great Britian
Norway	Kvitsoy	59.08	5.48	Norway
Norway	Oslo(F'stad)	59.93	10.68	Norway
Norway	Sveio	59.60	5.30	Norway
Poland	Warsaw	52.25	21.08	Poland
Portugal	Gloria	38.45	-8.66	Portugal
Portugal	Lisbon	38.70	-9.08	Portugal
Portugal	Sines	37.96	-8.75	Portugal
Romania	Bucharest	44.43	26.12	Romania
Scotland	Glasgow	55.90	-4.30	Great Britian
Sicily	Caltanissetta	37.50	14.04	Italy
Spain	Madrid	40.12	-3.31	Spain
Spain	Noble-Toledo	42.00	-3.27	Spain
Sweden	Horby	55.80	13.73	Sweden
Sweden	Karlsborg	58.50	14.50	Sweden
Sweden	Solvesborg	55.98	14.66	Sweden
Sweden	Stockholm	59.33	18.08	Sweden
Switzerland	Bern	46.92	7.42	Switzerland
Switzerland	Beromunster	47.20	8.13	Switzerland
Switzerland	Sarnen	46.90	8.25	Switzerland
Switzerland	Schwarzenburg	46.15	7.40	Switzerland
Switzerland	Sottens	46.64	6.72	Switzerland
Ukrainian SSR	Char'kov	50.00	36.15	Soviet Union
Ukrainian SSR	Kiev	50.47	30.48	Soviet Union
Vatican	Vatican	41.88	12.50	Vatican
Wales	Cardiff	51.50	-3.30	Great Britian
Yugoslavia	Belgrade(Stol)	44.80	20.53	Yugoslavia
Yugoslavia	Bijeljina	44.70	19.16	Yugoslavia
****	Faeroe Is	62.00	-7.00	Faeroe Is
****	Gibraltar	36.14	-5.34	Gibraltar
****	Jan Mayen	71.00	-8.33	Jan Mayen
****	Liechtenstein	47.15	9.58	Liechtenstein
****	San Marino	43.95	12.47	San Marino
****	Spitsbergen	78.00	20.00	Spitsbergen