

HAROLD
AWARD
WORLD ATLAS

24-HOUR SHORT-WAVE SCHEDULE

This schedule lists English language short-wave broadcasts that can be heard in United States. Simply pick an appropriate time and see which stations are broadcasting at that hour. All times listed are Eastern Standard Time. All frequencies are in kilocycles. Abbreviations

used in this schedule are: B.C.—Broadcasting Company or Corporation; N.Z.—New Zealand; Neth.—Netherlands; R.—Radio or Radio-diffusion; V.—Voice or Voz; *—Beamed to North America; +—Beamed to Western United States; ‡—Beamed to Eastern United States.

TIME (EST)	FREQ.	CALL	STATION NAME and LOCATION	
12 MIDN.	3370	—	Malawi B.C. — Blantyre, Malawi	
	4855	—	E. Nigerian B.C. — Enugu, Nigeria	
	6145+	DMQ6	Deutsche Welle — Cologne, W. Germany	
	9590*	PCJ	R. Nederland — Hilversum, Netherlands	
	9640	HLK5	V. Free Korea — Seoul, S. Korea	
	9670	—	V. Vietnam — Hanoi, N. Vietnam	
	9735+	—	Deutsche Welle Relay — Cologne, W. Germany	
	9840	—	V. Vietnam — Hanoi, N. Vietnam	
	11640	—	V. Vietnam — Hanoi, N. Vietnam	
	11730*	PCJ	R. Nederland — Hilversum, Netherlands	
12:15	3985	—	R. Cordac — Bujumbura, Burundi	
	4920	—	R. Cordac — Bujumbura, Burundi	
12:30	3240	—	Ghana B.C. — Accra, Ghana	
	3270	—	R. Zambia — Lusaka, Zambia	
	4985	—	V. Malaysia — Kuala Lumpur, Malaysia	
	4990	—	R. Nigeria — Lagos, Nigeria	
	5940	—	R. National Khmere — Phnom Penh, Cambodia	
	7305	—	V. Malaysia — Kuala Lumpur, Malaysia	
	7390	—	Damascus Calling — Damascus, Syria	
12:45	3270	—	R. Zambia — Lusaka, Zambia	
	4911	—	R. Zambia — Lusaka, Zambia	
1 am	4990	—	R. Nigeria — Lagos, Nigeria	
	9760 11975	ELWA	Ghana B.C. — Accra, Ghana R. Village — Monrovia, Liberia	
1:15	4770	ELWA	R. Village — Monrovia, Liberia	
	1:30	4911	—	R. Zambia — Lusaka, Zambia
7090		—	Tirana Calling — Tirana, Albania	
7265		—	Tirana Calling — Tirana, Albania	
9555		—	BBC Relay — Monrovia, Liberia	
1:45	4911	—	R. Zambia — Lusaka, Zambia	
	6165	—	R. Zambia — Lusaka, Zambia	
	9545	—	Ghana B.C. — Accra, Ghana	
2 am	3316	—	Sierra Leone B.C. — Freetown, Sierra Leone	
	5980	—	Sierra Leone B.C. — Freetown, Sierra Leone	
	6050	HCJB	V. Andes — Quito, Ecuador	
	6055	—	R. Prague — Prague, Czechoslovakia	
	7120	XZK4	Burma B.C. — Rangoon, Burma	
	9505	—	R. Prague — Prague, Czechoslovakia	
	9670	—	Swiss B.C. — Berne, Switzerland	
	9745	HCJB	V. Andes — Quito, Ecuador	
	11775	HER5	Swiss B.C. — Berne, Switzerland	
	11915	HCJB	V. Andes — Quito, Ecuador	
	2:30	5990	CKNA	CBC — Montreal, Canada
		6130	—	R. Ceylon — Colombo, Ceylon
7130		—	V. West — Lisbon, Portugal	
7295		—	Trans World R. — Monte Carlo, Monaco	
9555		—	BBC Relay — Monrovia, Liberia	
9630		CKLO	CBC — Montreal, Canada	
9645		—	V. West — Lisbon, Portugal	
9675		—	R. Warsaw — Warsaw, Poland	
11840		—	R. Warsaw — Warsaw, Poland	
2:45		3205	VQ03	Solomon Is. B.C. — Honiara, Solomon Is.
	3995	VQ04	Solomon Is. B.C. — Honiara, Solomon Is.	
3 am	2410	VL9CG	R. Goroka — Goroka, Papua	
	3335	VL9CD	R. Wewak — Wewak, Papua	
	3370	—	Malawi B.C. — Blantyre, Malawi	
	3385	VL9BR	R. Rabaul — Rabaul, Papua	
	6090	ELBC	Liberian B.C. — Monrovia, Liberia	
	3:15	4770	ELWA	R. Village — Monrovia, Liberia
7275		—	R. Pakistan — Karachi, Pakistan	
9645		—	R. Pakistan — Karachi, Pakistan	
3:30		9675	—	R. Warsaw — Warsaw, Poland
	9715	DZF5	Far East B.C. — Manila, Philippines	
	11840	—	R. Warsaw — Warsaw, Poland	
	11890	—	Far East B.C. — Manila, Philippines	
3:45	1780	—	Swiss B.C. — Berne, Switzerland	
4 am	3225	ELWA	R. Village — Monrovia, Liberia	
	4990	—	R. Nigeria — Lagos, Nigeria	
	6080	ZL7	R. New Zealand — Wellington, N.Z.	
	7255	—	R. Nigeria — Lagos, Nigeria	
	7280	—	R. Tanzania — Dar es Salaam, Tanzania	
	9540	ZL2	R. New Zealand — Wellington, N.Z.	
	9552	—	Male Sinco R. — Male Is., Maldives Is.	
	9640	—	BBC — London, England	
	4:15	4770	ELWA	R. Village — Monrovia, Liberia
		4865	—	R. Brunei — Brunei, Brunei
5980		—	R. Demerara — Georgetown, Guyana	
6090		ELBC	Liberian B.C. — Monrovia, Liberia	
7240		—	V. Kenya — Nairobi, Kenya	

TIME (EST)	FREQ.	CALL	STATION NAME and LOCATION	
5 am	3385	VL9BR	R. Rabaul — Rabaul, Papua	
	7130*	BED7	V. Free China — Taipei, Taiwan	
	7255	—	R. Nigeria — Lagos, Nigeria	
	9515	CR6RM	R. Club Mocamedes — Mocamedes, Angola	
	9560	VUD	All India R. — New Delhi, India	
	9655*	BED91	V. Free China — Taipei, Taiwan	
	9685*	BED73	V. Free China — Taipei, Taiwan	
	9745	BEC62	V. Chinese Air Force — Taipei, Taiwan	
	11710	VUD	All India R. — New Delhi, India	
	11780	VUD	All India R. — New Delhi, India	
5:15	11825*	BED69	V. Free China — Taipei, Taiwan	
	9535	BED45	V. Free China — Taipei, Taiwan	
	9610	CR6RZ	R. Angola — Luanda, Angola R. Ethiopia — Addis Ababa, Ethiopia	
5:30	5020	—	R. Ceylon — Colombo, Ceylon	
	9640	HLK5	V. Free Korea — Seoul, S. Korea	
6 am	3370	—	Malawi B.C. — Blantyre, Malawi	
	4950	—	R. Malaysia Sarawak — Kuching, Sarawak	
	4970	9WD215	R. Malaysia Sabah — Jesselton, Sabah	
	7255	—	R. Nigeria — Lagos, Nigeria	
	9620	—	R. Sweden — Stockholm, Sweden	
	9865	YDF8	V. Indonesia — Jakarta, Indonesia	
	11715	YDF2	V. Indonesia — Jakarta, Indonesia	
	11795	ELWA	R. Village — Monrovia, Liberia	
	6:15	6100	—	V. Malaysia — Kuala Lumpur, Malaysia
		6175	—	V. Malaysia — Kuala Lumpur, Malaysia
7110		—	V. Malaysia — Kuala Lumpur, Malaysia	
9750		—	V. Malaysia — Kuala Lumpur, Malaysia	
11820*		—	Trans World R. — Bonaire, Neth. Antilles	
6:30	2450	4VEH	V. Evangelique — Cap Haitien, Haiti	
	6120	—	V. Evangelique — Cap Haitien, Haiti	
	9770	—	V. Evangelique — Cap Haitien, Haiti	
	11835	—	V. Evangelique — Cap Haitien, Haiti	
6:45	9665	—	Swiss B.C. — Berne, Switzerland	
	11865	HER5	Swiss B.C. — Berne, Switzerland	
7 am	3300	—	R. Belize — Belize, Brit. Honduras	
	7125	—	R. Warsaw — Warsaw, Poland	
	7255	—	R. Nigeria — Lagos, Nigeria	
	7275	—	V. America Relay — Colombo, Ceylon	
	9560	—	R. Prague — Prague, Czechoslovakia	
	9575	—	RAI — Rome, Italy	
	9755	—	VTVN — Saigon, S. Vietnam	
	11835	—	V. America Relay — Colombo, Ceylon	
	11840	—	R. Warsaw — Warsaw, Poland	
	11905	—	RAI — Rome, Italy	
	11960	—	R. Prague — Prague, Czechoslovakia	
	7:15	5955	—	CBC — Montreal, Canada
5970*		CKNA	CBC — Montreal, Canada	
6245		—	R. Pakistan — Karachi, Pakistan	
7130		—	R. Pakistan — Karachi, Pakistan	
9555		OIX2	Finnish B.C. — Pori, Finland	
9580‡		—	R. Australia — Melbourne, Australia	
11720		CH5B	CBC — Montreal, Canada	
11805		OIX8	Finnish B.C. — Pori, Finland	
7:30	4870	—	R. Ceylon — Colombo, Ceylon	
	7145	—	R. National — Bamako, Mali	
	7280	—	R. National — Bamako, Mali	
	9745	—	R. National — Bamako, Mali	
7:45	4770	ELWA	R. Village — Monrovia, Liberia	
	5940	—	R. National Khmere — Phnom Penh, Cambodia	
	7265	—	R. Togo — Lome, Togo	
8 am	9505	DZH7	Far East B.C. — Manila, Philippines	
	4865	—	R. Brunei — Brunei, Brunei	
	4885	—	V. Kenya — Nairobi, Kenya	
	4972	—	R. Yaounde — Yaounde, Cameroon	
	6040	—	R. Yaounde — Yaounde, Cameroon	
	6090	ELBC	Liberian B.C. — Monrovia, Liberia	
	7125	—	R. Warsaw — Warsaw, Poland	
	7255	—	R. Nigeria — Lagos, Nigeria	
	9760	—	V. Vietnam — Hanoi, N. Vietnam	
	9840	—	V. Vietnam — Hanoi, N. Vietnam	
8:15	11640	—	V. Vietnam — Hanoi, N. Vietnam	
	11840	—	V. Vietnam — Hanoi, N. Vietnam	
	11840	—	V. Vietnam — Hanoi, N. Vietnam	
8:30	11850	—	R. Warsaw — Warsaw, Poland	
	9755	ETLF	R. V. Gospel — Addis Ababa, Ethiopia	
	4970	9WD215	R. Malaysia Sabah — Jesselton, Sabah	
	9820	—	R. Pakistan — Karachi, Pakistan	
	11762	—	R. Pakistan — Karachi, Pakistan	
8:45	11810	VUD	All India R. — New Delhi, India	
	11855	HER5	Swiss B.C. — Berne, Switzerland	

24-Hour Short-wave Schedule

TIME (EST)	FREQ.	CALL	STATION NAME and LOCATION	TIME (EST)	FREQ.	CALL	STATION NAME and LOCATION	
9 am	4950	—	R. Malaysia Sarawak — Kuching, Sarawak	1:45	7110	—	Swiss B.C. — Berne, Switzerland	
	9745*	HCJB	V. Andes — Quito, Ecuador		7210	VUD	All India R. — New Delhi, India	
	9750	—	Korean Central B.C. — Pyongyang, N. Korea		7235	VUD	All India R. — New Delhi, India	
	13750	—	Korean Central B.C. — Pyongyang, N. Korea		9665	—	Swiss B.C. — Berne, Switzerland	
9:15	9540	—	Ankhararai Ulanbatras — Ulan Bator, Mongolia	9690	VUD	All India R. — New Delhi, India		
	11850	—	Ankhararai Ulanbatras — Ulan Bator, Mongolia	9705‡	—	R. Sweden — Stockholm, Sweden		
9:30	4911	—	R. Zambia — Lusaka, Zambia	9915	VUD	All India R. — New Delhi, India		
	6035	XZK3	Burma B.C. — Rangoon, Burma	11740	VUD	All India R. — New Delhi, India		
	9865	YDF8	V. Indonesia — Djakarta, Indonesia	11865	VUD	All India R. — New Delhi, India		
	11715	YDFZ	V. Indonesia — Djakarta, Indonesia					
9:45	9620	—	R. Sweden — Stockholm, Sweden					
10 am	6245	—	R. Pakistan — Karachi, Pakistan	2 pm	5930	—	R. Prague — Prague, Czechoslovakia	
	7010	—	R. Pakistan — Karachi, Pakistan		6005	—	R. Warsaw — Warsaw, Poland	
	7250	—	Vatican R. — Vatican City		6540	—	Korean Central B.C. — Pyongyang, N. Korea	
	9610*	LLG	R. Norway — Oslo, Norway		7285	—	R. Warsaw — Warsaw, Poland	
	9645	—	Vatican R. — Vatican City		7345	—	R. Prague — Prague, Czechoslovakia	
	9820	—	R. Pakistan — Karachi, Pakistan		7580	—	Korean Central B.C. — Pyongyang, N. Korea	
	11672	—	R. Pakistan — Karachi, Pakistan		9525	—	Springbok R. — Cape Town, South Africa	
	11740	—	Vatican R. — Vatican City		9705	ETLF	R. V. Gospel — Addis Ababa, Ethiopia	
	11850*	LLK	R. Norway — Oslo, Norway		9865	YDF8	V. Indonesia — Djakarta, Indonesia	
					9875	—	Korean Central B.C. — Pyongyang, N. Korea	
10:15	9665	—	Swiss B.C. — Berne, Switzerland	11715	YDF2	V. Indonesia — Djakarta, Indonesia		
	9735+	DMQ11	Deutsche Welle — Cologne, W. Germany	11750	—	Korean Central B.C. — Pyongyang, N. Korea		
	11715	—	Swiss B.C. — Berne, Switzerland					
	11795+	DMQ11	Deutsche Welle — Cologne, W. Germany					
11925+	DMQ11	Deutsche Welle — Cologne, W. Germany						
10:30	3356	—	R. Botswana — Gaborone, Botswana	2:15	7195	—	R. Japan — Tokyo, Japan	
	6055	—	R. Prague — Prague, Czechoslovakia		9525	—	R. Japan — Tokyo, Japan	
	7130	BED7	V. Free China — Taipei, Taiwan		2:30	6070	—	R. Sofia — Sofia, Bulgaria
	7195	—	R. Japan — Tokyo, Japan			6190	—	R. Bucharest — Bucharest, Rumania
	7345	—	R. Prague — Prague, Czechoslovakia		7195	—	R. Bucharest — Bucharest, Rumania	
	9505	DZH7	Far East B.C. — Manila, Philippines		2:45	3265	ZFY	R. Demerara — Georgetown, Guyana
	9525	—	R. Japan — Tokyo, Japan			7125	VUD	All India R. — New Delhi, India
	9550	—	R. Prague — Prague, Czechoslovakia			7235	VUD	All India R. — New Delhi, India
	9585	—	V. Free China — Taipei, Taiwan			9615	—	All India R. — New Delhi, India
	9650	BED73	R. Japan — Tokyo, Japan			9690	VUD	R. Pakistan — Karachi, Pakistan
	9705	—	R. Japan — Tokyo, Japan			9915	VUD	All India R. — New Delhi, India
	9720	BED8	V. Free China — Taipei, Taiwan			11672	—	R. Pakistan — Karachi, Pakistan
	9760	—	V. Vietnam — Hanoi, N. Vietnam			11705	—	R. Sweden — Stockholm, Sweden
	9840	—	V. Vietnam — Hanoi, N. Vietnam			11740	VUD	All India R. — New Delhi, India
	11640	—	V. Vietnam — Hanoi, N. Vietnam			11865	VUD	All India R. — New Delhi, India
	11725	BED75	V. Free China — Taipei, Taiwan					
	11735	—	R. Belgrade — Belgrade, Yugoslavia		3 pm	7265	—	Tirana Calling — Tirana, Albania
	11825	BED69	V. Free China — Taipei, Taiwan			9390	—	Tirana Calling — Tirana, Albania
11840	—	V. Vietnam — Hanoi, N. Vietnam	9745	—		R. National — Bamako, Mali		
11990	—	R. Prague — Prague, Czechoslovakia	9760	—		Ghana B.C. — Accra, Ghana		
			11800	—		Ghana B.C. — Accra, Ghana		
			11810	—		R. Bucharest — Bucharest, Rumania		
			11885	—		R. Bucharest — Bucharest, Rumania		
			11940	—		R. Bucharest — Bucharest, Rumania		
10:45	5015	—	Windward Is. B.C. — St. George's, Grenada	3:15	6025	—	V. West — Lisbon, Portugal	
	6010	ETLF	R. V. Gospel — Addis Ababa, Ethiopia		6050	—	RAI — Rome, Italy	
	9550	—	Windward Is. B.C. — St. George's, Grenada		6185	—	V. West — Lisbon, Portugal	
11 am	5980	—	Sierra Leone B.C. — Freetown, Sierra Leone	7235	—	RAI — Rome, Italy		
	5995	—	Malawi B.C. — Blantyre, Malawi	9360	—	R. Nacional — Madrid, Spain		
	6040	—	R. Yaounde — Yaounde, Cameroon	9520	OZF5	R. Denmark — Copenhagen, Denmark		
	6090	ELBC	Liberian B.C. — Monrovia, Liberia	9540	ZL2	R. New Zealand — Wellington, N.Z.		
	7260	—	Trans World R. — Monte Carlo, Monaco	9555	—	BBC Relay — Monrovia, Liberia		
	9555	OIX2	Finnish B.C. — Pori, Finland	9710	—	RAI — Rome, Italy		
	11730*	PCJ	R. Nederland — Hilversum, Netherlands					
	11805	OIX8	Finnish B.C. — Pori, Finland	3:30	6155	—	V. Revolution — Conakry, Guinea	
					6175	—	Ici Paris — Paris, France	
					7135	—	R. Iran — Tehran, Iran	
11:15	11705	—	R. Sweden — Stockholm, Sweden	9650	—	V. Revolution — Conakry, Guinea		
				11730	—	R. Iran — Tehran, Iran		
11:30	4911	—	R. Zambia — Lusaka, Zambia	11950*	PCJ	R. Nederland — Hilversum, Netherlands		
	9765	—	R. V. Gospel — Addis Ababa, Ethiopia					
11975	ELWA	R. Village — Monrovia, Liberia	3:45	9009	4XB31	Kol Zion — Jerusalem, Israel		
				9725	4XB51	Kol Zion — Jerusalem, Israel		
12 NOON	3223	—	Male Sinco R. — Male Is., Maldives Is.	4 pm	6120	OIX7	Finnish B.C. — Pori, Finland	
	3300	—	R. Belize — Belize, Brit. Honduras		9525	—	Springbok R. — Cape Town, South Africa	
	7235	—	R. Angola — Luanda, Angola		9590*	PCJ	R. Nederland — Hilversum, Netherlands	
	9535	—	R. Angola — Luanda, Angola		9640	HLK5	V. Free Korea — Seoul, S. Korea	
	9555	—	BBC Relay — Monrovia, Liberia		11730*	PCJ	R. Nederland — Hilversum, Netherlands	
	11910*	HSK9	Overseas B.C. of Thailand — Bangkok, Thailand		11770	HCJB	V. Andes — Quito, Ecuador	
12:15	7135	—	R. Niger — Niamey, Niger	4:15	5955	—	CBC — Montreal, Canada	
	9565	ETLF	R. V. Gospel — Addis Ababa, Ethiopia		9630	CKLO	CBC — Montreal, Canada	
12:30	5930	—	R. Prague — Prague, Czechoslovakia	9725	4XB51	Kol Zion — Jerusalem, Israel		
	6030	DZH6	Far East B.C. — Manila, Philippines	11720	CHOL	CBC — Montreal, Canada		
	7195	—	R. Japan — Tokyo, Japan	11780*	—	BBC — London, England		
	7230	DZL9	Far East B.C. — Manila, Philippines	12095	—	BBC — London, England		
	7285	—	R. Prague — Prague, Czechoslovakia					
	7345	—	R. Prague — Prague, Czechoslovakia	4:30	6070	—	R. Sofia — Sofia, Bulgaria	
	9525	—	R. Japan — Tokyo, Japan		6135	—	R. Warsaw — Warsaw, Poland	
	9715	DZF5	Far East B.C. — Manila, Philippines		7125	—	R. Warsaw — Warsaw, Poland	
	9795	—	R. Prague — Prague, Czechoslovakia	9540	—	Ankhararai Ulanbatras — Ulan Bator, Mongolia		
	11855	DZH8	Far East B.C. — Manila, Philippines	11850	—	Ankhararai Ulanbatras — Ulan Bator, Mongolia		
	11890	—	Far East B.C. — Manila, Philippines	11915	—	United Arab B.C. — Cairo, Egypt		
	11990	—	R. Prague — Prague, Czechoslovakia					
	1 pm	4920	—	R. Cordac — Bujumbura, Burundi	5 pm	6005	—	R. Warsaw — Warsaw, Poland
5995		—	Malawi B.C. — Blantyre, Malawi	6010		—	RAI — Rome, Italy	
7120		—	R. Mogadishu — Mogadishu, Somali	6100		—	R. Belgrade — Belgrade, Yugoslavia	
9710		—	Mauritius B.C. — Forest Side, Mauritius	7125		—	R. Warsaw — Warsaw, Poland	
1:15	6190	—	Vatican R. — Vatican City	7130	—	BBC — London, England		
	7250	—	Vatican R. — Vatican City	7145	—	R. Warsaw — Warsaw, Poland		
	9645	—	Vatican R. — Vatican City	7200	—	R. Belgrade — Belgrade, Yugoslavia		
1:30	3255	ELBC	Liberian B.C. — Monrovia, Liberia	7260	BEC71	V. China Air Force — Taipei, Taiwan		
	6100	—	R. Belgrade — Belgrade, Yugoslavia	7265	—	Tirana Calling — Tirana, Albania		
	6135	—	R. Warsaw — Warsaw, Poland	7285	—	R. Warsaw — Warsaw, Poland		
	7125	—	R. Warsaw — Warsaw, Poland	9390	—	Tirana Calling — Tirana, Albania		
	7200	—	R. Belgrade — Belgrade, Yugoslavia	9505	—	R. Belgrade — Belgrade, Yugoslavia		
	11720	CHSB	CBC — Montreal, Canada	9675	—	Vatican R. — Vatican City		
	11810	—	Lebanese B.C. — Beirut, Lebanon	9710	—	RAI — Rome, Italy		
	11875	ETLF	R. V. Gospel — Addis Ababa, Ethiopia	9765	—	BBC — London, England		
				11735	—	Vatican R. — Vatican City		
				11840	—	R. Warsaw — Warsaw, Poland		

24-Hour Short-wave Schedule

TIME (EST)	FREQ.	CALL	STATION NAME and LOCATION	TIME (EST)	FREQ.	CALL	STATION NAME and LOCATION
5:15	11900*	—	R. Moscow — Moscow, U.S.S.R.	9 pm	4820	HRVC	R. Evangelica — Tegucigalpa, Honduras
	11965*	—	R. Moscow — Moscow, U.S.S.R.		5970‡	—	R. Berlin International — Berlin, E. Germany
5:30	3225	ELWA	R. Village — Monrovia, Liberia		6025‡	—	V. West — Lisbon, Portugal
	5052	—	R. Singapore — Singapore, Singapore		6130	—	R. Nacional — Madrid, Spain
	5950	—	R. Warsaw — Warsaw, Poland		6160‡	—	R. Berlin International — Berlin, E. Germany
	6190	—	R. Bucharest — Bucharest, Rumania		6185‡	—	V. West — Lisbon, Portugal
	7195	—	R. Bucharest — Bucharest, Rumania		9615	—	R. Nacional — Madrid, Spain
	7305	—	V. Malaysia — Kuala Lumpur, Malaysia		9690	LRA33	RAE — Buenos Aires, Argentina
	9540	—	R. Warsaw — Warsaw, Poland		9715	—	Far East B.C. — Manila, Philippines
	9670	—	Vatican R. — Vatican City		9745*	HCJB	V. Andes — Quito, Ecuador
	11735	—	Vatican R. — Vatican City		11740	—	Far East B.C. — Manila, Philippines
	11940	—	R. Singapore — Singapore, Singapore		11780	—	R. Bgrano (RAE Relay) — Buenos Aires, Argentina
					11915*	HCJB	V. Andes — Quito, Ecuador
5:45	3280	—	Windward Is. B.C. — St. George's, Grenada	9:15	4980	—	R. Pakistan — Karachi, Pakistan
	6100	—	V. of Malaysia — Kuala Lumpur, Malaysia		6070	—	R. Pakistan — Karachi, Pakistan
	6175	—	V. of Malaysia — Kuala Lumpur, Malaysia		9645	—	R. Pakistan — Karachi, Pakistan
	7110	—	V. of Malaysia — Kuala Lumpur, Malaysia		11885	—	R. Pakistan — Karachi, Pakistan
	9750	—	V. of Malaysia — Kuala Lumpur, Malaysia	9:30	4985	CP75	Southern Cross R. — La Paz, Bolivia
	11900	—	V. of Malaysia — Kuala Lumpur, Malaysia		5970*	CKNA	CBC — Montreal, Canada
6 pm	4950	—	R. Malaysia Sarawak — Kuching, Sarawak		9625*	CKLO	CBC — Montreal, Canada
	5990‡	—	CBC — Montreal, Canada		9710*	—	Lebanese B.C. — Beirut, Lebanon
	6540	—	Korean Central B.C. — Pyongyang, N. Korea		11820	—	Trans World R. — Bonaire, Neth. Antilles
	7160	—	R. Malaysia Sarawak — Kuching, Sarawak	10 pm	4885	—	V. Kenya — Nairobi, Kenya
	7580	—	Korean Central B.C. — Pyongyang, N. Korea		5808	OAX7L	V. Altiplano — Puno, Peru
	9625‡	—	CBC — Montreal, Canada		5930*	—	R. Prague — Prague, Czechoslovakia
	9745	BEC62	V. China Air Force — Taipei, Taiwan		5975	—	V. West — Lisbon, Portugal
	9875	—	Korean Central B.C. — Pyongyang, N. Korea		5990	—	R. Bucharest — Bucharest, Rumania
	11810‡	—	CBC — Montreal, Canada		6070	—	Ghana B.C. — Accra, Ghana
6:30	9755	—	VTVN — Saigon, S. Vietnam		6130*	—	R. Nacional — Madrid, Spain
6:45	9510*	—	BBC — London, England		6140*	—	R. Budapest — Budapest, Hungary
7 pm	3300	—	R. Belize — Belize, Brit. Honduras		6185	—	R. Ceylon — Colombo, Ceylon
	6070*	—	R. Sofia — Sofia, Bulgaria		6190	—	R. Bucharest — Bucharest, Rumania
	7150*	—	R. Moscow — Moscow, U.S.S.R.		6234*	—	R. Budapest — Budapest, Hungary
	7200*	—	R. Moscow — Moscow, U.S.S.R.		7115*	—	R. Prague — Prague, Czechoslovakia
	7250*	—	R. Moscow — Moscow, U.S.S.R.		7130	BED7	V. Free China — Taipei, Taiwan
	7265*	—	Tirana Calling — Tirana, Albania		7150	—	Male Sinco R. — Male Is., Maldive Is.
	7290*	—	R. Moscow — Moscow, U.S.S.R.		7220*	—	R. Budapest — Budapest, Hungary
	7310*	—	R. Moscow — Moscow, U.S.S.R.		7345+	—	R. Prague — Prague, Czechoslovakia
	7330*	—	R. Moscow — Moscow, U.S.S.R.		9510	—	R. Bucharest — Bucharest, Rumania
	7360*	—	R. Moscow — Moscow, U.S.S.R.		9525	—	R. Japan — Tokyo, Japan
	9390*	—	Tirana Calling — Tirana, Albania		9550*	—	R. Norway — Oslo, Norway
	9660*	—	R. Moscow — Moscow, U.S.S.R.		9570	—	R. Bucharest — Bucharest, Rumania
	9690	LRA33	RAE — Buenos Aires, Argentina		9590	—	R. Bucharest — Bucharest, Rumania
	11780*	—	R. Japan — Tokyo, Japan		9610*	LLG	R. Norway — Oslo, Norway
7:30	6234*	—	R. Budapest — Budapest, Hungary		9615	—	R. Nacional — Madrid, Spain
	7220*	—	R. Budapest — Budapest, Hungary		9690	LRA33	RAE — Buenos Aires, Argentina
	7225	VUD	All India R. — New Delhi, India		9715	DZH7	Far East B.C. — Manila, Philippines
	9540*	—	R. Budapest — Budapest, Hungary		9795*	—	R. Prague — Prague, Czechoslovakia
	9645	—	R. Pakistan — Karachi, Pakistan		9833*	—	R. Budapest — Budapest, Hungary
	9715	DZH7	Far East B.C. — Manila, Philippines		11740	DZF6	Far East B.C. — Manila, Philippines
	9765	VUD	All India R. — New Delhi, India		11780	—	R. Japan — Tokyo, Japan
	9833*	—	R. Budapest — Budapest, Hungary		11780	—	R. Belgrano (RAE Relay) — Buenos Aires, Argentina
	11740	DZF5	Far East B.C. — Manila, Philippines		11810	—	R. Bucharest — Bucharest, Rumania
	11785	VUD	All India R. — New Delhi, India		11825	BED69	V. Free China — Taipei, Taiwan
	11885	—	R. Pakistan — Karachi, Pakistan		11850*	—	R. Norway — Oslo, Norway
					11860	BED45	V. Free China — Taipei, Taiwan
					11990*	—	R. Prague — Prague, Czechoslovakia
8 pm	5930*	—	R. Prague — Prague, Czechoslovakia	10:15	4960	—	R. Mogadishu — Mogadishu, Somali
	5970‡	—	R. Berlin International — Berlin, E. Germany		7120	—	R. Mogadishu — Mogadishu, Somali
	5970*	CKNA	CBC — Montreal, Canada		11805+	—	R. Sweden — Stockholm, Sweden
	5985*	—	Vatican R. — Vatican City	10:30	5052	—	R. Singapore — Singapore, Singapore
	6010*	—	RAI — Rome, Italy		6110*	—	Ghana B.C. — Accra, Ghana
	6130	—	R. Nacional — Madrid, Spain		6135	—	R. Habana — Havana, Cuba
	6160‡	—	R. Berlin International — Berlin, E. Germany		11940	—	R. Singapore — Singapore, Singapore
	7110	—	V. America Relay — Colombo, Ceylon	10:45	5970+	—	R. Berlin International — Berlin, E. Germany
	7115*	—	R. Prague — Prague, Czechoslovakia		6025+	—	V. West — Lisbon, Portugal
	7250*	—	Vatican R. — Vatican City		6160+	—	R. Berlin International — Berlin, E. Germany
	7345*	—	R. Prague — Prague, Czechoslovakia		6185+	—	V. West — Lisbon, Portugal
	9525*	—	R. Habana — Havana, Cuba	11 pm	4845	—	BBC Relay — Francistown, Botswana
	9615	—	R. Nacional — Madrid, Spain		6070*	—	R. Sofia — Sofia, Bulgaria
	9625*	CKLO	CBC — Montreal, Canada		6090	—	R. Belgrano (RAE Relay) — Buenos Aires, Argentina
	9630*	—	RAI — Rome, Italy		9510	—	BBC — London, England
	9645*	—	Vatican R. — Vatican City		9690	LRA33	RAE — Buenos Aires, Argentina
	9795*	—	R. Prague — Prague, Czechoslovakia		9710	—	Mauritius B.C. — Forest Side, Mauritius
	11720*	CHSB	CBC — Montreal, Canada		11750	—	BBC — London, England
	11835	—	V. America Relay — Colombo, Ceylon		11780	—	R. Belgrano (RAE Relay) — Buenos Aires, Argentina
	11945	—	R. Peking — Peking, China	11:15	5965+	—	Swiss B.C. — Berne, Switzerland
	11990*	—	R. Prague — Prague, Czechoslovakia		6190*	—	Overseas B.C. of Thailand — Bangkok, Thailand
8:15	6120‡	HER3	Swiss B.C. — Berne, Switzerland		11715+	—	Swiss B.C. — Berne, Switzerland
	9535‡	HER4	Swiss B.C. — Berne, Switzerland		11910*	—	Overseas B.C. of Thailand — Bangkok, Thailand
	11715‡	—	Swiss B.C. — Berne, Switzerland	11:30	6040	—	R. Yaounde — Yaounde, Cameroon
8:30	3300	—	R. Belize — Belize, Brit. Honduras		6140*	—	R. Budapest — Budapest, Hungary
	5020	—	R. Ceylon — Colombo, Ceylon		6150	—	R. Bucharest — Bucharest, Rumania
	5990	—	R. Bucharest — Bucharest, Rumania		6190	—	R. Bucharest — Bucharest, Rumania
	6035	XZK3	Burma B.C. — Rangoon, Burma		6234*	—	R. Budapest — Budapest, Hungary
	6075‡	—	Deutsche Welle — Cologne, W. Germany		7220*	—	R. Budapest — Budapest, Hungary
	6150	—	R. Bucharest — Bucharest, Rumania		9510	—	R. Bucharest — Bucharest, Rumania
	6190	—	R. Bucharest — Bucharest, Rumania		9545	—	Ghana B.C. — Accra, Ghana
	6234*	—	R. Budapest — Budapest, Hungary		9570	—	R. Bucharest — Bucharest, Rumania
	7220*	—	R. Budapest — Budapest, Hungary		9590	—	R. Bucharest — Bucharest, Rumania
	9510	—	R. Bucharest — Bucharest, Rumania		9760	—	Ghana B.C. — Accra, Ghana
	9540*	—	R. Budapest — Budapest, Hungary		9833*	—	R. Budapest — Budapest, Hungary
	9590*	—	R. Nederland Relay — Bonaire, Neth. Antilles		11810	—	R. Bucharest — Bucharest, Rumania
	9590	—	R. Bucharest — Bucharest, Rumania	11:45	5970+	—	R. Berlin International — Berlin, E. Germany
	9640‡	—	Deutsche Welle — Cologne, W. Germany		6160+	—	R. Berlin International — Berlin, E. Germany
	9833*	—	R. Budapest — Budapest, Hungary				
	11810	—	R. Bucharest — Bucharest, Rumania				

Gerry Felif

HAMMOND

**WORLD
ATLAS**

NEW PERSPECTIVE EDITION

HAMMOND INCORPORATED

Maplewood, N. J.

MARINE WEATHER BROADCASTS

ATLANTIC COAST AREA—EST

Location	Call Sign	Frequency	Regularly Scheduled Forecasts	Special Storm and Hurricane Warnings
Boston, Mass.	WOU	2450, 2506	Daily, 5:20, 11:20 am & pm, 6:20 am	On recpt. and 20 min. past each odd hour
Boston, Mass.	NMF	2670*	Daily, 5:40 am & pm, 11:40 pm	On recpt. and 11:40 am & pm
New York, N.Y.	WOX	2522, 2590	Daily, 7:15 am & pm	On recpt. and 15 min. past each odd hour
New York, N.Y.	NMY	2482 daytime only		
Ocean Gate, N.J.	WAQ	2670*		On recpt. and 7:20 am & pm
Ocean Gate, N.J.	WOO	2558	Daily, 7:15 am & pm	On recpt. and 15 min. past each even hour
Cape May, N.J.	NMK	4396.6		Daily, 8 am & pm
Wilmington, Del.	WEH	2670*	Daily, 6:00 am & pm	On recpt.
Baltimore, Md.	NMX	2558	Daily, 7:30 am & pm	On recpt. and 30 min. past each even hr.
Norfolk, Va.	WGB	2670*	Daily, 12:30 pm	On recpt.
Norfolk, Va.		2538	Daily, 6:00 am & pm, midnight & noon	On recpt.
Norfolk, Va.		2450 daytime only		
Norfolk, Va.	NMN	2670*		On recpt. and at 12:20 am & pm
Fort Macon, N.C.	NMN 37	2670*	Daily, 12 noon	On recpt.
Charleston, S.C.	WJO	2566	Daily, 7:15 am & pm	On recpt. and on even hrs. thereafter
Charleston, S.C.	NMB	2670*		On recpt. and 11:20 am & pm
Jacksonville, Fla.	NMV	2670*	Daily, 1:20 am & pm	On recpt.
Jacksonville, Fla.	WNJ	2566	Daily, 7 am & pm	On recpt. and on odd hrs. thereafter
Miami, Fla.	WDR	2490, 2514	Daily, 7:15 am & pm	On recpt. and on odd hrs. thereafter
Miami, Fla.	NMA	2670*		(2514 kc used daytime only Apr. 1–Dec. 15)
				On recpt. and at 11:50 am & pm

GULF AND CARIBBEAN AREA—CST

Location	Call Sign	Frequency	Regularly Scheduled Forecasts	Special Storm and Hurricane Warnings
Tampa, Fla.	WFA	2466	Daily, 6 am & pm	On recpt. and on odd hrs. thereafter
St. Petersburg, Fla.	NOF	2550		
Mobile, Ala.	WLO	2670*	Daily, on odd hrs.	On recpt. and 10:20 am & pm
New Orleans, La.	NMG	2572	Daily, 5:50 and 11:50 am & pm	On recpt.
New Orleans, La.	WAK	2670*	Daily, 8 am & 11 pm	On recpt. and on odd hrs. thereafter
Galveston, Tex.	NOY	2482, 2558		
Galveston, Tex.	KQP	2598	Daily, 5:20 and 11:20 am & pm	On recpt.
Swan Island, W.I.	WSG	2670*	Daily, 7 am & 12:30 am	On recpt. and at 15 min. past odd hr.
San Juan, P.R.	NMR	2530	Daily, 11:05 am and on request	
		2738	Daily, 11 am & pm, 8:20 pm, 12:20 pm (AST)	On recpt. and 18 or 48 min. past hr.
		2670*		

PACIFIC COAST AREA—PST

Location	Call Sign	Frequency	Regularly Scheduled Forecasts	Special Storm and Hurricane Warnings
Port Angeles, Wash.	NOW	2670*	Daily, 9:45 am & pm	On recpt. and every 3 hrs. thereafter
Seattle, Wash.	KOW	2522, 2482	Daily, 9 am & 9 pm (Oct.–May); 9 am & 8:50 pm (Apr.–Sept.)	On recpt. (2482 kc used 5 am–9 pm Apr.–Sept., 6 am–11 pm Oct.–Mar.)
Seattle, Wash.	NMW 43	2670*	Daily, 9:15 am	On recpt. and every 3 hrs. thereafter
Westport, Wash.	NMW	2670*	Daily, 9:30 am & pm	On recpt. and every 3 hrs. thereafter
Astoria, Oreg.	KFX	2598	Daily, 9:15 am & pm	On recpt.
Portland, Oreg.	KQX	2598	Daily, 9:30 am & pm	On recpt. and on odd hrs. thereafter
Coos Bay, Oreg.	KTJ	2566	Daily, 9:30 am & 6:30 pm	
		2182		
Eureka, Calif.	KOE	2450, 2506	Daily, 8:45 am & pm	On recpt. and on odd hrs. thereafter
San Francisco, Calif.	KLH	2450, 2506	Daily, 8:30 am & pm	On recpt. and on odd hrs. thereafter
San Francisco, Calif.	NMC	2182		On recpt. and on odd hrs. thereafter
		2670*		On recpt.
Long Beach, Calif.	NMQ	2670*	Daily, 9 am & pm	At 8:30 am or pm
San Pedro, Calif.	KOU	2566	Daily, 8 am & pm	On recpt. and every 3 hrs. thereafter
				On recpt. and on odd hrs. thereafter

GREAT LAKES AREA—EST

Location	Call Sign	Frequency	Broadcasts	Lakes Affected	Broadcast Times (during navigation season†)
Lorain, Ohio	WMI	2514 4422.2	Weather Bulletins	All of Great Lakes	Daily, 2:30 and 8:30 am & pm
Buffalo, N.Y.	WBL	↑ All on 2182 kc ↓	↑ Gale and Whole Gale Warnings ↓	Erie & Ontario	On recpt. and 55 min. after odd hrs.
Erie, Pa.	NMD 11			Erie	On recpt. and 55 min. after even hrs.
Lorain, Ohio	WMI			All of Great Lakes	On recpt. and 35 min. after odd hrs.
Port Huron, Mich.	NMD 22			Huron	On recpt. and 35 min. after odd hrs.
E. Tawas, Mich.	NMD 24			Huron	On recpt. and 35 min. after odd hrs.
Rogers City, Mich.	WLC			Superior, Michigan & Huron	On recpt. and 45 min. after odd hrs.
Sault Ste. Marie, Mich.	NOG			Superior, Michigan & Huron	On recpt. and 45 min. after odd hrs.
Portage, Mich.	NOG 17			Superior	On recpt. and 35 min. after odd hrs.
Marquette, Mich.	NOG 5	Superior	On recpt. and 55 min. after odd hrs.		
Chicago, Ill.	WAY‡	Superior	On recpt. and 45 min. after odd hrs.		
Port Washington, Wis.	WAD‡	Superior & Michigan	On recpt. and 55 min. after even hrs.		
Plum Island, Wis.	NMP 15	Michigan	On recpt. and 35 min. after even hrs.		
Duluth, Minn.	WAS	Superior	On recpt. and 55 min. after even hrs.		

*After announcement on 2182 kc. †Navigation season usually April 1 to December 15. ‡Also during winter months.

WORLD TIME / GREENWICH MEAN TIME

Nearly all world time calculations are reckoned from an initial time zone centered on Greenwich, England and known as Greenwich Mean Time or G.M.T. Time advances one hour more for every 15° east of Greenwich, and in the same way, is one hour less for every 15° west. The

boundaries actually in use are not always meridians. This table gives the number of hours to be added or subtracted (when marked minus) from G.M.T. to obtain local standard time for each country. The summer and winter columns are based on seasons of the northern hemisphere.

Country	Summer time difference	Winter time difference	Standard time difference
ADEN	3	3	3
AFGHANISTAN	4 h. 26 m.	4 h. 26 m.	4
ALBANIA	1	1	1
ALGERIA	0	0	0
ANDORRA	1	1	0
ANGOLA	1	1	1
ANTIGUA	-4	-4	-4
ARGENTINA	-3	-4	-4
ASCENSION IS.	0	0	0
AUSTRALIA:			
Eastern	10	10	10
South and North	9½	9½	9½
Western	8	8	8
Tasmania	10	10	10
AUSTRIA	1	1	1
AZORES	-1	-2	-2
BAHAMAS	-5	-5	-5
BAHREIN ISLAND	4	4	3
BARBADOS	-4	-4	-4
BELGIUM	1	1	0
BERMUDA	-4	-4	-4
BOLIVIA	-4	-4	-4
BOTSWANA	2	2	2
BRAZIL:			
Eastern and Coastal	-2	-3	-3
Western (Manaus)	-3	-4	-4
Territory of Acre	-4	-5	-5
BRITISH HONDURAS	-6	-5½	-6
BRUNEI	8	8	8
BULGARIA	2	2	2
BURMA	6½	6½	6½
BURUNDI	2	2	2
CAMBODIA	7	7	7
CAMEROON	1	1	1
CANADA:			
Newfoundland	-2½	-3½	-3½
Atlantic	-3	-4	-4
Eastern	-4	-5	-5
Central	-5	-6	-6
Mountain	-6	-7	-7
Pacific, Yukon (East)	-7	-8	-8
Yukon (West)	-8	-9	-9
CANARY ISLANDS	0	0	-1
CANTON ISLAND	-11	-11	-11
CAPE VERDE ISLANDS	-2	-2	-2
CENTRAL AFRICAN REPUBLIC	1	1	1
CEYLON	5½	5½	5½
CHAD REPUBLIC	1	1	1
CHILE	-4	-4	-4
CHINA	8	8	8
COLOMBIA	-5	-5	-5
COMORO IS.	3	3	3
CONGO, DEM. REP. OF THE:			
Kinshasa, Mbandaka	1	1	1
Bukavu, Kisangani, Lubumbashi	2	2	2
CONGO, REP. OF (Brazzaville)	1	1	1
COOK IS.	-10½	-10½	-10½
COSTA RICA	-6	-6	-6
CUBA	-4	-5	-5
CYPRUS	2	2	2
CZECHOSLOVAKIA	1	1	1

Country	Summer time difference	Winter time difference	Standard time difference
DAHOMY	1	1	0
DENMARK	1	1	1
DOMINICA	-4	-4	-4
DOMINICAN REPUBLIC	-4	-5	-5
ECUADOR	-5	-5	-5
EL SALVADOR	-6	-6	-6
ETHIOPIA	3	3	3
FAEROE IS.	0	0	0
FALKLAND IS. (except Stanley)	-4	-4	-4
Stanley	-3	-4	-4
FEDERATION OF SOUTH ARABIA	3	3	3
FERNANDO PO	1	1	0
FIJI ISLANDS	12	12	12
FINLAND	2	2	2
FRANCE	1	1	0
FRENCH GUIANA	-3	-3	-3
GABON	1	1	1
GAMBIA	0	0	0
GERMANY (East and West)	1	1	1
GHANA	0	0	0
GIBRALTAR	1	1	0
GILBERT AND ELLICE IS.	12	12	12
GREECE	2	2	2
GREENLAND:			
Scoresby Sound	-2	-2	-2
West Coast (except Thule)	-3	-3	-3
Thule Area	-4	-4	-4
GRENADA (Windward Is.)	-4	-4	-4
GUADELOUPE	-4	-4	-4
GUAM	10	10	10
GUATEMALA	-6	-6	-6
GUINEA	0	0	-1
GUYANA	-3 h. 45 m.	-3 h. 45 m.	-3 h. 45 m.
HAITI	-5	-5	-5
HONDURAS	-6	-5	-6
HONG KONG	9	8	8
HUNGARY	2	1	1
ICELAND	0	-1	-1
INDIA	5½	5½	5½
INDONESIA:			
Western (Bali, Java, Sumatra)	7	7	7
Central (Borneo, Celebes, Lesser Sundas)	8	8	8
Eastern (Moluccas, West Irian)	9	9	9
IRAN	3½	3½	3½
IRAQ	3	3	3
IRELAND	1	0	0
ISRAEL	3	2	2
ITALY	1	1	1
IVORY COAST	0	0	0
JAMAICA	-5	-5	-5
JAPAN	9	9	9
JOHNSTON I.	-10	-10	-10
JORDAN	2	2	2
KASHMIR:			
Muzaffarabad, Trarkhel	5	5	5
Jammu, Srinagar	5½	5½	5½
KENYA	3	3	3

World Time / Greenwich Mean Time

Country	Summer time difference	Winter time difference	Standard time difference	Country	Summer time difference	Winter time difference	Standard time difference
KOREA (North and South)	9	9	9	RWANDA	2	2	2
KUWAIT	3	3	3	RYUKYU ISLANDS	9	9	9
LAOS	7	7	7	SAMOA (East and West)	-11	-11	-11
LEBANON	3	2	2	SAO TOME AND PRINCIPE	0	0	0
LESOTHO	2	2	2	SAUDI ARABIA*	Approx. 3	Approx. 3	3
LIBERIA	-45 min.	-45 min.	-44 min.	SENEGAL	0	0	-1
LIBYA	2	2	1	SEYCHELLES	4	4	4
LUXEMBOURG	1	1	1	SIERRA LEONE	0	0	0
MACAO	9	8	8	SINGAPORE	7½	7½	7½
MADEIRA ISLANDS	0	-1	-1	SOLOMON IS.	11	11	11
MALAGASY REPUBLIC	3	3	3	SOMALI REPUBLIC	3	3	3
MALAWI	2	2	2	SOMALILAND (FRENCH)	3	3	3
MALAYSIA:				SOUTH AFRICA (REPUBLIC OF)	2	2	2
Kuala Lumpur	7½	7½	7½	SPAIN	1	1	0
Sabah, Sarawak	8	8	8	SPANISH GUINEA	1	1	0
MALI	0	0	-1	ST. KITTS	-4	-4	-4
MALTA	1	1	1	ST. LUCIA	-4	-4	-4
MARIANA IS.	10	10	10	ST. PIERRE AND MIQUELON	-3	-3	-4
MARSHALL IS.	12	12	12	ST. VINCENT I. (Windward Is.)	-4	-4	-4
MARTINIQUE	-4	-4	-4	SUDAN	2	2	2
MAURITANIA	0	0	-1	SURINAM	-3½	-3½	-3 h. 40 m.
MAURITIUS	4	4	4	SWAZILAND	2	2	2
MEXICO (except Baja California, Sonora)	-6	-6	-6	SWEDEN	1	1	1
Baja California Sur, Sonora	-7	-7	-7	SWITZERLAND	1	1	1
Baja California Norte	-8	-8	-8	SYRIA	3	2	2
MIDWAY	-11	-11	-11	TAHITI	-10	-10	-10
MONACO	1	1	0	TAIWAN (NATIONALIST CHINA)	9	8	8
MONGOLIA	8	8	8	TANZANIA:			
MONTserrat I. (Leeward Is.)	-4	-4	-4	Dar es Salaam	3	3	3
MOROCCO	0	0	0	Zanzibar City	3	3	2 h. 45 m.
MOZAMBIQUE	2	2	2	THAILAND	7	7	7
NEPAL	5 h. 40 m.	5 h. 40 m.	5 h. 40 m.	TOGO	0	0	0
NETHERLANDS	1	1	0	TONGA	13	13	13
NETHERLANDS WEST INDIES	-4	-4	-4½	TRINIDAD AND TOBAGO	-4	-4	-4
NEW CALEDONIA	11	11	11	TUNISIA	1	1	1
NEW GUINEA (AUSTRALIAN)	10	10	10	TURKEY	3	2	2
NEW HEBRIDES	11	11	11	UGANDA	3	3	3
NEW ZEALAND	12	12	12	UNITED ARAB REPUBLIC (EGYPT)	3	2	2
NICARAGUA	-6	-6	-6	UNITED KINGDOM	1	1	0
NIGER	1	1	1	UPPER VOLTA	0	0	0
NIGERIA	1	1	1	U.S.S.R.:			
NORFOLK ISLAND	11½	11½	11½	Kiev, Leningrad, Minsk, Moscow, Odessa	3	3	2
NORWAY	2	1	1	Archangel, Caucasus, Kazan, Volgograd	4	4	3
OKINAWA (Ryukyu Islands)	9	9	9	Ashkhabad, Guryev, Kurgan, Sverdlovsk	5	5	4
PAKISTAN:				Alma-Ata, Frunze, Omsk, Tashkent	6	6	5
East	6	6	6	Barnaul, Krasnoyarsk, Novosibirsk	7	7	6
West	5	5	5	Irkutsk, Ulan-Ude	8	8	7
PANAMA	-5	-5	-5	Blagoveshchensk, Chita, Yakutsk	9	9	8
PANAMA CANAL ZONE	-5	-5	-5	Birobidzhan, Khabarovsk, Vladivostok	10	10	9
PARAGUAY	-4	-4	-4	Magadan, Yuzhno-Sakhalinsk	11	11	10
PERU (except Lima and Callao)	-5	-5	-5	Petropavlovsk (Kamchatka)	12	12	11
Lima and Callao	-5	-4	-5	Anadyr	13	13	12
PHILIPPINES	8	8	8	URUGUAY	-2	-3	-3
POLAND	2	1	1	VATICAN	1	1	1
PORTUGAL	1	0	0	VENEZUELA	-4	-4	-4½
PORTUGUESE GUINEA	-1	-1	-1	VIETNAM (North and South)	8	8	7
PORTUGUESE TIMOR	8	8	8	VIRGIN ISLANDS	-4	-4	-4
PUERTO RICO	-4	-4	-4	VOLCANO IS.	10	10	10
REUNION ISLANDS	4	4	4	YEMEN	3	3	3
RHODESIA	2	2	2	YUGOSLAVIA	1	1	1
RUMANIA	2	2	2	ZAMBIA	2	2	2

*Based on sun time.