

제 420 호

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전 파 예 보
Radio Propagation Prediction

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정 보 통 신 부
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RADIO RESEARCH LABORATORY
MINISTRY OF
INFORMATION AND COMMUNICATION

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1. 전파예보곡선설명

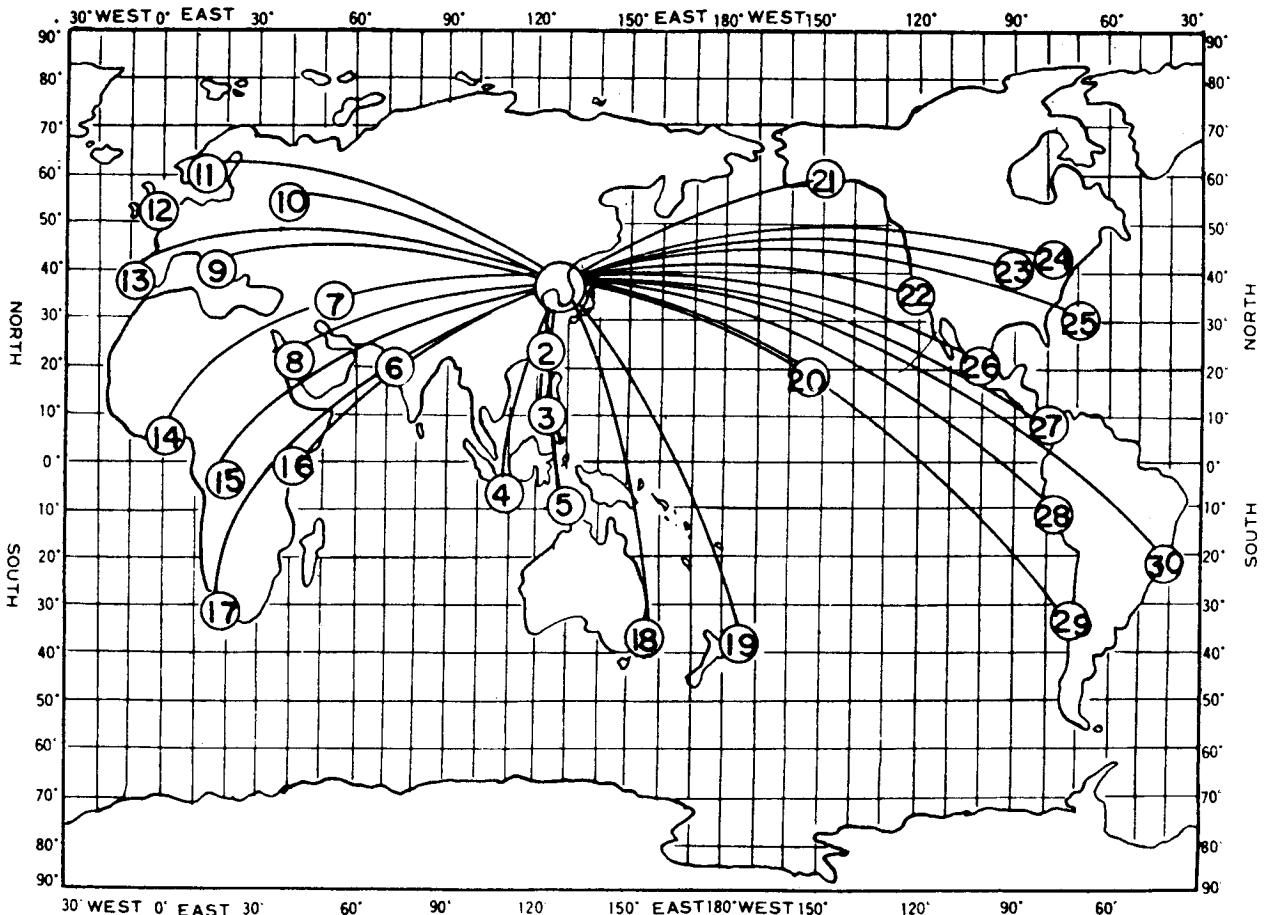
제2항의 전파예보 곡선 대상지역도는 서울을 중심으로한 원거리 통신회선의 예보 대상 지역으로 전파예보 곡선의 LUF는 표1과 같은 조건에 의해서 구해진 값이며, 전파예보 곡선의 상단곡선은 MUF, 하단곡선은 LUF로 표시한다.

통 신 회 선 대 원 거 리	8000km 이하	8000km 이상
송 신 기 출 력	1kW	10kW
송 수 신 공 중 선 이 득	0dB	10dB
최 저 소 요 전 계 강 도	3dB	3dB

표 1. LUF 산출조건

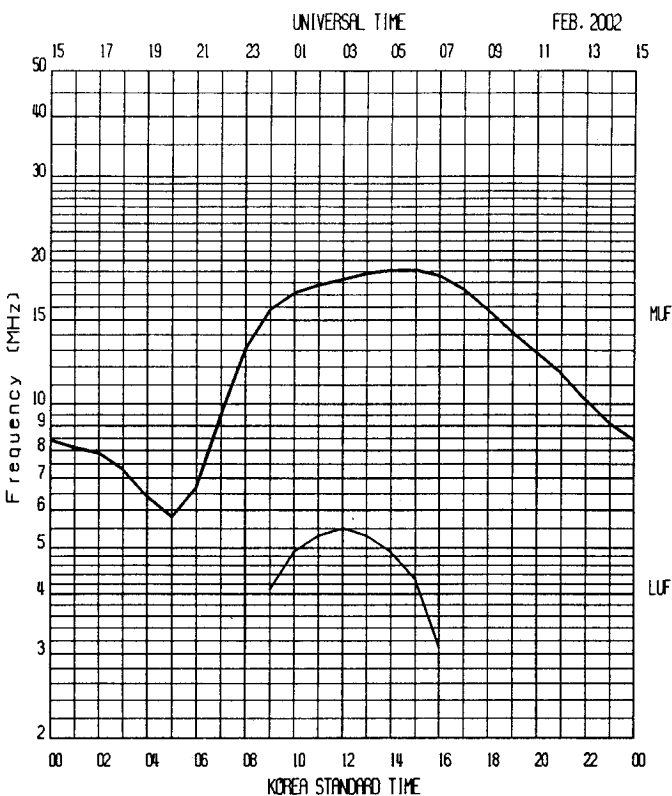
※ 상대흑점수 : 99.0

2. 전파예보곡선대상지역도

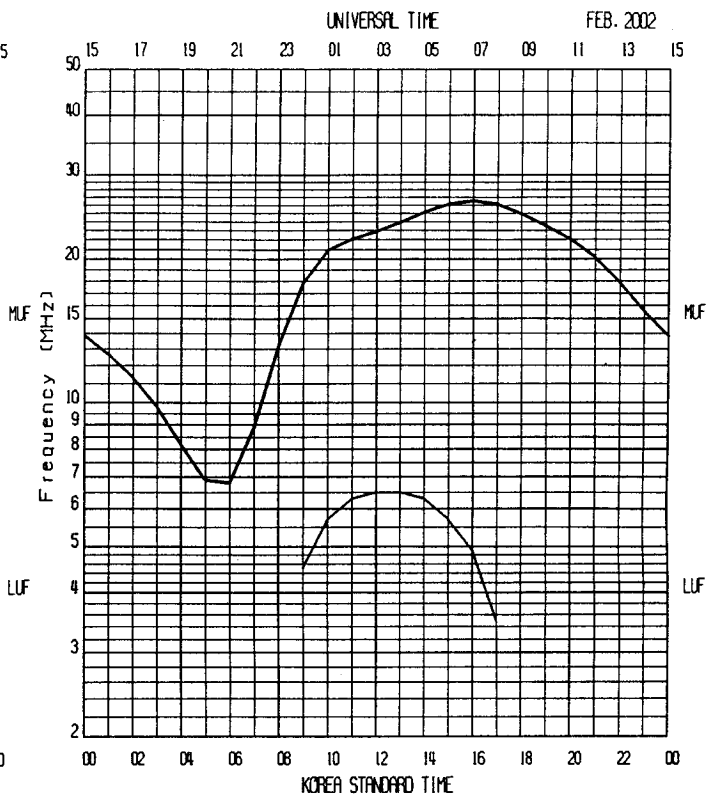


3. 전파예보 곡선

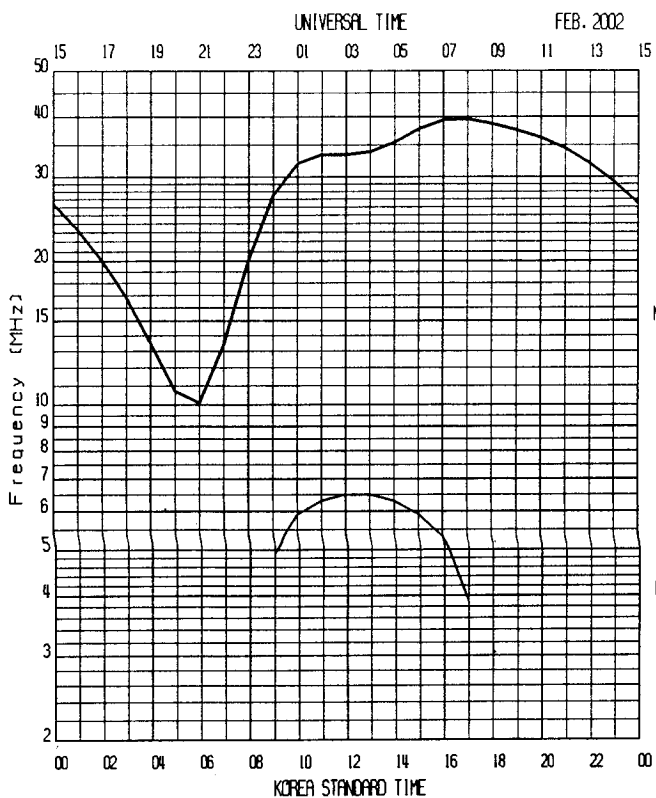
① SEOUL — TOKYO (1161.8km)



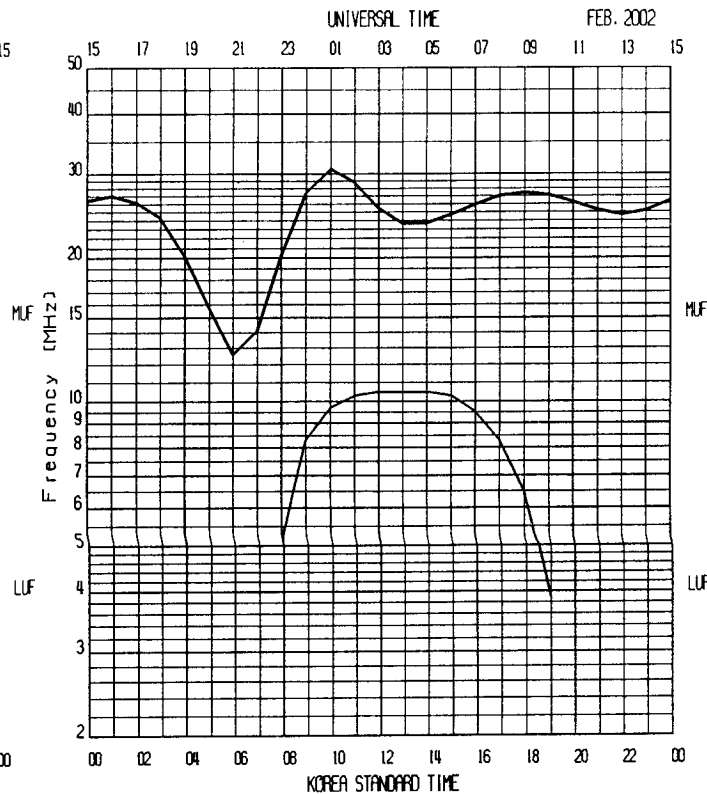
② SEOUL — TAIPEI (1480.9km)



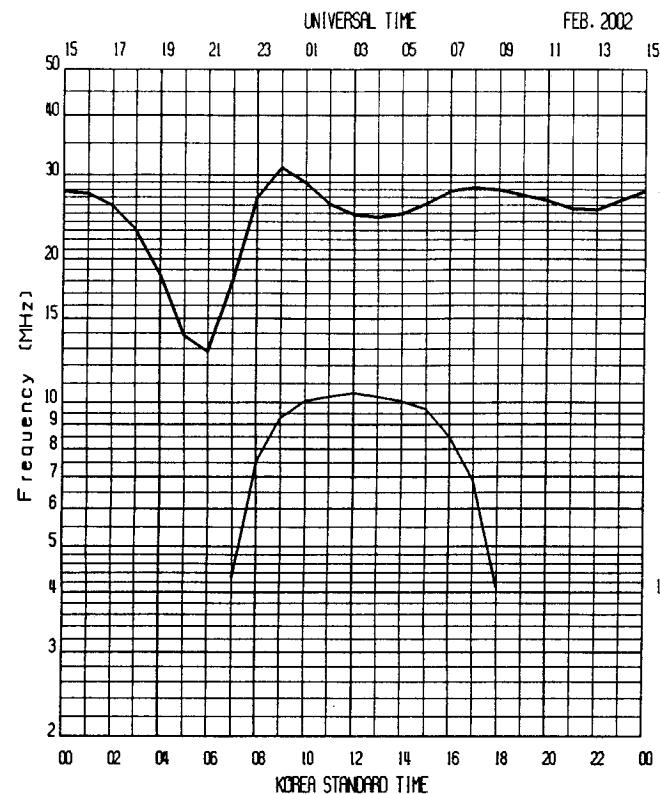
③ SEOUL — MANILA (2633.9km)



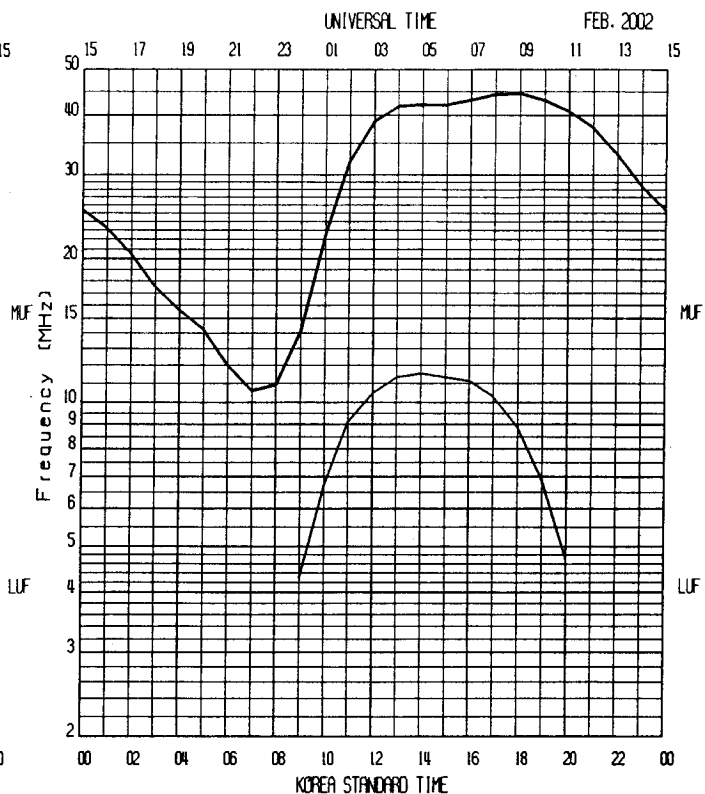
④ SEOUL — JAKARTA (5127.6km)



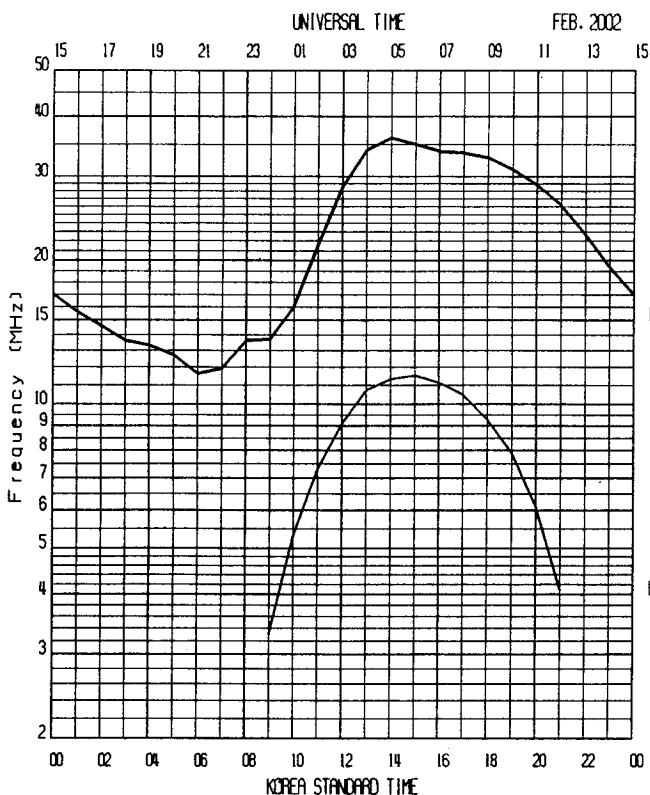
⑤ SEOUL — TIMOR (5174.3km)



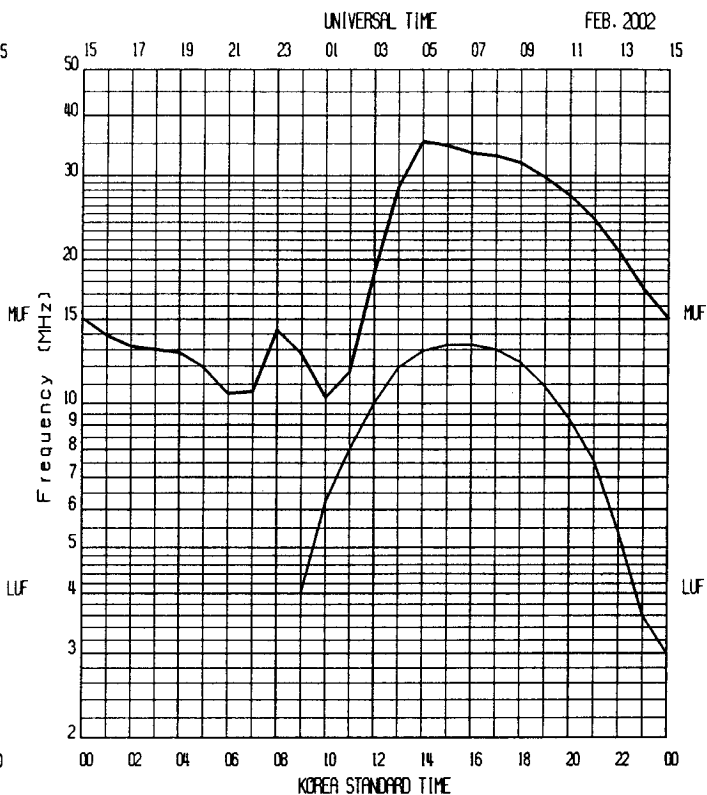
⑥ SEOUL — BOMBAY (5599.1km)



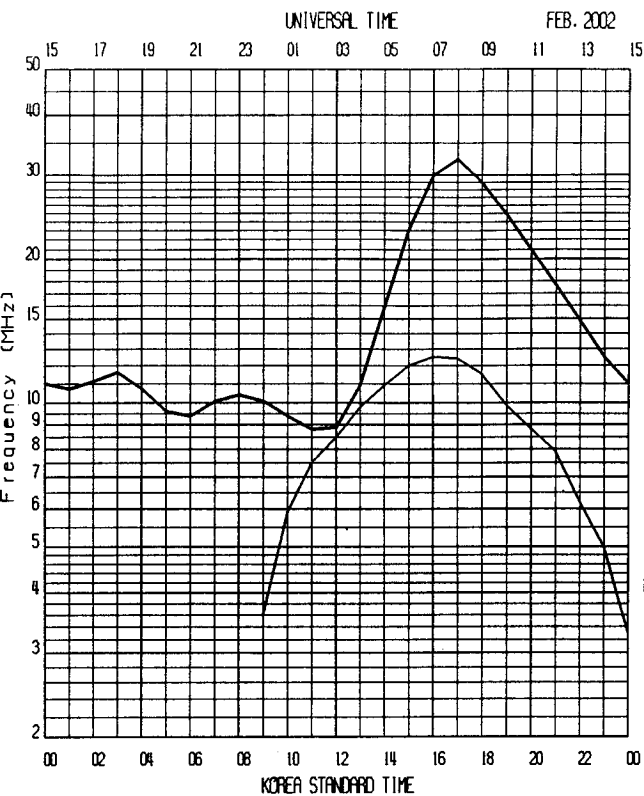
⑦ SEOUL — TEHERAN (6541.2km)



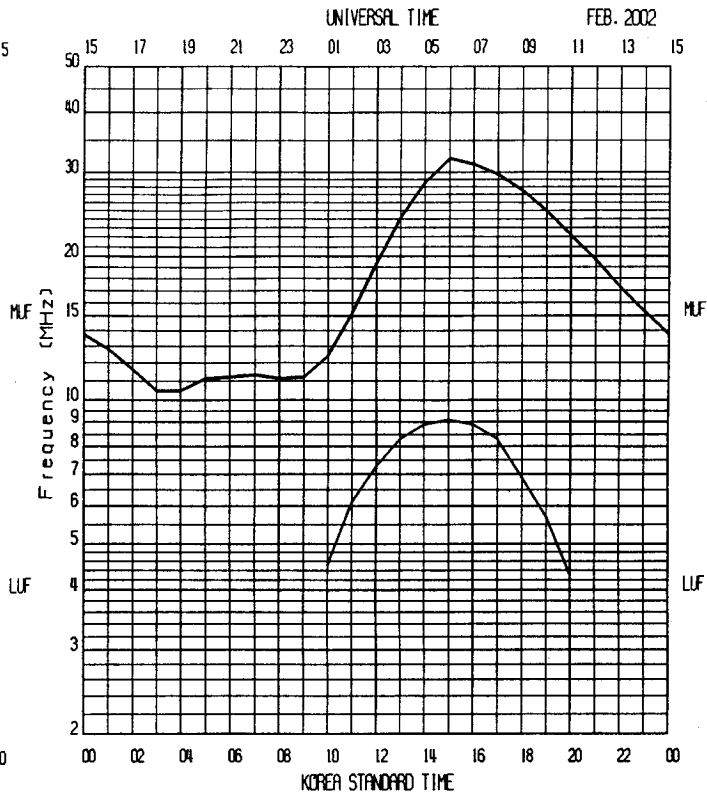
⑧ SEOUL — JIDDA (8399.7km)



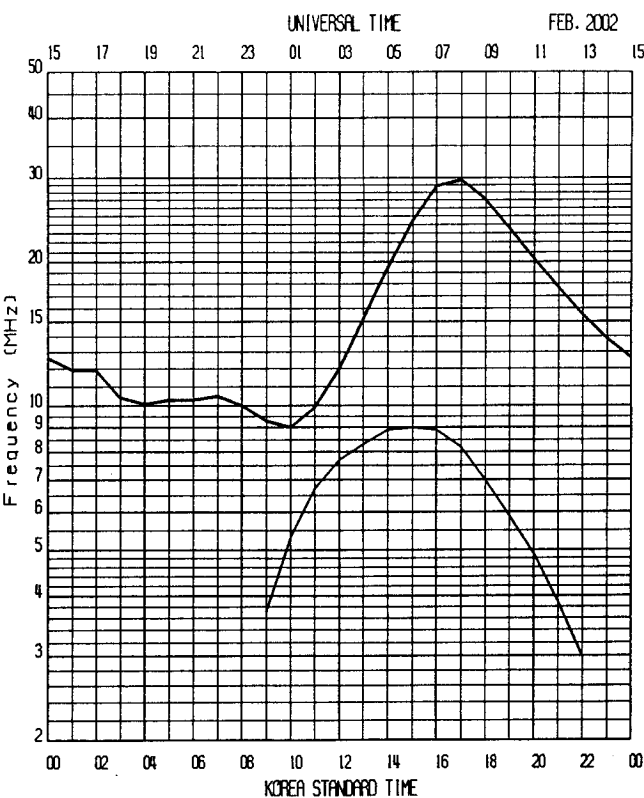
⑨ SEOUL — ROMA (9009.4km)



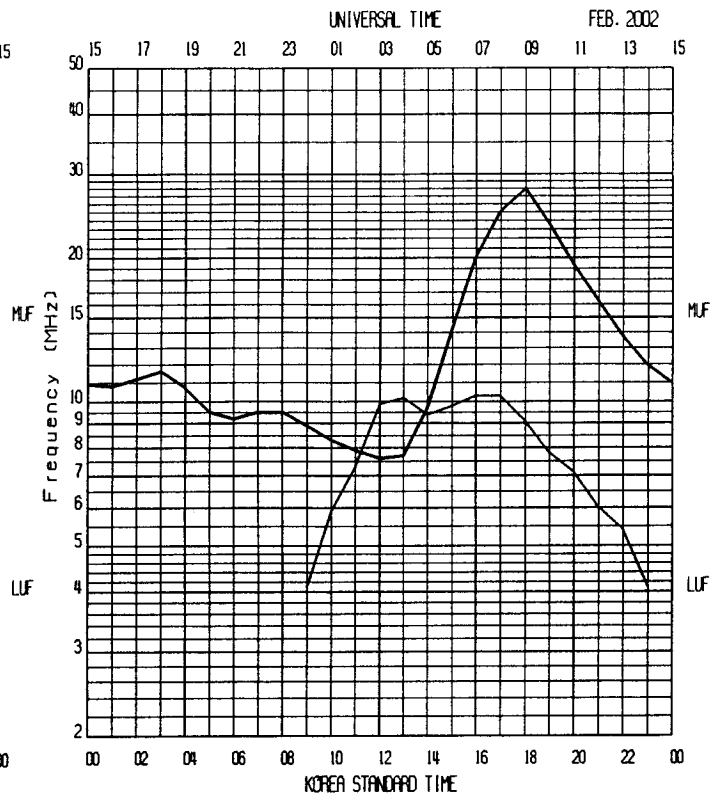
⑩ SEOUL — MOSCOW (6645.2km)



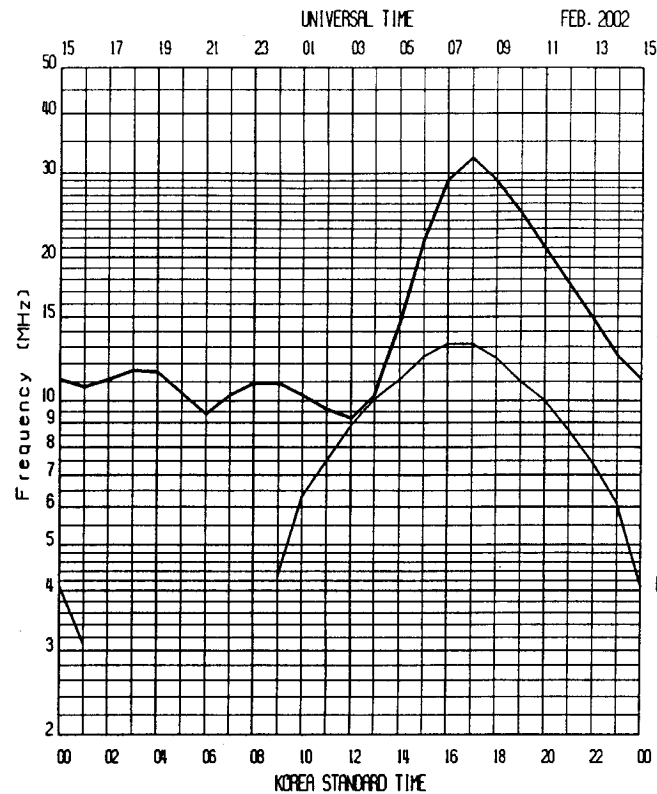
⑪ SEOUL — STOCKHOLM(7433.2km)



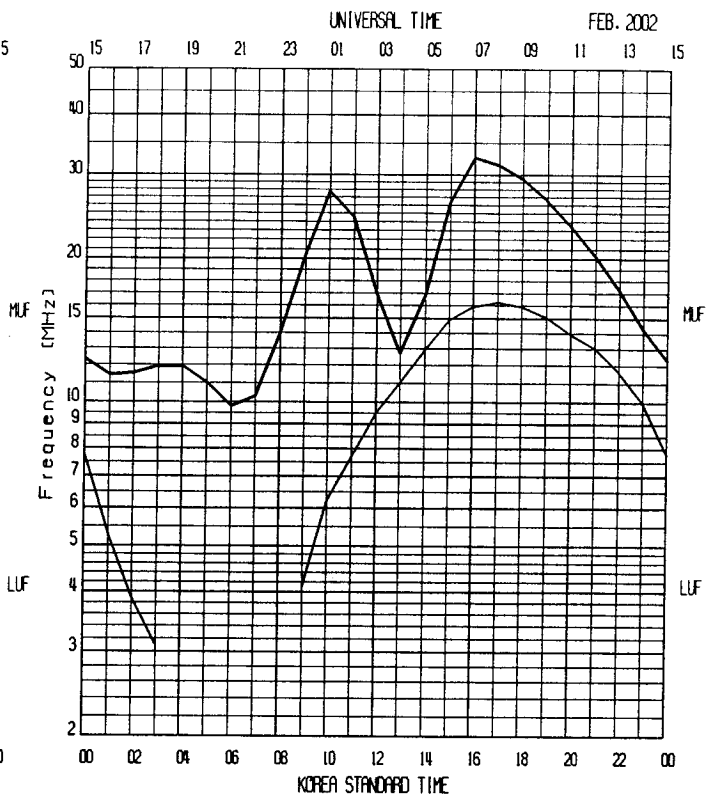
⑫ SEOUL — LONDON (8846.3km)



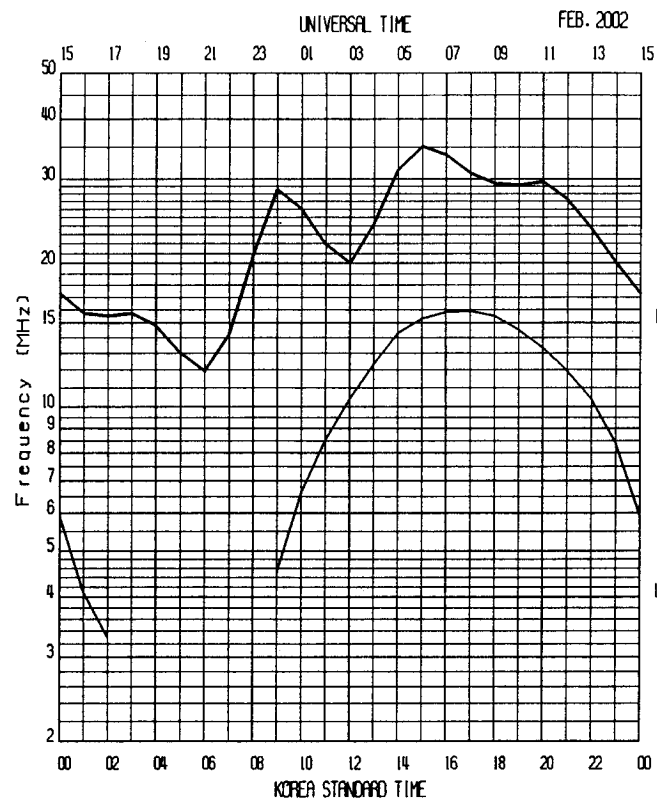
⑬ SEOUL — LISBON (9484.0km)



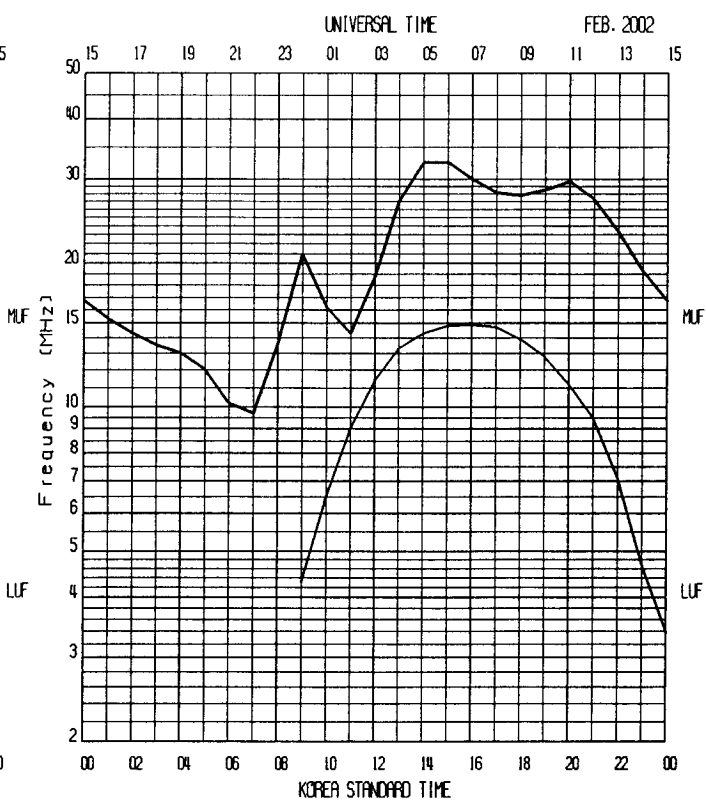
⑭ SEOUL — LAGOS (12423.3km)



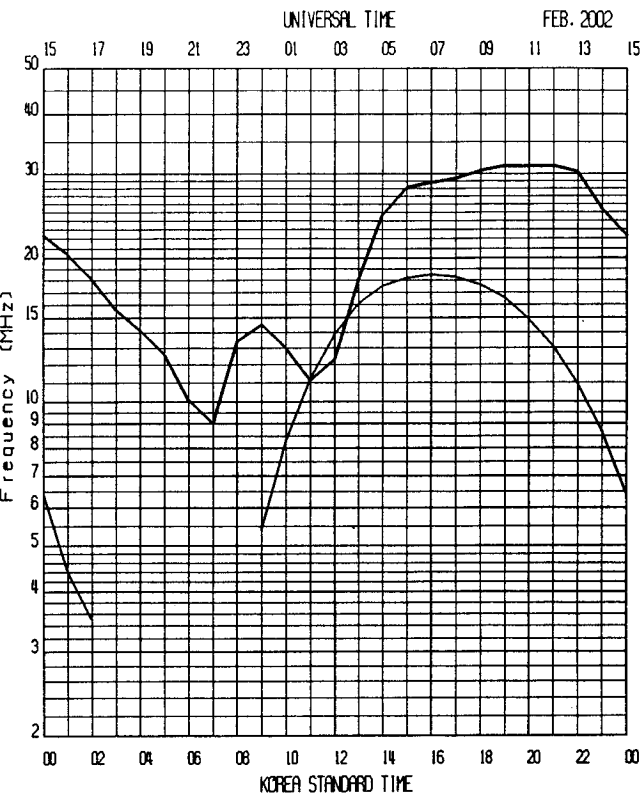
⑮ SEOUL — KINSHASA (12201.8km)



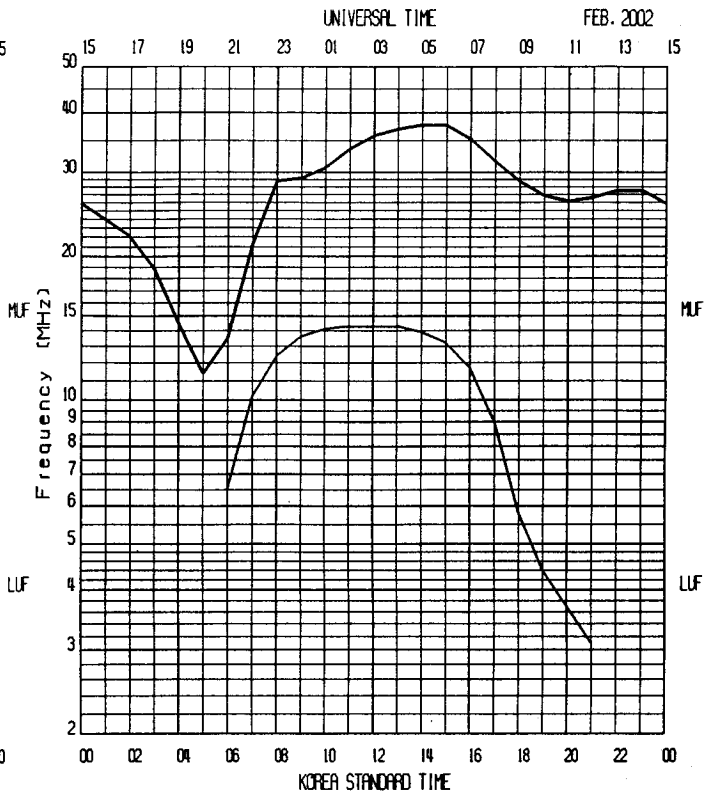
⑯ SEOUL — NAIROBI (10225.5km)



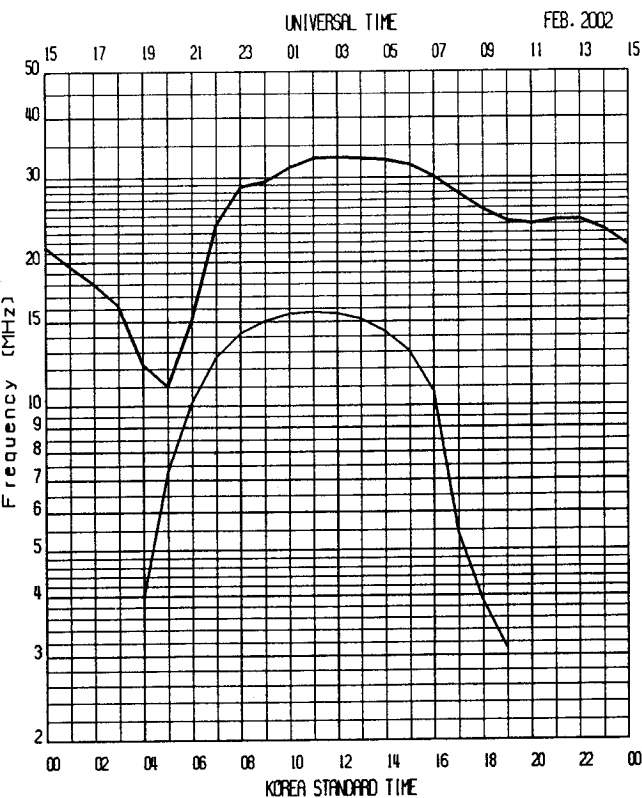
⑪ SEOUL — CAPE TOWN(13702.7km)



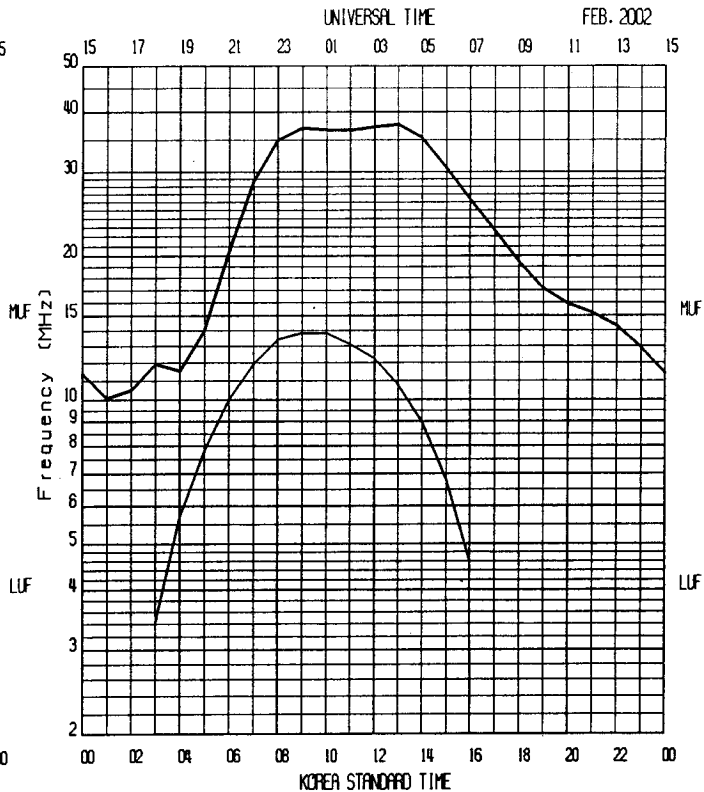
⑫ SEOUL — CANBERRA (8423.4km)



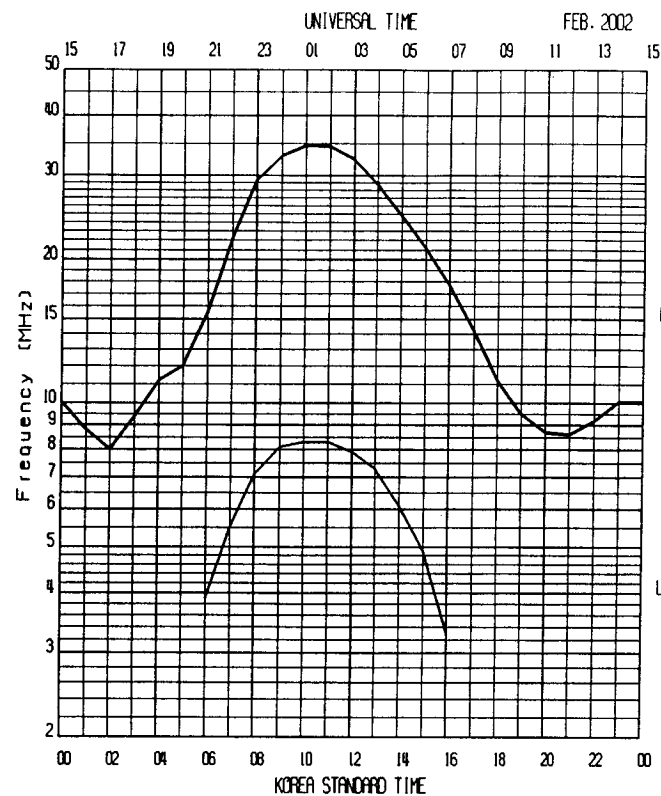
⑬ SEOUL — WELLINGTON(10030.5km)



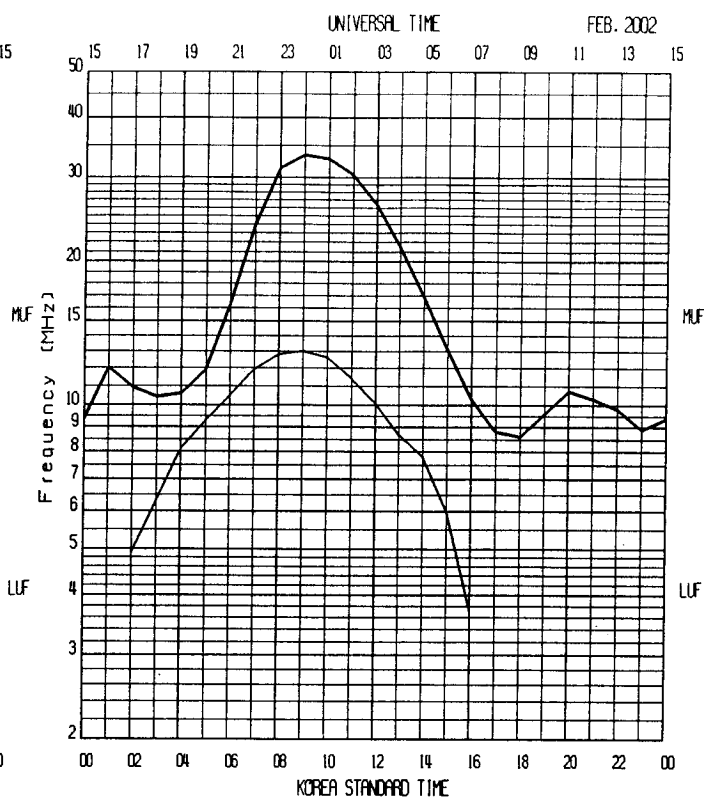
⑭ SEOUL — HAWAII (7325.2km)



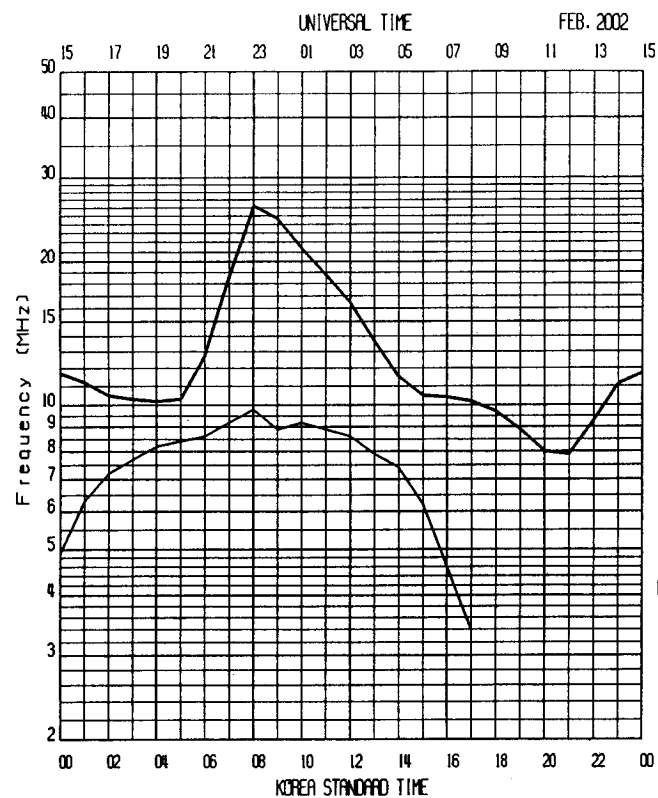
②① SEOUL — ALASKA (6092.6km)



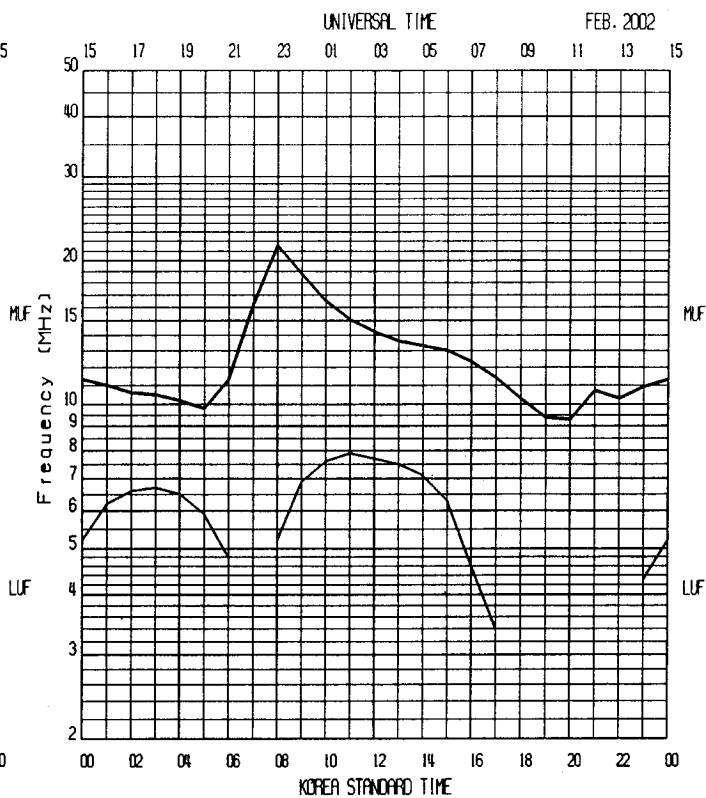
②② SEOUL — SANFRANCISCO (9039.1km)



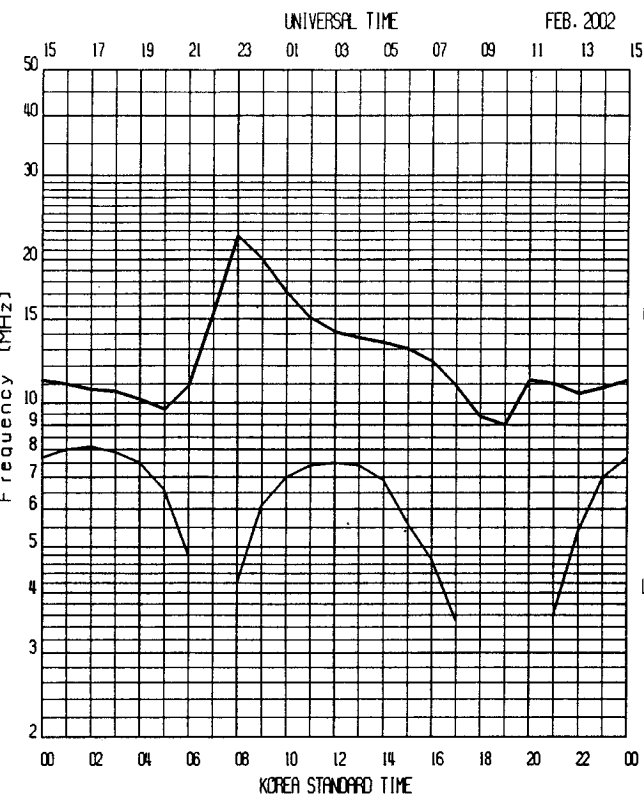
②③ SEOUL — CHICAGO (10568.7km)



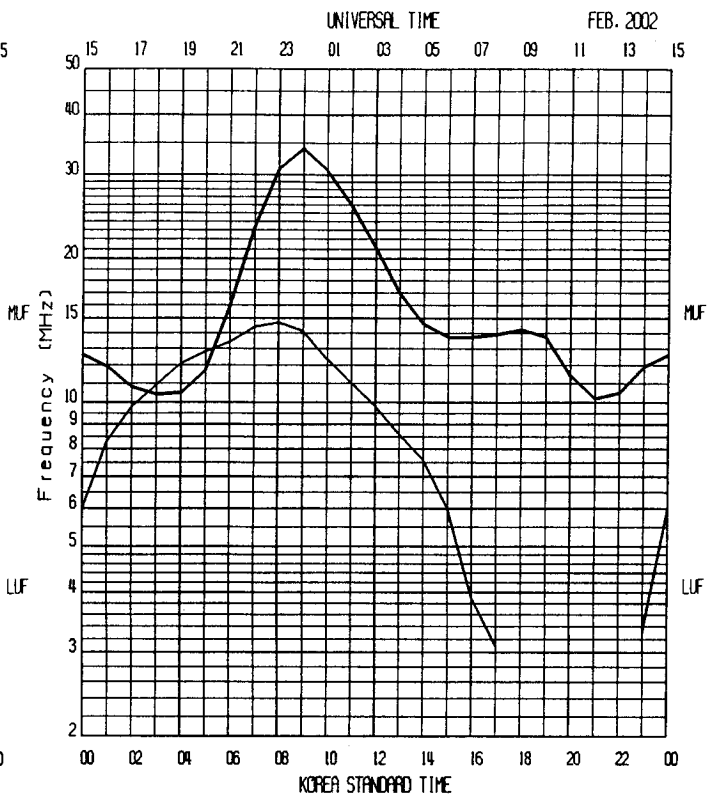
②④ SEOUL — MONTREAL (10562.5km)



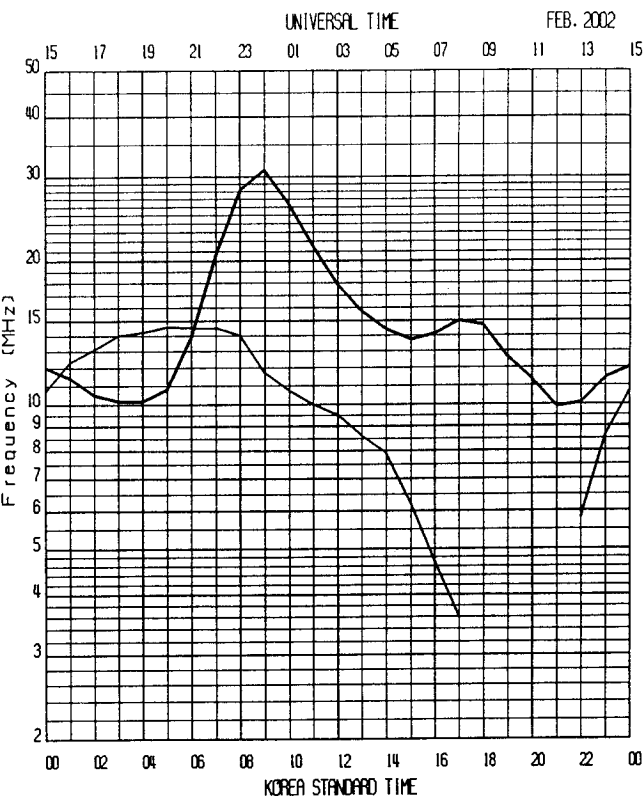
②⑤ SEOUL — BERMUDA (12189.0km)



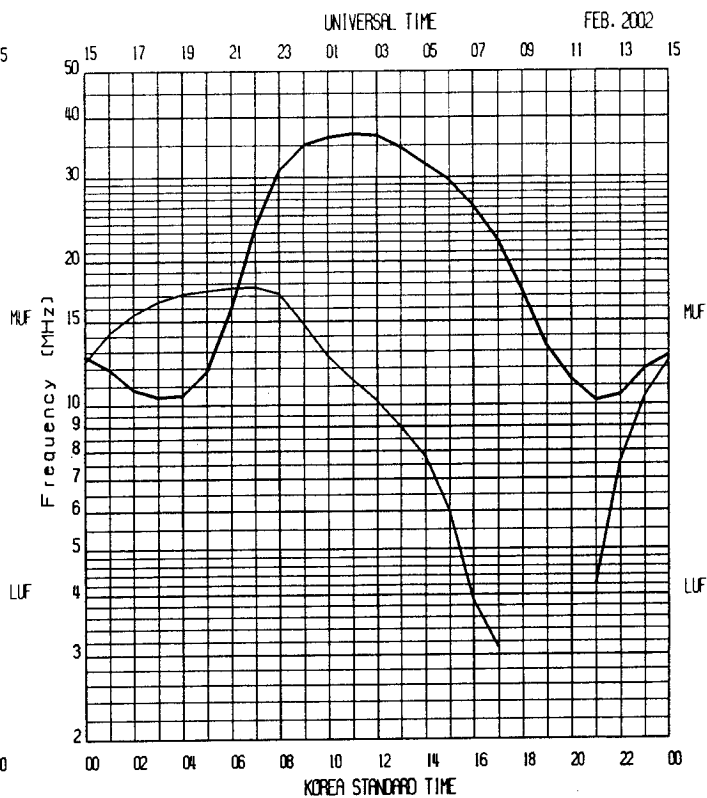
②⑥ SEOUL — MEXICO (12092.4km)

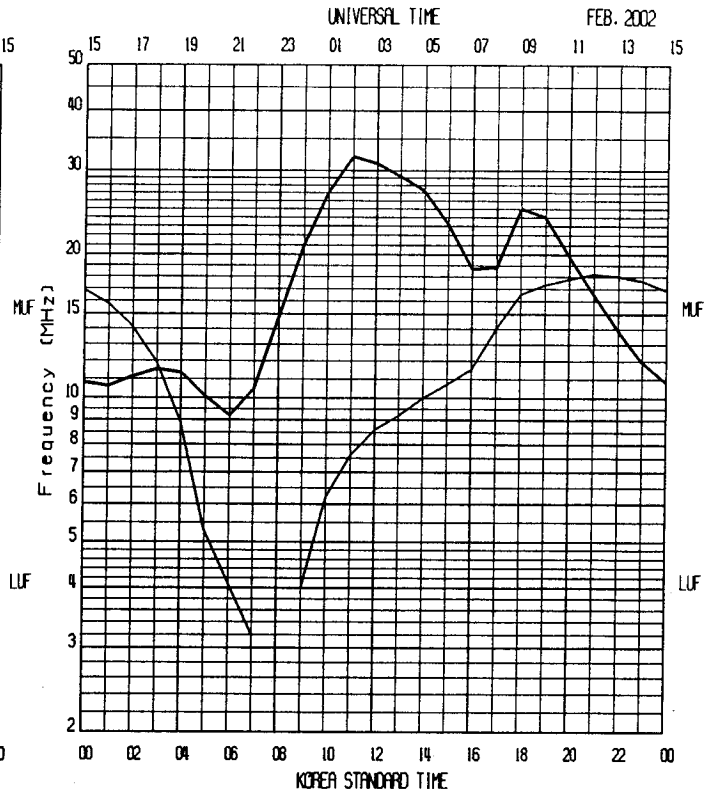
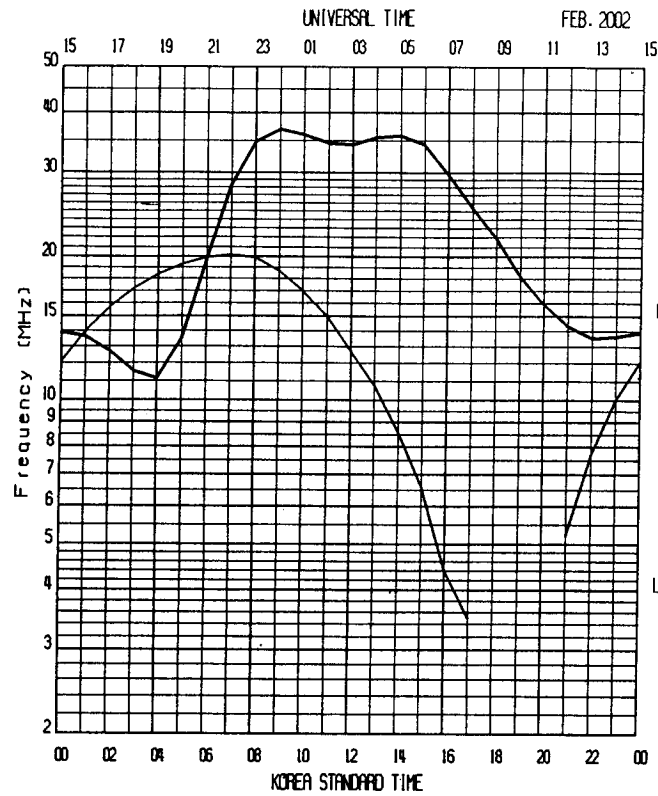


②⑦ SEOUL — PANAMA (14170.0km)



②⑧ SEOUL — LIMA (16333.1km)





4. 선박통신예보 설명

표2는 선박통신 예보표의 LUF 산출조건이며, 이외의 조건은 전파예보 곡선 설명과 동일한 조건하에서 계산할 수 있다.

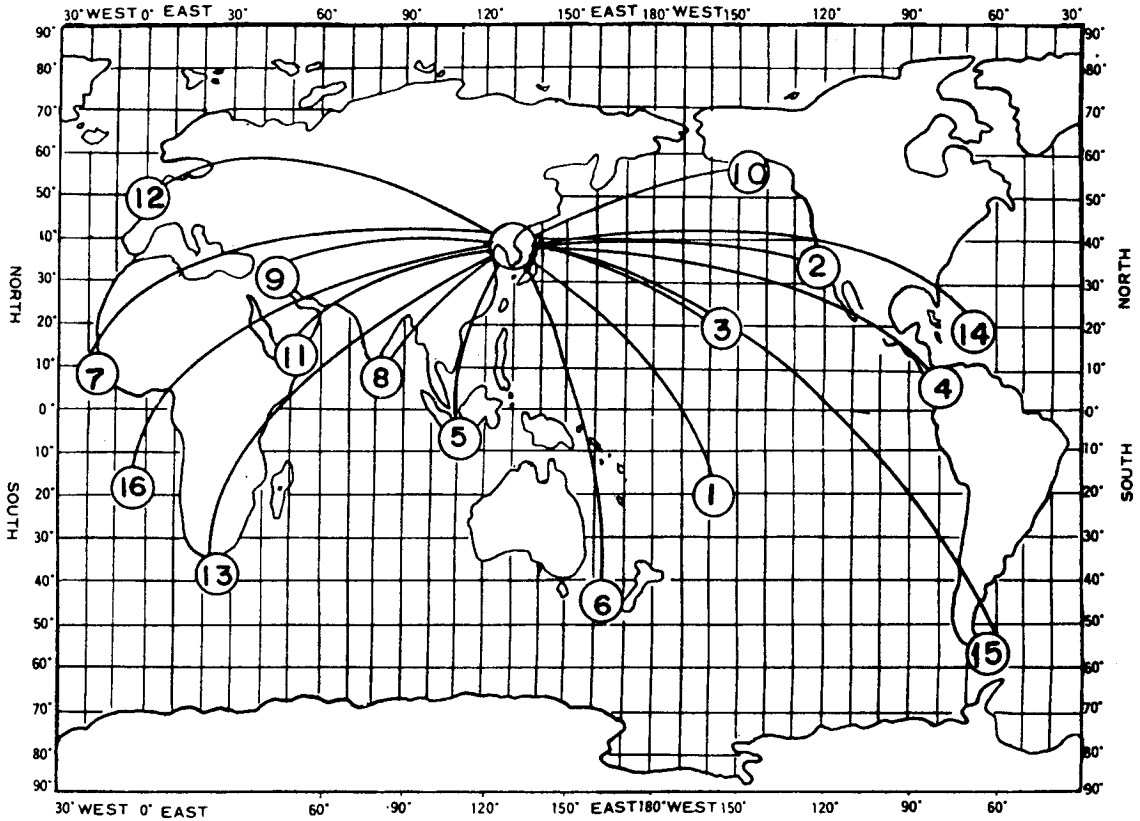
전	파	형	식	A ₁			
송	신	출	력	1kW			
육	상	공	중	선	이	득	10dB(롬 빅 기 준)
선	박	공	중	선	이	득	0dB(다 블 랫 트 기 준)

표 2. LUF 산출조건

선박통신예보표의 선단에 있는 ·표는 MUF가 예보대상 주파수보다 낮게 되므로 그 시간에는 통신가능 시간이 중단되는 것을 의미한다.

LUF가 예보 대상 주파수 보다 높게 됨에 따라 일어나는 중단 시간은 특별한 기호를 붙이지 않는다.

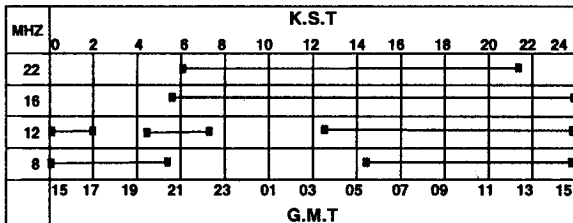
5. 선박통신예보 대상지역도



6. 선박통신 예보표

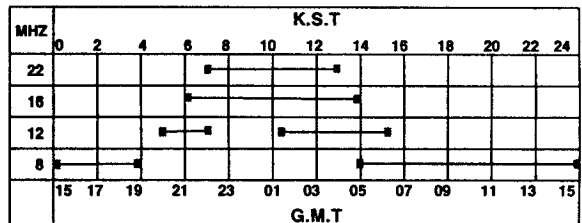
1. Samoa Islands

6930km



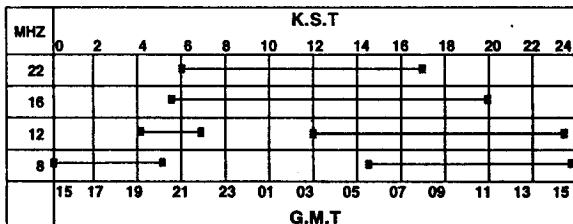
2. San francisco

9039km



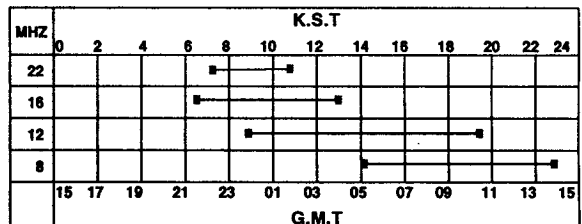
3. Hawaii Islands

7325km



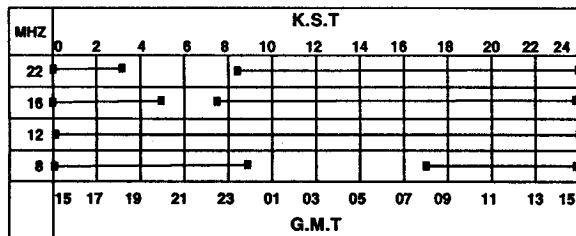
4. Panama

14160km



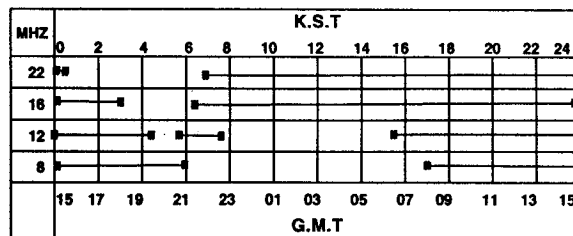
5. Jakarta

5407km



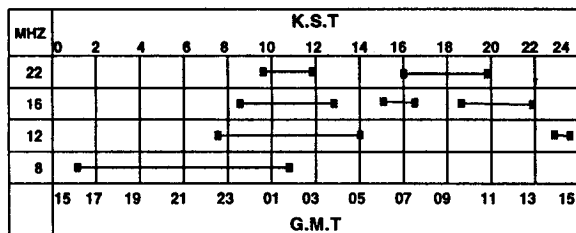
6. Tasman Sea

9255km



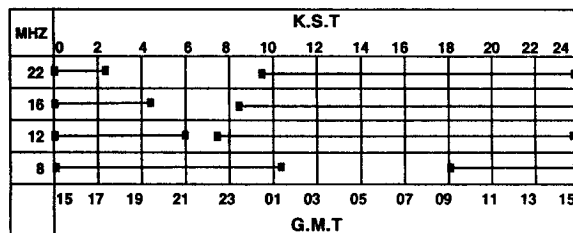
7. Monrovia

13466km



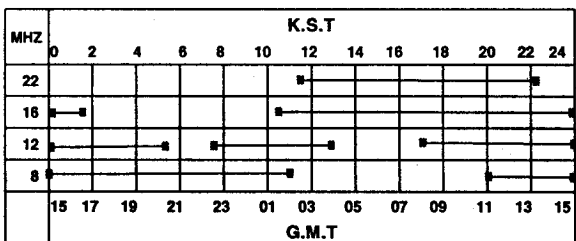
8. Colombo

5825km



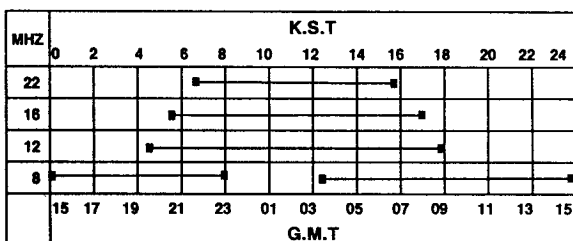
9. Persian Gulf

7072km



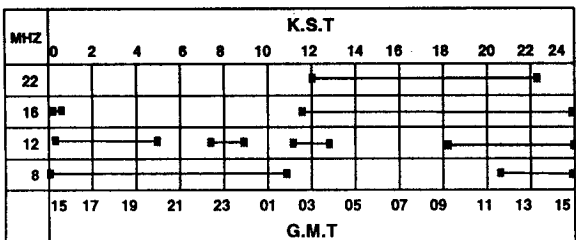
10. Aleutian Islands

5399km



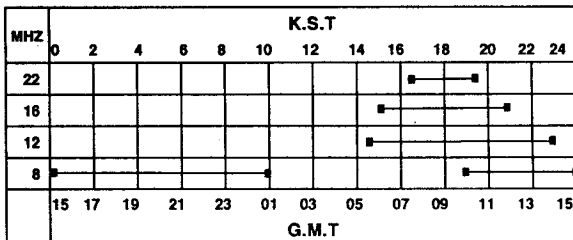
11. Gulf of Aden

8490km



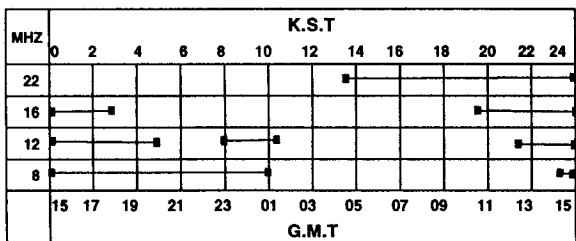
12. Dover

8852km



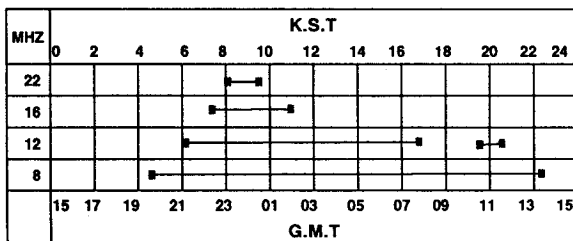
13. Cape Town

13744km



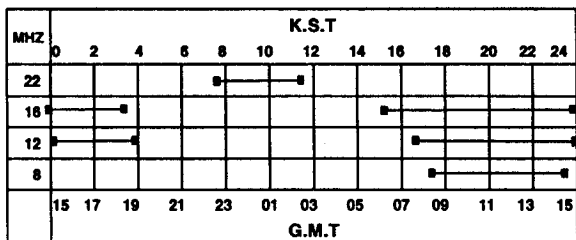
14. West Indias

13501km



15. Majellan

17871km



16. Helena Islands

14696km

