

### Jupiter

17H	min	7d	sight error	time error
54.6	54m 35s	54.1	-2.2	4m 29s
55.35	55m 21s	54.2	-2.3	4m 46s
55.95	55m 58s	54.4	-2.5	5m 8s
56.6	56m 38s	54.7	-2.2	4m 34s
57.6	57m 38s	54.9	-2.3	4m 47s
<b>56.02</b>		<b>54.46</b>	<b>-2.2</b>	<b>4m 35s</b>

### Venus

17H		6d		
51.15	51m 9 s	53	-2	4m 26s
51.8	51m 47s	53	-2.2	4m 49s
52.45	52m 27s	53.4	-2	4m 25s
53.15	53m 10s	53.6	-2	4m 27s
53.8	53m 50s	53.7	-2.1	4m 39s
<b>52.47</b>		<b>53.34</b>	<b>-2.1</b>	<b>4m 38s</b>

### Short Lunar at Chinhae

L 35d 6.4'N  
l 128d 41.3E

Near Limb

IE 1.9' on

ZD -9

08Z

12/2/2008



# Clearing the Lunar Distance us

This spreadsheet is designed to assist amateurs in learning  
 The author is neither a professional navigator nor a professi  
 The spreadsheet refers to the article "Lunar Distances Expla  
 Enjoy your lunars, explore the calculations in the cells of this

Chinhae, ROK Lunar average of 5 sights  
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## Basic Information

<b>Date:</b>	12/2/2008		
<b>Latitude</b>	Degrees	Minutes	N or S
	35	6.4	N
<b>Longitude</b>	Degrees	Minutes	E or W
	128	41.3	E
<b>Index Correction</b>		Minutes	
		-1.9	

## Almanac Data

<b>Comparing Body</b>	Venus		
<b>GHA Hour Before</b>	Degrees	Minutes	
	255	51.5	
<b>GHA Hour After</b>	Degrees	Minutes	
	270	50.9	
<b>Declination Hour Before</b>	Degrees	Minutes	N or S
	23	46.2	S
<b>Declination Hour After</b>	Degrees	Minutes	N or S
	23	45.7	S
<b>SHA if body is a star</b>	Degrees	Minutes	
	0	0	
<b>Semi diameter if body is sun</b>		Minutes	
		0	

<b>Body:</b>	Moon		
<b>GHA Hour Before</b>	Degrees	Minutes	
	248	30.5	
<b>GHA Hour After</b>	Degrees	Minutes	
	263	2.5	
<b>Declination Hour Before</b>	Degrees	Minutes	
	20	54.9	S
<b>Declination Hour After</b>	Degrees	Minutes	
	20	45.9	S
<b>Horizontal Parallax Moon</b>		Minutes	
		54.3	

## The Lunar Distance

<b>GMT per watch</b>	Hours	Minutes	Seconds
	8	52	28
<b>Ds</b>	Degrees	Minutes	Moon's limb
	6	53.3	Near

## Results

<b>GMT per Lunar Distance</b>	Hours	Minutes	Seconds
	8	47	50
<b>Your lunar appears to be:</b>		Minutes	Seconds
	Slow	4	38
<b>Error in observation:</b>		Minutes	
		-2.1	

# Basic Information

Date:	12/2/2008		
	Degrees	Minutes	N or S
Latitude	35	6.4	N
	Degrees	Minutes	E or W
Longitude	128	41.3	E
		Minutes	
Index Correction		-1.9	

# Almanac Data

Comparing Body	Jupiter		
	Degrees	Minutes	
GHA Hour Before	257	14.1	
	Degrees	Minutes	
GHA Hour After	272	16	
	Degrees	Minutes	N or S
Declination Hour Before	21	56.7	S
	Degrees	Minutes	N or S
Declination Hour After	21	56.6	S
	Degrees	Minutes	
SHA if body is a star	0	0	
		Minutes	
Semi diameter if body is sun		0	

Body:	Moon		
	Degrees	Minutes	
GHA Hour Before	248	30.5	
	Degrees	Minutes	
GHA Hour After	263	2.5	
	Degrees	Minutes	
Declination Hour Before	20	54.9	S
	Degrees	Minutes	
Declination Hour After	20	45.9	S
		Minutes	
Horizontal Parallax Moon		54.3	

# The Lunar Distance

	Hours	Minutes	Seconds
GMT per watch	8	56	1
	Degrees	Minutes	Moon's limb
Ds	7	54.5	Near

# Results

	Hours	Minutes	Seconds
GMT per Lunar Distance	8	51	26
		Minutes	Seconds
Your lunar appears to be:	Slow	4	35
		Minutes	
Error in observation:		-2.2	