# HE HAS DESCRIBED A CIRCLE ON THE FACE OF THE WATERS, AT THE BOUNDARY BETWEEN LIGHT AND DARKNESS.

for guitar and percussion

Robert Blatt

HE HAS DESCRIBED A CIRCLE ON THE FACE OF THE WATERS, AT THE BOUNDARY BETWEEN LIGHT AND DARKNESS. guitar and percussion

written for Travis Andrews and Andy Meyerson

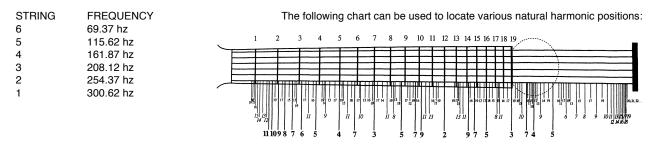
#### **SCORE**

For the guitarist, each row corresponds to a string. For the percussionist, each row corresponds to a sheet of sandpaper. Each column corresponds to one beat. For the guitarist, numbers correspond to natural harmonics. For the percussionists, numbers correspond to metal pipes. Dashed lines indicate that a sound is continued.

#### **GUITAR**

All notes ring for as long as possible. When performed on electric guitar, some reverb can be used.

The guitar is in a spectral tuning based on an F#0 (23.1247 hz) fundamental. Strings six through one are tuned to the third, fifth, seventh, ninth, eleventh and thirteenth harmonics respectively.



Josel, Seth F., and Ming Tsao. The Techniques of Guitar Playing. Kassel: Bärenreiter, 2014.

## **PERCUSSION**

The percussionist performs at a table with five metal pipes and three sheets of sandpaper affixed to the table. All sounds occur by rubbing the end of a metal pipe perpendicularly against a sheet of sandpaper with very light pressure in a circular motion. The resultant sound is a composite of harmonics, intermittent presence of the fundamental and friction-derived noise colored by the choice of sandpaper.

The three sheets of sandpaper are of a relative course, medium and fine grit size.

The metal pipes are cut to harmonics based on an F#0 (23.1247 hz) fundamental. Metal pipes listed one through five are cut to the lengths of the fifteenth, seventeenth, nineteenth, twenty-first and twenty-third harmonics respectively.

PIPE	FREQUENCY	The following formula can be used to calculate pipe length for various fundamental frequencies:
1	346.87 hz	L = v/2f6d
2	393.12 hz	L = pipe length in centimeters
3	439.37 hz	v = velocity at 34400 centimeters per second
4	485.62 hz	f = fundamental frequency in hertz
5	531.87 hz	d = pipe diameter in centimeters

### **PERFORMANCE**

Tempo is not (too) fast. Dynamics remain constant at a balanced and soft to moderate volume.

## HE HAS DESCRIBED A CIRCLE ON THE FACE OF THE WATERS, AT THE BOUNDARY BETWEEN LIGHT AND DARKNESS.

guitar and percussion

Robert Blatt

		1				2				2					2						3
		②		2	2		-		2	2			2	2					2	2	_
	Guita	ar ④		2	-			2				2						2	۷		-
		\$	2				2					2					2				
		6	2			2	2				2					2					_
		Fine																			$\neg$
	Percussion	n Medium																			1
		Course	1 -	-   -	-	-   -	-	-	-   -	-   -	-	-   -	-	-	-	-	-	-	-	-   -	
																					_
	3	4			<u> </u>	4				5				1	6						6
3		3	++	3	4				4	4			4	5					5	5	_
2		3		3	+			3	7	-		3						4	J		$\dashv$
2	2		2				3					3					3				
2	2		2			2	2				2					2					_
			1 1		1	<u> </u>									1	1	1 1			П	$\neg$
							-		+	-		-	+								-
			-   -		-		-	-		-   -	-		-	-	-	-	-	-	-	-	-
	7	7				8				8					8						8
6		7	1		7					7			-	8					7	8	4
4		4	++	5	)			5	6				7					6	7		_
3	3	7	4				4	3				4	+				4	0			┪
2	2		3			3					3					3					
			1 1					1							1	1	1 1		1		_
		2 -			+-		+-	-		-   -	-		+-	-	-	-	-	-	-		_
				-   -			_	-		-   -	-		-	-	-	-	-	-	-		-
			1 1			7				6				<u> </u>	6		lĪ				5
	8	7	+ +		_																
8	8	8		9	8					8		-	ρ	7					В	7	$\dashv$
7		8 8		7				7	8	В		1	8					8	8	7	
		8	5	7			5	7		8		6					6	8	8	7	
6		8 8				3		7		8	3					4	6	8	8	7	
6 4	5	8 8	5			3		7		8	3					4	6	8	8	7	
6 4	5 3	8 8 6	5 3	7	3	3	3	7	8		3		7			4	6	8	8		
6 4 3	5 3	8 8 6	5		3		3		8			6	7								

					4						4						3						3						2						2
				6						6						5						5						4						4	
			8						8						7						7						7						6		
		8						8						8						8						8						8			
	6						6						6						7						7						7				
4						4						4						4						4						5					
-	-	•		-			•	•		-				•	•	•						•	ı		•		-			•	•		-	•	-
								3	-			-	-	•	•	•	-	-	-		-	-	•		-	-		-	-	-		-	-	-	-

					2						2						2						3						3						4
				3	۷					3						2						2	Ŭ					2						2	
			6						5						5						5						4						4		
		8						8						8						7						7						7			
	7						7						8						8						8						8				
5						5						5						5						5						5					
-	-	-	-	-	-	-																													
-	-	-	-	-	-	-	-	-	•	-	-		-	-	•	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-

					5						5						6						7						7						8
				2						2						3						3						3						4	
			3						3						3						2						2						2		
		7						6						6						6						5						5			
	8						8						8						8						8						8				
6						6						6						6						6						6					
						1	·	-	-	•	•	-	-		·	٠	•	•	•	-				-	-	-	-	-		•	•	•	-	•	-
-	-	-	-	•	-	•	•	-	-	•	-	-	-	-	-	•	•	-	•	-	-	-	-	-	-	-	-	-	-	-	•	•	-	•	-

					8						8						8						8						8						7
				4						5						6						6						7						7	
			2						2						2						2						3						3		
		4						4						4						3						3						3			
	8						8						8						7						7						7				
6						7						7						7						7						7					
-	-	-	-	-		-	-	-		-	-	-	-	-	-	-	-		-			-	-					-		-		-	-		
-	-	-	-	-																															

					7						6						5						5						4						3
				7						8						8						8						8						8	
			3						4						4						5						5						5		
		3						2						2						2						2						2			
	7						7						6						6						6						6				
7						7						7						8						8						8					
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				5		•	ı	•	•	•	1	•	ı	•	•	•		-	•		•	•	ı	•		•		•	•	·	•		-	-	•

					3						2						2						2						2						2
				8						7						7						6						6						5	
			6						6						7						7						7						8		
		2						2						2						2						2						3			
	6						5						5						5						4						4				
8						8						8						8						8						8					
-	-	-																																	
-	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-			-	-	-	-	-	-		-	-	-	-

					3						3						3						4						5						5
				5						4						4						3						3						2	
			8						8						8						8						8						8		
		3						თ						4						4						4						5			
	4						4						3						3						3						3				
8						8						8						8						8						8					
		2	•	•	•	-	•	٠	•	•	-		-	-		-	•	-	-	-		•	•	•	-	-	•	-		•		-	-	-	-
-	-	•	•	•	•	-	•	٠	•	•	-		-	-		-	•	-	-	-		•	•	•	-	-	•	-		•		-	-	-	-

					6						7						7						8						8						8
				2						2						2						2						2				$\Box$		3	
			7						7						7						6						6						5		
		5						5						6						6						6						7			
	3						3						2						2						2						2	$\Box$			
8						8						8						8						8						8		$\Box$			
•		•	ı	•	1	•	-	•	•	•			•	•	•	•		•	•				ı		•		-	•	-	•	٠	-	-	-	•
-																																			
																													г ,						

					8						8						7						7						6						6
				3						4						4						5						5						6	
			5						5						4						4						3						3		
		7						7						7						8						8						8			
	2						2						2						2						2						2				
8						8						7						7						7						7					
-	-	•	•	•	-	•	•	•	•	•	-	-	•	•	-	-	-	-	•	-	-	•	•	•	•	-	-	-	-	•	-	-	-	·	
4	-	-	•		-	-		-	•	-				-								-	-							-	-	-	-	-	-

					5						4						4						3						3						2
				6						7						7						8						8						8	
			3						2						2						2						2						2		
		8						8						8						8						8						8			
	2						2						2						3						3						3				
7						7						7						7						6						6					
																																		3	-
-	-	-	-	-	-	-	-	-	•	•	-	•				-											-					-			-

					2						2						2						2						3						3
				8						8						8						7						7						7	
			2						2						3						3						3						4		
		7						7						7						7						6						6			
	3						3						4						4						4						4				
6						6						6						6						6						5					
-	-	•		-	•	٠	-	-	-	•	•	-	•		•	-	•		-	-			•	•	-	-	-	-			-	-	•	-	-
-	-	-	-	-	-	•	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-	-	-	-	-	-			

					4						4						5						6						6						7
				6						6						5						4						4						3	
			4						5						5						5						6						6		
		6						5						5						5						4						4			
	4						5						5						5						6						6				
5						5						5						5						5						5					
																																	4	-	-
						-	-					-		-	-			-			-						-	-				-	-	-	-

					7						8						8						8						8						8
				3						3						2						2						2						2	
			7						7						7						8						8						8		
		4						3						თ						3						3						2			
	6						6						7						7						7						7				
4						4						4						4						4						4					
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
																																		ı	

					7						7						6						6						5				1		4
				2						2						3						3						4						4	
			8						8						8						8						7						7		
		2						2						2						2						2						2			
	7						7						8						8						8						8				
4						3						3						3						3						3					
-	-	-	-		-	-	-	-	-	-		-		-		-	-	-	-	-	-	-			-	-			-	-		-	-	-	-
																															2	•	-	•	-

					4						3						3						2						2						2
				5						5						6						6						7						7	
			7						6						6						5						5						5		
		2						2						3						3						3						3			
	8						8						8						8						8						8				
3						3						3						2						2						2					
-		-		-	·	٠	·	•	•	-	•	-	-	-		-	•	-	-	-				-	-	-	-	-							
-	-	-	-	-	-	•	•	•	•	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	•	-

					2						2						3						3						4						5
				8						8						8						8						8						8	
			4						4						თ						3						3						2		
		4						4						4						5						5						5			
	8						8						8						7						7						7				
2						2						2						2						2						2					
																													1	-	-	-	-	-	-

					5						6						7						7						7						8
				7						7						7						6						5						5	
			2						2						2						2						2						2		
		6						6						7						7						7						7			
	7						7						6						6						6						6				
2						2						2						2						2						2					
-	-	•	ı	•	1	•	ı	-	•	•			•	•					•			•	ı	•	•						•		•	-	-
-	-	-	•		•	-		-	•	-			-	-								-	-		-										

					8						8						8						8						7						7
				4						4						3						3						2						2	
			3						3						3						4						4						5		
		8						8						8						8						8						8			
	6						5						5						5						4						4				
2						2						2						2						2						2					
-	-		-	-			-					-			-					-							-	-	-			-	-	-	-
																											5	-	-	-		-	-	-	-

					6						5						5						4						3						3
				2						2						2						2						3						3	
			5						5						6						6						7						7		
		8						8						8						8						7						7			
	4						4						4						3						3						3				
2						2						3						3						3						3					
-	-	-	·	١	•	•	·	-	-	٠	•		-	-		-	•	•	•	-	-		•		-										
-	•	•	•	·	•	-	•	•	•	•	-		-	-	-	-	-	-	-	-	-			-	-			-	-		-		-		-

					2						2						2						2						2						2
				3						4						4						5						6						6	
			7						8						8						8						8						8		
		7						7						6						6						6						5			
	3						ფ						2						2						2						2				
3						3						3						З						4						4					
																									3	•	•	•			-		ı	-	-
-			1	ı	-	-	•	1	•	•	•		•	-	-	1	•	-		-	-	-	1	ı	ı	-	ı	1	-	-		-	•	•	-

					3						3						4						5						5						6
				7						7						7						8						8						8	
			8						8						7						7						7						6		
		5						4						4						4						3						3			ı
	2						2						2						2						2						2				
4						4						4						4						4						5					ı
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-		-	-		•	-		-	•	-			-	-	-	-		-				-	•												l

					7						7						8						8						8						8
				8						8						8						7						7						6	
			6						5						5						5						4						4		
		3						3						2						2						2						2			
	2						2						2						3						3						3				
5						5						5						5						5						5					
-	-	-	•				-			-	-			•						-		•		-			•	•	•		-	-	-	-	-
																							4	-			•	•	•		-	-	-	-	-

					8						7						7						6						6						5
				6						5						5						4						4						3	
			3						3						3						2						2						2		
		2						2						2						2						2						2			
	3						3						4						4						4						4				
6						6						6						6						6						6					
-	•	•	•	•	•	٠	-	-	-	-	•	-	•	-		-	•		-	-															
-	•	•	•	•	•	•	•	•	•	•	-	-	•	-	-	-	•	•	-		-	•	•	•	-	-	-	-	•	•	-	-			-

					4						4						3						3						2						2
				3						2						2						2						2						2	
			2						2						2						2						3						3		
		3						3						3						4						4						4			
	4						5						5						5						6						6				
6						7						7						7						7						7					
																					5	-	-	-	-	-	-	-	-	-	-	-	-	-	
		-	-		-		-		-			-									-		-				-		-	-	-	-	-	-	-

					2						2						2						3						3						4
				2						3						3						3						4						5	
			3						4						4						5						5						5		
		5						5						5						6						6						6			
	6						6						7						7						7						7				
7						7						7						8						8						8					ı
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	•	-	-	•	•	•	-	•	-	-	-	•	•	•	•	•	•	-																
																																			l

					4						5						6						6						7						7
				5						6						6						7						7						8	
			6						6						7						7						7						8		
		7						7						7						7						8						8			
	7						7						8						8						8						8				
8						8						8						8						8						8					
-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-

					8						8						8
				8						8						8	
			8						8						8		
		8						8						8			
	8						8						8				
8						8						8					
-	•		•	١	ı	1	ı	1	•	١	١	1	ı	1	•	·	١