# PRE-Ethnic Folkways FE 4177 Aerophone OLUMBIAN INSTRUMENTS

Produced by Lilian Mendelssohn

with Pablo Castellanos Played by Jorje Daher



## Ethnic Folkways FE 4177

#### SIDE 1

Bands: 1,2 Air Drum; 3 Mirliton; 4,5 Transverse; 6 Mir. & Trans.; 7,8,9,10,11,12,13 Peak Whistle; 14 Large whistle; 15 Water whistle; 16,17, 18, 19, 20, 21 Whistle; 22 Great whistle; 23,24,25, 26,27 Double whistle; 28 Triple whistle; 29 Triple channel whistle; 30 Double whistle

#### SIDE 2

Bands: 1,2,3 Ocarine; 4,5 Peak; 6 Transverse; 7,8 Peak; 9 Four Orifices; 10,11 Free Intonation 12,13,14,15 Peak; 16 Small, Pentaphonic Scale; 17,18,19 Pentaphonic Scale 20,21,22,23 Double Ocarine

#### SIDE 3

Bands 1,2 Flute, pentaphonic scale; 3 3 orifices; 4 eolian sound; 5 double orifices; 6 5 orifices; 7,8 pentaphonical scale; 9 heptaphonic scale; 10, 11 one orifice; 12 with piston; 13 of bone; 14 octaphonical scale; 15,16 chromatic scale; 17,18 compression; 19 free intonation; 20 pentaphonic; 21 tetraphonic.

#### SIDE 4

Bands: 1,2,3,4 Double Flute; 5,6,7 Triple Flute; 8,9 Trumpet, clay; 10 Trumpet, vessel 11 Sea-Shell, 12, 13, 14 Shell, clay; 15 Sea-Shell

DESCRIPTIVE NOTES ARE INSIDE POCKET

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# PRE-COLUMBIAN NSTRUMENTS

Produced by Lilian Mendelssohn

COVER DESIGN BY RONALD CLYNE

Ethnic Folkways FE 4177

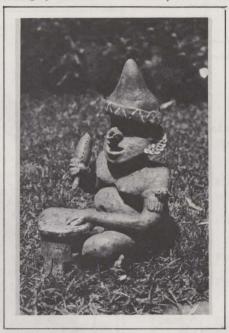


Figure from Nayart: Man playing th Huehueti and the Rattle

# Pre-Columbian Instruments

### notes

Scientific research into the use of musical instruments in Pre-Columbian Mexico is only 30 years old. "Pre-Columbian" referred, originally, to artifacts made by the Indians of the Western Hemisphere prior to the discovery of America by Columbus i.e., pre-Columbus. Now the word refers to such artifacts made before the time that Western culture influenced Indian culture in any specific areas. Thus, Mexico, Pre-Columbian refers to anytime prior to 1521, the approximate year when Cortez conquered the Aztecs.

It is now known that Pre-Columbian musical instruments included percussion instruments (e.g. idiophones, such as flutes). All such discoveries about Pre-Columbian instruments must be made solely on a basis of the instruments themselves. No written record of Pre-Columbian instruments or music exists. Thus, except for information that can be gleaned from the wide variety of the instruments found and from the sounds we can now make on these old instruments, no one can know the content of Pre-Columbian music. Solely on the basis of those two methods of discovery, however, it is almost certain that Pre-Columbian music was very complex and diversified. It is quite possible that it was very sophisticated, both as to harmonics and meter. It is now believed that Pre-Columbian music in Mexico was not only pentationic but, especially during the classic era (approximately 400-1000 A.D.), the scales used were chromatic.

With respect to Pre-Columbian flutes (to illustrate the variety of instruments found) straight, single bore flutes have been found with up to seven stops in them. Multiple bore flutes are found commonly with one mouth piece (mouth organs). One of the most sophisticated types of flutes found contains a ceramic ball in the bore which changes the tone depending on how far along the bore the ball remains. By changing the level of the flute during playing, the ball moves along the bore and thereby changes the length of the air column within the bore. The player can thereby achieve micro-tones much as in the case of the modern trombone.

The timbres produced by the Pre-Columbian flutes are also varied. For example, simple flutes from the Gulf region tend to have a pasty sound (like a clarient whereas myan flutes tend to have a nasal quality (like an oboe).

This diversity which existed in the case of flutes existed also in the cases of whistle jars, trumpets of clay, sea shell instruments, gongs, drums, rasps, rattles etc., etc.

Mention should also be made of the fact that Pre-Columbian musical instruments often were elaborately decorated and unquestionably were prized in many cases as objects of beauty in themselves without reference to their quality as instruments.

Please refer to labeled photographs depicting aerophones.

Notes by Lilian Mendelssohn, with Pablo Castellanos and Miles Lourie

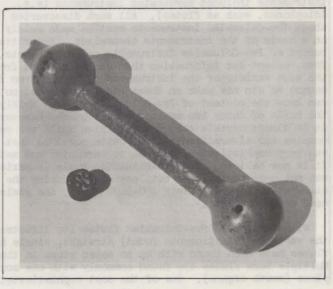
Instruments played by Jorje Daher

Pre-Colombian Instruments of Mexico: (Aerophones)
Whistles, (simple)

	Whistles, (simple)	
Part 1		Side 1
		Time
Band 1.	Air Drum, pre-classic (Colima)	.30
Band 2.	Air Drum, (Gulf culture)	.30
Band 3.	Mirliton, (Aztec)	.30
Band 4.	Transverse, (Olmecan culture) two orifices	.30
Band 5.	With grain and oral centralizatio two orifices	n,.30
Band 6.	Mirliton, transverse, (Zapotecean	) .30
Band 7.	Peak, no orifices, one sound (Gulf culture)	.30
Band 8.	Peak, two orifices, three sounds, (Nayarit)	.30
Band 9.	Peak, two orifices, four sounds, (Maya)	.30
Band 10.	Peak, no orifices, two sounds double chamber, (Olmeca)	.30
Band 11.	Peak, no orifices, large airduct, one sound (Gulf)	.30
Band 12.	Peak, one orifice, large airduct, two sounds (Gulf)	.30
Band 13.	Peak, Mirliton, (Aztec)	.30
Band 14.	Large whistle, "voice of Owl" (Zapotecean)	.30
Band 15.	Water whistle, "voice of a bird" (Zapotecean)	.30
Band 16.	Whistle, to call a young deer, (Gulf culture)	.30
Band 17.	Whistle of compression, "sound of the wind" (Gulf culture)	.30
Band 18.	Whistle of compression, "sound of storm" (Gulf culture)	.50
Band 19.	Whistle with built-in chickpea, "sound of flying bird"	.30

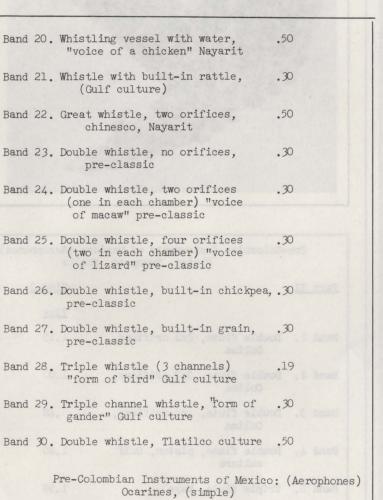
Triple flute from the Gulf, classical period





Flute closed, Quena type, three openings and two chambers from Cholula/Puebla Collection, F. Field.

Whistle, double chamber, from the Gulf classical period.



Pre-Colombian Instruments of Mexico: (Aerophones) Ocarines, (simple)

Part 1		Side
		Time
	ine, transverse, three ices, tetraphonic scale, Maya	1.15
orifi	ine, transverse, three ices, hexaphonic scale, lf (deep sound)	1.15
orifi	ine, transverse, three ices, hexaphonic scale, lf culture (medium sound)	1.15
phoni	, three orifices, tetra- ic scale, medium sound, Michoacan	1.05

(Gulf culture)

pre-classic

pre-classic

pre-classic

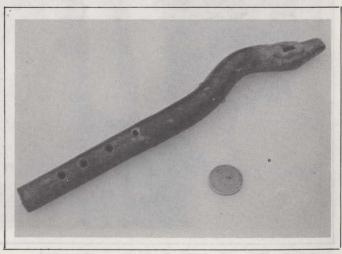
chinesco, Nayarit

of macaw" pre-classic

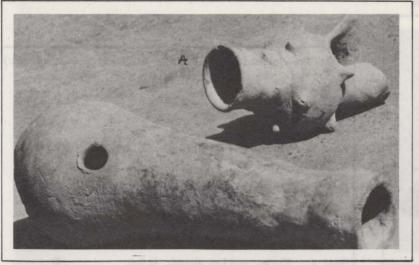
of lizard" pre-classic

gander" Gulf culture



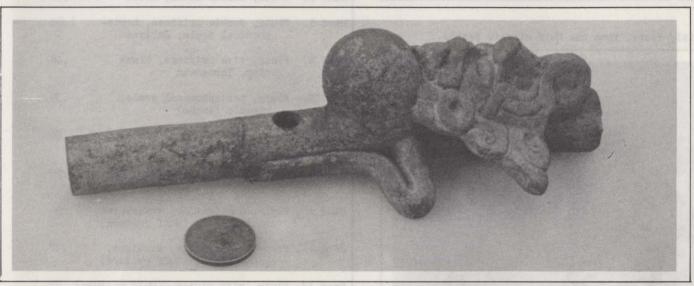


Flute, snakelike, from Colima, classical period.



Tune-Drums; a) open, Veracruz b) Closed, Colima, with orifices working, Classical period

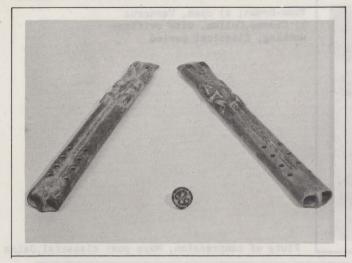
Flute of compression, Maya post classcial, Jaina.



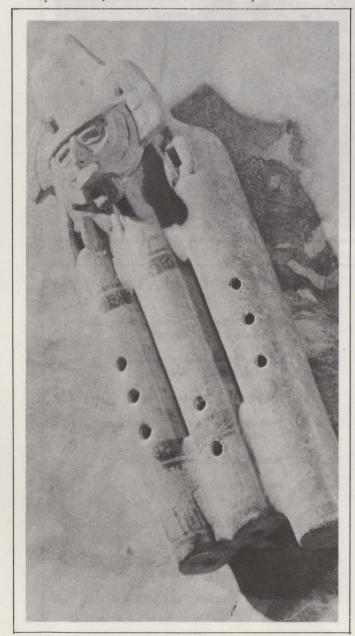
Band 5. Peak, three orifices, tetra- 1.08 phonic scale, shrill sound, Michoacan	
Band 6. Transverse, four orifices, pentaphonic scale, pre-classic	
Band 7. Peak, two orifices, built on 1.30 wheels, five sounds, (Gulf culture)	
Band 8. Peak, six orifices, turtle form .50 heptaphonic scale Michoacan	
Band 9. Four orifices, crossed fingering, .48 (Huastecean culture)	
Band 10. Free intonation in the manual .50 control, (Gulf culture)	
Band 11. Free intonation in the oral control, (Gulf culture)	1
Band 12. Peak, three orifices, double chamber, (Olmecean)	
Band 13. Peak, four orifices, pentaphonic .40 scale, (Micheacan)	

4			
-	Band 14.	Peak, four orifices, pentaphonic scale, (Colima)	.41
	Band 15.	Peak, three orifices, pentaphonic scale, (Micheacan)	.33
	Band 16.	Small, pentaphonic scale, (Chupicuare culture)	.30
	Band 17.	Pentaphonic scale, (Maya)	.40
	Band 18.	Pentaphonic scale, (Chupicuare, Micheacan)	.52
	Band 19.	Pentaphonic scale, (Micheacan)	.38
	Band 20.	Double Ocarine, 2xl orifice (Gulf culture)	.30
	Band 21.	Double Ocarine, 2x2 orifice (Chupicuare, Micheacan)	.32
	Band 22.	Double Ocarine, 2x3 orifice (Pre-classic)	.36
	Band 23.	Double Ocarine, 2x3 orifice (Olmeca)	.42

Double flutes from Colima, late classical period

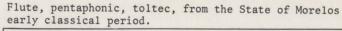


Triple flute, from the Gulf classic period.

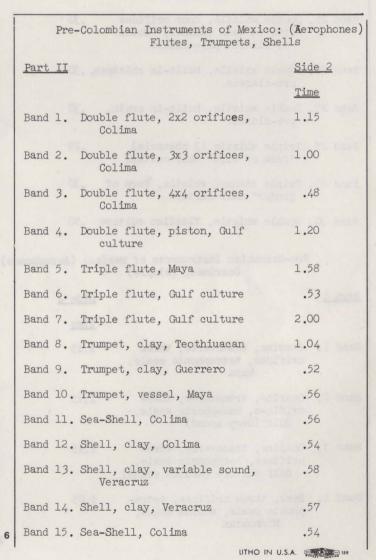


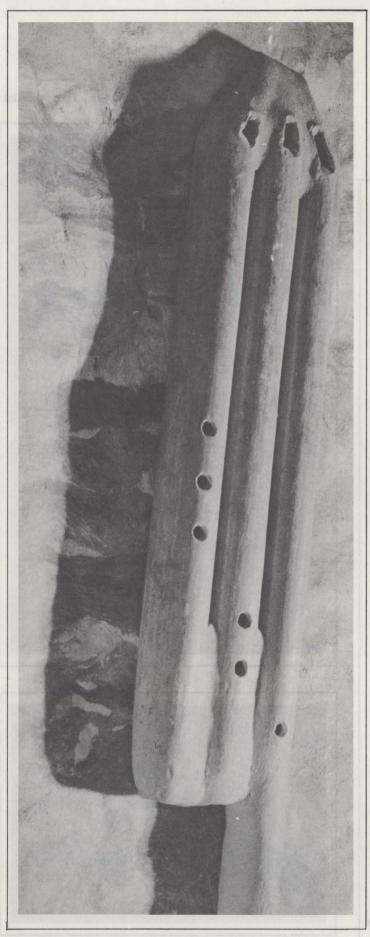
#### Pre-Colombian Instruments of Mexico: (Aerophones) Flutes (Simple)

Part	II		Side I
			<u>Time</u>
Band	1.	Flute, pentaphonic scale with harmonics (Colima)	.50
Band	2.	Flute, pentaphonic scale narrow outlet, Teothiuacan	.43
Band	3.	Flute, three orifices, material, Jade, type: Quena, Olmeca	•44
Band	4.	Flute, eolian sound, Aztec	.30
Band	5.	Flute, double orifices, hepta- phonical scale, Jalisco	1.04
Band	6.	Flute, five orifices, black clay, Tarascean	.48
Band	7.	Flute, pentaphonical scale, Mixquic (Aztec)	.39
Band	8.	Flute, pentaphonical scale, Mirliton (Aztec)	.46
Band	9.	Flute, heptaphonic scale, no harmonics, (Gulf culture)	.59
Band	10.	Flute, one orifice, transverse, pentaphonic, (Gulf culture)	.36
Band	11.	Flute, one orifice, straight, pentaphonic, (Gulf culture)	.37
Band	12.	Flute, with piston, (Gulf culture)	.27
Band	13.	Flute of bone, pentaphonic, lingual mouthpiece, Jaina	.34
Band	14.	Flute, octaphonical scale, Jaina	1.07
Band	15.	Flute, chromatic scale, Jaina	1.00
Band	16.	Flute, chromatic scale, Tolteca	.47
Band	17.	Flute, compression, Maya	.33
Band	18.	Flute, compression, shrill sound, Maya	.22
Band	19.	Flute, free intonation, hand movement, Nayarit	.45
Band	20.	Flute, pentaphonic scale, no harmonics, harsh, Colima	.29
Band	21.	Flute, tetraphonic, small, Nayarit	.36









Triple flute, from the Gulf classical period