LA PALMA REPRESO AZULITOS BISBEE LA MESA REPRESO ALTAR CINTURA ESCALANTE PICACHOS EL CHANATE CHINO ANTUNEZ CAMASMESA QUEMADA CERRO SAN LUIS TULITO DURAN LOS TANQUES LOS TUBOS NOGAL COCOSPERA MORITALA BEBELAMA LISTA BLANCA EL AMOL MURAL ARROYO SASABE BACUCHI CHUPURRATE ARIVECHI ANITA TUAPE AGUILA CEJA SAHUARO EL MACHO CALOSO POZO DURO EL CUMARO CERRO DE ORO CABULLONA PACKARD PICACHOS



- Gran cantidad de nombres
- Sinonimia
- Homonimia
- Procedimientos y formas inadecuadas para: asignación y abandono de nombres, cambios en contenido, rango, etc.

EL USD DE **NDMECLATURA ERRDNEA**

CORRELACIONES

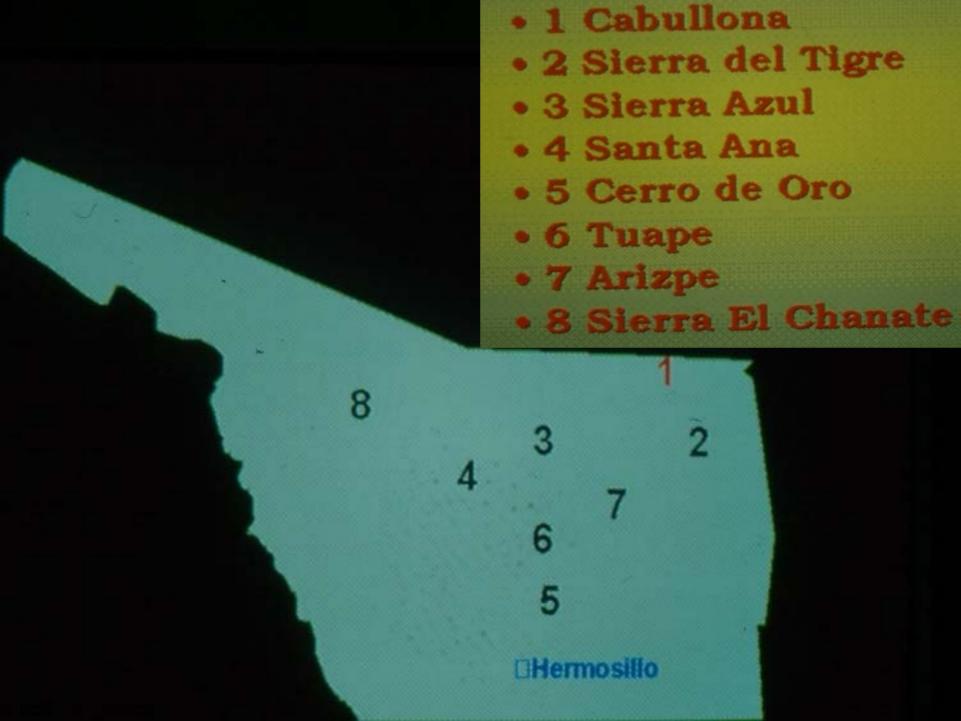
ANALISIS DE FACIES

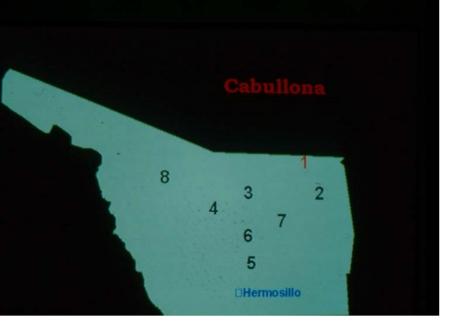
- ANALISIS DE CUENCAS

- RECONSTRUCCIONES
PALEOGEOGRAFICAS

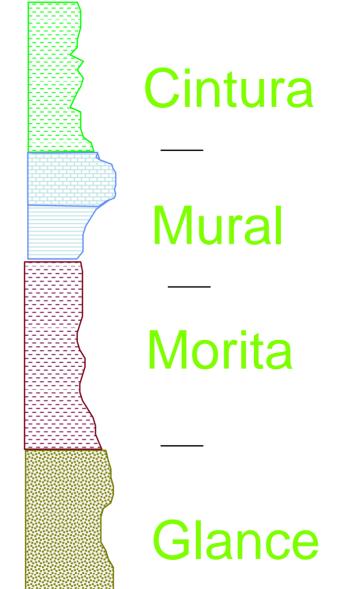
- REDEFINICION
- REVISION
- -ABANDONO

DE UNIDADES ESTRATIGRAFICAS





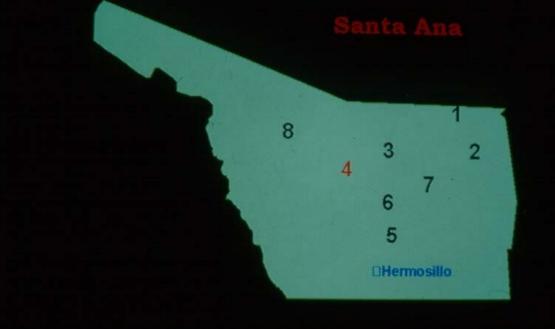
Bisbee Group





Sierra El Tigre





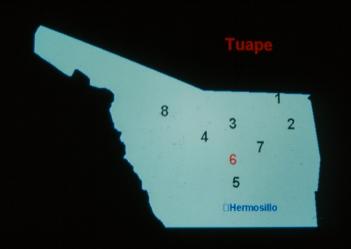
Santa Ana





Cerro de Oro

Ca	astro & Morfin (1988)	Gonz	ález & Jacques (1988)	(1995) This work			
С	Los Valles		La Palma Formation	La Palma Formation			
r r G	formation	B _G	Cintura Formation	Bg	Cintura Formation		
or oup	Antunes limestone	s o b u	Mural Formation	ir so	Mural Formation		
	La Palma	e p	Morita Formation	bu ep	Morita Formation		
	formation		erro de Oro Formation	=	Cerro de Oro Formation		



Tuape

Rodríguez (1984,1988, 1991)	This work					
Los Tanques formation	BG	Mural Formation				
Tuape formation	s o b u	Morita Formation Cerro de Oro Formation				
Bacuchi formation	e P					

Arizpe 8 3 2 4 7 6 5 Hermosillo

Arizpe





Jacques (1983)			Jacques (1986)		Jacques & others (1987,1988)		Jacques (1989)			Jacques (1993)			This work	
El Charro formation	U		El Charro formation	L	El Charro formation	L	EI V	Cha lea mp	rre U nic lex L	VO CO	Complex U		El Charro Formation	
				7 6		7	Ľ	81	calan- o Fm.				EF	Escalante Member
El Chanate Formation	U	EL CHA	El Chanate Formation	5 4 3 2	El Chanate Formation	5 4 9 2	CHANA		Anita Fm.	El Chanato Formation		N	CHANA	Anita Member
		NA	1		1				Pozo uro Fm			L	T n	Pozo Duro Member
	U	E		U		U		•	intura Fm.	h	Cintur Fm.			Cintura Fm.
Sásabe Formation	M	GRO	Arroyo Sásabe	M	Arroyo Sásabe	M		A	urroyo lásabe Fm.	BGR	Arroyc Sásab Fm.		BGR	Arroyo Sásabe Fm.
	L	P	Formation	L	Formation .	L		1	Morita Fm.	E P	Morita Cerro	F	BUEP	Morita Fm.
									Ggi.		Ore G	i.		Glance Ggl
			formation											

BISBEE	SE Arizona and	Sierra El Tigre	Şierra Azul	Santa Ana	Cerro de Oro	Tuape	Arizpe	S. El Chanate
GROUP	NE Sonora (1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Cintura	Pinkish-gray to pale-red feldspathic sandstone and	Not exposed	Red and light green siliciclastic mudstone and shale containing some sandstone, conglomerate and limestone beds. 110 m thick.	Red to purplish-red and green mudstone intercalated with gray to purplish-gray and green sandstone, 500 to 1000 m thick.	and fine-grained sandstone, with occasional thin-bedded conglomerate lenses. 290 in thick.	Not exposed	and shale and sandy shale intercalated with thick- bedded limestone with abundant pelecypods, including oysters, Inoceramus and pectens. 800 m thick.	Red to purplish-red, thin- to medium-bedded mudstone with calcareous nodules, shale and sandstone with minor conglomerate ienses. 60 to 300 m thick.
M upper U	limestone, rich in molluscan and coral debris, as well as rudists and orbitolinids. Locally calcareous shale and siltstone intercalated in the	with thin-bedded nodular sandy limestone, dark-gray and yellowish shale and	Thick to massive-bedded limestone with rudists, corals and orbitolinids, overlain by siliciclastic mudstone, shale, and less sandstone and limestone, with ooids and gastropods	Thick-bedded red to pink sandstone, shaly sandstone and green,	Thick- to massive bedded light-gray fossiliferous limestone rich in corals and rudists, and thick- bedded bioclastic limestone with gastropods and orbitolinids, 85 to 385 m thick.	Medium- to massive- bedded light-gray to reddish-brown limestone with orbitolinids, rudists, corals, gastropods, oysters, ammonoids and braquiopods. Thickness unknown.		Arroyo Sásabe: Green shale, and green tuff, volcaniclastic silt- stone and sandstone, purplish red sandstone
A lower	upper part. 54 to 84 m thick. Thin-bedded, pale- yellowish-brown to pale- olive to greenish-gray oyster-rich limestone and sandstone, and calcareous siltstone and mudstone. 100 to 164 m thick.	Intercalations of fossili- ferous fissile grayish shale, thin-bedded light yellow sandstone and	245 to 280 m thick. Black shale with sandstone, siltstone and a few oyster-bearing limestone. Thick-bedded limestone near its base and top with fine-shell fragments. 250 to 295 m thick.	yellow and gray shale, intercalated with thick- to massive-bedded gray limestone. 100 to 650 m thick.	Thin- to medium-bedded brown mudstone intercalated with oyster-rich marly and sandy limestone and sandstone. 65 m thick.	Thin- to medium-bedded green to black fossilife-rous shale, medium to thick-bedded fossiliferous limestone, and thin to medium-bedded sandstone Thickness unknown.	Calcareous shale and sandstone with thin-bedded oyster-rich limestone and sandstone. Sandstone and shale more abundant at the top. 540 to 880 m thick.	with ostroid-bearing floatstone to bindstone, intercalated with gray vitric tuffs, 95 m thick.
Morita	Pinkish-gray to pale-red feldspathic sandstone and grayish-red siltstone and mudstone; occasional pebble conglomerate and claystone, and impure lime-stone near the top. Less than 400 to 1500 m thick.	Not exposed	Reddish siliciclastic mudstone and shale with sandstone and micro- conglomerate; also layers of oyster-bearing lime- stone. Clasts derived from felsic volcanic rocks. 640 to 1000 m thick.	Red to purplish-red massive-bedded mudstone, gray to purplish-gray medium- bedded sandstone, and lenses of purplish-red to mottled conglomerate. 100 to 500 m thick.	Thin- to thick bedded gray, green and purple mudstone, shale, fine-grained sandstone and occasional lenses of thin-bedded conglomerate. 260 m thick.	Thin- to thick-bedded brown, gray and marcon sandstone, red siltstone, pink quartzarenite and interbedded brown to marcon conglomerate. 800 thick.	Thick-bedded medium- to fine-grained sandstone and shale with occasional thin-bedded microconglo- merate. Approx 250 m thick.	Red to purplish-red mudstone and shale, and fine- to medium-grained sandstone, lenses of igneous rock pebble conglomerate, and rare fossiliferous limestone. 193 to 486 m thick.
Glance	Poorly sorted and poorly rounded schist and limestone cotbles and pebbles bound in a matrix of reddish-brown sandy and silty mudstone. 25 to 75 to 1,100 m. thick	Not exposed	Pebble to cobble conglo- merate with tuffs, volcanic litharenites, siliciclastic mudstone and minor porphyritic felsic igneous rock. 40 to 50 m thick.	Not exposed	Cerro de Oro: Thin- to medium-bedded conglomerate, thin to thick-bedded fossiliferous limestone and thin-bedded mudstone and sandstone. 105 to 147 m thick.	Cerro de Oro: Thin to medium-bedded limestone, fissile shale with calcareous nodules, fine- to medium-grained sandstone and conglomerate. 600 m thick.	Cerro de Oro: Thin- to medium-bedded light-gray limestone intercalated with marly sandstone in the lower part. Approx. 30 to 50 m thick.	Green to mottled green to buff conglomerate and coarse sandstone. 21m thick.

TABLE I - Generalized lithologic description of the Bisbee Group in the areas under consideration.

1 - Ransome, 1904; Hayes, 1970; 2 - Imlay, 1939; 3- Rangin, 1986; McKee, 1991; 4 - Salas, 1968; Navarro-Fuentes, 1989; and Jacques-Ayala, 1993; 5 - González-León and Jacques-Ayala, 1988; 6 - Rodríguez-Castañeda, 1988, 1991; 7 - González-León, 1978; 8 - Jacques-Ayala, 1983, 1992, 1993, and Jacques-Ayala and Potter, 1987.

Conclusiones

CRETACICO INFERIOR

- Grupo Bisbee en todas las localidades
- Sierra El Tigre: Caliza Mural
- Sierra Azul y Cerro La Bandera: Glance, Morita, Mural y Cintura

FORMACION

AREA

Glance: Sierra El Chanate

Cerro de Oro; Cerro de Oro, Tuape y Arizpe

Morita: Todas las areas (espesor y litología variables)

Cintura: Excepto en Tuape y Sierra El Tigre

CRETACICO SUPERIOR

AREA

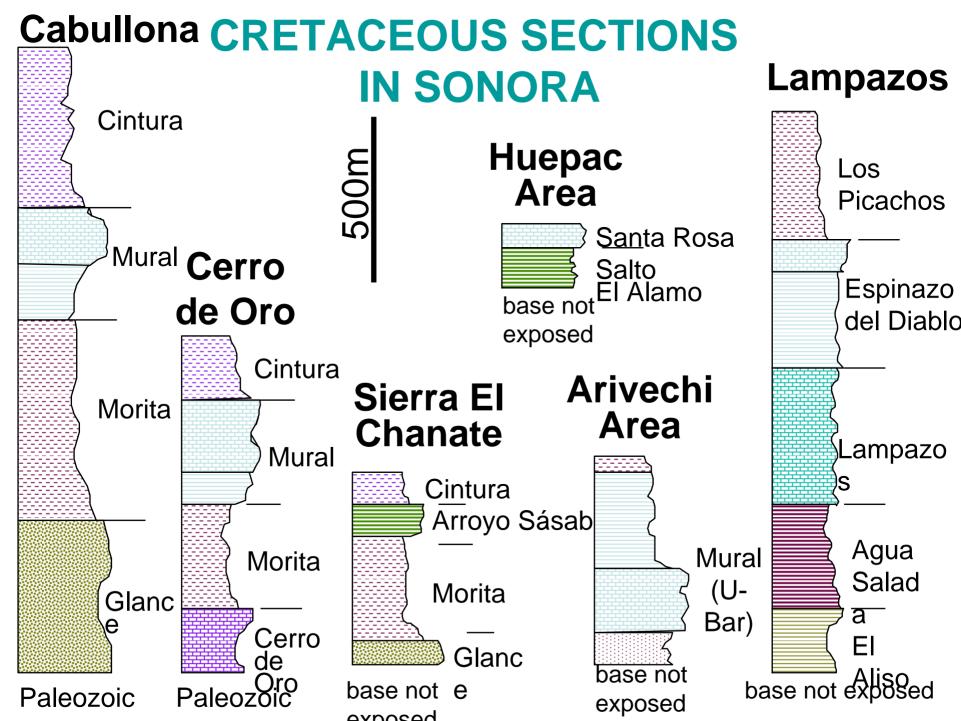
FORMACION

Cabullona: Grupo Cabullona

Arizpe: Conglomerado Aguila

Cerro de Oro: Formación La Palma

• El Chanate: El Chanate El Charro



IMPLICACIONES PALEOGEOGRAFICA DEL GRUPO BISBEE

- Extension geográfica
- Depositación variable
 - Mural
 - Espesor variable
 - Cámbios litológicos
- · Previo avance del mar (Cerro de Oro)
- Depocentro ?

