Mollusks from Gatun formation (Columbellidae to Volutidae)

[R, rare; F, few; C, common; A, abundant; sp., species unidentified]

	LOCALITIES																																																																								
	Lower part										Middle part																																								Upper part																					
											Eastern area																														Western area										Eastern area															Western area						
	136	136a	137	137a	138	138a	138b	138c	138d	138e	139	139b	139c	139e	139f	140	141	142	144	144b	146	147a	147b	147c	147f	147g	147h	147i	151	153	153a	154	155	155a	155b	155c	156	157	158	159	159a	159b	161	161a	161b	161c	161d	162	164	165	170	170a	163	171	172	173	173a	175	176	176a	177	177a	177b	177c	177d	178	Other collections	179	180	181	182	182a	183	185
Mitrella limonensis (Gabb), small form												R									R		C		F	R										R																																						
Mitrella limonensis (Gabb), large form																							F																																		F																	
Mitrella (*Columbellopsis*) aff. *M. fenestrata* (C. B. Adams)					R	R			R																																											?R																						
Anachis (*Costoanachis*) *mira mira* (Dall)								C				C	F										R										F			F																				R		C			A		R	R										F
Anachis (*Costoanachis*) *mira fugax* Brown and Pilsbry	R		F		F	F		R	R			F				R					F		C			F																	R	R	R	R							C					R			C			C										
Anachis (*Costoanachis*) *stibara* Woodring, n. sp.	F																																																																									
Anachis (*Costoanachis*) sp.									R																																																																	
Zanassarina habra Woodring, n. sp.																					R		C		R																																																	
Zanassarina sp.																																																																										R
Strombinophos mimicus Woodring, n. sp.	R	F	R		F	R		C	F			R	R										R			R										R																																						
Strombinophos cf. *S. estrellensis* (Olsson)																																														F																												
Strombina (*Strombina*) *lessepsiana* Brown and Pilsbry	F	C	R	R	C	C	R	A	A				A		A																		R	A	F			C					F	A	F									R	F	F				F	R		A										C	
Strombina (*Strombina*) *ochyra* Woodring, n. sp.																																	R	R		R		R																																				
Strombina (*Strombina*?) *pleurica* Woodring, n. sp.									R																																																																	
Strombina (*Strombina*?) cf. *S. lissa* Gardner	F								R																																																																	
Strombina (*Sincola*) *amphidyma* Woodring, n. sp.								R																																																																		
Strombina (*Sincola*) *chiriquiensis* Olsson																																				F										R							R																					
Strombinella olssoni Woodring, n. sp.																																														C	F				F	R																					
Hanetia dalli dalli (Brown and Pilsbry)								C	R						R			R		R							R			?R			R	F	F	R	?R	F		R				C										R	R	F		F	R		?R		F											
Hanetia dalli protera Woodring, n. subsp.	R	F	R	R	C	F		A	A						R																																																											
Hanetia dalli medioamericana (Olsson)																																																																				R						
Trachypollia aneureta Woodring, n. sp.					R																																																																					
Metula gabbi Brown and Pilsbry								?R													R		F				F		R				R		F	F		R						R														F	R	R			C	R										
Cymatophos veatchi veatchi (Olsson)	A	A	C	C	A	C	C	A	A					R																			R																																									
Cymatophos veatchi erymnus Woodring, n. subsp.																																																																								F	C		R
Cymatophos subsemicostatus (Brown and Pilsbry)																																	F	R		R		R		R				R		?R				?R													R											
Calophos ectyphus Woodring, n. sp.					C	C	F	A	A			R	R	A																						R		R																																				
Antillophos (*Antillophos*) *candei gatunensis* (Toula)					R	R		A	A			C	A		C			F			R		F	?R		C	R		R				A	F	A	A		C	?F	F	R	R	?R	A	C				R				F	R	C	F		C	R			R	A		R									
Antillophos (*Antillophos*) *mexicanus* (Böse)																																																																								C	
Antillophos (*Antillophos*) *monachus* Woodring, n. sp.																																																																								R	
Antillophos (*Rhipophos*) *metuloides* (Dall)																							R			F	R		R		R		R		R																					R		A	C	R	?R		A	R	R	R								
Pallacera aff. *P. guadelupensis* (Petit)																																	R																																									
Nicema amara Woodring, n. sp.	F	C				R		R																																																																		
Northia? sp.		R																																																																								
Nassarius (*Uzita*?) *praeambiguus* (Brown and Pilsbry)	R		C	R	C	C		A	C																			R																																														
Nassarius (*Uzita*) *cercadensis* (Maury)													?R																																	R							F																					
Nassarius (*Nanarius*) *parapristus acolus* Woodring, n. subsp.																					A		A		A	A	A	?F	F		C																																											
Nassarius (*Nanarius*) *parapristus conarus* Woodring, n. subsp.		F	C	R	A	A	R	A	C			A	A	R	R																																																											
Nassarius sp.																										R																																																	
Leptarius leptus Woodring, n. sp.																																														R					R																							
Melongena melongena consors (Sowerby)	R	F	R	R	R			F						R																					R																																							
Fasciolaria gorgasiana Brown and Pilsbry								F					F	R																R			R		R	R																																						
Fasciolaria gorgasiana Brown and Pilsbry, subsp.																																																																							R			
Fusinus empleus Woodring, n. sp.																																																																										R
Fusinid, genus?																																				R		R																																						
Oliva (*Oliva*) *gatunensis* Toula	?R	R		R	C	C	R	A	A		sp. R	R	A	C	C		?F	R				?R	F							F	R	?F	A	F	A	C	R	C		A	F	C	F	F		C	R	?R						R	R			C		C	C	R	A	A	R									
Oliva (*Oliva*) *reticularis* Lamarck, subsp.																																																																				R	R	R	C	F	R	F
Oliva (*Oliva*) *cristobalcoloni cristobalcoloni* Maury?																																		R	R																																									
Oliva (*Strephonella*) *plicata* Guppy																																																			F																							
Ancilla (*Eburna*) *pinguis* (Guppy)													R																																																													
Olivella (*Niteoliva*) *terryi* Olsson	sp. F		A		A	A	F	A	A			A	C	R	R								sp. R				sp. R	sp. C																							C	sp. C				sp. R																		
Olivella (*Toroliva*) *goliath* Olsson																										sp. R										R										C					?R																							
Agaronia testacea mancinella (Olsson)	R	R			R			?R																									F		R																																							
Agaronia testacea hadra Woodring, n. subsp.						R																																																																				
Mitra (*Pleioptygma*?) *limonensis* Olsson																																				R																						?R					R											
Mitra (*Tiara*) *longa longa* Gabb						R		R															C			R							R	F													R											R																
Mitra (*Tiara*) *dariensis* Brown and Pilsbry		R						C	F			?R									?R															R																																						
Uromitra aff. *U. cucurrupiensis* (Oinomikado)																							R																																																			
Uromitra elachista Woodring, n. sp.																					F		C			R	R																																					R										
Xancus validus validus (Sowerby)?																																	R									F																																
Xancus validus falconensis H. K. Hodson								F		R			R	R		R			R														R					R						R																sp. R														
Voluta alfaroi eurytera Woodring, n. subsp.																																																																							F	F		
Enaeta ecnomia Woodring, n. sp.						R																																																																					
Ampulla americana (Olsson)																																																																				R							