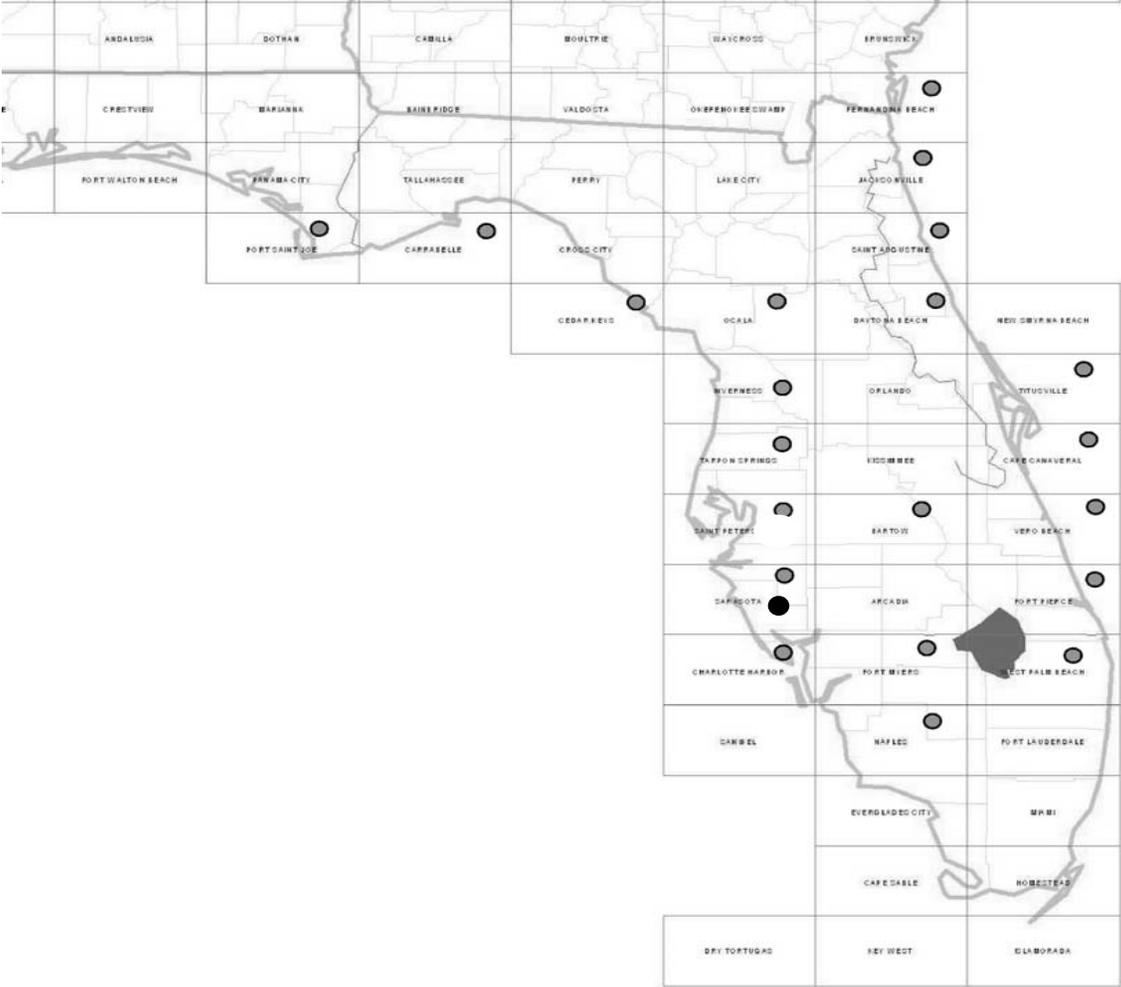


INDEX MAP OF USGS 1:100,000 MAPS USED FOR ORGANIZATION OF LOCALITIES AND DATA



Source	analysis	UDAMS	LocalityID	Map100k	Lat	Long	Coordinate_precision_m	SurfaceElevation_m	Notes and/or Reference
RMM	rmm	10010	Mitterer 6	Arcadia	27.15	-81.78	rmm		Approx loc; see Mitterer list
LW	udel	10092CR	Carleton Ranch	Arcadia	27.15	-81.83	1000		Wingard collection see 10/16/95 letter and earlier file
LW	udel	10092Ds5	Desoto #5	Arcadia	27.038265	-81.816446	100		Wingard collection see 10/16/95 letter and earlier file Portell reviewed March 2012
LW	udel	10092c	Desoto Pit #5	Arcadia	27.038265	-81.816446	100		Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012
LW	udel	10092d	Durrance Pit	Arcadia	27.03	-81.76	1000		Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012 not much info
Muhs	muhs	FL-17	FL-17	Arcadia	27.1	-81.7	muhs 92		Muhs et al 1992 approx loc
Muhs	muhs	FL-19	FL-19	Arcadia	27	-81.7	muhs 92		Muhs et al 1992 approx loc >400 ka
PK	usf rp and usf/um	10060	FK-31 De Soto Co Pit	Bartow	27.038265	-81.816446	100		FROM KARROW NOTES reviewed by Portell May 2012
PK	usf rp and usf/um	10061	FK-32 Carleton Ranch	Bartow	27.15	-81.83	3000		FROM KARROW NOTES
PK	usf rp and usf/um	10134	FK-35 Rayco Pit	Cape Canaveral	28.08	-80.66	2000		FROM KARROW NOTES Portell reviewed May 2012; near "big warehouse"
MC	udel	10089	F&W pit upper	Cape Canaveral	28.3994	-80.93585	1000		McCartan FLMNH SAMPLES Nashua Fm
MC	udel	10090	F&W pit lower	Cape Canaveral	28.3994	-80.93585	1000		McCartan FLMNH SAMPLES Nashua Fm
RMM	rmm	10008	Mitterer 4	Cape Canaveral	28.31	-80.717	rmm		Approx loc; see Mitterer list
RMM	rmm	10013	Mitterer 9	Cape Canaveral	28.31	-80.717	rmm		Approx loc; see Mitterer list
RMM	rmm	10014	Mitterer 10	Cape Canaveral	28.31	-80.717	rmm		Approx loc; see Mitterer list
RMM	rmm	10027	Mitterer 23	Cape Canaveral	28.31	-80.717	rmm		Approx loc; see Mitterer list
RMM	rmm	10028	Mitterer 24	Cape Canaveral	28.31	-80.717	rmm		Approx loc; see Mitterer list
RMM	rmm	10029	Mitterer 25	Cape Canaveral	28.31	-80.717	rmm		Approx loc; see Mitterer list
RMM	rmm	10030	Mitterer 26	Cape Canaveral	28.31	-80.717	rmm		Approx loc; see Mitterer list
RMM	rmm	10031	Mitterer 27	Cape Canaveral	28.31	-80.717	rmm		Approx loc; see Mitterer list
RMM	rmm	10032	Mitterer 28	Cape Canaveral	28.31	-80.717	rmm		Approx loc; see Mitterer list
Osmnd	U-Th	OMT2	Indian River	Cape Canaveral	28.16	-80.61	osmond		Osmond et al 1970
Osmnd	U-Th	OMT3	Angel City	Cape Canaveral	28.36	-80.66	osmond		Osmond et al 1970
Osmnd	U-Th	OMT4	Rockledge	Cape Canaveral	28.33	-80.72	osmond		Osmond et al 1970
Osmnd	U-Th	OMT7	Banana River	Cape Canaveral	28.31	-80.67	osmond		Osmond et al 1970
Osmnd	U-Th	OMT8	Patrick	Cape Canaveral	28.32	-80.61	osmond		Osmond et al 1970
Osmnd	U-Th	OMT9	Eau Gallie	Cape Canaveral	28.15	-80.58	osmond		Osmond et al 1970
RMM	rmm	MCF1	RMM CF 1	Cape Canaveral	28.5	-81	rmm 227		GSA 227 GENERAL GROUP
RMM	rmm	MCF2	RMM CF 2	Cape Canaveral	28.5	-81	rmm 227		GSA 227 GENERAL GROUP
RMM	rmm	MCF3	RMM CF 3	Cape Canaveral	28.5	-81	rmm 227		GSA 227 GENERAL GROUP
dfb	usf/um	10163	Horti Point	Cape Canaveral	28.31783	-80.66179	100		HPFL of DFB 8/18/09 revised
dfb	usf/um	10188	Rockledge	Cape Canaveral	28.32965	-80.71558	300		RLFL DFB collect 1982 data enter 8/18/09
dfb	usf/um	10189	Angel City	Cape Canaveral	28.34237	-80.66066	300		ACFL DFB collect 1982 data enter 8/18/09
dfb	usf/um	10190	Tropic	Cape Canaveral	28.15519	-80.6093	300		TFL DFB collect 1982 data enter 8/18/09
Muhs	U-Th	FL-14	FL-14	Cape Canaveral	28.5	-80.9	muhs 92		Muhs et al 1992 approx loc
KEB	OSL	10184	HCC-01	Cape Canaveral	28.73597	-80.7538	300		Burdette SE GEOL 2009 OSL MIS 5a
KEB	OSL	10186	DRC-01	Cape Canaveral	28.478233	-80.675583	300		Burdette SE GEOL 2009 OSL MIS 5e to 5c
KEB	OSL	Tel-03	Tel-03	Cape Canaveral	28.4782	-80.675583	KEB2010		Burdette et al. SE Geol 2010 MIS5a
KEB	OSL	Tel-01	Tel-01	Cape Canaveral	28.47839	-80.666306	KEB2010		Burdette et al. SE Geol 2010 MIS5a
KEB	OSL	Tel-04	Tel-04	Cape Canaveral	28.478389	-80.663194	KEB2010		Burdette et al. SE Geol 2010 MIS5a
KEB	OSL	Tel-05	Tel-05	Cape Canaveral	28.478389	-80.656361	KEB2010		Burdette et al. SE Geol 2010 MIS5a
KEB	OSL	Tel-02	Tel-02	Cape Canaveral	28.478361	-80.646111	KEB2010		Burdette et al. SE Geol 2010 MIS5a
rmm 1	rmm	10191	Mitterer ref 29 ?	Cape Canaveral	28.4830114	-80.7167419	5000		communicated from Mitterer July 2010 loc plot using township range descrip
rmm 1	rmm	10194	Mitterer ref no 30	Cape Canaveral	28.2970155	-80.694866	5000		communicated from Mitterer July 2010 loc plot using township range descrip
rmm 1	rmm	10195	Mitterer ref 18	Cape Canaveral	28.4571252	-80.5948799	5000		communicated from Mitterer July 2010 loc plot using township range descrip
rmm 1	rmm	10196	Mitterer ref no 19	Cape Canaveral	28.4272405	-80.597272	5000		communicated from Mitterer July 2010 loc plot using township range descrip
rmm 1	rmm	10197	Mitterer ref no 47	Cape Canaveral	28.4624278	-80.7638298	5000		communicated from Mitterer July 2010 loc plot using township range descrip
rmm 1	um	10198	Mitterer D1	Cape Canaveral	28.3423174	-80.7201222	5000		communicated from Mitterer July 2010 loc plot using township range descrip
Otvos	udel	10079	Carbody Road	Carrabelle	29.86577	-84.74146	300		Otvos
Jones	udel	10098	Cedar Key	Cedar Key	29.1369	-83.0336	100		LIVE COLLECT
Jones	udel	10116	Doug Jones live collect Cedar Key	Cedar Key	29.136	-83.0336	100		Live collect
rmm	rmm	10033	Mitterer 29	Cedar Key	29.14	-83	rmm		Approx loc; see Mitterer list
Oches	usf rp	10119	Handyphil #1	Charlotte Harbor	26.912539	-82.3080235	100		Philman Pit May 2001
Oches	usf rp	10120	Handyphil #2	Charlotte Harbor	26.9111079	-82.309447	100		Philman Pit May 2001
PK	usf rp and usf/um	10136	FK-38 Ballard Shell Pit	Charlotte Harbor	26.706854	-82.043943	300		karrow notes portell reviewed locality info +/- 300 M
pk	usf rp and usf/um	10138	FK-41 Shell and Fill Pit	Charlotte Harbor	26.921262	-82.00944	375		karrow notes portell reviewed locality info +/- 375 M
pk	usf rp and usf/um	10140	FK-43 APAC Pit	Charlotte Harbor	26.930062	-82.003244	250		karrow notes portell reviewed locality info +/- 250 M
pk	usf rp and usf/um	10145	FK-49 Engelwood	Charlotte Harbor	26.938762	-82.295636	125		karrow notes portell reviewed locality info +/- 125 m originally labeled El Jobean
MC	udel	10085	Punta Gorda	Charlotte Harbor	26.917	-82.0512	1000		McCartan
dfb	usf/um	10003	Pine Island North	Charlotte Harbor	26.6047	-82.1511	1000		jfw approx loc
dfb	usf/um	10004	Pine Island South	Charlotte Harbor	26.6047	-82.1511	1000		jfw approx loc
rmm	rmm	10006	Mitterer 2	Charlotte Harbor	26.839	-82.027	rmm		Approx loc; see Mitterer list

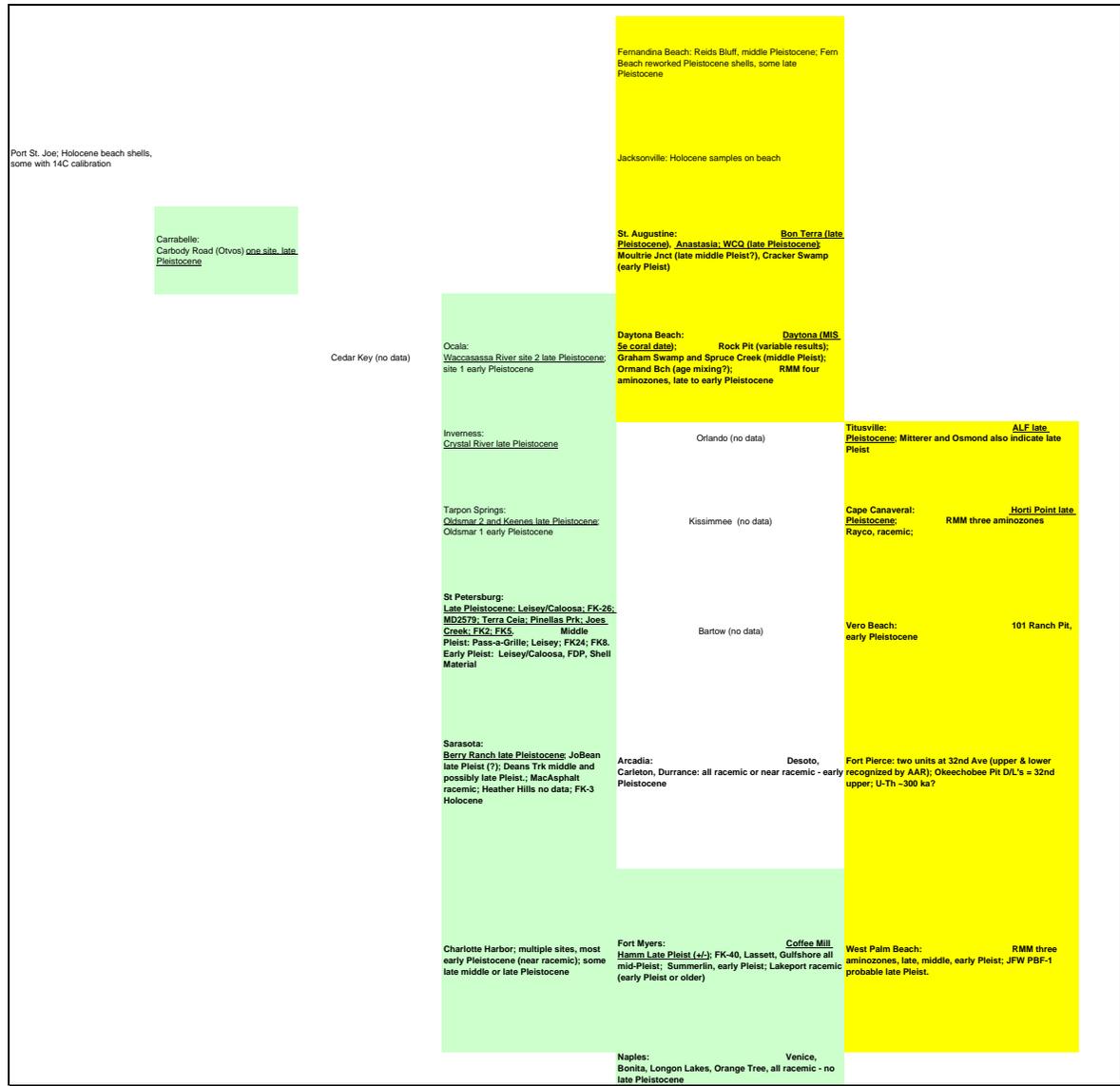
rmm	rmm	10036	Mitterer 32	Charlotte Harbor	26.839	-82.027	rmm	Approx loc; see Mitterer list
rmm	rmm	10037	Mitterer 33	Charlotte Harbor	26.839	-82.027	rmm	Approx loc; see Mitterer list
oches	usf rp	10153a	Philman Pit 2	Charlotte Harbor	26.9124722	-82.3080278	100	Tiling 5
oches	usf rp	10153	Philman Pit 1	Charlotte Harbor	26.9124722	-82.3080278	100	Tiling 5
dfb	usf/um	10204	CH core 25	Charlotte Harbor	26.9242165	-82.0984692	300	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map
dfb	usf/um	10205	CH core 28	Charlotte Harbor	26.8188333	-82.0819901	300	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map
dfb	usf/um	10206	CH core 27	Charlotte Harbor	26.7222258	-82.0967059	300	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map
dfb	usf/um	10207	CH core 15	Charlotte Harbor	26.6666069	-82.2310518	300	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map
dfb	usf/um	10208	CH core 7	Charlotte Harbor	26.6459816	-82.1044179	300	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map
dfb	usf/um	10209	CH core 18	Charlotte Harbor	26.8103685	-82.2624959	300	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map
dfb	usf/um	10210	CH core 19	Charlotte Harbor	26.7848099	-82.2526082	300	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map
dfb	usf/um	10211	CH core 5	Charlotte Harbor	26.5555898	-82.0720362	300	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map
dfb	usf/um	10212	CH core 8	Charlotte Harbor	26.5028871	-82.1176102	300	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map
dfb	usf/um	10213	CH core 9	Charlotte Harbor	26.4869024	-82.1488679	300	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map
dfb	usf/um	10214	CH core 11	Charlotte Harbor	26.5883428	-82.1461441	300	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map
dfb	usf/um	10215	CH core 12	Charlotte Harbor	26.5979149	-82.1988727	300	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map
FLMNH	udel & usf rplc	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	Sr analysis FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010
McNeill	udel	10074	Rock Pit	Daytona Beach	29.46945	-81.16843	200	10 McNeill letter 5/86 jfw mod 1/29/08
McNeill	udel	10075	near Rock Pit	Daytona Beach	29.46945	-81.16843	200	McNeill letter 5/86 jfw mod 1/29/08
rmm	rmm	10016	Mitterer 12	Daytona Beach	29.08	-81	rmm	Approx loc; see Mitterer list
rmm	rmm	MNF1	RMM NF 1	Daytona Beach	29.67	-81.25	rmm	GSA 227 GENERAL GROUP
rmm	rmm	MNF2	RMM NF 2	Daytona Beach	29.67	-81.25	rmm	GSA 227 GENERAL GROUP
rmm	rmm	MNF3	RMM NF 3	Daytona Beach	29.67	-81.25	rmm	GSA 227 GENERAL GROUP
rmm	rmm	MNF4	RMM NF 4	Daytona Beach	29.67	-81.25	rmm	GSA 227 GENERAL GROUP
dfb	usf/um and udel	10159	Graham Swamp	Daytona Beach	29.47886	-81.17358	300	GSFL OF DFB 8/18/09 REVISED
dfb	usf/um and udel	10160	Ormand Beach	Daytona Beach	29.2884	-81.09036	100	OBFL OF DFB 8/18/09 REVISED Roughly equiv. to OBF collected by James May 1979
dfb	usf/um	10161	Spruce Creek	Daytona Beach	29.13278	-81.02389	100	SCFL of DFB 8/18/09 revised
HH	Colo	HHF	Flagler Beach	Daytona Beach	29.47	-81.14	xxx	Hollin and Hearty 1990
rmm 1	rmm	10201	Mitterer FSM 5 Bunnell	Daytona Beach	29.476881	-81.241203	3000	FSM5 Bunnell A/I 0.56 Approx loc only
rmm 1	rmm	10202	Mitterer 85o	Daytona Beach	29.468023	-81.229427	3000	FSM 298 Bunnell A/I 0.60 loc only approx
dfb	usf/um and udel	10000	Reids Bluff	Fernandina Beach	30.715084	-81.60831	50	additions jan 29 2008
jfw	udel	10077	Fernandina Beach	Fernandina Beach	30.691214	-81.42814	200	beach collection
FLMNH	udel	10124	Coffee Mill Hammock	Fort Myers	26.7888	-81.305	200	Coffee Mill Hammock type; Florida
FLMNH	udel	10125	Coffee Mill Hammock	Fort Myers	26.7888	-81.305	200	Coffee Mill Hammock type; Florida
pk	usf rp and usf/um	10137	FK-40 Punta Gorda trailer park	Fort Myers	26.899861	-81.991145	300	karrow notes portell reviewed locality info +/- 300 M
pk	usf/um	10139	FK-42 Charles Lassett Pit	Fort Myers	26.7479	-81.4537	300	karrow notes portell reviewed locality info +/- 300 M
pk	usf rp and usf/um	10141	FK-44 Gulfshore Seafood	Fort Myers	26.8823	-81.9782	150	karrow notes portell reviewed locality info +/- 150 M Deroche Pit 01
pk	usf rp and usf/um (?)	10148	FK-58 Highlands Co Pit	Fort Myers	26.975364	-81.753151	450	karrow notes portell reviewed locality info +/- 450 m
MC	udel	10082	Lakeport	Fort Myers	26.9416	-81.132	2000	McCartan
MC	udel	10086	Cochran Pit upper	Fort Myers	26.7336	-81.4832	200	McCartan Reviewed by Portell May 2012 HN004 of FLMNH
MC	udel	10087	Summerlin College Ft Meyers	Fort Myers	26.55628	-81.8854	500	McCartan
rmm	rmm	10011	Mitterer 7	Fort Myers	26.74	-80.178	rmm	Approx loc; see Mitterer list
rmm	rmm	10020	Mitterer 16	Fort Myers	26.788	-81.305	rmm	Approx loc; see Mitterer list
rmm	rmm	10021	Mitterer 17	Fort Myers	26.674	-81.175	rmm	Approx loc; see Mitterer list
rmm	rmm	10022	Mitterer 18	Fort Myers	26.674	-81.175	rmm	Approx loc; see Mitterer list
rmm	rmm	10023	Mitterer 19	Fort Myers	26.788	-81.305	rmm	Approx loc; see Mitterer list
rmm	rmm	10024	Mitterer 20	Fort Myers	26.674	-81.175	rmm	Approx loc; see Mitterer list
rmm	rmm	10025	Mitterer 21	Fort Myers	26.674	-81.175	rmm	Approx loc; see Mitterer list
rmm	rmm	10026	Mitterer 22	Fort Myers	26.788	-81.305	rmm	Approx loc; see Mitterer list
rmm	rmm	10034	Mitterer 30	Fort Myers	26.53	-81.87	rmm	Approx loc; see Mitterer list
pk	no data	10173	FK-39	Fort Myers	26.808758	-81.777151	400	karrow notes portell reviewed locality info +/- 400 M
pk	no data	10179	FK-57	Fort Myers	27.0384	-81.8155	350	karrow notes portell reviewed locality info +/- 350 m
pk	no data	10180	FK-57	Fort Myers	27.0384	-81.8155	350	karrow notes portell reviewed locality info +/- 350 m
Muhs	U-Th	FL-18	FL-18	Fort Myers	26.9	-82	muhs 92	Muhs et al 1992 approx loc 266 +/- 18 ka
Muhs	U-Th	FL-25	FL-25	Fort Myers	26.95	-81.8	muhs 92	Muhs et al 1992 approx loc
Muhs	U-Th	FL-26	FL-26	Fort Myers	26.95	-81.8	muhs 92	Muhs et al 1992 approx loc
mc	udel	10083	32 ave upper	Fort Pierce	27.2044	-80.86098	1000	McCartan
mc	udel	10084	32 ave lower	Fort Pierce	27.2044	-80.86098	1000	McCartan
mc	udel	10088	Ft Drum Spoil	Fort Pierce	27.5216	-80.7466	1000	McCartan
rmm	rmm	10019	Mitterer 15	Fort Pierce	27.09	-80.18	rmm	Approx loc; see Mitterer list
mc	udel	10092g	Okeechobee Pit	Fort Pierce	27.2	-80.86	2000	Wingard collection see 10/16/95 letter and earlier file
Muhs	U-Th	FL-16	FL-16	Fort Pierce	27.2	-80.86	xxx	Muhs et al 1992 approx loc 330 +/- 21 ka
oches	usf rp	10183	Crystal River	Inverness	28.9	-82.6	1000	David Webb to Paul Karrow to Rich Oches
jfw	udel	10097	Jacksonville beach	Jacksonville	30.43705	-81.41042	100	BEACH
pk	usf rp and usf/um	10135	FK-37 Orange Tree Shell Pit	Naples	26.28694	-81.583355	500	karrow notes portell reviewed locality info +/- 500 M

pk	usf rp and usf/um	10146	FK-51 Bonita Farms	Naples	26.366443	-81.728551	600	karrow notes portell reviewed locality info +/- 600 M
dfb	usf/um	10002	Point O Rocks Key	Naples	27.244	-82.536	100	equivalent to Karrow FK-3 This is DFB site
lw	udel	10092V	Venice	Naples	27.05232	-82.43363	200	Wingard collection see 10/16/95 letter and earlier file
oches	usf rp	10154	Bonita Grande	Naples	26.358	-81.7592083	100	Tiling 6
oches	usf rp	10155	Longan Lakes	Naples	26.2	-81.6	500	Tiling 7 approx
LW	udel	10092b	Venice Core	Naples	27.05232	-82.43363	100	Wingard collection see 10/16/95 letter and earlier file
dfb	usf/um	10187	DFB Caloosahatchee Fm	Naples	28	-80	10000	unknown locality - guess at topo sheet
pk	no data	10174	FK-45	Naples	26.343742	-81.75915	150	karrow notes portell reviewed locality info +/- 150 M
oches	usf rp	10149	Waccasassa River site 1	Ocala	29.2938167	-82.73067	200	Tiling 1
oches	usf rp	10149a	Waccasassa River site 2	Ocala	29.2938167	-82.73067	200	Tiling 1a
jfw	udel	10078	Apalachicola Beach	Port St. Joe	29.5925	-85.0554	500	Joe Donohue
jfw	udel	10091	LIGHTHOUSE POINT	Port St. Joe	29.667	-85.358	1000	Scott Harris
jfw	udel	10076b	FLORIDA GULF COAST	Port St. Joe	29.67	-85.33	10000	estimate not sure what samples exist
jfw	udel	10095	Anastasia St Park beach	Saint Augustine	29.8666	-81.268	100	BEACH
jfw	udel	10096	St Augustine Lighthouse	Saint Augustine	29.88557	-81.2862	100	BEACH
FLMNH	udel	10099	Cracker Swamp	Saint Augustine	29.697247	-81.534654	100	Sr analysis FLMNH 100948 Portell review May 2012 Caloosahatchee equiv. Johnson and Johnson Nashua
McNeill	udel	10072	Bon Terra	Saint Augustine	29.56235	-81.18176	200	5 McNeill letter 5/86 jfw mod 1/29/08; Mitterer reports data from Bon Terra
McNeill	udel	10073	Bon Terra	Saint Augustine	29.56235	-81.18176	200	0.5 McNeill letter 5/86 jfw mod 1/29/08; Mitterer reports data from Bon Terra
rmm	rmm	10009	Mitterer 5	Saint Augustine	29.515	-81.157	10000	Approx loc; see Mitterer list
rmm	rmm	10015	Mitterer 11	Saint Augustine	29.515	-81.157	10000	Approx loc; see Mitterer list
rmm	rmm	10017	Mitterer 13	Saint Augustine	29.515	-81.157	10000	Approx loc; see Mitterer list
dfb	udel	10038	AF	Saint Augustine	29.854831	-81.278246	100	DFB dissertation
dfb	udel	10076a	FQF Faith Quarry	Saint Augustine	29.87	-81.25	10000	Belknap sample?
dfb	usf/um	10157	Moultrie Junction	Saint Augustine	29.90186	-81.35937	100	MJFL OF DFB 8/18/09 REVISED
dfb	usf/um	10158	Anastasia island	Saint Augustine	29.85642	-81.2792	100	AIFL OF DFB 8/18/09 REVISED
KEB	osl	10185	WCQ-01	Saint Augustine	29.881483	-81.35245	300	Burdette SE GEOL 2009 MIS 5e 5c Paired AAR and OSL Lakeview Dirt Pit
hh	Colo	HHM	Marineland	Saint Augustine	29.67	-81.21	H&H 1990	Hollin and Hearty 1990
rmm 1	rmm	10200	Mitterer X	Saint Augustine	29.560864	-81.194406	3000	A/I 0.40 loc very approximate may be one sent previously Email Nov 1995 says this is Graham Swamp, Flagler Co A/I 0.40 (A ditch beside the road) Probably the same as Loc 11
pk	usf rp and usf/um	10039	FK-8 Toytown Dump	Saint Petersburg	27.876615	-82.657286	300	FROM KARROW NOTES Portell reviewed May 2012
pk	usf rp and usf/um	10041	FK-16 Joes Creek	Saint Petersburg	27.809791	-82.729925	200	karrow notes; portell loc reviewed
pk	usf rp and usf/um	10042	FK-25A Shell Materials	Saint Petersburg	27.7375	-82.4416	500	karrow notes; portell loc reviewed +/- 500 m
pk	usf/um	10043	FK-25B Shell Materials	Saint Petersburg	27.7375	-82.4416	500	karrow notes; portell loc reviewed +/- 500 m
pk	usf rp and usf/um	10044	FK-27IIA Leisey	Saint Petersburg	27.696188	-82.505231	100	karrow notes; portell loc reviewed; 1 -2' from top of upper shell bed. Must be near bone bed (but above or below?) PK
pk	usf rp and usf/um	10045	FK-27IIB Leisey	Saint Petersburg	27.696188	-82.505231	100	karrow notes; portell loc reviewed; 1-2' from base of upper shell bed, above 4-5' below A
pk	usf rp and usf/um	10046	FK-27IIE Leisey	Saint Petersburg	27.696188	-82.505231	100	karrow notes; portell loc reviewed 1-3' below top of lower shell bed. About 10-11' below A
pk	usf/um	10047	FK-27C2 Leisey	Saint Petersburg	27.696188	-82.505231	375	karrow notes; portell loc reviewed +/- 375 m
pk	usf rp and usf/um	10049	FK-2 Council Farms	Saint Petersburg	27.681187	-82.403334	75	karrow notes; portell loc reviewed +/- 75 M
pk	usf rp and usf/um	10050	FK-4 DOT Test Pit	Saint Petersburg	27.879894	-82.662527	250	karrow notes; portell loc reviewed +/- 250 M
pk	usf rp and usf/um	10051	FK-5 Largo Old Pit	Saint Petersburg	27.898695	-82.774203	75	karrow notes; portell loc reviewed +/- 75 M
pk	usf rp and usf/um	10052	FK-6 Pinellas Park	Saint Petersburg	27.881094	-82.751724	450	karrow notes; portell loc reviewed +/- 450 M
pk	usf rp and usf/um	10053	FK-7 Sundown Pit	Saint Petersburg	27.825392	-82.616328	250	karrow notes; portell loc reviewed +/- 250 M
pk	usf rp and usf/um	10055	FK-15 66th st ditch	Saint Petersburg	27.7916667	-82.7291667	100	FROM KARROW NOTES Wingard
pk	usf rp and usf/um	10056	FK-22 Terra Ceia Pit	Saint Petersburg	27.5666	-82.55	300	FROM KARROW NOTES AND DFB DATA SHEET Portell reviewed May 2012
pk	usf rp and usf/um	10057	FK-23 Cross Bayou Canal	Saint Petersburg	27.867493	-82.734525	150	karrow notes; portell loc reviewed +/- 150 m
pk	usf rp and usf/um	10058	FK-24 Aaron Long Pit	Saint Petersburg	27.733	-82.4459	200	karrow notes; portell loc reviewed +/- 200 m
pk	usf rp and usf/um	10059	FK-26 Tampa Bay Shell Pit	Saint Petersburg	27.731489	-82.454833	375	karrow notes; portell loc reviewed +/- 375 m
FLMNH	ud usf rplc	10106	Leisey 3a	Saint Petersburg	27.69967	-82.49395	100	Sr analysis FLMNH 37418
oches	usf rp	10122	Caloosa. #1, FLA	Saint Petersburg	27.696632	-82.488113	100	Caloosa. #1, FLA
oches	usf rp	10123	Caloosa. #2, FLA	Saint Petersburg	27.696353	-82.488112	100	Caloosa. #2, FLA
jfw	udel	10126	Pass-a-Grille	Saint Petersburg	27.6838	-82.7388	200	Skip Davis USF Core
oches	usf rp	10127	Caloosa Ft T	Saint Petersburg	27.6963333	-82.488111	50	Collect Feb 2002 no analyses done as of May 2010
oches	usf rp	10128	Caloosa bone	Saint Petersburg	27.6963333	-82.488111	50	Collect Feb 2002 no analyses done as of May 2010
oches	usf rp	10129	Caloosa upper Belmont	Saint Petersburg	27.6963333	-82.488111	50	Collect Feb 2002 no analyses done as of May 2010
oches	usf rp	10130	Caloosa lower Belmont	Saint Petersburg	27.6963333	-82.488111	50	Collect Feb 2002 no analyses done as of May 2010
jfw	udel	10131	Tampa Bay MD02-2579	Saint Petersburg	27.7838	-82.5158	200	Tom Cronin, Tampa Bay, Florida MD core
pk	no data	10133	FK-14	Saint Petersburg	27.85	-82.7333333	500	FROM KARROW NOTES
pk	usf rp and usf/um	10147	FK-56 Leisey 3	Saint Petersburg	27.700588	-82.491532	700	karrow notes portell reviewed locality info +/- 700 m 56B base of upper shell bed (Ft Thomp) at transition to black layer with bonds; 56E same site, middle of shell bed
lw	udel	10094	Leisey	Saint Petersburg	27.69698	-82.4975	500	Wingard collection
FLMNH	udel	10101	Leisey 1a	Saint Petersburg	27.69698	-82.4975	100	Sr analysis FLMNH 10755
FLMNH	udel	10107	Leisey 3a	Saint Petersburg	27.69967	-82.49395	100	FLMNH 37477

FLMNH	udel	10108	Leisey 1a	Saint Petersburg	27.69698	-82.4975	100
jfw	udel	10109	Treasure Island	Saint Petersburg	27.739	-82.751	100
jfw	udel	10113	Leisey Pit spoil	Saint Petersburg	27.69715	-82.50274	100
jfw	udel	10114	Tampa Skyway beach	Saint Petersburg	27.65178	-82.67753	100
jfw	udel	10115	Pass-a-grille beach	Saint Petersburg	27.683	-82.738	100
jfw	udel	10111	R. L. Davis Tampa Bay cores FD	Saint Petersburg	27.61	-82.735	200
jfw	udel	10112	Tampa temperature recording sit	Saint Petersburg	27.7	-82.5	xxx
oches	usf rp	10150u	Caloosa Shell upper	Saint Petersburg	27.6966111	-82.4873611	50
lw	udel	10092f	Leisey Pit	Saint Petersburg	27.697	-82.498	500
lw	udel	10092j	Joes Creek	Saint Petersburg	27.8107	-82.7341	100
lw	udel	10092k	Tyrone 22nd 66 St	Saint Petersburg	27.7913	-82.7287	100
oches	usf rp	10150l	Caloosa Shell lower	Saint Petersburg	27.6966111	-82.4873611	50
pk	no data	10166	FK-17	Saint Petersburg	27.899695	-82.336936	200
pk	no data	10167	FK-18	Saint Petersburg	27.862393	-82.356036	125
pk	no data	10168	FK-19	Saint Petersburg	27.841093	-82.322537	200
pk	no data	10169	FK-20	Saint Petersburg	27.816292	-82.358035	125
pk	usf rp	10170	FK-21	Saint Petersburg	27.798791	-82.371735	400
pk	no data	10171	FK-29	Saint Petersburg	27.541583	-82.520631	300
pk	usf rp	10181	FK-27III	Saint Petersburg	27.696188	-82.505231	100
pk	usf rp and usf/um	10048	FK-1 Heather Hills	Sarasota	27.452179	-82.563129	100
pk	usf rp and usf/um	10062	FK-33 Macaspahlt Pit	Sarasota	27.3663	-82.4512	1100
pk	usf rp and usf/um	10063	FK-34 El Jobean Pit	Sarasota	26.978363	-82.214093	400
jfw	no data	10118	QA Phase 9	Sarasota	27.3728611	-82.386	100
pk	usf rp and usf/um	10142	FK-46 Deanes Trk East	Sarasota	27.1589	-82.3904	250
pk	usf rp and usf/um	10143	FK-47 Deanes Trk West	Sarasota	27.15715	-82.403339	150
pk	usf rp and usf/um	10144	FK-48 Berry Ranch Pit	Sarasota	27.017565	-82.347735	250
dfb	usf/um	10001	Woodmere Pit	Sarasota	27.02276	-82.39677	100
rmm	rmm	10007	Mitterer 3	Sarasota	27.205	-82.46	10000
rmm	rmm	10035	Mitterer 31	Sarasota	27.45	-82.41	10000
oches	usf rp	10151	Quality Aggregates	Sarasota	27.3728611	-82.386	100
oches	usf rp	10152	Deans Trucking	Sarasota	27.15	-82.395	100
muhs	U-Th	FL-15	FL-15	Sarasota	27.6969	-82.4975	muhs 92
pk	no data	10172	FK-30	Sarasota	27.401723	-82.43947	200
pk	usf rp	10182	FK-3	Sarasota	27.244	-82.536	100
muhs	U-Th	FL-24	FL-24	Sarasota	27.6969	-82.4975	xxx
pk	usf/um	10040	FK-09 Oldsmar 1	Tarpon Springs	28.0394	-82.6553	250
pk	usf/um	10054	FK-11 Keene's (Thomas) Pit	Tarpon Springs	28.0498	-82.5879	325
pk	usf rp	10110	FK-28 OLDSMAR 2	Tarpon Springs	28.04	-82.676	200
pk	no data	10132	FK-10	Tarpon Springs	28.05	-82.548	200
FLMNH	udel	10102	FK-28 OLDSMAR 2	Tarpon Springs	28.04	-82.676	100
FLMNH	udel	10103	FK-28 OLDSMAR 2	Tarpon Springs	28.04	-82.676	100
FLMNH	udel	10104	FK-09 Oldsmar 1	Tarpon Springs	28.0394	-82.6553	100
FLMNH	udel	10105	FK-09 Oldsmar 1	Tarpon Springs	28.0394	-82.6553	100
lw	udel	10092i	Oldsmar #2	Tarpon Springs	28.04	-82.676	200
pk	no data	10164	FK-12	Tarpon Springs	28.0573	-82.5991	750
pk	no data	10165	FK-13	Tarpon Springs	28.035921	-82.296609	600
pk	no data	10175	FK-52	Tarpon Springs	28.0532	-82.5484	75
pk	no data	10176	FK-53	Tarpon Springs	28.0481	-82.6939	30
pk	no data	10177	FK-54	Tarpon Springs	28.0477	-82.7081	150
pk	no data	10178	FK-55	Tarpon Springs	28.082	-82.700826	50
rmm	rmm	10012	Mitterer 8	Titusville	27	-80	10000
osmond	U-Th	OMT1	Titusville	Titusville	28.56	-80.85	osmond
dfb	usf/um and ud	10162	Allenhurst	Titusville	28.73629	-80.75533	100
rmm 1	rmm	10192	Mitterer ref no 20	Titusville	28.6453793	-80.6876509	5000
rmm 1	rmm	10193	Mitterer ref no 27	Titusville	28.5015295	-80.7149886	5000
rmm 1	rmm	10199	Mitterer OS-2	Titusville	28.8759758	-80.8400795	5000
rmm 1	rmm	10203	Mitterer OS-2	Titusville	28.866783	-80.840835	5000
FLMNH	udel	10121	101 Ranch Pit -2 site 1 Bed 3	Vero Beach	27.5253	-80.9686	50
MC	udel	10080	Ft Drum upper	Vero Beach	27.5216	-80.7466	1000
MC	udel	10081	Ft Drum lower	Vero Beach	27.5216	-80.7466	1000
FLMNH	udel	10117	101 Ranch Pit	Vero Beach	27.5239	-80.9636	50
rmm	rmm	10018	Mitterer 14	Vero Beach	27.7	-80.47	10000
oches	usf rp	10156	101 Ranch Pit	Vero Beach	27.5254167	-80.9690556	50
jfw	udel	10069	PBF-1	West Palm Beach	26.712	-80.18	100
jfw	udel	10070	PBF-2	West Palm Beach	26.64	-80.206	100
rmm	rmm	10005	Mitterer 1	West Palm Beach	26.74	-80.178	10000

FLMNH 54991
BEACH Tom Pickett March 1993
spoil
Sr analysis
Beach
Tampa Bay cores
placeholder
Tiling 2 upper Edwards Cheng U-Th coral data here
Wingard collection see 10/16/95 letter and earlier file
Wingard collection see 10/16/95 letter and earlier file
Wingard collection see 10/16/95 letter and earlier file
Tiling 2 lower Edwards Cheng U-Th coral data here
karrow notes portell reviewed locality info +/- 200 m
karrow notes portell reviewed locality info +/- 125 m
karrow notes portell reviewed locality info +/- 200 m
karrow notes portell reviewed locality info +/- 125 m
karrow notes portell reviewed locality info +/- 400 m
karrow notes portell reviewed locality info +/- 300 m
Karrow Leisey base of face of lower shell bed 'about 12-13' below FK27IIa
karrow notes; portell loc reviewed +/- 100 m shells leached no data
karrow notes; portell loc reviewed +/- 1100 m
FROM KARROW NOTES DFB DATA SHELL BADLY LEACHED Portell reviewed May 2012 big quarry so a lot of uncertainty
Perhaps should be labeled phase 7-1
karrow notes portell reviewed locality info +/- 250 m
karrow notes portell reviewed locality info +/- 150 m
karrow notes portell reviewed locality info +/- 250 m
loc data found July 10 2009
Approx loc; see Mitterer list
Approx loc; see Mitterer list
Tiling 3
Tiling 4 approx
Muhs et al 1992 approx loc 115 +/- 3 Leisey lower Muhs email 12/10/08
karrow notes portell reviewed locality info +/- 200 m
Karrow Sarasota beach rock Equiv to DFB Point of Rocks
Leisey upper Muhs email 12/10/08 124 +/- 3.5 ka
karrow notes; portell loc reviewed +/- 250 m
karrow notes; portell loc reviewed +/- 325 m
Sr analysis from karrow notes portell reviewed locality lat lon
FROM KARROW NOTES Portell reviewed May 2012 "very close to FK-52"
FLMNH 17472
Sr analysis FLMNH 17501
FLMNH 31303
Sr analysis FLMNH 31325
Wingard collection see 10/16/95 letter and earlier file
karrow notes portell reviewed locality info +/- 750 m
karrow notes portell reviewed locality info +/- 600 m
karrow notes portell reviewed locality info +/- 75 m
karrow notes portell reviewed locality info +/- 30 m
karrow notes portell reviewed locality info +/- 150 m
karrow notes portell reviewed locality info +/- 50 m
unknown locality - guess only!
Osmond et al 1970
ALFL of DFB 8/18/09 revised
communicated from Mitterer July 2010 loc plot using township range descrip
communicated from Mitterer July 2010 loc plot using township range descrip
communicated from Mitterer July 2010 loc plot using township range descrip
Oak Hill A/I 0.42 No other info
Portell reviewed May 2012
McCartan
McCartan
Sr analysis FLMNH samples Loc info provided by R Portell May 2012
Approx loc; see Mitterer list
Tiling 8 loc probably by GPS
commercial excavation
commercial excavation
Approx loc; see Mitterer list

jfw	udel	10064	RB1	West Palm Beach	26.81857	-80.03753 100	Beach JFW 1985
jfw	udel	10065	RB2	West Palm Beach	26.83179	-80.04079 100	Beach JFW 1985
jfw	udel	10066	RB3	West Palm Beach	26.82613	-80.03916 100	Beach JFW 1985
jfw	udel	10067	R1	West Palm Beach	26.916	-80.1071 100	jfw 1985
jfw	udel	10068	R2	West Palm Beach	26.916	-80.1071 100	spoil pile jfw 1985
Osmnd	U-Th	OMT5	I95quarry	West Palm Beach	27.91	-80.6 osmond	Osmond et al 1970
Osmnd	U-Th	OMT6	Micco Road	West Palm Beach	27.89	-80.57 osmond	Osmond et al 1970
rmm	rmm	MSF1	RMM SF 1	West Palm Beach	26.75	-80.25 rmm 227	GSA 227 GENERAL GROUP
rmm	rmm	MSF2	RMM SF 2	West Palm Beach	26.75	-80.25 rmm 227	GSA 227 GENERAL GROUP
rmm	rmm	MSF3	RMM SF 3	West Palm Beach	26.75	-80.25 rmm 227	GSA 227 GENERAL GROUP
muhs	u-th	FL-27	FL-27	West Palm Beach	26.6	-80.6 muhs 92	Muhs et al 1992 approx loc 266 +/- 40 ka
muhs	u-th	FL-28	FL-28	West Palm Beach	26.6	-80.6 muhs 92	Muhs et al 1992 approx loc
HH	Colo	HHJ	Jupiter	West Palm Beach	26.93	-80.09 H&H 1990	Hollin and Hearty 1990



NOTES AND COMMENTS

Blue and yellow areas depict west coast and east coast - likely different gradients of effective temperature on these two coasts

Daytona and Caloosa sites are the only ones with U-series calibration; D/L values at these two sites imply a cross peninsular gradient of effective temperature

Lowest D/L values (youngest Pleistocene aminozone) found in east coast sites (St. Aug to Cape Canaveral)

Mixed ages implied at several sites

Results from McNeill's samples (Rock Pit area) are scattered; strange preservation of shells

Samples from Coffee Mill Hammock site were not great

McCarton and Wingard sample documentation is an issue

Sites interpreted as late Pleistocene are underlined; in some cases 'late Pleistocene' is interpreted as MIS 5; in other cases possibly MIS 7 and 5

Maps with either OSL or U-series data have red corners with comments

	A	B	C	D	E	F	G	H	I	J
1										
2										
3	DATA									
4	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Analysis	Notes and/or Reference	SurfElev_m
5	Wingard	10092d	Arcadia	Durrance Pit	27.03	-81.76		1000 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
6	Wingard	10092d	Arcadia	Durrance Pit	27.03	-81.76		1000 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
7	Wingard	10092d	Arcadia	Durrance Pit	27.03	-81.76		1000 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
8	Wingard	10092d	Arcadia	Durrance Pit	27.03	-81.76		1000 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
9	Wingard	10092d	Arcadia	Durrance Pit	27.03	-81.76		1000 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
10	Wingard	10092d	Arcadia	Durrance Pit	27.03	-81.76		1000 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
11										
12										
13	Karrow	10060	Arcadia	FK-31 De Soto Co Pit	27.038265	-81.816446		100 USF	FROM KARROW NOTES reviewed by Portell May 2012	
14	Karrow	10060	Arcadia	FK-31 De Soto Co Pit	27.038265	-81.816446		100 USF	FROM KARROW NOTES reviewed by Portell May 2012	
15	Karrow	10060	Arcadia	FK-31 De Soto Co Pit	27.038265	-81.816446		100 USF	FROM KARROW NOTES reviewed by Portell May 2012	
16										
17	Wingard	10092c	Arcadia	Desoto Pit #5	27.038265	-81.816446		300 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
18	Wingard	10092c	Arcadia	Desoto Pit #5	27.038265	-81.816446		300 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
19	Wingard	10092c	Arcadia	Desoto Pit #5	27.038265	-81.816446		300 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
20	Wingard	10092c	Arcadia	Desoto Pit #5	27.038265	-81.816446		300 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
21	Wingard	10092c	Arcadia	Desoto Pit #5	27.038265	-81.816446		300 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
22	Wingard	10092c	Arcadia	Desoto Pit #5	27.038265	-81.816446		300 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
23	Wingard	10092c	Arcadia	Desoto Pit #5	27.038265	-81.816446		300 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
24	Wingard	10092c	Arcadia	Desoto Pit #5	27.038265	-81.816446		300 UDEL	Wingard collection see 10/16/95 letter and earlier file Portell reviewed May 2012	
25										
26										
27	Karrow	10061	Arcadia	FK-32 Carleton Ranch	27.15	-81.83		5000 USF	FROM KARROW NOTES	
28	Karrow	10061	Arcadia	FK-32 Carleton Ranch	27.15	-81.83		5000 USF	FROM KARROW NOTES	
29	Karrow	10061	Arcadia	FK-32 Carleton Ranch	27.15	-81.83		5000 USF	FROM KARROW NOTES	
30	Karrow	10061	Arcadia	FK-32 Carleton Ranch	27.15	-81.83		5000 UM	FROM KARROW NOTES	
31										
32										
33	Wingard	10092CR	Arcadia	Carleton Ranch	27.15	-81.83		5000 none	Samples at UD; no data; possible that Wingard collected with Karrow	
34										
35										
36	Wingard	10092Ds5	Arcadia	Desoto #5	27.038	-81.816		500 no data?	Wingard collection to UD; see 10/16/95 letter and earlier file Portell reviewed March 2012	
37										
38										
39	OTHER LOCALITIES									
40	Source							Lab/Result		
41	Mitterer	10010	Arcadia	Mitterer 6	27.150	-81.780 rmm		UT/CIW	Approx loc; see Mitterer list - assume this is in Mitterer Central Florida region	
42	Muhs	FL-17	Arcadia	FL-17	27.1744	-81.8084		10000 USGS U-Th	Muhs et al 1992 approx loc Same as Carleton Ranch	
43	Muhs	FL-19	Arcadia	FL-19	27.03	-81.76		10000 USGS U-Th	Muhs et al 1992 approx loc >400 ka Durrance Pit of McCartan	
44										
45										
46								"rmm" implies locality unknown		
47	UPDATED JULY 14 2014									

	A	B	C	D	E	F	G	H	I
1									
2									
3									
4			DATA						
5									
6	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Analysis	Notes and/or Reference
7	Karrow	10134	Cape Canaveral	FK-35 Rayco Pit	28.08	-80.66	2000	USF RP	
8	Karrow	10134	Cape Canaveral	FK-35 Rayco Pit	28.08	-80.66	2000	USF RP	
9	Karrow	10134	Cape Canaveral	FK-35 Rayco Pit	28.08	-80.66	2000	USF RP	
10	Karrow	10134	Cape Canaveral	FK-35 Rayco Pit	28.08	-80.66	2000	USF RP	
11	Karrow	10134	Cape Canaveral	FK-35 Rayco Pit	28.08	-80.66	2000	USF RP	
12	Karrow	10134	Cape Canaveral	FK-35 Rayco Pit	28.08	-80.66	2000	USF RP	
13	Karrow	10134	Cape Canaveral	FK-35 Rayco Pit	28.08	-80.66	2000	UM	
14	Karrow	10134	Cape Canaveral	FK-35 Rayco Pit	28.08	-80.66	2000	UM	
15									
16									
17	Belknap	10163	Cape Canaveral	Horti Point	28.31783	-80.66179	200	UDEL	
18	Belknap	10163	Cape Canaveral	Horti Point	28.31783	-80.66179	200	UDEL	
19	Belknap	10163	Cape Canaveral	Horti Point	28.31783	-80.66179	200	USF/UM	
20									
21	Mitterer	MCF1	Cape Canaveral	RMM CF 1	28.5	-81	100000	CIW/UT	
22	Mitterer	MCF2	Cape Canaveral	RMM CF 2	28.5	-81	100000	CIW/UT	
23	Mitterer	MCF3	Cape Canaveral	RMM CF 3	28.5	-81	100000	CIW/UT	
24									
25									
26									
27									
28									
29	OTHER LOCALITIES								
30									
31									
32								Lab/Result	
33	Karrow	10134	Cape Canaveral	FK-35 Rayco Pit	28.08	-80.66	2000	usf rp and usf/um	FROM KARROW NOTES Portell reviewed May 2012; near "big warehouse"
34	McCartan	10089	Cape Canaveral	F&W pit upper	28.3994	-80.93585	1000	UDEL no data	McCartan FLMNH SAMPLES Nashua Fm
35	McCartan	10090	Cape Canaveral	F&W pit lower	28.3994	-80.93585	1000	UDEL no data	McCartan FLMNH SAMPLES Nashua Fm
36	Mitterer	10008	Cape Canaveral	Mitterer 4	28.31	-80.717	rmm	rmm	Approx loc; see Mitterer list
37	Mitterer	10013	Cape Canaveral	Mitterer 9	28.31	-80.717	rmm	rmm	Approx loc; see Mitterer list
38	Mitterer	10014	Cape Canaveral	Mitterer 10	28.31	-80.717	rmm	rmm	Approx loc; see Mitterer list
39	Mitterer	10027	Cape Canaveral	Mitterer 23	28.31	-80.717	rmm	rmm	Approx loc; see Mitterer list
40	Mitterer	10028	Cape Canaveral	Mitterer 24	28.31	-80.717	rmm	rmm	Approx loc; see Mitterer list
41	Mitterer	10029	Cape Canaveral	Mitterer 25	28.31	-80.717	rmm	rmm	Approx loc; see Mitterer list
42	Mitterer	10030	Cape Canaveral	Mitterer 26	28.31	-80.717	rmm	rmm	Approx loc; see Mitterer list
43	Mitterer	10031	Cape Canaveral	Mitterer 27	28.31	-80.717	rmm	rmm	Approx loc; see Mitterer list
44	Mitterer	10032	Cape Canaveral	Mitterer 28	28.31	-80.717	rmm	rmm	Approx loc; see Mitterer list
45	Osmnd	OMT2	Cape Canaveral	Indian River	28.16	-80.61	osmond	U-Th	Osmond et al 1970
46	Osmnd	OMT3	Cape Canaveral	Angel City	28.36	-80.66	osmond	U-Th	Osmond et al 1970
47	Osmnd	OMT4	Cape Canaveral	Rockledge	28.33	-80.72	osmond	U-Th	Osmond et al 1970
48	Osmnd	OMT7	Cape Canaveral	Banana River	28.31	-80.67	osmond	U-Th	Osmond et al 1970
49	Osmnd	OMT8	Cape Canaveral	Patrick	28.32	-80.61	osmond	U-Th	Osmond et al 1970
50	Osmnd	OMT9	Cape Canaveral	Eau Gallie	28.15	-80.58	osmond	U-Th	Osmond et al 1970
51	Mitterer	MCF1	Cape Canaveral	RMM CF 1	28.5	-81	rmm 227	rmm	GSA 227 GENERAL GROUP
52	Mitterer	MCF2	Cape Canaveral	RMM CF 2	28.5	-81	rmm 227	rmm	GSA 227 GENERAL GROUP
53	Mitterer	MCF3	Cape Canaveral	RMM CF 3	28.5	-81	rmm 227	rmm	GSA 227 GENERAL GROUP
54	Belknap	10163	Cape Canaveral	Horti Point	28.31783	-80.66179	100	usf/um	HPFL of DFB 8/18/09 revised
55	Belknap	10188	Cape Canaveral	Rockledge	28.32965	-80.71558	300	usf/um	RLFL DFB collect 1982 locality data in AARDB 8/18/09
56	Belknap	10189	Cape Canaveral	Angel City	28.34237	-80.66066	300	usf/um	ACFL DFB collect 1982 locality data in AARDB 8/18/09
57	Belknap	10190	Cape Canaveral	Tropic	28.15519	-80.6093	300	usf/um	TFL DFB collect 1982 locality data in AARDB 8/18/09
58	Muhs	FL-14	Cape Canaveral	FL-14	28.3976	-80.9367	muhs 92	USGS U-Th	Muhs et al 1992 approx loc
59	Burdette	10184	Cape Canaveral	HCC-01	28.73597	-80.7538	300	OSL	Burdette SE GEOL 2009 OSL MIS 5a
60	Burdette	10186	Cape Canaveral	DRC-01	28.478233	-80.675583	300	OSL	Burdette SE GEOL 2009 OSL MIS 5e to 5c
61	Burdette	Tel-03	Cape Canaveral	Tel-03	28.4782	-80.675583	KEB2010	OSL	Burdette et al. SE Geol 2010 MIS5a

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62	Burdette	Tel-01	Cape Canaveral	Tel-01	28.47839	-80.666306	KEB2010	OSL	Burdette et al. SE Geol 2010 MIS5a
63	Burdette	Tel-04	Cape Canaveral	Tel-04	28.478389	-80.663194	KEB2010	OSL	Burdette et al. SE Geol 2010 MIS5a
64	Burdette	Tel-05	Cape Canaveral	Tel-05	28.478389	-80.656361	KEB2010	OSL	Burdette et al. SE Geol 2010 MIS5a
65	Burdette	Tel-02	Cape Canaveral	Tel-02	28.478361	-80.646111	KEB2010	OSL	Burdette et al. SE Geol 2010 MIS5a
66	Mitterer 2010	10191	Cape Canaveral	Mitterer ref 29 ?	28.48301135	-80.7167419	5000	rmm	communicated from Mitterer July 2010 loc plot using township range descrip
67	Mitterer 2010	10194	Cape Canaveral	Mitterer ref no 30	28.29701548	-80.69486596	5000	rmm	communicated from Mitterer July 2010 loc plot using township range descrip
68	Mitterer 2010	10195	Cape Canaveral	Mitterer ref 18	28.45712524	-80.59487987	5000	rmm	communicated from Mitterer July 2010 loc plot using township range descrip
69	Mitterer 2010	10196	Cape Canaveral	Mitterer ref no 19	28.42724049	-80.59727203	5000	rmm	communicated from Mitterer July 2010 loc plot using township range descrip
70	Mitterer 2010	10197	Cape Canaveral	Mitterer ref no 47	28.46242777	-80.76382979	5000	rmm	communicated from Mitterer July 2010 loc plot using township range descrip
71	Mitterer 2010	10198	Cape Canaveral	Mitterer D1	28.34231741	-80.72012221	5000	rmm	communicated from Mitterer July 2010 loc plot using township range descrip
72									
73									
74									"rmm" means locality information uncertain or absent
75			UPDATED JULY 14 2014						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2														
3														
4	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Analysis	Notes and/or Reference	SurfElev_m	SampledFrom	OverBurdenThickness_m	LengthOfSection_m	TidalFactor
5	Otvos	10079	Carrabelle	Carbody Road	29.86577	-84.74146	1000	UDEL	Otvos collected; sent to UDEL					
6	Otvos	10079	Carrabelle	Carbody Road	29.86577	-84.74146	1000	UDEL	Otvos collected; sent to UDEL					
7	Otvos	10079	Carrabelle	Carbody Road	29.86577	-84.74146	1000	UDEL	Otvos collected; sent to UDEL					
8	Otvos	10079	Carrabelle	Carbody Road	29.86577	-84.74146	1000	UDEL	Otvos collected; sent to UDEL					
9	Otvos	10079	Carrabelle	Carbody Road	29.86577	-84.74146	1000	UDEL	Otvos collected; sent to UDEL					
10	Otvos	10079	Carrabelle	Carbody Road	29.86577	-84.74146	1000	UDEL	Otvos collected; sent to UDEL					
11														
12														
13														
14							reviewed July 14 2014							

	O	P	Q	R	S	T	U	V	W	X	Y	Z
1												
2												
3												
4	SamplingType	SmpIdIntTop_m	SmpIdIntBot_m	SampleID	SampleType	SSProcedureID	SSLabel	Fraction	SSDescrip	LabName	AnalysisMethodID	AnalDescrip
5				jw92-052-2	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC	AAR Gas Chromatographic analysis
6				jw92-52-1	Chione	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography
7				JW92-52-1 Total	Chione	SAART	AAR-Standard	Total AA		UDEL	GC	AAR Gas Chromatographic analysis
8				jw92-52-2	Chione	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography
9				jw92-52-3	Chione	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography
10				jw92-53-4	Chione	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography
11												
12												
13												
14												

Updated Nov. 9 2013

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1								
2								
3								
4	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Analysis
5	Belknap	10003	Charlotte Harbor	Pine Island North	26.6047	-82.1511	1000	USF/UM
6	Belknap	10004	Charlotte Harbor	Pine Island South	26.6047	-82.1511	1000	USF/UM
7								
8	McCartan	10085	Charlotte Harbor	Punta Gorda	26.9170	-82.0512	1000	UDEL
9	McCartan	10085	Charlotte Harbor	Punta Gorda	26.9170	-82.0512	1000	UDEL
10	McCartan	10085	Charlotte Harbor	Punta Gorda	26.9170	-82.0512	1000	UDEL
11	McCartan	10085	Charlotte Harbor	Punta Gorda	26.9170	-82.0512	1000	UDEL
12								
13	Karrow	10136	Charlotte Harbor	FK-38 Ballard Shell Pit	26.7069	-82.0439	300	USF
14	Karrow	10136	Charlotte Harbor	FK-38 Ballard Shell Pit	26.7069	-82.0439	300	USF
15	Karrow	10136	Charlotte Harbor	FK-38 Ballard Shell Pit	26.7069	-82.0439	300	UM
16	Karrow	10138	Charlotte Harbor	FK-41 Shell and Fill Pit	26.9213	-82.0094	375	USF
17	Karrow	10138	Charlotte Harbor	FK-41 Shell and Fill Pit	26.9213	-82.0094	375	USF
18	Karrow	10138	Charlotte Harbor	FK-41 Shell and Fill Pit	26.9213	-82.0094	375	USF
19	Karrow	10138	Charlotte Harbor	FK-41 Shell and Fill Pit	26.9213	-82.0094	375	USF
20	Karrow	10138	Charlotte Harbor	FK-41 Shell and Fill Pit	26.9213	-82.0094	375	USF
21	Karrow	10138	Charlotte Harbor	FK-41 Shell and Fill Pit	26.9213	-82.0094	375	USF
22	Karrow	10138	Charlotte Harbor	FK-41 Shell and Fill Pit	26.9213	-82.0094	375	USF
23	Karrow	10138	Charlotte Harbor	FK-41 Shell and Fill Pit	26.9213	-82.0094	375	USF
24	Karrow	10138	Charlotte Harbor	FK-41 Shell and Fill Pit	26.9213	-82.0094	375	UM
25								
26	Karrow	10140	Charlotte Harbor	FK-43 APAC Pit	26.9301	-82.0032	250	USF
27	Karrow	10140	Charlotte Harbor	FK-43 APAC Pit	26.9301	-82.0032	250	USF
28	Karrow	10140	Charlotte Harbor	FK-43 APAC Pit	26.9301	-82.0032	250	USF
29	Karrow	10140	Charlotte Harbor	FK-43 APAC Pit	26.9301	-82.0032	250	USF
30	Karrow	10140	Charlotte Harbor	FK-43 APAC Pit	26.9301	-82.0032	250	USF
31	Karrow	10140	Charlotte Harbor	FK-43 APAC Pit	26.9301	-82.0032	250	USF
32	Karrow	10140	Charlotte Harbor	FK-43 APAC Pit	26.9301	-82.0032	250	UM
33								
34	Karrow	10145	Charlotte Harbor	FK-49 Engelwood	26.9388	-82.2956	125	USF
35	Karrow	10145	Charlotte Harbor	FK-49 Engelwood	26.9388	-82.2956	125	USF
36	Karrow	10145	Charlotte Harbor	FK-49 Engelwood	26.9388	-82.2956	125	USF
37	Karrow	10145	Charlotte Harbor	FK-49 Engelwood	26.9388	-82.2956	125	USF/UM
38								
39	Oches	10153	Charlotte Harbor	Philman Pit 1	26.9125	-82.3080	100	USF
40	Oches	10153	Charlotte Harbor	Philman Pit 1	26.9125	-82.3080	100	USF
41	Oches	10153	Charlotte Harbor	Philman Pit 1	26.9125	-82.3080	100	USF
42	Oches	10153	Charlotte Harbor	Philman Pit 1	26.9125	-82.3080	100	USF
43	Oches	10153	Charlotte Harbor	Philman Pit 1	26.9125	-82.3080	100	USF
44								
45	Oches	10153a	Charlotte Harbor	Philman Pit 2	26.9125	-82.3080	100	USF
46	Oches	10153a	Charlotte Harbor	Philman Pit 2	26.9125	-82.3080	100	USF
47	Oches	10153a	Charlotte Harbor	Philman Pit 2	26.9125	-82.3080	100	USF
48	Oches	10153a	Charlotte Harbor	Philman Pit 2	26.9125	-82.3080	100	USF
49	Oches	10153a	Charlotte Harbor	Philman Pit 2	26.9125	-82.3080	100	USF
50	Oches	10153a	Charlotte Harbor	Philman Pit 2	26.9125	-82.3080	100	USF
51	Oches	10153a	Charlotte Harbor	Philman Pit 2	26.9125	-82.3080	100	USF
52	Oches	10153a	Charlotte Harbor	Philman Pit 2	26.9125	-82.3080	100	USF
53	Oches	10153a	Charlotte Harbor	Philman Pit 2	26.9125	-82.3080	100	USF
54	Oches	10153a	Charlotte Harbor	Philman Pit 2	26.9125	-82.3080	100	USF
55	Oches	10153a	Charlotte Harbor	Philman Pit 2	26.9125	-82.3080	100	USF
56	Oches	10153a	Charlotte Harbor	Philman Pit 2	26.9125	-82.3080	100	USF
57	Oches	10153a	Charlotte Harbor	Philman Pit 2	26.9125	-82.3080	100	USF
58								
59	Belknap	10205	Charlotte Harbor	CH core 28	26.8188	-82.0820	300	UM
60	Belknap	10207	Charlotte Harbor	CH core 15	26.6666	-82.2311	300	UM
61	Belknap	10207	Charlotte Harbor	CH core 15	26.6666	-82.2311	300	UM

	A	B	C	D	E	F	G	H
62	Belknap	10208	Charlotte Harbor	CH core 7	26.6460	-82.1044	300	UM
63	Belknap	10209	Charlotte Harbor	CH core 18	26.8104	-82.2625	300	UM
64	Belknap	10210	Charlotte Harbor	CH core 19	26.7848	-82.2526	300	UM
65	Belknap	10211	Charlotte Harbor	CH core 5	26.5556	-82.0720	300	UM
66	Belknap	10212	Charlotte Harbor	CH core 8	26.5029	-82.1176	300	UM
67	Belknap	10212	Charlotte Harbor	CH core 8	26.5029	-82.1176	300	UM
68	Belknap	10214	Charlotte Harbor	CH core 11	26.5883	-82.1461	300	UM
69	Belknap	10215	Charlotte Harbor	CH core 12	26.5979	-82.1989	300	UM
70								
71	Belknap	10208	Charlotte Harbor	CH core 07 -251	26.64598163	-82.10441794	300	UM
72	Belknap	10213	Charlotte Harbor	CH core 09 -343	26.4817	-82.1483	300	UM
73	Belknap	10213	Charlotte Harbor	CH core 09 -495	26.4817	-82.1483	300	UM
74	Belknap	10214	Charlotte Harbor	CH core 11 -365	26.58834277	-82.14614409	300	UM
75	Belknap	10210	Charlotte Harbor	CH core 19 -417	26.78480993	-82.25260817	300	UM
76	Belknap	10204	Charlotte Harbor	CH core 25 -402	26.9000	-82.1000	300	UM
77	Belknap	10206	Charlotte Harbor	CH core 27 -375	26.8230	-82.0717	300	UM
78	Belknap	10205	Charlotte Harbor	CH core 28 -205	26.81883334	-82.08199009	300	UM
79	Belknap	10208	Charlotte Harbor	CH core 07 -120	26.64598163	-82.10441794	300	UM
80								
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93			UPDATED NOV 8 2013					
94			REVIEWED JULY 14 2014					
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99			OTHER LOCALITIES					
100								
101								
102	Source	UDAMS	LocalityID	Map100k	Lat	Long	Coordinate_precision_m	Lab/Result
103	Oches	10119	Handyphil #1	Charlotte Harbor	26.9125	-82.3080	100	USF AAR
104	Oches	10120	Handyphil #2	Charlotte Harbor	26.9111	-82.3094	100	USF AAR
105	Karrow	10136	FK-38 Ballard Shell Pit	Charlotte Harbor	26.7069	-82.0439	300	USF/UM AAR
106	Karrow	10138	FK-41 Shell and Fill Pit	Charlotte Harbor	26.9213	-82.0094	375	USF/UM AAR
107	Karrow	10140	FK-43 APAC Pit	Charlotte Harbor	26.9301	-82.0032	250	USF/UM AAR
108	Karrow	10145	FK-49 Engelwood	Charlotte Harbor	26.9388	-82.2956	125	USF/UM AAR
109	McCartan	10085	Punta Gorda	Charlotte Harbor	26.9170	-82.0512	1000	UDEL
110	Belknap	10003	Pine Island North	Charlotte Harbor	26.6047	-82.1511	1000	USF/UM AAR
111	Belknap	10004	Pine Island South	Charlotte Harbor	26.6047	-82.1511	1000	USF/UM AAR
112	Mitterer	10006	Mitterer 2	Charlotte Harbor	26.8390	-82.0270	rmm	UT/CIW
113	Mitterer	10036	Mitterer 32	Charlotte Harbor	26.8390	-82.0270	rmm	UT/CIW
114	Mitterer	10037	Mitterer 33	Charlotte Harbor	26.8390	-82.0270	rmm	UT/CIW
115	Oches	10153a	Philman Pit 2	Charlotte Harbor	26.9125	-82.3080	100	USF AAR
116	Oches	10153	Philman Pit 1	Charlotte Harbor	26.9125	-82.3080	100	USF AAR
117	Belknap	10204	CH core 25	Charlotte Harbor	26.9242	-82.0985	300	USF/UM AAR
118	Belknap	10205	CH core 28	Charlotte Harbor	26.8188	-82.0820	300	USF/UM AAR
119	Belknap	10206	CH core 27	Charlotte Harbor	26.7222	-82.0967	300	USF/UM AAR
120	Belknap	10207	CH core 15	Charlotte Harbor	26.6666	-82.2311	300	USF/UM AAR
121	Belknap	10208	CH core 7	Charlotte Harbor	26.6460	-82.1044	300	USF/UM AAR
122	Belknap	10209	CH core 18	Charlotte Harbor	26.8104	-82.2625	300	USF/UM AAR

	A	B	C	D	E	F	G	H
123	Belknap	10210	CH core 19	Charlotte Harbor	26.7848	-82.2526	300	USF/UM AAR
124	Belknap	10211	CH core 5	Charlotte Harbor	26.5556	-82.0720	300	USF/UM AAR
125	Belknap	10212	CH core 8	Charlotte Harbor	26.5029	-82.1176	300	USF/UM AAR
126	Belknap	10213	CH core 9	Charlotte Harbor	26.4869	-82.1489	300	USF/UM AAR
127	Belknap	10214	CH core 11	Charlotte Harbor	26.5883	-82.1461	300	USF/UM AAR
128	Belknap	10215	CH core 12	Charlotte Harbor	26.5979	-82.1989	300	USF/UM AAR

	J	K	L	M	N	O	P	Q
62	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map							Offshore Core
63	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map							Offshore Core
64	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map							Offshore Core
65	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map							Offshore Core
66	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map							Offshore Core
67	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map							Offshore Core
68	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map							Offshore Core
69	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map							Offshore Core
70								
71	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map	DFB87-07						Offshore Core
72	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map	DFB87-10						Offshore Core
73	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map	DFB87-11						Offshore Core
74	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map	DFB87-13						Offshore Core
75	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map	DFB87-18						Offshore Core
76	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map	DFB87-20						Offshore Core
77	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map	DFB87-21						Offshore Core
78	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map	DFB87-22						Offshore Core
79	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map	DFB87-24						Offshore Core
80								
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102	Notes and/or Reference							
103	Philman Pit May 2001					analysis		
104	Philman Pit May 2001					USF		
105	karrow notes portell reviewed locality info +/- 300 M					USF		
106	karrow notes portell reviewed locality info +/- 375 M					usf rp and usf/um		
107	karrow notes portell reviewed locality info +/- 250 M					usf rp and usf/um		
108	karrow notes portell reviewed locality info +/- 125 m originally labeled El Jobean					usf rp and usf/um		
109	McCartan					UD		
110	jfw approx loc					usf/um		
111	jfw approx loc					usf/um		
112	Approx loc; see Mitterer list					rmm		
113	Approx loc; see Mitterer list					rmm		
114	Approx loc; see Mitterer list					rmm		
115	Tiling 5					usf rp		
116	Tiling 5					usf rp		
117	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map					usf/um		
118	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map					usf/um		
119	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map					usf/um		
120	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map					usf/um		
121	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map					usf/um		
122	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map					usf/um		

	I	J	K	L	M	N	O	P	Q
123	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map						usf/um		
124	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map						usf/um		
125	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map						usf/um		
126	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map						usf/um		
127	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map						usf/um		
128	Evans et al. 1989 Marine Geology 88 p 319 core plotted from published map						usf/um		

	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1												
2												
3												
4	SmpIdIntTop_m	SmpIdIntBot_m	SampleID	SampleType	SSProcedureID	SSLabel	Fraction	SSDescrip	LabName	AnalysisMethodID	AnalDescrip	SubSampleID
5			dfb81-67	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC	AAR Gas Chromatographic analysis	dfb81-67
6			dfb81-68	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC	AAR Gas Chromatographic analysis	dfb81-68
7												
8			jw92-39a	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography	950046
9			jw92-39a	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography	950046
10			jw92-39b	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography	950047
11			jw92-39b	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography	950047
12												
13			0692AH1	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0692AH1
14			0692BH1	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0692BH1
15			dfb91-53	Mercenaria	SAART	AAR-Standard	Total AA		UM	GC	AAR Gas Chromatographic analysis	dfb91-53
16			0578AH1	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0578AH1
17			0578CH1	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0578CH1
18			0624AH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0624AH1
19			0624BH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0624BH1
20			0624CH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0624CH1
21			0632AH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0632AH1
22			0632BH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0632BH1
23			0632CH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0632CH1
24			DFB91-55	Mercenaria	UM	GC	Total AA		UM	GC	AAR Gas Chromatographic analysis	DFB91-55
25												
26			0580AH1	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0580AH1
27			0580BH1	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0580BH1
28			0580CH1	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0580CH1
29			0623AH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0623AH1
30			0623BH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0623BH1
31			0623CH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0623CH1
32			dfb91-57	Mercenaria	SAART	AAR-Standard	Total AA		UM	GC	AAR Gas Chromatographic analysis	dfb91-57
33												
34			0628AH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0628AH1
35			0628BH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0628BH1
36			0628CH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0628CH1
37			dfb91-62	Mercenaria	SAART	AAR-Standard	Total AA		UM	GC	AAR Gas Chromatographic analysis	dfb91-62
38												
39			0770H	chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0770H
40			0771H	chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0771H
41			0772H	chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0772H
42			0773H	chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0773H
43			0775H	chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0775H
44												
45			0539 BH1	chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0539 BH1
46			0539 ah1	chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0539 ah1
47			0539 CH1	chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0539 CH1
48			0539 DH1	chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0539 DH1
49			0776H	chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0776H
50			0777H	chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0777H
51			0778H	chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0778H
52			0779H	chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0779H
53			0780H	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0780H
54			0781H	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0781H
55			0782H	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0782H
56			0783H	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0783H
57			0784H	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0784H
58												
59			230 cm	chione	SAART	AAR-Standard	Total AA		UM	GC	AAR Gas Chromatographic analysis	DFB87-23
60			317 cm	chione	SAART	AAR-Standard	Total AA		UM	GC	AAR Gas Chromatographic analysis	DFB87-15
61			708 cm	chione	SAART	AAR-Standard	Total AA		UM	GC	AAR Gas Chromatographic analysis	DFB87-16

	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU
1																		
2																		
3																		
4	SamplePosition	SSCreationDate	SSPrecursor	RatioType	allo-Isoleucine	Alanine	Aspartic Acid	Glutamic Acid	Leucine	Phenylalanine	Proline	Valine	V LPG	Ala_Asp	Val_Leu	Comments		
5		7/10/2009		Area		0.900	0.950	0.680	0.800	0.830	0.880	0.730	0.760	0.925	0.765	LATE MIDDLE		
6		7/10/2009		Area		0.940	0.875	0.660	0.800	0.870	0.850	0.710	0.760	0.908	0.755	PLEISTOCENE?		
7																		
8				Area	1.180													
9				Height	1.310													
10				Area	1.185													
11				Height	1.299													
12																		
13		4/30/2008		Area			0.826	0.829		0.621		0.988						
14		4/30/2008		Area			0.870	0.947		0.914		1.029						
15		1/24/2008		Area		0.950	0.870	0.940	0.840	0.920	0.750	0.840						
16		4/30/2008		Area			0.888	0.854		1.160		1.240						
17		4/30/2008		Area			0.955	0.872		1.132		1.027						
18		4/30/2008		Area			0.805	0.073		1.240		0.263						
19		4/30/2008		Area			0.766	0.952		0.505		0.217						
20		4/30/2008		Area			0.853	0.849		0.263		0.702						
21		4/30/2008		Area			0.835	0.799		1.074		1.500						
22		4/30/2008		Area			0.917	0.836		1.010		1.353						
23		4/30/2008		Area			0.809	0.777		1.500		1.296						
24				Area			0.990	0.980	ND		0.810	0.840						
25																		
26		4/30/2008		Area			0.855	0.806		1.080		1.180						
27		4/30/2008		Area			0.864	0.818		1.010		1.150						
28		4/30/2008		Area			0.757	0.731		0.691		1.207						
29		4/30/2008		Area			0.838	0.799		0.793		0.805						
30		4/30/2008		Area			0.878	0.893		1.500		0.686						
31		4/30/2008		Area			0.850	0.875		0.678		0.652						
32		1/24/2008		Area		0.960	0.890	0.750	0.630	0.880	0.800	0.780						
33																		
34		4/30/2008		Area			0.806	0.649		0.892		0.721						
35		4/30/2008		Area			0.843	0.657		0.930		0.772						
36		4/30/2008		Area			0.813	0.639		0.875		0.694						
37		1/24/2008		Area		0.900	0.850	0.590	0.671	0.820	0.650	0.630						
38																		
39		4/7/2008		Area			0.810	0.649				0.886						
40		4/7/2008		Area			0.769	0.525		0.882		0.821						
41		4/7/2008		Area			0.854	0.754		0.781		1.014						
42		4/7/2008		Area			0.861	0.739		0.987		0.944						
43		4/7/2008		Area			0.756	0.649		0.978		0.876						
44																		
45		4/7/2008		Area			0.810	0.930		0.862		1.000						
46		4/7/2008		Area			0.830			0.798		1.000						
47		4/7/2008		Area			0.780	0.910		0.761		0.950						
48		4/7/2008		Area			0.790	0.810				0.980						
49		4/7/2008		Area			0.921	0.787		0.875		1.006						
50		4/7/2008		Area			0.875	0.901		1.032		0.993						
51		4/7/2008		Area			0.859	0.882		0.981		0.986						
52		4/7/2008		Area			0.816	0.848		1.021		0.984						
53		4/7/2008		Area			0.798	0.567		0.778		0.855						
54		4/7/2008		Area			0.590	0.646		0.665		0.863						
55		4/7/2008		Area			0.909	0.904		0.990		1.140						
56		4/7/2008		Area			0.808	0.770		1.095		0.938						
57		4/7/2008		Area			0.996	0.725				1.011						
58																		
59		3/31/2012		Area		0.940	0.800	0.600	0.730	0.730	0.560	0.730						
60		3/31/2012		Area		0.370	0.470	0.150	0.150	0.310		0.160						
61		3/31/2012		Area		0.840	0.720	0.580	0.820	0.650	0.760	0.790						

ALL THESE SHOULD BE CONSIDERED NE
CHIONE SHOWING LOWER D/L THAN MER
EARLY PLEISTOCENE?

ALL THESE SHOULD BE CONSIDERED NE
CHIONE SHOWING LOWER D/L THAN MER
EARLY PLEISTOCENE?

LATE MIDDLE PLEISTOCENE
PERHAPS LAST INTERGLACIAL

LATE MIDDLE PLEISTOCENE?

PHILMAN PIT 2 SAMPLES ARE RACEMIC
EARLY PLEISTOCENE

EARLY PLEISTOCENE
HOLOCENE
EARLY PLEISTOCENE

	AV	AW
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9		
10		
11		
12		
13		
14		
15		
16		
17	AR RACEMIC	
18	CENARIA	
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26		
27	AR RACEMIC	
28	CENARIA	
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	A	B	C	D	E	F	G	H
1								
2			DATA					
3								
4	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Analysis
5	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
6	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
7	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
8	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
9	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
10	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
11	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
12	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
13	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
14	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
15	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
16	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
17	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
18	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
19	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
20								
21	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
22	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
23	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
24	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
25	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
26	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
27	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
28	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
29	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
30	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
31	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
32	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
33	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
34	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
35	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
36	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
37	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
38	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
39								
40								
41	Belknap	10159	Daytona Beach	Graham Swamp	29.4789	-81.1736	300	UDEL
42	Belknap	10159	Daytona Beach	Graham Swamp	29.4789	-81.1736	300	UDEL
43	Belknap	10159	Daytona Beach	Graham Swamp	29.4789	-81.1736	300	UDEL
44	Belknap	10159	Daytona Beach	Graham Swamp	29.4789	-81.1736	300	UDEL
45	Belknap	10159	Daytona Beach	Graham Swamp	29.4789	-81.1736	300	UDEL
46								
47	Belknap	10160	Daytona Beach	Ormand Beach	29.2884	-81.0904	100	UDEL
48	Belknap	10160	Daytona Beach	Ormand Beach	29.2884	-81.0904	100	UDEL
49	Belknap	10160	Daytona Beach	Ormand Beach	29.2884	-81.0904	100	UDEL
50	Belknap	10160	Daytona Beach	Ormand Beach	29.2884	-81.0904	100	UDEL
51	Belknap	10160	Daytona Beach	Ormand Beach	29.2884	-81.0904	100	UDEL
52	Belknap	10160	Daytona Beach	Ormand Beach	29.2884	-81.0904	100	UDEL
53	Belknap	10160	Daytona Beach	Ormand Beach	29.2884	-81.0904	100	UDEL
54	Belknap	10160	Daytona Beach	Ormand Beach	29.2884	-81.0904	100	UDEL
55	Belknap	10160	Daytona Beach	Ormand Beach	29.2884	-81.0904		
56								
57	Belknap	10161	Daytona Beach	Spruce Creek	29.1328	-81.0239	100	UDEL
58	Belknap	10161	Daytona Beach	Spruce Creek	29.1328	-81.0239	100	UDEL
59	Belknap	10161	Daytona Beach	Spruce Creek	29.1328	-81.0239	100	UDEL

	A	B	C	D	E	F	G	H
60	Belknap	10161	Daytona Beach	Spruce Creek	29.1328	-81.0239	100	UDEL
61								
62								
63								
64	Mitterer	MNF1	Daytona Beach	RMM NF 1	29.6700	-81.2500	RMM	UT/CIW
65	Mitterer	MNF2	Daytona Beach	RMM NF 2	29.6700	-81.2500	RMM	UT/CIW
66	Mitterer	MNF3	Daytona Beach	RMM NF 3	29.6700	-81.2500	RMM	UT/CIW
67	Mitterer	MNF4	Daytona Beach	RMM NF 4	29.6700	-81.2500	RMM	UT/CIW
68								
69								
70								
71			OTHER LOCALITIES					
72								
73								
74	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Lab/Result
75	FLMNH	10100	Daytona Beach	Daytona Beach	29.1575	-81.0204	100	UDEL
76	McNeill	10074	Daytona Beach	Rock Pit	29.4695	-81.1684	200	UDEL
77	McNeill	10075	Daytona Beach	near Rock Pit	29.4695	-81.1684	200	UDEL
78	Mitterer	10016	Daytona Beach	Mitterer 12	29.0800	-81.0000	rmm	UT/CIW
79	Mitterer	MNF1	Daytona Beach	RMM NF 1	29.6700	-81.2500	rmm	UT/CIW
80	Mitterer	MNF2	Daytona Beach	RMM NF 2	29.6700	-81.2500	rmm	UT/CIW
81	Mitterer	MNF3	Daytona Beach	RMM NF 3	29.6700	-81.2500	rmm	UT/CIW
82	Mitterer	MNF4	Daytona Beach	RMM NF 4	29.6700	-81.2500	rmm	UT/CIW
83	Belknap	10159	Daytona Beach	Graham Swamp	29.4789	-81.1736	300	UDEL
84	Belknap	10160	Daytona Beach	Ormand Beach	29.2884	-81.0904	100	UDEL
85	Belknap	10161	Daytona Beach	Spruce Creek	29.1328	-81.0239	100	UDEL
86	Hollin Hearty 1990	HHF	Daytona Beach	Flagler Beach	29.4700	-81.1400	xxx	COLO
87	Mitterer 2010	10201	Daytona Beach	Mitterer FSM 5 Bunnell	29.4769	-81.2412	3000	UT/CIW
88	Mitterer 2010	10202	Daytona Beach	Mitterer 85o	29.4680	-81.2294	3000	UT/CIW
89								
90							"rmm means localities not known"	
91							xxx - no locality information available	
92			updated Nov. 9 2013					
93								
94			REVIEWED JULY 17 2014					

	I	J	K	L	M	N
1						
2						
3						
4	Notes and/or Reference	SurfElev_m	SampledFrom	OverBurdenThickness_m	LengthOfSection_m	TidalFactor
5	McNeill letter 5/86 jfw mod 1/29/08					
6	McNeill letter 5/86 jfw mod 1/29/08					
7	McNeill letter 5/86 jfw mod 1/29/08					
8	McNeill letter 5/86 jfw mod 1/29/08					
9	McNeill letter 5/86 jfw mod 1/29/08					
10	McNeill letter 5/86 jfw mod 1/29/08					
11	McNeill letter 5/86 jfw mod 1/29/08					
12	McNeill letter 5/86 jfw mod 1/29/08					
13	McNeill letter 5/86 jfw mod 1/29/08					
14	McNeill letter 5/86 jfw mod 1/29/08					
15	McNeill letter 5/86 jfw mod 1/29/08					
16	McNeill letter 5/86 jfw mod 1/29/08					
17	McNeill letter 5/86 jfw mod 1/29/08					
18	McNeill letter 5/86 jfw mod 1/29/08					
19	McNeill letter 5/86 jfw mod 1/29/08					
20						
21	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
22	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
23	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
24	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
25	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
26	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
27	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
28	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
29	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
30	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
31	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
32	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
33	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
34	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
35	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
36	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
37	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010					
38	U-Th coral analysis Bill Thompson WHOI 118.4 +/- 0.2 ka					
39						
40						
41	GSFL OF DFB 8/18/09 REVISED					
42	GSFL OF DFB 8/18/09 REVISED					
43	GSFL OF DFB 8/18/09 REVISED					
44	GSFL OF DFB 8/18/09 REVISED					
45	GSFL OF DFB 8/18/09 REVISED					
46						
47	OBFL OF DFB 8/18/09 REVISED Roughly equiv. to OBF collected by James May 1979					
48	OBFL OF DFB 8/18/09 REVISED Roughly equiv. to OBF collected by James May 1979					
49	OBFL OF DFB 8/18/09 REVISED Roughly equiv. to OBF collected by James May 1979					
50	OBFL OF DFB 8/18/09 REVISED Roughly equiv. to OBF collected by James May 1979					
51	OBFL OF DFB 8/18/09 REVISED Roughly equiv. to OBF collected by James May 1979					
52	OBFL OF DFB 8/18/09 REVISED Roughly equiv. to OBF collected by James May 1979					
53	OBFL OF DFB 8/18/09 REVISED Roughly equiv. to OBF collected by James May 1979					
54	OBFL OF DFB 8/18/09 REVISED Roughly equiv. to OBF collected by James May 1979					
55						
56						
57	SCFL of DFB 8/18/09 revised					
58	SCFL of DFB 8/18/09 revised					
59	SCFL of DFB 8/18/09 revised					

	I	J	K	L	M	N
60	SCFL of DFB 8/18/09 revised					
61						
62						
63						
64	GSA 227 GENERAL GROUP					
65	GSA 227 GENERAL GROUP					
66	GSA 227 GENERAL GROUP					
67	GSA 227 GENERAL GROUP					
68						
69						
70						
71						
72						
73						
74	Notes and/or Reference				analysis	
75	Sr analysis; Portell to Wehmiller; FLMNH 84379 Collection from James May to DF Belknap 1979; samples at UD June 2010				ud usf rplc	
76	McNeill letter 5/86 jfw mod 1/29/08				ud	
77	McNeill letter 5/86 jfw mod 1/29/08				ud	
78	Approx loc; see Mitterer list				rmm	
79	GSA 227 GENERAL GROUP				rmm	
80	GSA 227 GENERAL GROUP				rmm	
81	GSA 227 GENERAL GROUP				rmm	
82	GSA 227 GENERAL GROUP				rmm	
83	GSFL OF DFB 8/18/09 REVISED				usf/um and UD	
84	OBFL OF DFB 8/18/09 REVISED Roughly equiv. to OBF collected by James May 1979				usf/um and UD	
85	SCFL of DFB 8/18/09 revised				usf/um	
86	Hollin and Hearty 1990				Colo	
87	FSM5 Bunnell A/I 0.56 Approx loc only data communicated to jfw summer 2010				rmm	
88	FSM 298 Bunnell A/I 0.60 loc only approx data communicated to JFW summer 2010				rmm	
89						
90						
91						
92						
93						
94						

	O	P	Q	R	S	T	U	V	W	X	Y
1											
2											
3											
4	SamplingType	SmpIdIntTop_m	SmpIdIntBot_m	SampleID	SampleType	SSProcedureID	SSLLabel	Fraction	SSDescrip	LabName	AnalysisMethodID
5	Excavation/Exposure			jw86-239-1	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
6	Excavation/Exposure			jw86-239-1	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
7	Excavation/Exposure			jw86-239-1	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
8	Excavation/Exposure			jw86-239-1	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
9	Excavation/Exposure			jw86-239-2	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
10	Excavation/Exposure			jw86-239-2	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
11	Excavation/Exposure			jw86-239-2	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
12	Excavation/Exposure			jw86-239-3	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
13	Excavation/Exposure			jw86-239-3	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
14	Excavation/Exposure			jw86-239-3	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
15	Excavation/Exposure			jw86-239-3	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
16	Excavation/Exposure			jw86-239-4	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
17	Excavation/Exposure			jw86-239-4	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
18	Excavation/Exposure			jw86-239-6	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
19	Excavation/Exposure			jw86-239-6	Mercenaria	IEXHPLC	AAR-Standard	Total		UDEL	HPLC
20											
21	Excavation/Exposure			JW99-034-001	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
22	Excavation/Exposure			JW99-034-001	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC
23	Excavation/Exposure			JW99-034-1 (Inner)	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
24	Excavation/Exposure			JW99-034-1 (Outer)	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
25	Excavation/Exposure			JW99-034-1 (Outer)	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
26	Excavation/Exposure			JW99-034-1 Free	Mercenaria	SAARF	AAR-Standard	Free AA		UDEL	GC
27	Excavation/Exposure			jw99-034-1 free	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC
28	Excavation/Exposure			jw99-034-1 tot (fr)	Mercenaria	SAARF	AAR-Standard	Free AA		UDEL	GC
29	Excavation/Exposure			jw99-034-1fr (tot)	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
30	Excavation/Exposure			JW99-034-2	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
31	Excavation/Exposure			JW99-034-2	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC
32	Excavation/Exposure			jw99-034-2 free	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC
33	Excavation/Exposure			jw2010-011a middle	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
34	Excavation/Exposure			jw2010-011b	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
35	Excavation/Exposure			jw2010-011b	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
36	Excavation/Exposure			jw2010-011c	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
37	Excavation/Exposure			jw2010-011c	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
38											
39											
40											
41	Excavation/Exposure			dfb82-134	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
42	Excavation/Exposure			dfb82-134	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
43	Excavation/Exposure			dfb82-134	Mercenaria	SAART	AAR-Standard	Total AA		UM	GC
44	Excavation/Exposure			dfb82-135	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
45	Excavation/Exposure			dfb82-135	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
46											
47	Excavation/Exposure			dfb79-14a	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
48	Excavation/Exposure			dfb79-14b	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
49	Excavation/Exposure			dfb79-14b	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
50	Excavation/Exposure			jw2010-010-001	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
51	Excavation/Exposure			jw2010-010-001	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
52	Excavation/Exposure			jw2010-010-001	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
53	Excavation/Exposure			jw2010-010-001	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
54	Excavation/Exposure			jw2010-010-002	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
55	Excavation/Exposure			jw2010-010-002	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
56											
57	Excavation/Exposure			dfb82-138	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
58	Excavation/Exposure			dfb82-138	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC
59	Excavation/Exposure			dfb82-138	Mercenaria	SAART	AAR-Standard	Total AA		UM	GC

	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN
1															
2															
3															
4	AnalDescrip	SubSampleID	SamplePosition	SSCreationDate	SSPrecursor	RatioType	allo-Isoleucine	Alanine	Aspartic Acid	Glutamic Acid	Leucine	Phenylalanine	Proline	Valine	V LPG
5	AAR High Pressure Liquid Chromatography	950082				Area	0.789								
6	AAR High Pressure Liquid Chromatography	950082				Height	0.750								
7	AAR High Pressure Liquid Chromatography	960022				Area	0.713								
8	AAR High Pressure Liquid Chromatography	960022				Height	0.793								
9	AAR High Pressure Liquid Chromatography	950083				Area	0.809								
10	AAR High Pressure Liquid Chromatography	950083				Height	0.950								
11	AAR High Pressure Liquid Chromatography	960023				Height	0.960								
12	AAR High Pressure Liquid Chromatography	950084				Area	0.908								
13	AAR High Pressure Liquid Chromatography	950084				Height	0.777								
14	AAR High Pressure Liquid Chromatography	960024				Area	0.779								
15	AAR High Pressure Liquid Chromatography	960024				Height	0.840								
16	AAR High Pressure Liquid Chromatography	950085				Area	0.831								
17	AAR High Pressure Liquid Chromatography	950085				Height	0.919								
18	AAR High Pressure Liquid Chromatography	950097				Area	0.636								
19	AAR High Pressure Liquid Chromatography	950097				Height	0.723								
20															
21	AAR Gas Chromatographic analysis	990057				Area	0.887	0.810	0.793	0.509	0.637	0.723		0.456	0.581
22	Reverse Phase Liquid Chromatography	2001046		6/21/2009		Area	0.691		0.869	0.524				0.743	
23	AAR Gas Chromatographic analysis	990065				Area	0.762	0.806	0.801	0.488	0.654	0.715		0.450	0.576
24	AAR Gas Chromatographic analysis	990066				Area	0.843	0.829	0.722	0.422	0.560	0.658		0.409	0.512
25	AAR Gas Chromatographic analysis	990066				Height	0.762				0.590				
26	AAR Gas Chromatographic analysis	990143				Area	1.287	0.901	0.908	0.564	0.877	0.940		0.570	0.738
27	Reverse Phase Liquid Chromatography	2001047		6/21/2009		Area	0.910		0.862	0.673				0.670	
28	AAR Gas Chromatographic analysis	990165				Area	1.209	0.886	0.906	0.567	0.863	0.951		0.583	0.741
29	AAR Gas Chromatographic analysis	990166				Area	0.810	0.792	0.788	0.491	0.632	0.703		0.451	0.569
30	AAR Gas Chromatographic analysis	990048				Area	0.748	0.806	0.741	0.450	0.602	0.668		0.438	0.539
31	Reverse Phase Liquid Chromatography	2001048		6/21/2009		Area	0.588		0.718	0.506				0.519	
32	Reverse Phase Liquid Chromatography	2001049		6/21/2009		Area	0.960		0.873	0.641				0.716	
33	AAR Gas Chromatographic analysis	2011028		1/13/2011		Area	0.682	0.907	0.773	0.559	0.679	0.743		0.505	0.621
34	AAR Gas Chromatographic analysis	2011029		1/13/2011		Area	0.581	0.931	0.750	0.502	0.607	0.691		0.443	0.561
35	AAR Gas Chromatographic analysis	2011029		1/13/2011		Height	0.606	0.964	0.784	0.505	0.618	0.678		0.443	0.561
36	AAR Gas Chromatographic analysis	2011008		1/18/2011		Area	0.566	0.810	0.786	0.443	0.552	0.640		0.413	0.512
37	AAR Gas Chromatographic analysis	2011008		1/18/2011		Height					0.568				
38															
39															
40															
41	AAR Gas Chromatographic analysis	2011035		5/9/2011		Area	1.138	1.020	0.890	0.751	0.884	0.924		0.782	0.835
42	AAR Gas Chromatographic analysis	2011035		5/9/2011		Height	1.167	1.046		0.727	0.883	0.879		0.764	0.813
43	AAR Gas Chromatographic analysis	dfb82-134				Area		0.930		0.640	0.800		0.800	0.700	
44	AAR Gas Chromatographic analysis	2011036		5/9/2011		Area	0.998	0.984	0.885	0.697	0.824	0.853		0.671	0.761
45	AAR Gas Chromatographic analysis	2011036		5/9/2011		Height				0.690	0.839			0.702	
46															
47	AAR Gas Chromatographic analysis	2011061	1	6/21/2011		Area	0.730	0.720		0.440	0.560		0.620	0.500	
48	AAR Gas Chromatographic analysis	2011058	5	6/21/2011		Area	0.630	0.895	0.772	0.506	0.636	0.706		0.471	0.580
49	AAR Gas Chromatographic analysis	2011058	5	6/21/2011		Height			0.795	0.522	0.639	0.688			
50	AAR Gas Chromatographic analysis	2011009		1/18/2011		Area	0.956	0.996	0.870	0.759	0.818	0.818		0.729	0.781
51	AAR Gas Chromatographic analysis	2011009		1/18/2011		Height				0.762	0.811	0.791		0.772	0.784
52	AAR Gas Chromatographic analysis	2011010		1/13/2011		Area	1.222	0.996	0.930	0.845	0.892	0.909		0.793	0.860
53	AAR Gas Chromatographic analysis	2011010		1/13/2011		Height	1.277	1.091	0.908	0.807	0.902	0.885		0.817	0.853
54	AAR Gas Chromatographic analysis	2011030		1/13/2011		Area	0.778	1.080	0.856	0.754	0.697	0.756		0.554	0.690
55	AAR Gas Chromatographic analysis	2011030		1/13/2011		Height	0.845	1.235		0.664	0.710	0.733		0.589	0.674
56															
57	AAR Gas Chromatographic analysis	2011038		5/9/2011		Area	1.063	0.999	0.904	0.709	0.843	0.893		0.722	0.792
58	AAR Gas Chromatographic analysis	2011038		5/9/2011		Height	1.081	1.104			0.853			0.731	
59	AAR Gas Chromatographic analysis	dfb82-138				Area		0.950		0.640	0.760		0.750	0.710	

	A	B	C	D	E	F	G	H
1								
2								
3			DATA					
4								
5	SOURCE	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Analysis
6	McCartan	10082	Fort Myers	Lakeport	26.9416	-81.132	2000	UDEL
7	McCartan	10082	Fort Myers	Lakeport	26.9416	-81.132	2000	UDEL
8	McCartan	10082	Fort Myers	Lakeport	26.9416	-81.132	2000	UDEL
9								
10								
11	McCartan	10087	Fort Myers	Summerlin College Ft Meyers	26.55628	-81.8854	500	UDEL
12	McCartan	10087	Fort Myers	Summerlin College Ft Meyers	26.55628	-81.8854	500	UDEL
13	McCartan	10087	Fort Myers	Summerlin College Ft Meyers	26.55628	-81.8854	500	UDEL
14	McCartan	10087	Fort Myers	Summerlin College Ft Meyers	26.55628	-81.8854	500	UDEL
15								
16								
17								
18	FLMNH	10124	Fort Myers	Coffee Mill Hammock	26.7888	-81.305	200	UDEL
19	FLMNH	10124	Fort Myers	Coffee Mill Hammock	26.7888	-81.305	200	UDEL
20	FLMNH	10124	Fort Myers	Coffee Mill Hammock	26.7888	-81.305	200	UDEL
21	FLMNH	10124	Fort Myers	Coffee Mill Hammock	26.7888	-81.305	200	UDEL
22	FLMNH	10125	Fort Myers	Coffee Mill Hammock	26.7888	-81.305	200	UDEL
23	FLMNH	10125	Fort Myers	Coffee Mill Hammock	26.7888	-81.305	200	UDEL
24	FLMNH	10125	Fort Myers	Coffee Mill Hammock	26.7888	-81.305	200	UDEL
25	FLMNH	10125	Fort Myers	Coffee Mill Hammock	26.7888	-81.305	200	UDEL
26	FLMNH	10125	Fort Myers	Coffee Mill Hammock	26.7888	-81.305		
27								
28								
29								
30								
31								
32	Karrow	10137	Fort Myers	FK-40 Punta Gorda trailer park	26.899861	-81.991145	300	USF
33	Karrow	10137	Fort Myers	FK-40 Punta Gorda trailer park	26.899861	-81.991145	300	USF
34	Karrow	10137	Fort Myers	FK-40 Punta Gorda trailer park	26.899861	-81.991145	300	USF
35								
36								
37	Karrow	10137	Fort Myers	FK-40 Punta Gorda trailer park	26.899861	-81.991145	300	USF
38	Karrow	10137	Fort Myers	FK-40 Punta Gorda trailer park	26.899861	-81.991145	300	USF
39	Karrow	10137	Fort Myers	FK-40 Punta Gorda trailer park	26.899861	-81.991145	300	USF
40	Karrow	10137	Fort Myers	FK-40 Punta Gorda trailer park	26.899861	-81.991145	300	USF
41	Karrow	10137	Fort Myers	FK-40 Punta Gorda trailer park	26.899861	-81.991145	300	USF
42	Karrow	10137	Fort Myers	FK-40 Punta Gorda trailer park	26.899861	-81.991145	300	USF
43								
44								
45								
46								
47								
48	Karrow	10139	Fort Myers	FK-42 Charles Lassett Pit	26.7479	-81.4537	300	USF
49	Karrow	10139	Fort Myers	FK-42 Charles Lassett Pit	26.7479	-81.4537	300	USF
50	Karrow	10139	Fort Myers	FK-42 Charles Lassett Pit	26.7479	-81.4537	300	USF
51	Karrow	10139	Fort Myers	FK-42 Charles Lassett Pit	26.7479	-81.4537	300	USF
52	Karrow	10139	Fort Myers	FK-42 Charles Lassett Pit	26.7479	-81.4537	300	USF
53	Karrow	10139	Fort Myers	FK-42 Charles Lassett Pit	26.7479	-81.4537	300	USF
54	Karrow	10139	Fort Myers	FK-42 Charles Lassett Pit	26.7479	-81.4537	300	UM
55								
56								
57								
58								
59	Karrow	10141	Fort Myers	FK-44 Gulfshore Seafood	26.8823	-81.9782	150	USF
60	Karrow	10141	Fort Myers	FK-44 Gulfshore Seafood	26.8823	-81.9782	150	USF
61	Karrow	10141	Fort Myers	FK-44 Gulfshore Seafood	26.8823	-81.9782	150	USF

	A	B	C	D	E	F	G	H
62	Karrow	10141	Fort Myers	FK-44 Gulfshore Seafood	26.8823	-81.9782	150	UM
63								
64								
65								
66								
67								
68	Karrow	10148	Fort Myers	FK-58 Highlands Co Pit	26.975364	-81.753151	450	USF
69								
70								
71								
72								
73			OTHER LOCALITIES					
74								
75	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Lab/Result
76	McCartan	10086	Fort Myers	Cochran Pit upper	26.7336	-81.4832	200	UDEL
77	Mitterer	10011	Fort Myers	Mitterer 7	26.74	-80.178	rmm	UT/CIW
78	Mitterer	10020	Fort Myers	Mitterer 16	26.788	-81.305	rmm	UT/CIW
79	Mitterer	10021	Fort Myers	Mitterer 17	26.674	-81.175	rmm	UT/CIW
80	Mitterer	10022	Fort Myers	Mitterer 18	26.674	-81.175	rmm	UT/CIW
81	Mitterer	10023	Fort Myers	Mitterer 19	26.788	-81.305	rmm	UT/CIW
82	Mitterer	10024	Fort Myers	Mitterer 20	26.674	-81.175	rmm	UT/CIW
83	Mitterer	10025	Fort Myers	Mitterer 21	26.674	-81.175	rmm	UT/CIW
84	Mitterer	10026	Fort Myers	Mitterer 22	26.788	-81.305	rmm	UT/CIW
85	Mitterer	10034	Fort Myers	Mitterer 30	26.53	-81.87	rmm	UT/CIW
86	Karrow	10173	Fort Myers	FK-39	26.808758	-81.777151	400	
87	Karrow	10179	Fort Myers	FK-57	27.0384	-81.8155	350	
88	Karrow	10180	Fort Myers	FK-57	27.0384	-81.8155	350	
89	Muhs	FL-18	Fort Myers	FL-18	26.9183	-82.0381	muhs 92	USGS U-Th
90	Muhs	FL-25	Fort Myers	FL-25	26.9752	-81.8103	muhs 92	USGS U-Th
91	Muhs	FL-26	Fort Myers	FL-26	26.9752	-81.8103	muhs 92	USGS U-Th
92								
93								
94			UPDATED NOV 8 2013	reviewed July 21 2014				

	I	J	K	L	M	N	O	P	Q	R
1										
2										
3										
4										
5	Notes and/or Reference			SurfElev_m	SampledFrom	OverBurdenThickness_m	LengthOfSection_m	TidalFactor	SamplingType	SmpldIntTop_m
6	McCartan									
7	McCartan									
8	McCartan									
9										
10										
11	McCartan									
12	McCartan									
13	McCartan									
14	McCartan									
15										
16										
17										
18	Coffee Mill Hammock type; Florida								Excavation/Exposure	
19	Coffee Mill Hammock type; Florida								Excavation/Exposure	
20	Coffee Mill Hammock type; Florida								Excavation/Exposure	
21	Coffee Mill Hammock type; Florida								Excavation/Exposure	
22	Coffee Mill Hammock type; Florida								Excavation/Exposure	
23	Coffee Mill Hammock type; Florida								Excavation/Exposure	
24	Coffee Mill Hammock type; Florida								Excavation/Exposure	
25	Coffee Mill Hammock type; Florida								Excavation/Exposure	
26									Excavation/Exposure	
27										
28										
29										
30										
31										
32	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
33	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
34	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
35										
36										
37	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
38	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
39	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
40	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
41	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
42	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
43										
44										
45										
46										
47										
48	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
49	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
50	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
51	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
52	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
53	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
54	karrow notes portell reviewed locality info +/- 300 M								Excavation/Exposure	
55										
56										
57										
58										
59	karrow notes portell reviewed locality info +/- 150 M Deroche Pit 01								Excavation/Exposure	
60	karrow notes portell reviewed locality info +/- 150 M Deroche Pit 01								Excavation/Exposure	
61	karrow notes portell reviewed locality info +/- 150 M Deroche Pit 01								Excavation/Exposure	

	S	T	U	V	W	X	Y	Z	AA	AB	AC
1											
2											
3											
4											
5	SmpIdIntBot_m	SampleID	SampleType	SSProcedureID	SSLabel	Fraction	SSDescrip	LabName	AnalysisMethodID	AnalDescrip	SubSampleID
6		jw92-36a	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography	950057
7		jw92-36b	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography	950045
8		jw92-36b	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography	950045
9											
10											
11		jw92-37-1	Chione	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography	950131
12		jw92-37-1	Chione	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography	950131
13		jw92-37-2	Chione	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography	950132
14		jw92-37-2	Chione	SAART	AAR-Standard	Total AA		UDEL	HPLC	AAR High Pressure Liquid Chromatography	950132
15											
16											
17											
18		JW2001-032	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC	AAR Gas Chromatographic analysis	2001103
19		JW2001-032	Mercenaria	SAART	AAR-Standard	Total AA		UDEL	GC	AAR Gas Chromatographic analysis	2001103
20		JW2001-033-001	Chione	SAART	AAR-Standard	Total AA		UDEL	GC	AAR Gas Chromatographic analysis	2001104
21		JW2001-033-002	Chione	SAART	AAR-Standard	Total AA		UDEL	GC	AAR Gas Chromatographic analysis	2001105
22		JW2001-031-001	Chione	SAART	AAR-Standard	Total AA		UDEL	GC	AAR Gas Chromatographic analysis	2001100
23		JW2001-031-001	Chione	SAART	AAR-Standard	Total AA		UDEL	GC	AAR Gas Chromatographic analysis	2001100
24		JW2001-031-002	Chione	SAART	AAR-Standard	Total AA		UDEL	GC	AAR Gas Chromatographic analysis	2001101
25		JW2001-031-003	Chione	SAART	AAR-Standard	Total AA		UDEL	GC	AAR Gas Chromatographic analysis	2001102
26		JW2001-031-003	Chione	SAART	AAR-Standard	Total AA		UDEL	GC	AAR Gas Chromatographic analysis	2001102
27											
28											
29											
30											
31											
32		0582AH1	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0582AH1
33		0582BH1	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0582BH1
34		0582CH1	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0582CH1
35											
36											
37		0627AH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0627AH1
38		0627BH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0627BH1
39		0627CH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0627CH1
40		0629AH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0629AH1
41		0629BH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0629BH1
42		0629CH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0629CH1
43											
44											
45											
46											
47											
48		0579AH1	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0579AH1
49		0579BH1	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0579BH1
50		0579CH1	Mercenaria	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0579CH1
51		0625AH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0625AH1
52		0625BH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0625BH1
53		0625CH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0625CH1
54		dfb91-56	Mercenaria	SAART	AAR-Standard	Total AA		UM	GC	AAR Gas Chromatographic analysis	dfb91-56
55											
56											
57											
58											
59		0630AH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0630AH1
60		0630BH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0630BH1
61		0630CH1	Chione	USFRPLC	RPLC	Total AA		USF	RPLC	Reverse Phase Liquid Chromatography	0630CH1

	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU
1																		
2																		
3																		
4																		
5	SamplePosition	SSCreationDate	SSPrecursor	RatioType	allo-Isoleucine	Alanine	Aspartic Acid	Glutamic Acid	Leucine	Phenylalanine	Proline	Valine	V LPG	Ala_Asp	Val_Leu	Comments		
6				Height	1.400													
7				area	1.180													
8				Height	1.290													
9				BEST	1.250													
10																		
11				Area	0.870													
12				Height	1.011													
13				Area	0.892													
14				Height	1.033													
15				BEST	0.900													
16																		
17																		
18		6/21/2009		Area		1.084	0.935	1.018	0.910	1.071		1.047	1.012	1.010	0.978	Is this sample possibly older ??		
19		6/21/2009		Height					0.906									
20		6/21/2009		Area			0.793	0.828										
21		6/21/2009		Area														
22		6/21/2009		Area		0.914	0.781	0.581	0.636	0.724		0.606	0.637	0.848	0.621			
23		6/21/2009		Height					0.642									
24		6/21/2009		Area		0.966	0.818	0.637	0.723	0.776		0.686	0.705	0.892	0.704			
25		6/21/2009		Area		1.000	0.815	0.637	0.740	0.787		0.640	0.701	0.907	0.690			
26		6/21/2009		Height					0.763									
27				BEST					0.701			0.644			0.672			
28																		
29																		
30																		
31																		
32		4/30/2008		Area			0.817	0.837		0.804		0.887						
33		4/30/2008		Area			0.638	0.554		0.602		0.720						
34		4/30/2008		Area			0.718	0.776		0.553		0.697						
35				BEST				0.800										
36																		
37		4/30/2008		Area			0.831	0.872		0.653		0.660						
38		4/30/2008		Area			0.821	0.815		1.024		0.942						
39		4/30/2008		Area			0.864	0.915		1.074		0.867						
40		4/30/2008		Area			0.809	0.778		0.959		0.918						
41		4/30/2008		Area			0.831	0.761		0.969		0.924						
42		4/30/2008		Area			0.829	0.885		1.031		0.933						
43				BEST				0.838										
44																		
45																		
46																		
47																		
48		4/30/2008		Area			0.917	0.762		0.851		0.833						
49		4/30/2008		Area			0.873	0.782		0.950		0.874						
50		4/30/2008		Area			0.888	0.757		0.951		0.872						
51		4/30/2008		Area			0.823	0.838		1.450		0.294						
52		4/30/2008		Area			0.767	0.612		0.805		0.541						
53		4/30/2008		Area			0.840	0.661		0.794		0.614						
54		1/24/2008		Area	1.080	0.990	0.870	0.730	0.780		0.750	0.670						
55				BEST				0.800										
56																		
57																		
58																		
59		4/30/2008		Area			0.837	0.584		0.890		1.024						
60		4/30/2008		Area			0.861	0.780		0.841		1.500				Variable results		
61		4/30/2008		Area			0.846	0.832		0.931		0.480						

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3	Val_Leu
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	A	B	C	D	E	F	G	H	I	J	K	L	M
1			DATA										
2													
3	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Analysis	Notes and/or Reference	SurfElev_m	SampledFrom	OverBurdenThickness_m	LengthOfSection_m
4	Oches/Webb	10183	Inverness	Crystal River	28.9	-82.6	1000	USF	David Webb to Paul Karrow to Rich Oches				
5	Oches/Webb	10183	Inverness	Crystal River	28.9	-82.6	1000	USF	David Webb to Paul Karrow to Rich Oches				
6	Oches/Webb	10183	Inverness	Crystal River	28.9	-82.6	1000	USF	David Webb to Paul Karrow to Rich Oches				
7													
8													
9													
10													
11				Reviewed Nov. 9 2013									

	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1														
2														
3														
4	OverBurdenThickness_m	LengthOfSection_m	TidalFactor	SamplingType	SmpldIntTop_m	SmpldIntBot_m	SampleID	SampleType	SSProcedureID	SSLabel	Fraction	SSDescrip	LabName	AnalysisMethodID
5							JW99-025-A		SAART	AAR-Standard	Total AA		UDEL	GC
6							JW99-025-B		SAART	AAR-Standard	Total AA		UDEL	GC
7														
8														
9									Nov. 9 2013					
10									Holocene Mulinia on beach					
11									OK July 21 2014					

	AQ
1	
2	
3	
4	Val_Leu
5	0.082
6	0.078
7	
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11	

	A	B	C	D	E	F	G	H	I
1									
2									
3									
4	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Analysis	Notes and/or Reference
5	Wingard	10092b	Naples	Venice Core	27.05232	-82.43363	300		UDEL Wingard collection see 10/16/95 letter and earlier file
6	Wingard	10092b	Naples	Venice Core	27.05232	-82.43363	300		UDEL Wingard collection see 10/16/95 letter and earlier file
7	Wingard	10092b	Naples	Venice Core	27.05232	-82.43363	300		UDEL Wingard collection see 10/16/95 letter and earlier file
8									
9	Karrow	10135	Naples	FK-37 Orange Tree Shell Pit	26.28694	-81.583355	500		USF karrow notes portell reviewed locality info +/- 500 M
10	Karrow	10135	Naples	FK-37 Orange Tree Shell Pit	26.28694	-81.583355	500		USF karrow notes portell reviewed locality info +/- 500 M
11	Karrow	10135	Naples	FK-37 Orange Tree Shell Pit	26.28694	-81.583355	500		USF karrow notes portell reviewed locality info +/- 500 M
12	Karrow	10135	Naples	FK-37 Orange Tree Shell Pit	26.28694	-81.583355	500		USF karrow notes portell reviewed locality info +/- 500 M
13									
14	Karrow	10146	Naples	FK-51 Bonita Farms	26.366443	-81.728551	600		USF karrow notes portell reviewed locality info +/- 600 M
15	Karrow	10146	Naples	FK-51 Bonita Farms	26.366443	-81.728551	600		USF karrow notes portell reviewed locality info +/- 600 M
16	Karrow	10146	Naples	FK-51 Bonita Farms	26.366443	-81.728551	600	UM	karrow notes portell reviewed locality info +/- 600 M
17	Karrow	10146	Naples	FK-51 Bonita Farms	26.366443	-81.728551	600	UM	karrow notes portell reviewed locality info +/- 600 M
18	Karrow	10146	Naples	FK-51 Bonita Farms	26.366443	-81.728551	600	UM	karrow notes portell reviewed locality info +/- 600 M
19									
20									
21	Oches	10154	Naples	Bonita Grande	26.358	-81.75920833	100		USF Tiling 6
22	Oches	10154	Naples	Bonita Grande	26.358	-81.75920833	100		USF Tiling 6
23	Oches	10154	Naples	Bonita Grande	26.358	-81.75920833	100		USF Tiling 6
24	Oches	10154	Naples	Bonita Grande	26.358	-81.75920833	100		USF Tiling 6
25	Oches	10154	Naples	Bonita Grande	26.358	-81.75920833	100		USF Tiling 6
26	Oches	10154	Naples	Bonita Grande	26.358	-81.75920833	100		USF Tiling 6
27	Oches	10154	Naples	Bonita Grande	26.358	-81.75920833	100		USF Tiling 6
28	Oches	10154	Naples	Bonita Grande	26.358	-81.75920833	100		USF Tiling 6
29	Oches	10154	Naples	Bonita Grande	26.358	-81.75920833	100		USF Tiling 6
30	Oches	10154	Naples	Bonita Grande	26.358	-81.75920833	100		USF Tiling 6
31									
32	Oches	10155	Naples	Longan Lakes	26.2	-81.6	500		USF Tiling 7 approx
33	Oches	10155	Naples	Longan Lakes	26.2	-81.6	500		USF Tiling 7 approx
34	Oches	10155	Naples	Longan Lakes	26.2	-81.6	500		USF Tiling 7 approx
35	Oches	10155	Naples	Longan Lakes	26.2	-81.6	500		USF Tiling 7 approx
36	Oches	10155	Naples	Longan Lakes	26.2	-81.6	500		USF Tiling 7 approx
37	Oches	10155	Naples	Longan Lakes	26.2	-81.6	500		USF Tiling 7 approx
38	Oches	10155	Naples	Longan Lakes	26.2	-81.6	500		USF Tiling 7 approx
39	Oches	10155	Naples	Longan Lakes	26.2	-81.6	500		USF Tiling 7 approx
40	Oches	10155	Naples	Longan Lakes	26.2	-81.6	500		USF Tiling 7 approx
41	Oches	10155	Naples	Longan Lakes	26.2	-81.6	500		USF Tiling 7 approx
42									
43									
44									
45									
46									OTHER LOCALITIES
47	Belknap	10002	Naples	Point O Rocks Key	27.244	-82.536	100		Lab/Result
48	Wingard	10092V	Naples	Venice	27.05232	-82.43363	200		USF/UM equivalent to Karrow FK-3 This is DFB site
49	Belknap	10187	Naples	DFB Caloosahatchee Fm	28	-80	10000		UDEL Wingard collection see 10/16/95 letter and earlier file
50	Karrow	10174	Naples	FK-45	26.343742	-81.75915	150		? unknown locality - guess at topo sheet
51									NO DATA karrow notes portell reviewed locality info +/- 150 M
52									
53									
54									
55									UPDATED NOV 8 2013
56									reviewed July 24 2014

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2			DATA									
3												
4	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Analysis	Notes and/or Reference	SurfElev_m	SampledFrom	OverBurdenThickness_m
5	Oches	10149	Ocala	Waccasassa River site 1	29.29381667	-82.73067	200	USF	Tiling1			
6	Oches	10149	Ocala	Waccasassa River site 1	29.29381667	-82.73067	200	USF	Tiling1			
7	Oches	10149	Ocala	Waccasassa River site 1	29.29381667	-82.73067	200	USF	Tiling1			
8	Oches	10149	Ocala	Waccasassa River site 1	29.29381667	-82.73067	200	USF	Tiling1			
9	Oches	10149	Ocala	Waccasassa River site 1	29.29381667	-82.73067	200	USF	Tiling1			
10	Oches	10149	Ocala	Waccasassa River site 1	29.29381667	-82.73067	200	USF	Tiling1			
11	Oches	10149	Ocala	Waccasassa River site 1	29.29381667	-82.73067	200	USF	Tiling1			
12	Oches	10149	Ocala	Waccasassa River site 1	29.29381667	-82.73067	200	USF	Tiling1			
13	Oches	10149	Ocala	Waccasassa River site 1	29.29381667	-82.73067	200	USF	Tiling1			
14												
15	Oches	10149a	Ocala	Waccasassa River site 2	29.29381667	-82.73067	200	USF	Tiling1a			
16	Oches	10149a	Ocala	Waccasassa River site 2	29.29381667	-82.73067	200	USF	Tiling1a			
17	Oches	10149a	Ocala	Waccasassa River site 2	29.29381667	-82.73067	200	USF	Tiling1a			
18	Oches	10149a	Ocala	Waccasassa River site 2	29.29381667	-82.73067	200	USF	Tiling1a			
19	Oches	10149a	Ocala	Waccasassa River site 2	29.29381667	-82.73067	200	USF	Tiling1a			
20	Oches	10149a	Ocala	Waccasassa River site 2	29.29381667	-82.73067	200	USF	Tiling1a			
21	Oches	10149a	Ocala	Waccasassa River site 2	29.29381667	-82.73067	200	USF	Tiling1a			
22												
23												
24									Site 1 samples must be older that Site 2 samples			
25									JFW Nov. 9 2013			

	AP	AQ	AR	AS	AT	AU
1						
2						
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4	Val_Leu	Mean				
5		Asp	0.795			
6		Glu	0.886		site 1 chione	
7		Phe	0.760			
8		Val	0.971			
9						
10		Asp	0.876			
11		Glu	0.985			
12		Phe	0.890		site 1 merc	
13		Val	1.071			
14						
15						
16					site 2 Merc	
17						
18		Asp				
19		Glu	0.577		site 2 chione	
20		Phe				
21		Val	0.512			
22						
23						
24						
25						

	A	B	C	D	E	F	G	H	I	J	K
1											
2			DATA								
3											
4	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Analysis	Notes and/or Reference	SurfElev_m	SampledFrom
5	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
6	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
7	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
8	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
9	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
10	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
11	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
12	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
13	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
14	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
15	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
16	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
17	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
18	Donohue/Wehmiller	10078	Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect		
19	Donohue/Wehmiller		Port St. Joe	Apalachicola Beach	29.5925	-85.0554	500	UDEL	Joe Donohue collect RADIOCARBON		
20											
21								Lab/Result			
22			OTHER LOCALITIES								
23											
24	jfw	10091	Port St. Joe	LIGHTHOUSE POINT	29.667	-85.358	1000		Scott Harris collect		
25	jfw	10076b	Port St. Joe	FLORIDA GULF COAST	29.67	-85.33	10000		estimate not sure what samples exist		

	T	U	V	W	X	Y	Z
1							
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3							
4	SSProcedureID	SSLLabel	Fraction	SSDescrip	LabName	AnalysisMethodID	AnalDescrip
5	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	GC	AAR Gas Chromatographic analysis
6	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	GC	AAR Gas Chromatographic analysis
7	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	HPLC	AAR High Pressure Liquid Chromatography
8	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	HPLC	AAR High Pressure Liquid Chromatography
9	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	HPLC	AAR High Pressure Liquid Chromatography
10	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	HPLC	AAR High Pressure Liquid Chromatography
11	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	HPLC	AAR High Pressure Liquid Chromatography
12	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	HPLC	AAR High Pressure Liquid Chromatography
13	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	HPLC	AAR High Pressure Liquid Chromatography
14	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	HPLC	AAR High Pressure Liquid Chromatography
15	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	GC	AAR Gas Chromatographic analysis
16	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	GC	AAR Gas Chromatographic analysis
17	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	HPLC	AAR High Pressure Liquid Chromatography
18	SAART	AAR-Standard	Total AA	Standard AAR sample prep methods - isopropyl HCl (note some IEX data with this notation)	UDEL	HPLC	AAR High Pressure Liquid Chromatography
19							
20							
21							
22							
23							
24							
25							

	BC	BD
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4	AnalysisProcedureID	Calibrated 14C age
5	C14 AMS	
6	C14 AMS	
7	C14 AMS	
8	C14 AMS	
9	C14 AMS	
10	C14 AMS	
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15	C14 AMS	
16	C14 AMS	
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	A	B	C	D	E	F	G	H
1								
2			DATA					
3								
4	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Analysis
5	Belknap	10038	Saint Augustine	AF	29.8548	-81.2782	100	UDEL
6								
7	McNeill	10072	Saint Augustine	Bon Terra	29.5624	-81.1818	200	UDEL
8	McNeill	10072	Saint Augustine	Bon Terra	29.5624	-81.1818	200	UDEL
9	McNeill	10072	Saint Augustine	Bon Terra	29.5624	-81.1818	200	UDEL
10								
11	McNeill	10073	Saint Augustine	Bon Terra	29.5624	-81.1818	200	UDEL
12	McNeill	10073	Saint Augustine	Bon Terra	29.5624	-81.1818	200	UDEL
13								
14	Belknap	10076a	Saint Augustine	FQF Faith Quarry	29.8700	-81.2500	10000	UDEL
15								
16	FLMNH	10099	Saint Augustine	Cracker Swamp	29.6972	-81.5347	100	UDEL
17	FLMNH	10099	Saint Augustine	Cracker Swamp	29.6972	-81.5347	100	UDEL
18								
19	Belknap	10157	Saint Augustine	Moutrie Junction	29.9019	-81.3594	100	UDEL
20	Belknap	10157	Saint Augustine	Moutrie Junction	29.9019	-81.3594	100	UDEL
21	Belknap	10157	Saint Augustine	Moutrie Junction	29.9019	-81.3594	100	usf/um
22								
23	Belknap	10158	Saint Augustine	Anastasia island	29.8564	-81.2792	100	UDEL
24	Belknap	10158	Saint Augustine	Anastasia island	29.8564	-81.2792	100	UDEL
25	Belknap	10158	Saint Augustine	Anastasia island	29.8564	-81.2792	100	UDEL
26	Belknap	10158	Saint Augustine	Anastasia island	29.8564	-81.2792	100	usf/um
27								
28	FLMNH	10185	Saint Augustine	WCQ-01	29.8815	-81.3525	300	OSL AND UDEL
29	FLMNH	10185	Saint Augustine	WCQ-01	29.8815	-81.3525	300	OSL AND UDEL
30	FLMNH	10185	Saint Augustine	WCQ-01	29.8815	-81.3525	300	OSL AND UDEL
31	FLMNH	10185	Saint Augustine	WCQ-01	29.8815	-81.3525	300	OSL AND UDEL
32	FLMNH	10185	Saint Augustine	WCQ-01	29.8815	-81.3525	300	OSL AND UDEL
33								
34								
35								
36								
37								
38								
39	OTHER LOCALITIES							
40								
41	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Lab/Result
42	Wehmiller	10095	Saint Augustine	Anastasia St Park be	29.8666	-81.2680	100	ud
43	Wehmiller	10096	Saint Augustine	St Augustine Lighthc	29.8856	-81.2862	100	ud
44	Mitterer	10009	Saint Augustine	Mitterer 5	29.5150	-81.1570	10000	rmm
45	Mitterer	10015	Saint Augustine	Mitterer 11	29.5150	-81.1570	10000	rmm
46	Mitterer	10017	Saint Augustine	Mitterer 13	29.5150	-81.1570	10000	rmm
47	Hollin and Hea	HHM	Saint Augustine	Marineland	29.6700	-81.2100	H&H 1990	Colo
48	Mitterer 2010	10200	Saint Augustine	Mitterer X	29.5609	-81.1944	3000	rmm
49								
50								
51								
52	UPDATED NOV 9 2013 reviewed July 21 2014							

	J	K
1		
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3		
4 Notes and/or Reference	SurfElev_m	SampledFrom
5 DFB dissertation		
6		
7 McNeill letter 5/86 jfw mod 1/29/08; Mitterer reports data from Bon Terra	5	
8 McNeill letter 5/86 jfw mod 1/29/08; Mitterer reports data from Bon Terra	5	
9 McNeill letter 5/86 jfw mod 1/29/08; Mitterer reports data from Bon Terra	5	
10		
11 McNeill letter 5/86 jfw mod 1/29/08; Mitterer reports data from Bon Terra	0.5	
12 McNeill letter 5/86 jfw mod 1/29/08; Mitterer reports data from Bon Terra	0.5	
13		
14 Belknap sample? Cited in GSA 227 paper		
15		
16 Sr analysis FLMNH 100948 Portell review May 2012 Caloosahatchee equiv. Johnson and Johnson Nashua		
17 Sr analysis FLMNH 100948 Portell review May 2012 Caloosahatchee equiv. Johnson and Johnson Nashua		
18		
19 MJFL OF DFB 8/18/09 REVISED		
20 MJFL OF DFB 8/18/09 REVISED		
21 MJFL OF DFB 8/18/09 REVISED		
22		
23 AIFL OF DFB 8/18/09 REVISED		
24 AIFL OF DFB 8/18/09 REVISED		
25 AIFL OF DFB 8/18/09 REVISED		
26 AIFL OF DFB 8/18/09 REVISED		
27		
28 Burdette SE GEOL 2009 MIS 5e 5c Paired AAR and OSL Lakeview Dirt Pit OSL SAYS MIS 5e 5c		
29 Burdette SE GEOL 2009 MIS 5e 5c Paired AAR and OSL Lakeview Dirt Pit OSL SAYS MIS 5e 5c		
30 Burdette SE GEOL 2009 MIS 5e 5c Paired AAR and OSL Lakeview Dirt Pit OSL SAYS MIS 5e 5c		
31 Burdette SE GEOL 2009 MIS 5e 5c Paired AAR and OSL Lakeview Dirt Pit OSL SAYS MIS 5e 5c		
32 Burdette SE GEOL 2009 MIS 5e 5c Paired AAR and OSL Lakeview Dirt Pit OSL SAYS MIS 5e 5c		
33		
34		
35		
36		
37		
38		
39		
40		
41 Notes and/or Reference		
42 BEACH		
43 BEACH		
44 Approx loc; see Mitterer list		
45 Approx loc; see Mitterer list		
46 Approx loc; see Mitterer list		
47 Hollin and Harty 1990		
48 A/I 0.40 loc very approximate may be one sent previously Email Nov 1995 says this is Graham Swamp, Flagler Co A/I 0.40 (A ditch beside the road) Probably the same as Loc 11		
49		
50		
51		
52		

	A	B	C	D	E	F	G	H
62								
63								
64	Karrow	10046	Saint Petersburg	FK-271IE Leisey	27.6962	-82.5052	100	USF
65	Karrow	10046	Saint Petersburg	FK-271IE Leisey	27.6962	-82.5052	100	UDEL
66	Karrow	10046	Saint Petersburg	FK-271IE Leisey	27.6962	-82.5052	100	UDEL
67								
68								
69								
70								
71								UM
72	Karrow	10046	Saint Petersburg	FK-271IE Leisey	27.6962	-82.5052	100	UDEL
73	Karrow	10046	Saint Petersburg	FK-271IE Leisey	27.6962	-82.5052	100	UDEL
74	Karrow	10046	Saint Petersburg	FK-271IE Leisey	27.6962	-82.5052	100	UDEL
75	Karrow	10046	Saint Petersburg	FK-271IE Leisey	27.6962	-82.5052	100	UDEL
76								
77								
78								
79								
80								UM
81	Karrow	10046	Saint Petersburg	FK-271IE Leisey	27.6962	-82.5052	100	UDEL
82	Karrow	10046	Saint Petersburg	FK-271IE Leisey	27.6962	-82.5052	100	UDEL
83								
84								
85								
86								
87								
88	Karrow	10047	Saint Petersburg	FK-27C2 Leisey	27.6962	-82.5052	375	UDEL
89	Karrow	10047	Saint Petersburg	FK-27C2 Leisey	27.6962	-82.5052	375	UM
90	Karrow	10047	Saint Petersburg	FK-27C2 Leisey	27.6962	-82.5052	375	UDEL
91	Karrow	10047	Saint Petersburg	FK-27C2 Leisey	27.6962	-82.5052	375	UDEL
92	Karrow	10047	Saint Petersburg	FK-27C2 Leisey	27.6962	-82.5052	375	UDEL
93	Karrow	10047	Saint Petersburg	FK-27C2 Leisey	27.6962	-82.5052	375	UDEL
94	Karrow	10047	Saint Petersburg	FK-27C2 Leisey	27.6962	-82.5052	375	UDEL
95	Karrow	10047	Saint Petersburg	FK-27C2 Leisey	27.6962	-82.5052	375	UDEL
96								
97	Karrow	10049	Saint Petersburg	FK-2 Council Farms	27.6812	-82.4033	75	USF
98	Karrow	10049	Saint Petersburg	FK-2 Council Farms	27.6812	-82.4033	75	USF
99	Karrow	10049	Saint Petersburg	FK-2 Council Farms	27.6812	-82.4033	75	USF
100	Karrow	10049	Saint Petersburg	FK-2 Council Farms	27.6812	-82.4033	75	UDEL
101								
102	Karrow	10050	Saint Petersburg	FK-4 DOT Test Pit	27.8799	-82.6625	250	USF
103	Karrow	10050	Saint Petersburg	FK-4 DOT Test Pit	27.8799	-82.6625	250	UDEL
104								
105	Karrow	10051	Saint Petersburg	FK-5 Largo Old Pit	27.8987	-82.7742	75	USF
106	Karrow	10051	Saint Petersburg	FK-5 Largo Old Pit	27.8987	-82.7742	75	USF
107	Karrow	10051	Saint Petersburg	FK-5 Largo Old Pit	27.8987	-82.7742	75	USF
108	Karrow	10051	Saint Petersburg	FK-5 Largo Old Pit	27.8987	-82.7742	75	USF
109	Karrow	10051	Saint Petersburg	FK-5 Largo Old Pit	27.8987	-82.7742	75	UM
110								
111	Karrow	10052	Saint Petersburg	FK-6 Pinellas Park	27.8811	-82.7517	450	USF
112	Karrow	10052	Saint Petersburg	FK-6 Pinellas Park	27.8811	-82.7517	450	USF
113	Karrow	10052	Saint Petersburg	FK-6 Pinellas Park	27.8811	-82.7517	450	USF
114	Karrow	10052	Saint Petersburg	FK-6 Pinellas Park	27.8811	-82.7517	450	USF
115	Karrow	10052	Saint Petersburg	FK-6 Pinellas Park	27.8811	-82.7517	450	USF
116	Karrow	10052	Saint Petersburg	FK-6 Pinellas Park	27.8811	-82.7517	450	USF
117								
118	Karrow	10053	Saint Petersburg	FK-7 Sundown Pit	27.8254	-82.6163	250	USF
119	Karrow	10053	Saint Petersburg	FK-7 Sundown Pit	27.8254	-82.6163	250	UM
120								
121	Karrow	10055	Saint Petersburg	FK-15 66th st ditch	27.7917	-82.7292	100	USF
122	Karrow	10055	Saint Petersburg	FK-15 66th st ditch	27.7917	-82.7292	100	USF

	A	B	C	D	E	F	G	H
123	Karrow	10055	Saint Petersburg	FK-15 66th st ditch	27.7917	-82.7292	100	USF
124	Karrow	10055	Saint Petersburg	FK-15 66th st ditch	27.7917	-82.7292	100	USF
125	Karrow	10055	Saint Petersburg	FK-15 66th st ditch	27.7917	-82.7292	100	UDEL
126								
127	Karrow	10056	Saint Petersburg	FK-22 Terra Ceia Pit	27.5666	-82.5500	300	USF
128	Karrow	10056	Saint Petersburg	FK-22 Terra Ceia Pit	27.5666	-82.5500	300	USF
129	Karrow	10056	Saint Petersburg	FK-22 Terra Ceia Pit	27.5666	-82.5500	300	UDEL
130								
131	Karrow	10057	Saint Petersburg	FK-23 Cross Bayou Canal	27.8675	-82.7345	150	USF
132	Karrow	10057	Saint Petersburg	FK-23 Cross Bayou Canal	27.8675	-82.7345	150	USF
133	Karrow	10057	Saint Petersburg	FK-23 Cross Bayou Canal	27.8675	-82.7345	150	USF
134								
135	Karrow	10058	Saint Petersburg	FK-24 Aaron Long Pit	27.7330	-82.4459	200	USF
136	Karrow	10058	Saint Petersburg	FK-24 Aaron Long Pit	27.7330	-82.4459	200	USF
137	Karrow	10058	Saint Petersburg	FK-24 Aaron Long Pit	27.7330	-82.4459	200	USF
138	Karrow	10058	Saint Petersburg	FK-24 Aaron Long Pit	27.7330	-82.4459	200	UDEL
139								
140	Karrow	10059	Saint Petersburg	FK-26 Tampa Bay Shell Pit	27.7315	-82.4548	375	USF
141	Karrow	10059	Saint Petersburg	FK-26 Tampa Bay Shell Pit	27.7315	-82.4548	375	USF
142	Karrow	10059	Saint Petersburg	FK-26 Tampa Bay Shell Pit	27.7315	-82.4548	375	USF
143	Karrow	10059	Saint Petersburg	FK-26 Tampa Bay Shell Pit	27.7315	-82.4548	375	UM
144								
145	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
146	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
147	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
148	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
149	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
150	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
151	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
152	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
153	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
154	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
155	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
156	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
157	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
158	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
159	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
160	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
161	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
162	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
163	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
164	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
165	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
166	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
167	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
168	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
169	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
170	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
171	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
172	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
173	Wingard	10094	Saint Petersburg	Leisey	27.6970	-82.4975	500	UDEL
174								
175	FLMNH	10101	Saint Petersburg	Leisey 1a	27.6970	-82.4975	100	UDEL
176								
177	FLMNH	10106	Saint Petersburg	Leisey 3a	27.6997	-82.4940	100	UDEL
178	FLMNH	10106	Saint Petersburg	Leisey 3a	27.6997	-82.4940	100	UDEL
179	FLMNH	10106	Saint Petersburg	Leisey 3a	27.6997	-82.4940	100	USF
180	FLMNH	10106	Saint Petersburg	Leisey 3a	27.6997	-82.4940	100	USF
181	FLMNH	10106	Saint Petersburg	Leisey 3a	27.6997	-82.4940	100	UDEL
182	FLMNH	10106	Saint Petersburg	Leisey 3a	27.6997	-82.4940	100	UDEL
183	FLMNH	10106	Saint Petersburg	Leisey 3a	27.6997	-82.4940	100	UDEL

	A	B	C	D	E	F	G	H
245	Karrow	10147	Saint Petersburg	FK-56 Leisey 3	27.7006	-82.4915	700	USF
246	Karrow	10147	Saint Petersburg	FK-56 Leisey 3	27.7006	-82.4915	700	USF
247	Karrow	10147	Saint Petersburg	FK-56 Leisey 3	27.7006	-82.4915	700	USF
248	Karrow	10147	Saint Petersburg	FK-56 Leisey 3	27.7006	-82.4915	700	USF
249	Karrow	10147	Saint Petersburg	FK-56 Leisey 3	27.7006	-82.4915	700	USF
250	Karrow	10147	Saint Petersburg	FK-56 Leisey 3	27.7006	-82.4915	700	USF
251	Karrow	10147	Saint Petersburg	FK-56 Leisey 3	27.7006	-82.4915	700	USF
252	Karrow	10147	Saint Petersburg	FK-56 Leisey 3	27.7006	-82.4915	700	USF
253								
254								
255								
256								
257	Karrow	10170	Saint Petersburg	FK-21	27.7988	-82.3717	400	USF
258								
259								
260								
261	Karrow	10181	Saint Petersburg	FK-27III	27.6962	-82.5052	100	USF
262	Karrow	10181	Saint Petersburg	FK-27III	27.6962	-82.5052	100	USF
263	Karrow	10181	Saint Petersburg	FK-27III	27.6962	-82.5052	100	USF
264								
265								
266								
267								
268	Wingard	10092f	Saint Petersburg	Leisey Pit	27.6970	-82.4980	500	UDEL
269	Wingard	10092f	Saint Petersburg	Leisey Pit	27.6970	-82.4980	500	UDEL
270	Wingard	10092f	Saint Petersburg	Leisey Pit	27.6970	-82.4980	500	UDEL
271	Wingard	10092f	Saint Petersburg	Leisey Pit	27.6970	-82.4980	500	UDEL
272	Wingard	10092f	Saint Petersburg	Leisey Pit	27.6970	-82.4980	500	UDEL
273	Wingard	10092f	Saint Petersburg	Leisey Pit	27.6970	-82.4980	500	UDEL
274	Wingard	10092f	Saint Petersburg	Leisey Pit	27.6970	-82.4980	500	UDEL
275	Wingard	10092f	Saint Petersburg	Leisey Pit	27.6970	-82.4980	500	UDEL
276	Wingard	10092f	Saint Petersburg	Leisey Pit	27.6970	-82.4980	500	UDEL
277	Wingard	10092f	Saint Petersburg	Leisey Pit	27.6970	-82.4980	500	UDEL
278	Wingard	10092f	Saint Petersburg	Leisey Pit	27.6970	-82.4980	500	UDEL
279	Wingard	10092f	Saint Petersburg	Leisey Pit	27.6970	-82.4980	500	UDEL
280	Wingard	10092f	Saint Petersburg	Leisey Pit	27.6970	-82.4980	500	UDEL
281								
282								
283								
284								
285								
286	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
287	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
288	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
289	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
290	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
291	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
292	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
293	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
294	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
295	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
296	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
297	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
298	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
299	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
300	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
301	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
302	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
303	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
304	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
305	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF

	A	B	C	D	E	F	G	H
306	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
307	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
308	Oches	10150l	Saint Petersburg	Caloosa Shell lower	27.6966	-82.4874	50	USF
309								
310								
311								
312								
313								
314	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
315	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
316	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
317	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
318	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
319	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
320	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
321	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
322	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
323	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
324	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
325	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
326	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
327	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
328	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
329	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
330	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
331	Oches	10150u	Saint Petersburg	Caloosa Shell upper	27.6966	-82.4874	50	USF
332								
333								
334								
335								
336								
337								
338								
339								
340								
341								
342			OTHER LOCALITIES					
343								
344	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Lab/Result
345	Karrow	10043	Saint Petersburg	FK-25B Shell Materials	27.7375	-82.4416	500	usf/um
346	oches	10123	Saint Petersburg	Caloosa. #2, FLA	27.6964	-82.4881	100	usf
347	oches	10127	Saint Petersburg	Caloosa Ft T	27.6963	-82.4881	50	usf
348	oches	10128	Saint Petersburg	Caloosa bone	27.6963	-82.4881	50	usf
349	oches	10129	Saint Petersburg	Caloosa upper Bermont	27.6963	-82.4881	50	usf
350	oches	10130	Saint Petersburg	Caloosa lower Bermont	27.6963	-82.4881	50	usf
351	Karrow	10133	Saint Petersburg	FK-14	27.8500	-82.7333	500	no data
352	FLMNH	10107	Saint Petersburg	Leisey 3a	27.6997	-82.4940	100	ud
353	Wehmiller	10109	Saint Petersburg	Treasure Island	27.7390	-82.7510	100	ud
354	Wehmiller	10114	Saint Petersburg	Tampa Skyway beach	27.6518	-82.6775	100	ud
355	Wehmiller	10115	Saint Petersburg	Pass-a-grille beach	27.6830	-82.7380	100	ud
356	Wingard	10092j	Saint Petersburg	Joes Creek	27.8107	-82.7341	100	ud
357	Wingard	10092k	Saint Petersburg	Tyrone 22nd 66 St	27.7913	-82.7287	100	ud
358	Karrow	10166	Saint Petersburg	FK-17	27.8997	-82.3369	200	no data
359	Karrow	10167	Saint Petersburg	FK-18	27.8624	-82.3560	125	no data
360	Karrow	10168	Saint Petersburg	FK-19	27.8411	-82.3225	200	no data
361	Karrow	10169	Saint Petersburg	FK-20	27.8163	-82.3580	125	no data
362	Karrow	10171	Saint Petersburg	FK-29	27.5416	-82.5206	300	no data
363	Muhs	FL-24	Saint Petersburg	FL-24	27.6969	-82.4975	xxx	USGS U-Th
364	Muhs	FL-15	Saint Petersburg	FL-15	27.6969	-82.4975	muhs 92	USGS U-Th
365								
366			reviewed and updated Nov 9 2013					

	I	J	K	L
1				
2				
3				
4	Notes and/or Reference		SurfElev_m	SampledFrom
5	FROM KARROW NOTES Portell reviewed May 2012			
6	FROM KARROW NOTES Portell reviewed May 2012			
7	FROM KARROW NOTES Portell reviewed May 2012			
8	FROM KARROW NOTES Portell reviewed May 2012			
9	FROM KARROW NOTES Portell reviewed May 2012			
10				
11				
12				
13				
14	karrow notes; portell loc reviewed			
15	karrow notes; portell loc reviewed			
16	karrow notes; portell loc reviewed			
17	karrow notes; portell loc reviewed			
18	karrow notes; portell loc reviewed			
19	karrow notes; portell loc reviewed			
20	karrow notes; portell loc reviewed			
21	karrow notes; portell loc reviewed			
22	karrow notes; portell loc reviewed			
23				
24				
25				
26				
27				
28				
29	karrow notes; portell loc reviewed +/- 500 m			
30	karrow notes; portell loc reviewed +/- 500 m			
31	karrow notes; portell loc reviewed +/- 500 m			
32	karrow notes; portell loc reviewed +/- 500 m			
33	karrow notes; portell loc reviewed +/- 500 m			
34	karrow notes; portell loc reviewed +/- 500 m			
35	karrow notes; portell loc reviewed +/- 500 m			
36				
37				
38				
39				
40				
41	karrow notes; portell loc reviewed; 1 -2' from top of upper shell bed. Must be near bone bed (but above or below?) PK			
42	karrow notes; portell loc reviewed; 1 -2' from top of upper shell bed. Must be near bone bed (but above or below?) PK			
43	karrow notes; portell loc reviewed; 1 -2' from top of upper shell bed. Must be near bone bed (but above or below?) PK			
44	karrow notes; portell loc reviewed; 1 -2' from top of upper shell bed. Must be near bone bed (but above or below?) PK			
45	karrow notes; portell loc reviewed; 1 -2' from top of upper shell bed. Must be near bone bed (but above or below?) PK			
46	karrow notes; portell loc reviewed; 1 -2' from top of upper shell bed. Must be near bone bed (but above or below?) PK			
47	karrow notes; portell loc reviewed; 1 -2' from top of upper shell bed. Must be near bone bed (but above or below?) PK			
48	karrow notes; portell loc reviewed; 1 -2' from top of upper shell bed. Must be near bone bed (but above or below?) PK			
49	karrow notes; portell loc reviewed; 1 -2' from top of upper shell bed. Must be near bone bed (but above or below?) PK			
50	karrow notes; portell loc reviewed; 1 -2' from top of upper shell bed. Must be near bone bed (but above or below?) PK			
51				
52				
53				
54				
55	karrow notes; portell loc reviewed; 1-2' from base of upper shell bed, above 4-5' below A			
56	karrow notes; portell loc reviewed; 1-2' from base of upper shell bed, above 4-5' below A			
57	karrow notes; portell loc reviewed; 1-2' from base of upper shell bed, above 4-5' below A			
58	karrow notes; portell loc reviewed; 1-2' from base of upper shell bed, above 4-5' below A			
59				
60				
61				

	J	K	L
62			
63			
64	karrow notes; portell loc reviewed	1-3' below top of lower shell bed. About 10-11' below A	
65	karrow notes; portell loc reviewed	1-3' below top of lower shell bed. About 10-11' below A	
66	karrow notes; portell loc reviewed	1-3' below top of lower shell bed. About 10-11' below A	
67			
68			
69			
70			
71			
72	karrow notes; portell loc reviewed	1-3' below top of lower shell bed. About 10-11' below A	
73	karrow notes; portell loc reviewed	1-3' below top of lower shell bed. About 10-11' below A	
74	karrow notes; portell loc reviewed	1-3' below top of lower shell bed. About 10-11' below A	
75	karrow notes; portell loc reviewed	1-3' below top of lower shell bed. About 10-11' below A	
76			
77			
78			
79			
80			
81	karrow notes; portell loc reviewed	1-3' below top of lower shell bed. About 10-11' below A	
82	karrow notes; portell loc reviewed	1-3' below top of lower shell bed. About 10-11' below A	
83			
84			
85			
86			
87			
88	karrow notes; portell loc reviewed	+/- 375 m	
89	karrow notes; portell loc reviewed	+/- 375 m	
90	karrow notes; portell loc reviewed	+/- 375 m	
91	karrow notes; portell loc reviewed	+/- 375 m	
92	karrow notes; portell loc reviewed	+/- 375 m	
93	karrow notes; portell loc reviewed	+/- 375 m	
94	karrow notes; portell loc reviewed	+/- 375 m	
95	karrow notes; portell loc reviewed	+/- 375 m	
96			
97	karrow notes; portell loc reviewed	+/- 75 M	
98	karrow notes; portell loc reviewed	+/- 75 M	
99	karrow notes; portell loc reviewed	+/- 75 M	
100	karrow notes; portell loc reviewed	+/- 75 M	
101			
102	karrow notes; portell loc reviewed	+/- 250 M	
103	karrow notes; portell loc reviewed	+/- 250 M	
104			
105	karrow notes; portell loc reviewed	+/- 75 M	
106	karrow notes; portell loc reviewed	+/- 75 M	
107	karrow notes; portell loc reviewed	+/- 75 M	
108	karrow notes; portell loc reviewed	+/- 75 M	
109	karrow notes; portell loc reviewed	+/- 75 M	
110			
111	karrow notes; portell loc reviewed	+/- 450 M	
112	karrow notes; portell loc reviewed	+/- 450 M	
113	karrow notes; portell loc reviewed	+/- 450 M	
114	karrow notes; portell loc reviewed	+/- 450 M	
115	karrow notes; portell loc reviewed	+/- 450 M	
116	karrow notes; portell loc reviewed	+/- 450 M	
117			
118	karrow notes; portell loc reviewed	+/- 250 M	
119	karrow notes; portell loc reviewed	+/- 250 M	
120			
121	FROM KARROW NOTES	Wingard	
122	FROM KARROW NOTES	Wingard	

	J	K	L
123	FROM KARROW NOTES	Wingard	
124	FROM KARROW NOTES	Wingard	
125	FROM KARROW NOTES	Wingard	
126			
127	FROM KARROW NOTES AND DFB DATA SHEET	Portell reviewed May 2012	
128	FROM KARROW NOTES AND DFB DATA SHEET	Portell reviewed May 2012	
129	FROM KARROW NOTES AND DFB DATA SHEET	Portell reviewed May 2012	
130			
131	karrow notes; portell loc reviewed +/-	150 m	
132	karrow notes; portell loc reviewed +/-	150 m	
133	karrow notes; portell loc reviewed +/-	150 m	
134			
135	karrow notes; portell loc reviewed +/-	200 m	
136	karrow notes; portell loc reviewed +/-	200 m	
137	karrow notes; portell loc reviewed +/-	200 m	
138	karrow notes; portell loc reviewed +/-	200 m	
139			
140	karrow notes; portell loc reviewed +/-	375 m	
141	karrow notes; portell loc reviewed +/-	375 m	
142	karrow notes; portell loc reviewed +/-	375 m	
143	karrow notes; portell loc reviewed +/-	375 m	
144			
145	Wingard collection		
146	Wingard collection		
147	Wingard collection		
148	Wingard collection		
149	Wingard collection		
150	Wingard collection		
151	Wingard collection		
152	Wingard collection		
153	Wingard collection		
154	Wingard collection		
155	Wingard collection		
156	Wingard collection		
157	Wingard collection		
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161	Wingard collection		
162	Wingard collection		
163	Wingard collection		
164	Wingard collection		
165	Wingard collection		
166	Wingard collection		
167	Wingard collection		
168	Wingard collection		
169	Wingard collection		
170	Wingard collection		
171	Wingard collection		
172	Wingard collection		
173	Wingard collection		
174			
175	Sr analysis	FLMNH 10755	
176			
177	FLMNH	37477	
178	FLMNH	37477	
179	FLMNH	37477	
180	FLMNH	37477	
181	FLMNH	37477	
182	FLMNH	37477	
183	FLMNH	37477	

		J	K	L
184	FLMNH 37477			
185	FLMNH 37477			
186	FLMNH 37477			
187	FLMNH 37477			
188	FLMNH 37477			
189				
190				
191				
192				
193	Sr analysis FLMNH 10755			
194	Sr analysis FLMNH 10755			
195	Sr analysis FLMNH 10755			
196	Sr analysis FLMNH 10755			
197				
198				
199				
200				
201	Tampa Bay cores			
202	Tampa Bay cores			
203	Tampa Bay cores			
204	Tampa Bay cores			
205	Tampa Bay cores			
206	Tampa Bay cores			
207	Tampa Bay cores			
208	Tampa Bay cores			
209				
210				
211				
212				
213	spoil			
214	spoil			
215				
216				
217				
218	Caloosa. #1, FLA			
219	Caloosa. #1, FLA			
220				
221	Caloosa. #2, FLA			
222				
223				
224				
225				
226	Skip Davis USF Core			
227	Skip Davis USF Core			
228	Skip Davis USF Core			
229	Skip Davis USF Core			
230				
231				
232				
233				
234	Tom Cronin, Tampa Bay, Florida MD core			
235	Tom Cronin, Tampa Bay, Florida MD core			
236	Tom Cronin, Tampa Bay, Florida MD core			
237	Tom Cronin, Tampa Bay, Florida MD core			
238	Tom Cronin, Tampa Bay, Florida MD core			
239	Tom Cronin, Tampa Bay, Florida MD core			
240				
241				
242				
243				
244				

		J	K	L
245	karrow notes portell reviewed locality info +/- 700 m 56B base of upper shell bed (Ft Thomp) at transition to black layer with bonds; 56E same site, middle of shell bed			
246	karrow notes portell reviewed locality info +/- 700 m 56B base of upper shell bed (Ft Thomp) at transition to black layer with bonds; 56E same site, middle of shell bed			
247	karrow notes portell reviewed locality info +/- 700 m 56B base of upper shell bed (Ft Thomp) at transition to black layer with bonds; 56E same site, middle of shell bed			
248	karrow notes portell reviewed locality info +/- 700 m 56B base of upper shell bed (Ft Thomp) at transition to black layer with bonds; 56E same site, middle of shell bed			
249	karrow notes portell reviewed locality info +/- 700 m 56B base of upper shell bed (Ft Thomp) at transition to black layer with bonds; 56E same site, middle of shell bed			
250	karrow notes portell reviewed locality info +/- 700 m 56B base of upper shell bed (Ft Thomp) at transition to black layer with bonds; 56E same site, middle of shell bed			
251	karrow notes portell reviewed locality info +/- 700 m 56B base of upper shell bed (Ft Thomp) at transition to black layer with bonds; 56E same site, middle of shell bed			
252	karrow notes portell reviewed locality info +/- 700 m 56B base of upper shell bed (Ft Thomp) at transition to black layer with bonds; 56E same site, middle of shell bed			
253				
254				
255				
256				
257	karrow notes portell reviewed locality info +/- 400 m			
258				
259				
260				
261	Karrow Leisey base of face of lower shell bed about 12-13' below FK27IIa			
262	Karrow Leisey base of face of lower shell bed about 12-13' below FK27IIa			
263	Karrow Leisey base of face of lower shell bed about 12-13' below FK27IIa			
264				
265				
266				
267				
268	Wingard collection see 10/16/95 letter and earlier file			
269	Wingard collection see 10/16/95 letter and earlier file			
270	Wingard collection see 10/16/95 letter and earlier file			
271	Wingard collection see 10/16/95 letter and earlier file			
272	Wingard collection see 10/16/95 letter and earlier file			
273	Wingard collection see 10/16/95 letter and earlier file			
274	Wingard collection see 10/16/95 letter and earlier file			
275	Wingard collection see 10/16/95 letter and earlier file			
276	Wingard collection see 10/16/95 letter and earlier file			
277	Wingard collection see 10/16/95 letter and earlier file			
278	Wingard collection see 10/16/95 letter and earlier file			
279	Wingard collection see 10/16/95 letter and earlier file			
280	Wingard collection see 10/16/95 letter and earlier file			
281				
282				
283				
284				
285				
286	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
287	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
288	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
289	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
290	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
291	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
292	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
293	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
294	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
295	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
296	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
297	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
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299	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
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303	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
304	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
305	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			

		J	K	L
306	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
307	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
308	Tiling 2 lower Edwards Cheng U-Th coral data here - see yellow field below			
309				
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314	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
315	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
316	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
317	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
318	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
319	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
320	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
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322	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
323	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
324	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
325	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
326	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
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328	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
329	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
330	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
331	Tiling 2 upper Edwards Cheng U-Th coral data here - see yellow field below			
332				
333				
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337				
338				
339				
340				
341				
342				
343				
344	Notes and/or Reference			
345	karrow notes; portell loc reviewed +/- 500 m			
346	Caloosa. #2, FLA			
347	Collect Feb 2002 no analyses done as of May 2010			
348	Collect Feb 2002 no analyses done as of May 2010			
349	Collect Feb 2002 no analyses done as of May 2010			
350	Collect Feb 2002 no analyses done as of May 2010			
351	FROM KARROW NOTES			
352	FLMNH 37477			
353	BEACH Tom Pickett March 1993			
354	Sr analysis			
355	Beach			
356	Wingard collection see 10/16/95 letter and earlier file			
357	Wingard collection see 10/16/95 letter and earlier file			
358	karrow notes portell reviewed locality info +/- 200 m			
359	karrow notes portell reviewed locality info +/- 125 m			
360	karrow notes portell reviewed locality info +/- 200 m			
361	karrow notes portell reviewed locality info +/- 125 m			
362	karrow notes portell reviewed locality info +/- 300 m			
363	Leisey upper Muhs email 12/10/08 124 +/- 3.5 ka			
364	Muhs et al 1992 approx loc 115 +/- 3 Leisey lower Muhs email 12/10/08			
365				
366				

		J	K	L
367				
368				
369				
370				
371				
372				
373	²³⁰ Th Age (years)	$8^{234}\text{U}_{\text{initial}}$ **		
374	(corrected)	(corrected)		
375				
376				
377	121570 ±1050	145.2 ±1.9		
378				
379	120740 ±1260	143.6 ±2.0		
380				
381	95400 ±750	120.6 ±1.7		
382				
383	93980 ±740	118.5 ±1.9		
384				
385	340800 ±13200	225 ±9		
386				
387	392200 ±26000	262 ±20		
388				
389				
390				
391	atomic ratio of $4.4 \pm 2.2 \times 10^{-6}$. Those are the values for a material at secular equilibrium, with the crustal $^{232}\text{Th}/^{238}\text{U}$ value of 3.8. The errors are arbitrarily assumed to be 50%.			
392				
393				

	M	N	O	P	Q	R	S	T	U	V	W	X	Y
62													
63													
64				Excavation/Exposure			0680AH1	Mercenaria	USFRPLC	RPLC	Total AA		USF
65				Excavation/Exposure			dfb84-13	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
66				Excavation/Exposure			dfb84-13	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
67													
68													
69													
70													
71				Excavation/Exposure			dfb84-13	Mercenaria	SAART	AAR-Standard	Total AA		UM
72				Excavation/Exposure			dfb84-14	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
73				Excavation/Exposure			dfb84-14	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
74				Excavation/Exposure			dfb84-14	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
75				Excavation/Exposure			dfb84-14	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
76													
77													
78													
79													
80							dfb84-14	Mercenaria	SAART	AAR-Standard	Total AA		UM
81				Excavation/Exposure			jw2010-002	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
82				Excavation/Exposure			jw2010-002	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
83													
84													
85													
86													
87													
88				Excavation/Exposure			dfb84-15	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
89							dfb84-15	Mercenaria	SAART	AAR-Standard	Total AA		UM
90				Excavation/Exposure			dfb84-16	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
91				Excavation/Exposure			dfb84-16	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
92				Excavation/Exposure			dfb84-16	Mercenaria	SAART	AAR-Standard	Total AA		UM
93				Excavation/Exposure			dfb84-16	Mercenaria	SAART	AAR-Standard	Total AA		UM
94				Excavation/Exposure			jw2010-003-001	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
95				Excavation/Exposure			jw2010-003-001	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
96													
97				Excavation/Exposure			0713AH1	Chione	USFRPLC	RPLC	Total AA		USF
98				Excavation/Exposure			0713BH1	Chione	USFRPLC	RPLC	Total AA		USF
99				Excavation/Exposure			0713CH1	Chione	USFRPLC	RPLC	Total AA		USF
100				Excavation/Exposure			DFB84-18	Mercenaria	SAART	AAR-Standard	Total AA		UM
101													
102				Excavation/Exposure			0683AH1	Mercenaria	USFRPLC	RPLC	Total AA		USF
103				Excavation/Exposure			DFB84-19	Mercenaria	SAART	AAR-Standard	Total AA		UM
104													
105				Excavation/Exposure			0685AH1	Mercenaria	USFRPLC	RPLC	Total AA		USF
106				Excavation/Exposure			0711AH1	Chione	USFRPLC	RPLC	Total AA		USF
107				Excavation/Exposure			0711BH1	Chione	USFRPLC	RPLC	Total AA		USF
108				Excavation/Exposure			0711CH1	Chione	USFRPLC	RPLC	Total AA		USF
109				Excavation/Exposure			DFB84-20	Mercenaria	SAART	AAR-Standard	Total AA		UM
110													
111				Excavation/Exposure			0718AH1	Chione	USFRPLC	RPLC	Total AA		USF
112				Excavation/Exposure			0718BH1	Chione	USFRPLC	RPLC	Total AA		USF
113				Excavation/Exposure			0718CH1	Chione	USFRPLC	RPLC	Total AA		USF
114				Excavation/Exposure			0719AH1	Chione	USFRPLC	RPLC	Total AA		USF
115				Excavation/Exposure			0719BH1	Chione	USFRPLC	RPLC	Total AA		USF
116				Excavation/Exposure			0719CH1	Chione	USFRPLC	RPLC	Total AA		USF
117													
118				Excavation/Exposure			0687AH1	Mercenaria	USFRPLC	RPLC	Total AA		USF
119				Excavation/Exposure			DFB84-22	Mercenaria	SAART	AAR-Standard	Total AA		UM
120													
121				Excavation/Exposure			0684AH1	Mercenaria	USFRPLC	RPLC	Total AA		USF
122				Excavation/Exposure			0715AH1	Chione	USFRPLC	RPLC	Total AA		USF

	M	N	O	P	Q	R	S	T	U	V	W	X	Y
123				Excavation/Exposure			0715BH1	Chione	USFRPLC	RPLC	Total AA		USF
124				Excavation/Exposure			0715CH1	Chione	USFRPLC	RPLC	Total AA		USF
125				Excavation/Exposure			dfb84-24	Mercenaria	SAART	AAR-Standard	Total AA		UM
126													
127				Excavation/Exposure			0701AH1	Chione	USFRPLC	RPLC	Total AA		USF
128				Excavation/Exposure			0701BH1	Chione	USFRPLC	RPLC	Total AA		USF
129				Excavation/Exposure			dfb84-25	Mercenaria	SAART	AAR-Standard	Total AA		UM
130													
131				Excavation/Exposure			0703AH1	Chione	USFRPLC	RPLC	Total AA		USF
132				Excavation/Exposure			0703BH1	Chione	USFRPLC	RPLC	Total AA		USF
133				Excavation/Exposure			0703CH1	Chione	USFRPLC	RPLC	Total AA		USF
134													
135				Excavation/Exposure			0705AH1	Chione	USFRPLC	RPLC	Total AA		USF
136				Excavation/Exposure			0705BH1	Chione	USFRPLC	RPLC	Total AA		USF
137				Excavation/Exposure			0705CH1	Chione	USFRPLC	RPLC	Total AA		USF
138				Excavation/Exposure			dfb84-27	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
139													
140				Excavation/Exposure			0707AH1	Chione	USFRPLC	RPLC	Total AA		USF
141				Excavation/Exposure			0707BH1	Chione	USFRPLC	RPLC	Total AA		USF
142				Excavation/Exposure			0707CH1	Chione	USFRPLC	RPLC	Total AA		USF
143				Excavation/Exposure			dfb84-26	Mercenaria	SAART	AAR-Standard	Total AA		UM
144													
145				Excavation/Exposure			jw96-153-2	Chione	SAART	AAR-Standard	Total AA		UDEL
146				Excavation/Exposure			jw96-153-2	Chione	SAART	AAR-Standard	Total AA		UDEL
147				Excavation/Exposure			jw96-154-003	Chione	SAART	AAR-Standard	Total AA		UDEL
148				Excavation/Exposure			jw96-154-003	Chione	SAART	AAR-Standard	Total AA		UDEL
149				Excavation/Exposure			jw96-154-003	Chione	SAART	AAR-Standard	Total AA		UDEL
150				Excavation/Exposure			jw96-154-003	Chione	SAART	AAR-Standard	Total AA		UDEL
151				Excavation/Exposure			jw96-154-004	Chione	SAART	AAR-Standard	Total AA		UDEL
152				Excavation/Exposure			jw96-154-004	Chione	SAART	AAR-Standard	Total AA		UDEL
153				Excavation/Exposure			jw96-154-1	Chione	SAART	AAR-Standard	Total AA		UDEL
154				Excavation/Exposure			jw96-154-1	Chione	SAART	AAR-Standard	Total AA		UDEL
155				Excavation/Exposure			jw96-154-2	Chione	SAART	AAR-Standard	Total AA		UDEL
156				Excavation/Exposure			jw96-154-2	Chione	SAART	AAR-Standard	Total AA		UDEL
157				Excavation/Exposure			jw96-154-5	Chione	SAART	AAR-Standard	Total AA		UDEL
158				Excavation/Exposure			jw96-154-5	Chione	SAART	AAR-Standard	Total AA		UDEL
159				Excavation/Exposure			jw96-154-5	Chione	SAART	AAR-Standard	Total AA		UDEL
160				Excavation/Exposure			jw96-156-1	Chione	SAART	AAR-Standard	Total AA		UDEL
161				Excavation/Exposure			jw96-156-1	Chione	SAART	AAR-Standard	Total AA		UDEL
162				Excavation/Exposure			jw96-156-2	Chione	SAART	AAR-Standard	Total AA		UDEL
163				Excavation/Exposure			jw96-156-2	Chione	SAART	AAR-Standard	Total AA		UDEL
164				Excavation/Exposure			jw96-156-2	Chione	SAART	AAR-Standard	Total AA		UDEL
165				Excavation/Exposure			jw96-156-2	Chione	SAART	AAR-Standard	Total AA		UDEL
166				Excavation/Exposure			jw96-156-3	Chione	SAART	AAR-Standard	Total AA		UDEL
167				Excavation/Exposure			jw96-156-3	Chione	SAART	AAR-Standard	Total AA		UDEL
168				Excavation/Exposure			jw96-157-1	Chione	SAART	AAR-Standard	Total AA		UDEL
169				Excavation/Exposure			jw96-157-1	Chione	SAART	AAR-Standard	Total AA		UDEL
170				Excavation/Exposure			jw96-158-1	Chione	SAART	AAR-Standard	Total AA		UDEL
171				Excavation/Exposure			jw96-158-1	Chione	SAART	AAR-Standard	Total AA		UDEL
172				Excavation/Exposure			jw96-158-2	Chione	SAART	AAR-Standard	Total AA		UDEL
173				Excavation/Exposure			jw96-158-2	Chione	SAART	AAR-Standard	Total AA		UDEL
174													
175				Excavation/Exposure			JW99-035		SAART	AAR-Standard	Total AA		UDEL
176													
177				Excavation/Exposure			JW99-040-001	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
178				Excavation/Exposure			JW99-040-001 Free	Mercenaria	SAARF	AAR-Standard	Free AA		UDEL
179				Excavation/Exposure			JW99-040-001 Free	Mercenaria	USFRPLC	RPLC			USF
180				Excavation/Exposure			jw99-040-001 tot	Mercenaria	USFRPLC	RPLC			USF
181				Excavation/Exposure			JW99-040-001 Z T	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
182				Excavation/Exposure			JW99-040-001X T	Mercenaria	SAART	AAR-Standard	Total AA		UDEL
183				Excavation/Exposure			JW99-040-001X T	Mercenaria	SAART	AAR-Standard	Total AA		UDEL

	M	N	O	P	Q	R	S	T	U	V	W	X	Y
245				Excavation/Exposure			0690AH1	Mercenaria	USFRPLC	RPLC	Total AA		USF
246				Excavation/Exposure			0690BH1	Mercenaria	USFRPLC	RPLC	Total AA		USF
247				Excavation/Exposure			0720AH1	Chione	USFRPLC	RPLC	Total AA		USF
248				Excavation/Exposure			0720BH1	Chione	USFRPLC	RPLC	Total AA		USF
249				Excavation/Exposure			0720CH1	Chione	USFRPLC	RPLC	Total AA		USF
250				Excavation/Exposure			0721AH1	Chione	USFRPLC	RPLC	Total AA		USF
251				Excavation/Exposure			0721BH1	Chione	USFRPLC	RPLC	Total AA		USF
252				Excavation/Exposure			0721CH1	Chione	USFRPLC	RPLC	Total AA		USF
253													
254													
255													
256													
257				Excavation/Exposure			0682AH1	Mercenaria	USFRPLC	RPLC	Total AA		USF
258													
259													
260													
261				Excavation/Exposure			0700AH1	Chione	USFRPLC	RPLC	Total AA		USF
262				Excavation/Exposure			0700BH1	Chione	USFRPLC	RPLC	Total AA		USF
263				Excavation/Exposure			0700CH1	Chione	USFRPLC	RPLC	Total AA		USF
264													
265													
266													
267													
268							jw94-21-1	Chione	SAART	AAR-Standard	Total AA		UDEL
269				Excavation/Exposure			jw94-21-1	Chione	SAART	AAR-Standard	Total AA		UDEL
270				Excavation/Exposure			jw94-21-1	Chione	SAART	AAR-Standard	Total AA		UDEL
271				Excavation/Exposure			jw94-21-2	Chione	SAART	AAR-Standard	Total AA		UDEL
272				Excavation/Exposure			jw94-21-2	Chione	SAART	AAR-Standard	Total AA		UDEL
273				Excavation/Exposure			jw94-21-2	Chione	SAART	AAR-Standard	Total AA		UDEL
274				Excavation/Exposure			jw94-21-2	Chione	SAART	AAR-Standard	Total AA		UDEL
275				Excavation/Exposure			jw94-21-3	Chione	SAART	AAR-Standard	Total AA		UDEL
276				Excavation/Exposure			jw94-21-3	Chione	SAART	AAR-Standard	Total AA		UDEL
277				Excavation/Exposure			jw94-21-4	Chione	SAART	AAR-Standard	Total AA		UDEL
278				Excavation/Exposure			jw94-21-4	Chione	SAART	AAR-Standard	Total AA		UDEL
279				Excavation/Exposure			jw94-21-5	Chione	SAART	AAR-Standard	Total AA		UDEL
280				Excavation/Exposure			jw94-21-5	Chione	SAART	AAR-Standard	Total AA		UDEL
281													
282													
283													
284													
285													
286				Excavation/Exposure			0464AH2	chione	USFRPLC	RPLC	Total AA		USF
287				Excavation/Exposure			0464BH2	chione	USFRPLC	RPLC	Total AA		USF
288				Excavation/Exposure			0465AH1	chione	USFRPLC	RPLC	Total AA		USF
289				Excavation/Exposure			0465AH2	chione	USFRPLC	RPLC	Total AA		USF
290				Excavation/Exposure			0466AH2	chione	USFRPLC	RPLC	Total AA		USF
291				Excavation/Exposure			0466BH2	chione	USFRPLC	RPLC	Total AA		USF
292				Excavation/Exposure			0467AH1	chione	USFRPLC	RPLC	Total AA		USF
293				Excavation/Exposure			0467BH1	chione	USFRPLC	RPLC	Total AA		USF
294				Excavation/Exposure			0468AH2	chione	USFRPLC	RPLC	Total AA		USF
295				Excavation/Exposure			0468BH1	chione	USFRPLC	RPLC	Total AA		USF
296				Excavation/Exposure			0469AH1	chione	USFRPLC	RPLC	Total AA		USF
297				Excavation/Exposure			0469BH1	chione	USFRPLC	RPLC	Total AA		USF
298				Excavation/Exposure			0470AH2	chione	USFRPLC	RPLC	Total AA		USF
299				Excavation/Exposure			0470BH2	chione	USFRPLC	RPLC	Total AA		USF
300				Excavation/Exposure			0471AH1	chione	USFRPLC	RPLC	Total AA		USF
301				Excavation/Exposure			0471BH1	chione	USFRPLC	RPLC	Total AA		USF
302				Excavation/Exposure			0754AH	Mercenaria	USFRPLC	RPLC	Total AA		USF
303				Excavation/Exposure			0755AH	Mercenaria	USFRPLC	RPLC	Total AA		USF
304				Excavation/Exposure			0756AH	Mercenaria	USFRPLC	RPLC	Total AA		USF
305				Excavation/Exposure			0758AH	Mercenaria	USFRPLC	RPLC	Total AA		USF

	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL
62													
63													
64	RPLC	Reverse Phase Liquid Chromatography	0680AH1		4/30/2008		Area			0.889	1.038		0.821
65	GC	AAR Gas Chromatographic analysis	2010028		4/13/2010		Area	1.490	1.045	0.915	0.993	0.946	0.969
66	GC	AAR Gas Chromatographic analysis	2010028		4/13/2010		height			0.938	0.944	0.977	0.928
67													
68													
69													
70													
71	GC		DFB84-13				Area		1.230	0.950	1.010	0.660	1.020
72	GC	AAR Gas Chromatographic analysis	2010029		4/13/2010		Area	1.353	1.196	0.888	0.976	0.941	0.980
73	GC	AAR Gas Chromatographic analysis	2010029		4/13/2010		height		1.278	0.899	0.901	0.962	0.938
74	GC	AAR Gas Chromatographic analysis	2010034		4/13/2010		Area			0.843	0.973	0.958	0.933
75	GC	AAR Gas Chromatographic analysis	2010034		4/13/2010		height			0.875			
76													
77													
78													
79													
80	GC		DFB84-14				Area		1.010	0.940	1.020	0.740	1.020
81	GC	AAR Gas Chromatographic analysis	2010032		4/27/2010		Area	1.331	1.111	0.932	1.042	0.955	0.998
82	GC	AAR Gas Chromatographic analysis	2010032		4/27/2010		height		1.140		0.893		
83													
84													
85													
86													
87													
88	GC	AAR Gas Chromatographic analysis	2010030		4/13/2010		Area	1.397	1.011	0.956	0.981	0.974	0.973
89	GC	AAR Gas Chromatographic analysis	DFB84-15				Area		1.040	0.900	1.010	0.750	1.040
90	GC	AAR Gas Chromatographic analysis	2010031		4/13/2010		Area	0.982	1.020	0.871	0.711	0.797	0.859
91	GC	AAR Gas Chromatographic analysis	2010031		4/13/2010		height	1.021			0.701	0.811	
92	GC	AAR Gas Chromatographic analysis	dfb84-16		1/24/2008		Area		1.020	0.880	0.690	0.670	0.880
93	GC	AAR Gas Chromatographic analysis	dfb84-16		1/24/2008		Height					0.680	
94	GC	AAR Gas Chromatographic analysis	2010040		4/26/2010		Area	1.424	1.065	0.947	0.999	0.984	0.999
95	GC	AAR Gas Chromatographic analysis	2010040		4/26/2010		height	1.484	1.151	0.922		1.000	
96													
97	RPLC	Reverse Phase Liquid Chromatography	0713AH1		4/30/2008		Area			0.764	0.528		
98	RPLC	Reverse Phase Liquid Chromatography	0713BH1		4/30/2008		Area			0.822	0.641		0.835
99	RPLC	Reverse Phase Liquid Chromatography	0713CH1		4/30/2008		Area			0.821	0.678		0.881
100	GC	AAR Gas Chromatographic analysis	dfb84-18		1/24/2008		Area		0.930	0.880	0.760	0.730	0.890
101													
102	RPLC	Reverse Phase Liquid Chromatography	0683AH1		4/30/2008		Area			0.796	0.737		0.755
103	GC	AAR Gas Chromatographic analysis	DFB84-19		1/24/2008		Area		0.990	0.870	0.680	0.506	0.770
104													
105	RPLC	Reverse Phase Liquid Chromatography	0685AH1		4/30/2008		Area			0.667	0.589		0.633
106	RPLC	Reverse Phase Liquid Chromatography	0711AH1		4/30/2008		Area			0.787	0.675		0.919
107	RPLC	Reverse Phase Liquid Chromatography	0711BH1		4/30/2008		Area			0.654	0.658		0.931
108	RPLC	Reverse Phase Liquid Chromatography	0711CH1		4/30/2008		Area			0.769	0.622		0.860
109	GC	AAR Gas Chromatographic analysis	DFB84-20		1/24/2008		Area		1.040	0.840	0.610	0.510	0.640
110													
111	RPLC	Reverse Phase Liquid Chromatography	0718AH1		4/30/2008		Area			0.789	0.617		0.768
112	RPLC	Reverse Phase Liquid Chromatography	0718BH1		4/30/2008		Area			0.809	0.685		0.878
113	RPLC	Reverse Phase Liquid Chromatography	0718CH1		4/30/2008		Area			0.839	0.758		0.929
114	RPLC	Reverse Phase Liquid Chromatography	0719AH1		4/30/2008		Area			0.869	0.812		1.066
115	RPLC	Reverse Phase Liquid Chromatography	0719BH1		4/30/2008		Area			0.853	0.787		0.945
116	RPLC	Reverse Phase Liquid Chromatography	0719CH1		4/30/2008		Area			0.799	0.609		0.871
117													
118	RPLC	Reverse Phase Liquid Chromatography	0687AH1		4/30/2008		Area			0.884	0.758		0.863
119	GC	AAR Gas Chromatographic analysis	DFB84-22		1/24/2008		Area		0.860	0.850	0.630	0.690	0.830
120													
121	RPLC	Reverse Phase Liquid Chromatography	0684AH1		4/30/2008		Area			0.867	0.884		0.842
122	RPLC	Reverse Phase Liquid Chromatography	0715AH1		4/30/2008		Area			0.804	0.828		0.997

Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL
123	RPLC	Reverse Phase Liquid Chromatography	0715BH1		4/30/2008	Area			0.716	0.640		0.896
124	RPLC	Reverse Phase Liquid Chromatography	0715CH1		4/30/2008	Area			0.659	0.655		0.834
125	GC	AAR Gas Chromatographic analysis	dfb84-24		1/24/2008	Area		0.930	0.900	0.830	0.810	0.870
126												
127	RPLC	Reverse Phase Liquid Chromatography	0701AH1		4/30/2008	Area			0.703	0.497		0.742
128	RPLC	Reverse Phase Liquid Chromatography	0701BH1		4/30/2008	Area			0.578	0.582		0.726
129	GC	AAR Gas Chromatographic analysis	dfb84-25		1/24/2008	Area		0.760	0.830	0.650	0.580	0.600
130												
131	RPLC	Reverse Phase Liquid Chromatography	0703AH1		4/30/2008	Area			0.736	0.546		0.753
132	RPLC	Reverse Phase Liquid Chromatography	0703BH1		4/30/2008	Area			0.712	0.493		0.717
133	RPLC	Reverse Phase Liquid Chromatography	0703CH1		4/30/2008	Area			0.784	0.489		0.681
134												
135	RPLC	Reverse Phase Liquid Chromatography	0705AH1		4/30/2008	Area			0.788	0.849		0.912
136	RPLC	Reverse Phase Liquid Chromatography	0705BH1		4/30/2008	Area			0.758	0.775		0.195
137	RPLC	Reverse Phase Liquid Chromatography	0705CH1		4/30/2008	Area			0.843	0.925		1.020
138	GC	AAR Gas Chromatographic analysis	dfb84-27		1/24/2008	Area	0.980	1.030	0.930	0.850	0.730	0.990
139												
140	RPLC	Reverse Phase Liquid Chromatography	0707AH1		4/30/2008	Area			0.833	0.715		0.841
141	RPLC	Reverse Phase Liquid Chromatography	0707BH1		4/30/2008	Area			0.987	0.764		0.909
142	RPLC	Reverse Phase Liquid Chromatography	0707CH1		4/30/2008	Area			0.799	0.753		0.862
143	GC	AAR Gas Chromatographic analysis	dfb84-26		1/24/2008	Area		0.970	0.900	0.780	0.756	0.760
144												
145	GC	AAR Gas Chromatographic analysis	960245			Area		0.977	0.717	0.431	0.675	0.618
146	GC	AAR Gas Chromatographic analysis	960245			Height		0.940		0.630	0.695	0.665
147	GC	AAR Gas Chromatographic analysis	960368			Area	1.310	0.971	0.888	0.956	0.940	1.000
148	GC	AAR Gas Chromatographic analysis	960368			Height	1.290		0.780	0.673		
149	HPLC	AAR High Pressure Liquid Chromatography	960368			Area	1.343					
150	HPLC	AAR High Pressure Liquid Chromatography	960368			Height	1.363					
151	GC	AAR Gas Chromatographic analysis	960369			Area		0.954			0.911	
152	GC	AAR Gas Chromatographic analysis	960369			Height	1.180			0.700		0.850
153	GC	AAR Gas Chromatographic analysis	960246			Area		0.964	0.780	0.650	0.812	
154	GC	AAR Gas Chromatographic analysis	960246			Height						
155	GC	AAR Gas Chromatographic analysis	960247			Area	1.117	0.989	0.837	0.760	0.928	0.765
156	GC	AAR Gas Chromatographic analysis	960247			Height	1.250	0.960	0.880		0.840	0.870
157	GC	AAR Gas Chromatographic analysis	960383			Area	1.480	0.892	0.810	0.898	0.874	0.876
158	GC	AAR Gas Chromatographic analysis	960383			Height	1.030	0.880		0.700	0.910	0.750
159	HPLC	AAR High Pressure Liquid Chromatography	960383			Height	1.320					
160	GC	AAR Gas Chromatographic analysis	960248			Area	0.767	0.837	0.760	0.549	0.706	0.626
161	GC	AAR Gas Chromatographic analysis	960248			Height						
162	GC	AAR Gas Chromatographic analysis	960384			Area	0.857	0.928	0.785	0.581	0.721	0.795
163	GC	AAR Gas Chromatographic analysis	960384			Height	0.790	0.870			0.725	
164	HPLC	AAR High Pressure Liquid Chromatography	960384			Area	0.867					
165	HPLC	AAR High Pressure Liquid Chromatography	960384			Height	0.961					
166	GC	AAR Gas Chromatographic analysis	960382			Area	0.718	0.852	0.771	0.524	0.649	0.678
167	GC	AAR Gas Chromatographic analysis	960382			Height	0.780	0.830				
168	GC	AAR Gas Chromatographic analysis	960249			Area		0.920	0.713		0.719	
169	GC	AAR Gas Chromatographic analysis	960249			Height				0.750		0.750
170	GC	AAR Gas Chromatographic analysis	960370			Area	0.940	1.051	0.757	0.848	0.888	0.836
171	GC	AAR Gas Chromatographic analysis	960370			Height	1.200	0.990	0.880			
172	GC	AAR Gas Chromatographic analysis	960385			Area	1.490	0.979	0.863	0.810	0.930	0.873
173	GC	AAR Gas Chromatographic analysis	960385			Height	1.140					
174												
175	GC	AAR Gas Chromatographic analysis	990067			Area	1.242	0.938	0.865	0.696	0.770	0.831
176												
177	GC	AAR Gas Chromatographic analysis	990055			Area	1.112	0.942	0.889	0.670	0.789	0.837
178	GC	AAR Gas Chromatographic analysis	990144			Area						
179	RPLC	Reverse Phase Liquid Chromatography	2001043		6/21/2009	Area	1.243		0.933	0.823		
180	RPLC	Reverse Phase Liquid Chromatography	2001042		6/21/2009	Area	0.880		0.856	0.741		
181	GC	AAR Gas Chromatographic analysis	990169			Area	1.172	0.928	0.867	0.615	0.742	0.845
182	GC	AAR Gas Chromatographic analysis	990167			Area	1.092	0.917	0.890	0.654	0.769	0.820
183	GC	AAR Gas Chromatographic analysis	990167			Height			0.860			

Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL
245	RPLC	Reverse Phase Liquid Chromatography	0690AH1	4/30/2008		Area			0.872	0.698		0.845
246	RPLC	Reverse Phase Liquid Chromatography	0690BH1	4/30/2008		Area			0.810	0.749		
247	RPLC	Reverse Phase Liquid Chromatography	0720AH1	4/30/2008		Area			0.782	0.632		0.861
248	RPLC	Reverse Phase Liquid Chromatography	0720BH1	4/30/2008		Area			0.578	0.481		0.712
249	RPLC	Reverse Phase Liquid Chromatography	0720CH1	4/30/2008		Area			0.755	0.765		1.029
250	RPLC	Reverse Phase Liquid Chromatography	0721AH1	4/30/2008		Area			0.792	0.935		0.486
251	RPLC	Reverse Phase Liquid Chromatography	0721BH1	4/30/2008		Area			0.615	0.661		
252	RPLC	Reverse Phase Liquid Chromatography	0721CH1	4/30/2008		Area			0.787	0.817		0.204
253										0.717		
254												
255												
256												
257	RPLC	Reverse Phase Liquid Chromatography	0682AH1	4/30/2008		Area			0.768	0.627		0.715
258												
259												
260												
261	RPLC	Reverse Phase Liquid Chromatography	0700AH1	4/30/2008		Area			0.876	0.938		1.174
262	RPLC	Reverse Phase Liquid Chromatography	0700BH1	4/30/2008		Area			0.817	0.928		1.118
263	RPLC	Reverse Phase Liquid Chromatography	0700CH1	4/30/2008		Area			0.905	0.957		1.134
264												
265												
266												
267												
268	GC	AAR Gas Chromatographic analysis	950052a			Area	0.827	0.807	0.786	0.612	0.694	0.639
269	HPLC	AAR High Pressure Liquid Chromatography	950052a			Area	0.843					
270	HPLC	AAR High Pressure Liquid Chromatography	950052a			Height	0.878					
271	GC	AAR Gas Chromatographic analysis	950053			Area			0.803	0.563		0.684
272	GC	AAR Gas Chromatographic analysis	950053			Height					0.640	
273	HPLC	AAR High Pressure Liquid Chromatography	950053a			Area	0.916					
274	HPLC	AAR High Pressure Liquid Chromatography	950053a			Height	0.979					
275	HPLC	AAR High Pressure Liquid Chromatography	950054			Area	0.988					
276	HPLC	AAR High Pressure Liquid Chromatography	950054			Height	0.998					
277	HPLC	AAR High Pressure Liquid Chromatography	950080			Area	0.835					
278	HPLC	AAR High Pressure Liquid Chromatography	950080			Height	0.835					
279	HPLC	AAR High Pressure Liquid Chromatography	950081			Area	0.932					
280	HPLC	AAR High Pressure Liquid Chromatography	950081			Height	0.957					
281												
282												
283												
284												
285												
286	RPLC	Reverse Phase Liquid Chromatography	0464AH2	4/7/2008		Area			0.818	0.914		0.849
287	RPLC	Reverse Phase Liquid Chromatography	0464BH2	4/7/2008		Area			0.862	0.965		1.052
288	RPLC	Reverse Phase Liquid Chromatography	0465AH1	4/7/2008		Area			0.725	0.852		0.977
289	RPLC	Reverse Phase Liquid Chromatography	0465AH2	4/7/2008		Area			0.767	0.865		1.046
290	RPLC	Reverse Phase Liquid Chromatography	0466AH2	4/7/2008		Area			0.767	0.832		0.833
291	RPLC	Reverse Phase Liquid Chromatography	0466BH2	4/7/2008		Area			0.808	0.865		0.927
292	RPLC	Reverse Phase Liquid Chromatography	0467AH1	4/7/2008		Area			0.774	0.822		0.662
293	RPLC	Reverse Phase Liquid Chromatography	0467BH1	4/7/2008		Area			0.859	0.818		1.111
294	RPLC	Reverse Phase Liquid Chromatography	0468AH2	4/7/2008		Area			0.873	0.961		1.194
295	RPLC	Reverse Phase Liquid Chromatography	0468BH1	4/7/2008		Area			0.845	0.984		1.095
296	RPLC	Reverse Phase Liquid Chromatography	0469AH1	4/7/2008		Area			0.768	0.866		0.981
297	RPLC	Reverse Phase Liquid Chromatography	0469BH1	4/7/2008		Area			0.783	0.843		0.964
298	RPLC	Reverse Phase Liquid Chromatography	0470AH2	4/7/2008		Area			0.656	0.692		0.850
299	RPLC	Reverse Phase Liquid Chromatography	0470BH2	4/7/2008		Area			0.851	0.960		
300	RPLC	Reverse Phase Liquid Chromatography	0471AH1	4/7/2008		Area			0.764	0.882		0.862
301	RPLC	Reverse Phase Liquid Chromatography	0471BH1	4/7/2008		Area			0.803	0.943		0.937
302	RPLC	Reverse Phase Liquid Chromatography	0754AH	4/7/2008		Area			0.900	0.948		1.030
303	RPLC	Reverse Phase Liquid Chromatography	0755AH	4/7/2008		Area			0.914	0.998		1.020
304	RPLC	Reverse Phase Liquid Chromatography	0756AH	4/7/2008		Area			0.851	0.892		1.090
305	RPLC	Reverse Phase Liquid Chromatography	0758AH	4/7/2008		Area			0.920	1.003		1.060

	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
62										
63										
64		1.038								
65		0.906	0.953	0.980	0.926		Early Pleist			
66										
67										
68										
69										
70										
71	0.790	0.970								
72		0.948	0.961	1.042	0.944		Early Pleist			
73		1.020	0.955	1.089	0.991					
74										
75										
76										
77										
78										
79										
80	0.870	1.030								
81	0.782	0.943	0.985	1.022	0.949		Early Pleist			
82										
83										
84										
85										
86										
87										
88		0.948	0.969	0.984	0.961					
89	0.850	1.110								
90		0.687	0.763	0.946	0.742					
91		0.720			0.765		Mix of early and late Pleistocene			
92	0.810	0.740		0.935						
93										
94		0.956	0.984	1.006	0.970					
95		1.001		1.037	1.001					
96										
97										
98		0.657					Late Pleistocene			
99		0.701								
100	0.760	0.790								
101										
102		0.692					Late			
103	0.730	0.510								
104										
105		0.585								
106		0.699					Late Pleistocene			
107		0.681								
108		0.659								
109	0.680									
110										
111		0.685								
112		0.923								
113		0.919					Late Pleist			
114		0.908								
115		0.917								
116		0.721								
117										
118		0.785					scatter			
119	0.670	0.650								
120										
121		0.896								
122		1.056					Scatter			

	A	B	C	D	E	F	G	H
123								
124								
125								
126								
127	Oches	10152	Sarasota	Deans Trucking	27.1500	-82.3950	100	USF
128	Oches	10152	Sarasota	Deans Trucking	27.1500	-82.3950	100	USF
129	Oches	10152	Sarasota	Deans Trucking	27.1500	-82.3950	100	USF
130	Oches	10152	Sarasota	Deans Trucking	27.1500	-82.3950	100	USF
131	Oches	10152	Sarasota	Deans Trucking	27.1500	-82.3950	100	USF
132	Oches	10152	Sarasota	Deans Trucking	27.1500	-82.3950	100	USF
133	Oches	10152	Sarasota	Deans Trucking	27.1500	-82.3950	100	USF
134	Oches	10152	Sarasota	Deans Trucking	27.1500	-82.3950	100	USF
135	Oches	10152	Sarasota	Deans Trucking	27.1500	-82.3950	100	USF
136	Oches	10152	Sarasota	Deans Trucking	27.1500	-82.3950	100	USF
137								
138								
139								
140								
141								
142	Karrow	10182	Sarasota	FK-3	27.2440	-82.5360	100	USF
143	Karrow	10182	Sarasota	FK-3	27.2440	-82.5360	100	USF
144	Karrow	10182	Sarasota	FK-3	27.2440	-82.5360	100	USF
145								
146								
147								
148								
149								
150			OTHER LOCALITIES					Lab/Result
151	Wehmiller	10118	Sarasota	QA Phase 9	27.3729	-82.3860	100	UDEL
152	Belknap	10001	Sarasota	Woodmere Pit	27.0228	-82.3968	100	USF/UM
153	Mitterer	10007	Sarasota	Mitterer 3	27.2050	-82.4600	10000	UT/CIW
154	Mitterer	10035	Sarasota	Mitterer 31	27.4500	-82.4100	10000	UT/CIW
155								
156	Karrow	10172	Sarasota	FK-30	27.4017	-82.4395	200	data?
157								
158								
159								
160								
161			UPDATED NOV 8 2013					
162			reviewed July 23 2014					

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6	Notes and/or Reference		SurfElev_m	SampledFrom	OverBurdenThickness_m	LengthOfSection_m	TidalFactor
7	loc data found july 10 2009						
8							
9	karrow notes; portell loc reviewed +/- 100 m shells leached no data						
10	karrow notes; portell loc reviewed +/- 100 m shells leached no data						
11	karrow notes; portell loc reviewed +/- 100 m shells leached no data						
12	karrow notes; portell loc reviewed +/- 100 m c14>40ka						
13							
14							
15							
16							
17	karrow notes; portell loc reviewed +/- 1100 m						
18	karrow notes; portell loc reviewed +/- 1100 m						
19	karrow notes; portell loc reviewed +/- 1100 m						
20	karrow notes; portell loc reviewed +/- 1100 m						
21							
22							
23							
24							
25							
26	FROM KARROW NOTES DFB DATA SHELL BADLY LEACHED Portell reviewed May 2012 big quarry so a lot of uncertainty						
27							
28							
29							
30							
31	karrow notes portell reviewed locality info +/- 250 m						
32	karrow notes portell reviewed locality info +/- 250 m						
33	karrow notes portell reviewed locality info +/- 250 m						
34	karrow notes portell reviewed locality info +/- 250 m						
35	karrow notes portell reviewed locality info +/- 250 m						
36	karrow notes portell reviewed locality info +/- 250 m						
37	karrow notes portell reviewed locality info +/- 250 m						
38	karrow notes portell reviewed locality info +/- 250 m						
39	karrow notes portell reviewed locality info +/- 250 m						
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44	karrow notes portell reviewed locality info +/- 150 m						
45	karrow notes portell reviewed locality info +/- 150 m						
46	karrow notes portell reviewed locality info +/- 150 m						
47	karrow notes portell reviewed locality info +/- 150 m						
48	karrow notes portell reviewed locality info +/- 150 m						
49	karrow notes portell reviewed locality info +/- 150 m						
50	karrow notes portell reviewed locality info +/- 150 m						
51	karrow notes portell reviewed locality info +/- 150 m						
52	karrow notes portell reviewed locality info +/- 150 m						
53							
54							
55							
56							
57	karrow notes portell reviewed locality info +/- 250 m						
58	karrow notes portell reviewed locality info +/- 250 m						
59	karrow notes portell reviewed locality info +/- 250 m						
60	karrow notes portell reviewed locality info +/- 250 m						
61							

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62							
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66							
67	Tiling 3						
68	Tiling 3						
69	Tiling 3						
70	Tiling 3						
71	Tiling 3						
72	Tiling 3						
73	Tiling 3						
74	Tiling 3						
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123							
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127	Tiling 4 approx						
128	Tiling 4 approx						
129	Tiling 4 approx						
130	Tiling 4 approx						
131	Tiling 4 approx						
132	Tiling 4 approx						
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134	Tiling 4 approx						
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136	Tiling 4 approx						
137							
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142	Karrow Sarasota beach rock Equiv to DFB Point of Rocks						
143	Karrow Sarasota beach rock Equiv to DFB Point of Rocks						
144	Karrow Sarasota beach rock Equiv to DFB Point of Rocks						
145							
146							
147							
148							
149							
150							
151	Perhaps should be labeled phase 7-1				no data		
152	loc data found july 10 2009				ust/um		
153	Approx loc; see Mitterer list				rmm		
154	Approx loc; see Mitterer list				rmm		
155							
156	karrow notes portell reviewed locality info +/- 200 m				no data		
157							
158							
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12	FRANGE RESULTS	
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26	(one sample)	
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62			UPDATED NOV 8 2013					

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1									
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3			DATA						
4									
5	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Analysis	Notes and/or Reference
6	Belknap	10162	Titusville	Allenhurst	28.73629	-80.75533	100	UDEL	ALFL of DFB 8/18/09 revised
7	Belknap	10162	Titusville	Allenhurst	28.73629	-80.75533	100	UDEL	ALFL of DFB 8/18/09 revised
8	Belknap	10162	Titusville	Allenhurst	28.73629	-80.75533	100	USF/UM	ALFL of DFB 8/18/09 revised
9									
10									
11									
12									
13			OTHER LOCALITIES					Lab/Result	
14									
15									
16	rmm	10012	Titusville	Mitterer 8	27	-80	10000	rmm	unknown locality - guess only!
17	Osmond	OMT1	Titusville	Titusville	28.56	-80.85	osmond	U-Th	Osmond et al 1970
18	Mitterer 2010	10192	Titusville	Mitterer ref no 20	28.645	-80.688	5000	rmm	communicated from Mitterer July 2010 loc plot using township range descrip
19	Mitterer 2010	10193	Titusville	Mitterer ref no 27	28.502	-80.715	5000	rmm	communicated from Mitterer July 2010 loc plot using township range descrip
20	Mitterer 2010	10199	Titusville	Mitterer OS-2	28.876	-80.840	5000	rmm	communicated from Mitterer July 2010 loc plot using township range descrip
21	Mitterer 2010	10203	Titusville	Mitterer OS-2	28.867	-80.841	5000	rmm	Oak Hill A/I 0.42 No other info
22									
23									
24									
25			updated reviewed nov 9 2013						
26									
27			reviewed July 21 2014						

	A	B	C	D	E	F	G	H	I
1									
2			DATA						
3									
4	Source	UDAMS	Map100k	LocalityID	Lat	Long	Coordinate_precision_m	Analysis	Notes and/or Reference
5	FLMNH	10117	Vero Beach	101 Ranch Pit	27.5239	-80.9636	50	UDEL	Sr analysis FLMNH samples Loc info provided by R Portell May 2012
6	FLMNH	10117	Vero Beach	101 Ranch Pit	27.5239	-80.9636	50	UDEL	Sr analysis FLMNH samples Loc info provided by R Portell May 2012
7	FLMNH	10117	Vero Beach	101 Ranch Pit	27.5239	-80.9636	50	UDEL	Sr analysis FLMNH samples Loc info provided by R Portell May 2012
8	FLMNH	10117	Vero Beach	101 Ranch Pit	27.5239	-80.9636	50	UDEL	Sr analysis FLMNH samples Loc info provided by R Portell May 2012
9									
10	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
11	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
12	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
13	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
14	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
15	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
16	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
17	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
18	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
19	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
20	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
21	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
22	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
23	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
24	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
25	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
26	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
27	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
28	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
29	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
30	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
31	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
32	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
33	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
34	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
35	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
36	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
37	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
38	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
39	Oches USF	10156	Vero Beach	101 Ranch Pit	27.5254	-80.9691	50	USF	Tiling 8 loc probably by GPS
40									
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42									
43			OTHER LOCALITIES						
44								Lab/Result	
45	FLMNH	10121	Vero Beach	101 Ranch Pit -2 site 1 Bed 3	27.5253	-80.9686	50	no data	Portell reviewed May 2012
46	McCartan	10080	Vero Beach	Ft Drum upper	27.5216	-80.7466	1000	no data	McCartan
47	McCartan	10081	Vero Beach	Ft Drum lower	27.5216	-80.7466	1000	no data	McCartan
48	Mitterer	10018	Vero Beach	Mitterer 14	27.7000	-80.4700	10000	UT/CIW aar	Approx loc; see Mitterer list; no information on data or location
49									
50									
51									
52			Updated Nov 9 2013; reviewed July 21 2014						

	AL	AM	AN	AO	AP	AQ	AR
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4	Leucine	Phenylalanine	Proline	Valine	V LPG	Ala_Asp	Val_Leu
5	0.883	0.929		0.861	0.891	0.943	0.872
6	0.889	0.899		0.867	0.892	0.948	0.878
7	0.904	0.876		1.035		0.906	0.970
8	0.908	0.945		0.920	0.925	0.934	0.914
9							
10		0.847		0.653			
11		0.993		0.972			
12		0.959		0.979			
13		0.982		0.994			
14		0.940		0.974			
15		0.974		0.987			
16		0.888		0.921			
17		0.968					
18		0.915		0.932			
19		0.894		0.943			
20		0.942		0.970			
21		0.976		0.948			
22		1.002		1.026			
23		0.965		1.026			
24		0.983		0.815			
25		0.891		1.008			
26		0.973		0.995			
27		1.057		1.036			
28		0.983		0.882			
29		0.664		0.731			
30		1.061		0.955			
31		1.198		1.126			
32		0.976		0.959			
33		1.020		0.988			
34				0.811			
35		1.061		1.044			
36		1.198		1.033			
37		0.976		0.889			
38		1.020		1.031			
39		0.825		0.981			
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