

CRUISE PLAN

V.2013

QUICK REFERENCE

Cruise Plan is a tool for planning your cruise, logging the metadata for each sampling event and transmitting this data to the program database when the cruise is completed....

- 1. Enter the metadata for your cruise on the top portion of the first sheet in the workbook [Cruise].
- 2. Plan your cruise by entering sites where you will conduct sampling events.
- 3. Plan your activity at each site by listing the sampling or observation tasks for that site in the second sheet of the workbook [Site plan]. The completed cruise plan will generate a standard
- 4. Press the button to generate a KML file mapping your sites and route. (Note, you can easily update your progress during the cruise by emailing the KML file back to your data manager.)
- 5. When you are ready to log a sampling event, press the [Create] button for that task to generate a sample worksheet specifically for that type of sampling—e.g. CTD/rosette.
- 6. When the cruise is completed, submit the workbook to the data manager to easily enter the cruise metadata into the data base.

Abstract:

This is the first sheet of the Cruise Workbook. On this page the Project, Cruise Ship, Cruise Type and Cruise_ID need to be added. These information will appear on each event of the cruise so, is not necessary to add it again. Also, the Abstract and Keywords of the cruise are required.

A	А	В	С	D	E	F	G	Н
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1		Dee	-Q-	CRUISE V	VORK	BOOK		
2		CONS	ORTIUM	v	/ersion 1-6			
3	Drojecti	Deep C	Cruico Shir	P//Westbarbird 2	Cruice Tupou	Caashamistar	CRUISE ID:	WD 1219
5	Project:	Deep-C	cruise snip	b: Ky v Weatherbird 2	cruise type:	Geochemistry	_ CRUISE_ID:	WB-1218
6	ABST	RACT						
7								
8	Keyword	s						
	sediment	t, plankton, disso	lved gis, metane	2				
9								

Cruise Plan:

This is the main sheet of the Cruise Plan. On the top of this page, you will see the Project, Cruise Ship, Cruise Type and Cruise ID already there. These data is automatically generated from the abstract page. Before you fill this page, be sure you add on the personnel sheet the list of all the people involved in this cruise. So, when you add the Chief Scientist and the Captain with the pull down menu, you will see the names there.

Deep-C	CRUIS	SE WORKBOOK Version 2013		
Project:	Cruise Ship:	Cruise Type:	CRUISE_ID:	
Final Report:	Cruise Plan:			
CHIEF SCIENTIST:		CAPTAIN:		
Depart Port:	Depart Date:	Depart Time:	CD	т 💌
Return Port:	Return Date:	Return Time:	CD	Т
Operation Region 1		Operation Region 2		
Add		Transit Est. Arrival Actual (H.h) (dd-mmm HH:MM) Arrival	Work Depart (H.h) (dd-mmm HH:MM)	Straight Transit Distant: Speed
	MM_mm			
Site # 0 DEEP_C_Site	Lat:			0.00
Site # 1.3 DEEP_C_Site	Lat:			0.00

Site o – Depart Port
Site 0 is always the Departure Port. When a port is selected, then you will see Latitude and
Longitude of the site.
¹ Deep-C CRUISE WORKBOOK
A Project: Deep-C Cruise Ship: R/V Weatherbird 2 Cruise Type: Geochemistry CRUISE ID: WB-1218
5 Final Report: Cruise Plan:
6 CHIEF SCIENTIST: Jeff Chanton CAPTAIN: Matt
7 Depart Port: Pensacola FL Depart Date: 5/18/2012 Depart Time: 17:00
8 Return Port: Pensacola FL Return Date: 5/22/2012 Return Time: 5:00 CDT 💌
9 Operation Region 1 Operation Region 2
Indext
14 MM_mm Onmi (nm/h)
15 Lat: 30.402372 24.14 16 Site # 0 Pensacola FL n: -87.212838 -12.77 17 Pensacola FL
18 Panama City FL Venice LA venice LA 19 Site # 1 Cocodrie LA r: -87.21502 -12.90 18-May 17:00 18-May 18:54 19-May 02:54 40.70
20 Galpeston TX 21 Corpus Christi TX rt: 29.81556 48.93
22 Site # 2 DS Fish 4 Lon: -87.33408 -20.04 3.66 19-May 06:33 19-May 01:00 8 19-May 09:00 75.43 6 23 23 23 23 24 24 25 25 26 26 27 27 28 27 28 28 28 28 28 28 23 28 28 28 28 28 29 28
Lat: 29.2335 14.01 25 Site # 3 DS-3.6 Lon: -87.7345 -44.07 6.79 19-May 15:47 19-May 06:56 8 19-May 14:56 5.76 6
Zb 27 Lat: 29.183217 10.99 IM 4 >> H Metadata / Abstract cruise / Site_plan / Site_List / PERSONNEL / Lists / PK1 / PK2 / FN3 / FN4 / FN5 / FN6]] 4 Ready Image: Comparison of the plan / Site_List / PERSONNEL / Lists / PK1 / PK2 / FN3 / FN4 / FN5 / FN6]] 4

- ✓ Est. Arrival: Date of Estimate Arrival (added by user)
- Actual Arrival: Date of Actual Arrival (added by user)
- ✓ Work: Hours of work on the site (added by user)
- ✓ Depart: Est.Arrival/Actual Arrival + Work (auto)
- Straight Distant: Distant between current site and next site (auto)
- ✓ Km/Miles: Change the measure of the distant.
- ✓ Transit Seed: Seep of the Ship (added by user)

Add Sites

You can Add more sites clicking on the ADD Button.

Add Cruise Ship: R/V Weatherbird 2 Cruise Type: Geochemistry CRUISE JD: WB-1218 6 CHIEF SCIENTIST: Jeff Chanton CAPTAIN: Matt 7 Depart Port: Project: Persacola FL Depart Date: 5/18/2012 Depart Time: 17:00 CDT Image: Common Straight 8 Return Port: Pensacola FL Return Date: 5/22/2012 Return Time: 5:00 CDT Image: Common Straight Transkt 9 Operation Region 1 Operation Region 2 Operation Region 2 Image: Common Straight Transkt Straight Transkt 14 MM_mm MM_mm MM_mm Image: Common Straight		A B	C D E	E (G	H I	JK	L	M	N	0 P	QR	S	TUV
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6 CHIEF SCIENTIST: jeff Chanton CAPTAIN: Matt 7 Depart Port: Pensacola FL Depart Date: 5/18/2012 Depart Time: 17:00 CDT 8 Return Port: Pensacola FL Return Date: 5/22/2012 Return Time: 5:00 CDT ● 9 Operation Region 1 Operation Region 2 Operation Region 2 Operation Region 2 Depart Image: Straight Image: Straight </td <td>5</td> <td>Final Repo</td> <td>t: 🗹</td> <td> Cruise</td> <td>Plan:</td> <td colspan="3"></td> <td>- Geochenni</td> <td>stry</td> <td colspan="3"></td> <td>10</td>	5	Final Repo	t: 🗹	Cruise	Plan:				- Geochenni	stry				10
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5 Final Report		Cruise Plan:							
6 CHIE	F SCIENTIST:	Jeff	Chanton		CAPTAIN: N	latt			
7 Depart Po	ort: Pensacola F	L Depart Date:	5/18/2012		Depart Time:	17:00	CDT		
8 Return Po	ort: Pensacola F	L Return Date:	5/22/2012		Return Time:	5:00	CDT		
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22									
23		Lat: 29 2325	14.01						

Site Plan

When all the sites are added, on the Site Plan sheet appear all the sites with Latitude/Longitude and Arrival (date/time). The Arrival is the "Actual Arrival" on the cruise sheet, but if this information is empty it will show "Est. Arrival".

4	A	В	C	D	E	F	G	Н	E.	L	K	L	M	N	0	Р	Q	R	S
	Create	KML						ent No	Create			ent No	Create			ent No	Create		
1	Site No.	Site Name	Latitude	Longitude	Arrival	Task 1	Hrs	E	Event	Task 2	Hrs	E	Event	Task 3	Hrs	E	Event	Task 4	Hr
2	0	St Petersburg FL	27.762697	-82.635856	22-Sep 08:00												A.S.		
3				8		Comments:		8 0		30	15 1		3	3	25	23 - 1	10		
4	1	USBL-Calibration	27.628611	-83.294228	22-Sep 13:20	General Event	2	1	Create	Multicore		2	Create	CTD LOG		3	Create	Survey Event	
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6	2	2-USBL cal	27.72416667	-83.41066667	22-Sep 21:00	Survey Event	6	5	Create	General Event	2	6	Create			à.	Create		
7			Tota	I Time on Site:	8	Comments:		2 12	~	20			3	8	20	-			
8	3	AC-1	29.474547	-86.958724	23-Sep 22:57	CTD LOG	8	7	Create	Survey Event		8	Create	Multicore		9	Create	Multicore	
9			Tota	Time on Site:	8	Comments:			-	25				51	100				
10	4	AC-2	29.297676	-86.996878	24-Sep 14:01	CTD LOG		12	Create	Survey Event		13	Create	Multicore		14	Create	Multicore	
11			Tota	Time on Site:	0	Comments:				25					100				
12	5	PCB-06	28.994509	-87.457433	25-Sep 09:03	CTD LOG		17	Create	Survey Event		18	Create				Create		
13			Tota	Time on Site:	0	Comments:				25					200				
14	6	Seep A	29.043028	-87.282473	25-Sep 20:50	CTD LOG		19	Create	Survey Event		20	Create	CTD LOG		21	Create	Multicore	
15			Tota	Time on Site:	0	Comments:						_			1				
16	7	AC-4	29.00039	-87.507422	26-Sep 14:00	Survey Event		25	Create	CTD LOG		26	Create	Survey Event	Ĩ	27	Create		
17			Tota	Time on Site:	0	Comments:			-										
18	8	AC-5	28,94011	-87 582405	26-Sep 22:32	Survey Event		28	Create				Create	1			Create		
19			Tota	Time on Site:	0	Comments:			-						-				
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25		Jeep 0	Tota	Time on Site:	0	Comments:		32		Jourvey Event				4				-	
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32	15	Panama City El	30 175405	-85 7801/	30-Sep 08:00	comments.	-		Create	1	<u> </u>		Create	1	1		Create	-	
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Create Route on Google Earth

At the beginning of the Site Plan sheet you will find a CREATE KML button. This is a macro program which will create a KML file with all the sites (using latitude and longitude) on the Cruise Plan. At the end of this process, Google Earth will open the KML file with the route of the cruise.



Create Route on Google Earth

The Route of the Cruise could have 2 kind of lines, thick or thin. The thick line is the route you already pass through. The thin line is route you are about to pass on the next days. When you click on a Site, you will find useful information about the name of the site and the Arrival Date. The date used here is Arrival Date, but if you don't have it yet, it will use the Estimated Date.



Create an Event

On each Site, you can select from the drop down menu the kind of the Task (Event) is needed. You may select up to 7 Tasks (Events) for each site. Next to the Task you will see a consecutive number who is going to be the Event number. When you finish to assign all the Task for all the Sites, you can press the CREATE button for each Task. (important note: once you create the forms, the event number can't be changed)

1	E	F	G	Н	1	J	K	L	M	N	0	P	Q	R	S	Т	U	V	W
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5	22.0 12.22	Comments:	-		Create	La del como			Counto	Intra Loc			Create				Create		
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8	23-Sep 22:57	CTD LOG	8	7	Create	Longline_trap sampling	μ	8	Create	Multicore		9	Create	Multicore		10	Create	Multicore	
9	8	Comments:	-			General Event	-							I				I	
10	24-Sep 14:01	CTD LOG	-	12	Create	Survey Event		13	Create	Multicore		14	Create	Multicore		15	Create	Multicore	
11	0	Comments:	1		-				-			-	-	1	_	_			
12	25-Sep 09:03	CTD LOG		17	Create	Survey Event		18	Create				Create			- d	Create		
13	0	Comments:																a	
14	25-Sep 20:50	CTD LOG		19	Create	Survey Event		20	Create	CTD LOG		21	Create	Multicore		22	Create	Multicore	
15	0	Comments:																	
16	26-Sep 14:00	Survey Event		25	Create	CTD LOG		26	Create	Survey Event		27	Create			- 0	Create		
17	0	Comments:																	
18	26-Sep 22:32	Survey Event		28	Create				Create				Create				Create		
19	0	Comments:	·	_						<u>.</u>									
20	27-Sep 08:53	CTD LOG		29	Create	Survey Event		30	Create				Create				Create		
21	0	Comments:				DIST CARGE STREET													
22	27-Sep 18:09	Survey Event		31	Create				Create				Create				Create		
23	0	Comments:	()						8		_		a						
24	28-Sep 04:48	CTD LOG		32	Create	Survey Event		33	Create				Create			1	Create		
25	0	Comments:																	
26	28-Sep 14:02	CTD LOG		34	Create	Multicore		35	Create	Multicore		36	Create	Multicore		37	Create	Survey Event	
27	0	Comments:	ĺ,																
28	28-Sep 22:54	Survey Event		39	Create				Create				Create				Create		
29	0	Comments:																	

If a Event has been already created, this error message will appear. Click OK and proceed to another event.



Create an Event

For each event that is created, You will see a new sheet on the Excel workbook. The name of the Event is going to be defined for the type of the Event and the Event number.

30					Create
31	Comments:			1	
32		5	3		Create
33	Comments:				
34					Create
35	Comments:			• •	
36		5	3		Create
37	Comments:				
38					Create
39	Comments:			• •	
40		5	20		Create
41	Comments:				
42					Create
43	Comments:	Site_plan / PERSONNEL /	Site_List / Lists / MC1	 04 / CT5 / FS6 / SV7 / GN8	
Rea	dy 🚺				

Event Type	
Multicore	MC
Fauna Data	FN
Plankton Sample	РК
Sediments Sample	SD
CTD LOG	СТ
Longline_trap sampling	FS
Survey Event	SV
General Event	GN
Deployment Log	DP

Event: MULTICORE EVENT

The basic information of the Cruise, Site, Event ID, etc will appear automatically on each form. If the information on the CRUISE sheet is changed, automatically all the event basic information will change.

CON	SORTIUM		WIULII	CORE	EVEN	I		
roject:		Cruise Ship:		Cruise Type:		CRUISE_ID:	10	
VENT No:		EVENT ID:	MC		Site:	DEEP_C_Site		
ate:		Time:	Depth:		m Latitud	de:	Longitude:	
#	CORE	CORE	CORE	CORE	CORE	CORE	CORE	CORE
Comment								
Sample								
							_	
Photo								

Event: FAUNA SAMPLE COLLECTIONS

Project:	C	ruise Ship:	C	ruise Type:	CRUISE,	_ID:	
EVENT No:			FN	Site:	DEEP_C_Site		
Date:		Time:		Depth:	m		
	Tow start time:		25	Start depth:	2	m	
	Tow end time: End Position: Lat			Long. End depth: Long.	5 5 10	m	
	Samples		# individuals		Bag/containe	r label	PI
	1000	~~~					
		8					-
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		- 23		3			1
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		82 67		1			
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		- 8		2			1

Event: PLANKTON SAMPLE COLLECTIONS

Project:	Cruise Ship:	_ Cruise Type:	CRUISE_ID:	
EVENT No:	EVENTID:PK	Site:	DEEP_C_Site	
Date:	Time:	_ Depth:		
Tow start f Start Posit Tow end ti End Positie	time: ion: Lat. me: on: Lat.	Start depth: Long. End depth: Long.		
Sample Label	Mesh size	Seive size	Notes	PI
A 4414 4				

Event: SEDIMENTS SAMPLE COLLECTIONS

roject:	Cruise Ship:	Cruise Typ	pe: CRUISE_ID:	
VENT No:	EVENT ID:	SD	Site: <u>DEEP_C_Site</u>	
ate:	Time: _	8	Depth:	
Time dep	loyed:	Bott	tom time:	
Position: Lati	e:	Lon	gitude:	
Core/gra	b	Core Length	Description	PI
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			- 0 	
			8	
			<u>k</u>	
	- 1		5	
	a. 1			
	-7		8 12	
or ox				

Event: CTD LOG

Project:		Cruise	Ship:			Cruise Type:		CR	UISE ID	£ 1	
EVENT No:		EVEN	NT ID:		СТ		Site: [DEEP C SI	te	2	
Date:	55	17	Time:				Depth:	1000		5 0	
Latitude:		_	Longitu	de:			Data File:				
Operator:		50	.)								
5.42											
								20	935		
Surface Time		Z	Depth:			Temp:	1	°C	Salin:		
Dottors of Co	c+										
Bottom of Ca	IST	220				1227				0.50	
Max Depth:		_ ^m	Altime	ter:	3 	m	KBD:			_ ^m	
NISKIN#	PLANNED-Z	DEPTH	SAL	TEMP	PI	NISKIN#	PLANNED-Z	DEPTH	SAL	TEMP	PI
8						16	5				
7						15	-				
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5						13	_				
4						12					
3						11					
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1						9					
Post Cast:		22	P.2	-		ine de	22	234 - 453		122 312	
	On Board Time:			z	On Board D	epth:	m				
	Latitude				N	Longitude:				W	
	151				20	18 8	12 C			(A)	

Projec_	CONSONTRAM		CRL	ISE T	/PE:		1101		CRUIS	E_ID:	OL	LL	se.	_E\	/ENT	No:			••	-		EVENTID:	FS
Site: _	DEEP_C	DEEP_C_Site Lat. (st/fi)			Lot. (st/fi)						TDR#	_			_/M	lin	Tem)					
Date:			-	Time	in in	2	set		_Depth(i	m): min	\$ 	8 5	П	ia>		-8						Page:	
ID	Species	Sex	SL (cm)	FL (cm)	TL (cm)	Wt (kg/g) BW/Liver	Mat y/n	TAG #	Hook/ Trap Size	cond	8			Sa	mple	es Co	llect	ed				Comments: (prey, ova, emb e	Other tissues, oryos, claspers tc.
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8 8		da a	8	33	PI1 PI2		();			<u>.</u>	PI5 PI6	- 28	22	- 24	- 25	68	2	32		120 - 321			
					PI3 PI4					-	PI7 PI8								-00				

Even

Event: SURVEY EVENT

Dee	D-C		SURV	YEY EVEN	Т	
Project:		Cruise Ship:	<u>20 – 17</u>	Cruise Type:	CRUISE_ID:	
EVENT No:	<u>.</u>	EVENT ID:	SV	Site:	DEEP_C_Site	
Date:	2	Time:				
PI :		0	Instruments:			
Line 1.1667	Lat:		Tape number: _		1070	
Start			Obs:		Time:	
	Uepth:	<u>- 80</u>	Obs: _		Time:	
	Lac		003.			
End	Lon:		Obs:		Time:	
End	Lon: Depth:		Obs:		Time:	
End	Lon: Depth:		Obs: Obs: Obs:		Time: Time: Time:	
End	Lon: Depth:		Obs: Obs: Obs: Tape number:		Time: Time: Time:	
End Line 2.1111	Lon: Depth: Lat:		Obs: Obs: Obs: Tape number:		Time: Time: Time:	
End Line 2.1111 Start	Lon: Depth: Lat: Lon:		Obs: Obs: Obs: Tape number: Obs:		Time:	
End Line 2.1111 Start	Lon: Depth: Lat: Lon: Depth: Lat:		Obs:		Time:	
End Line 2.1111 Start End	Lon: Depth: Lat: Depth: Lat: Lon:		Obs:		Time: Time: Time: Time: Time: Time: Time: Time:	

Event: GENERAL EVENT

Project:	Cruise Ship:	Cruise Type:	CRUISE_ID:
EVENT No:	EVENT ID:	GN Site:	DEEP_C_Site
Date:	Time:	Latitude	Lonitude
PI1		PI5	

Event: DEPLOYMENT LOG EVENT

Deep	DE DE	PLOYMENT	LOG EVENT
Project:	Cruise Ship:	Cruise Type:	CRUISE_ID:
EVENT No:	EVENT ID:	DP Site:	DEEP_C_Site
Date:	Time:	Latitude:	Lonitude:
Data file:	Plot	of Profile:	Depth:
Type of Equipment Depl	oyed:		
Type of Equipment Depl Objective: Scheduled recovery: Photographs (optional):	oyed:	Drawings:	
Type of Equipment Depl Objective: Scheduled recovery: Photographs (optional): Pl1	oyed:	Drawings:	
Type of Equipment Depl Objective: Scheduled recovery: Photographs (optional): Pl1 Pl2 Dia	oyed:	Drawings:	

Lists

These are the drop down lists used on the workbook. If you need to add more options on each list, add them at the end of each list on the blank spaces inside of the box.

Task Type	Ship Name	Ship ID	С	ruise Type	Туре	Port
Multicore	R/V Weatherbird	2 WB	Fi	ish ecology	FS	St Petersburg FL
Fauna Data	R/V Bellows	BL	B	enthic ecology	BE	Pensacola FL
Plankton Sample	R/V Pelican	РС		1icrobiology	МС	Panama City FL
Sediments Sample			G	eomorphology	GM	, Venice LA
CTD LOG			P	hysical Ocenography	РО	Cocodrie LA
Longline_trap sampling			G	eochemistry	СН	Fourchon LA
Survey Event				,		Gulfport MS
General Event						Galveston TX
Deployment Log Event						Corpus Christi TX
	Project_Name P	roject_ID	-			
	Deep-C D	С				
	CIMAGE C					
	ECOGIG EC	2				
	┘ │					

In this sheet you will see a list of the sites used on cruises. These are what you see in the pull-down menu on the [Cruise] worksheet. If you need to add more sites, type them at the bottom of the list and use decimal latitude and longitude (west longitude must be a negative number).

1	k DEEP_C_Site	LATITUDE	MM_mm		MM_mm2	DEPTH_m 💌	comment 💌	group	 Program 	▼ comme
2	1 AC-1	29.474547	28.472820	-86.958724	57.523440	500.000000		benthic_array	DEEP-C axis-canyo	n tra Along-
3	2 AC-2	29.297676	17.860560	-86.996878	59.812680	833.000000		benthic_array	DEEP-C axis-canyo	n trai Along-
4	3 AC-3	29.228200	13.692000	-87.371974	22.318440	1000.000000		benthic_array	DEEP-C axis-canyo	n trai Along-
5	4 AC-4	29.000390	0.023400	-87.507422	30.445320	1720.000000		benthic_array	DEEP-C axis-canyo	n trai Along-
6	5 AC-5	28.940110	56.406600	-87.582405	34.944300	2000.000000		benthic_array	DEEP-C axis-canyo	n tra Along-
7	6 Seep A	29.043028	2.581680	-87.282473	16.948380	1650.000000		benthic_array	DEEP-C seep	(candic
8	7 Seep C	28.990098	59.405880	-88.045535	2.732100	1200.000000		benthic_array	DEEP-C seep	(candic
9	8 Seep D	28.896002	53.760120	-87.636804	38.208240	2000.000000		benthic_array	DEEP-C seep	(candic
10	9 XC-1	29.248209	14.892540	-87.731913	-43.914780	500.000000		USF	DEEP-C cross-cany	on transect
11	10 XC-2	29.120917	7.255000	-87.865450	-51.927000	1143.000000		USF	DEEP-C cross-cany	on tra DSH Lir
12	11 XC-3	28.976167	58.570020	-87.868333	-52.099980	1520.000000		USF	DEEP-C cross-cany	on tra DSH Lir
13	12 XC-4	28.636500	38.190000	-87.868500	-52.110000	2300.000000		USF	DEEP-C cross-cany	on tra DSH Lir
14	13 DS-1	29.205000	12.300000	-87.061667	-3.700000	0.000000		Cherier-Chanton	FIO	
15	14 DS-2	30.167000	10.020000	-86.663000	-39.780000	0.000000		Cherier-Chanton	FIO	
16	15 DS-3	28.825917	49.555000	-88.267833	-16.070000	0.000000		Cherier-Chanton	FIO	
17	16 DS-3.1	28.838167	50.290000	-88.250500	-15.030000	0.000000		Cherier-Chanton	FIO	
18	17 DS-3.10	29.318167	19.090000	-87.733667	-44.020000	0.000000		Cherier-Chanton	FIO	
19	18 DS-3.2	28.862167	51.730000	-88.224167	-13.450000	0.000000		Cherier-Chanton	FIO	
20	19 DS-3.3	28.890467	53.428000	-88.174217	-10.453000	0.000000		Cherier-Chanton	FIO	
21	20 DS-3.4	29.183667	11.020000	-87.747833	-44.870000	0.000000		Cherier-Chanton	FIO	
22	21 DS-3.5	29.227500	13.650000	-87.735833	-44.150000	0.000000		Cherier-Chanton	FIO	
23	22 DS-3.6	29.233500	14.010000	-87.734500	-44.070000	0.000000		Cherier-Chanton	FIO	
24	23 DS-3.7	29.246667	14.800000	-87.731833	-43.910000	0.000000		Cherier-Chanton	FIO	
25	24 DS-3.8	29.267500	16.050000	-87.727500	-43.650000	0.000000		Cherier-Chanton	FIO	
26	25 DS-3.9	29.296333	17.780000	-87.730167	-43.810000	0.000000		Cherier-Chanton	FIO	
27	26 DS-4	29.183217	10.993000	-87.748683	-44.921000	0.000000		Cherier-Chanton	FIO	
28	27 DS-4	29.183217	10.993000	-87.748683	-44.921000	0.000000	** saw orange/brown s	Cherier-Chanton	FIO	
29	28 St Petersburg FL	27.762697	45.76	-82.635856	38.15	0	Port Private USF pier			
30	29 Pensacola FL	30.402372	24.14	-87.212838	12.77	0	Port Public Plaza del Lu	ina		
31	30 Panama City FL	30.175405	10.52	-85.789140	47.35	0	Port Public			
32	31 Venice LA	29.277116	16.63	-89.354897	21.29	0	Port, On channel			
33	32 Cocodrie LA	29.246667	14.80	-90.661389	39.68	0	Port, University dock			
34	33 Fourchon LA	29.105560	6.33	-90.194440	11.67	0	Port, industrial	If you need to ad	dd more sites, type then	natthe
35	34 Gulfport MS	30.363026	21.78	-89.088736	5.32	0	Port, industrial	bottom of the li	st and use decimal latitu	deand
36	35 Galveston TX	29.306497	18.39	-94.818149	49.09	0	Port, industrial	longitude		
37	36 Corpus Christi TX	27.811598	48.70	-97.401695	24.10	1	Port, industrial			
38	37 A1	30.13333333	8	-85.775	-46.5	18	Sand + shell		COASTWATCH	DEEP-C
39	38 A2	30.06666667	4	-85.81666667	-49	21	Sand		COASTWATCH	DEEP-C
14 -	I ▶ ▶I cruise / Site_plan /	PERSONNEL Site_I	List / Lists / MC1 /	FN2 / PK3 / SD4	CT5 FS6 SV7	GN8 / 🔁 /			11	▶ [
Rea	idy 🛅								⊞□□ 100% (-)	-0(+

Sites