GeoOptix Data Broker

Training Manual

<u>Contents</u>

Training Manual1Overview1Pre-Hitch Preparation2Verify Visits have been Downloaded to Data Broker3Publish Data Set Components4Site Photos4Air Temp Readings5Stream Temp Readings6Solar Input Photos (ExportedFiles)6Scanned Paper Forms and Maps7Appendix A: Installing the Data Broker Software8Appendix B: Updating the Data Broker Software10Appendix C: Start the Broker Background Service11Appendix D: Manually Start or Stop the Broker Service12	GeoOptix Data Broker	1
Overview 1 Pre-Hitch Preparation 2 Verify Visits have been Downloaded to Data Broker 3 Publish Data Set Components 4 Site Photos 4 Air Temp Readings 5 Stream Temp Readings 6 Solar Input Photos (ExportedFiles) 6 Scanned Paper Forms and Maps 7 Appendix A: Installing the Data Broker Software 8 Appendix B: Updating the Data Broker Software 10 Appendix C: Start the Broker Background Service 11		
Verify Visits have been Downloaded to Data Broker		
Publish Data Set Components. 4 Site Photos 4 Air Temp Readings 5 Stream Temp Readings 6 Solar Input Photos (ExportedFiles). 6 Scanned Paper Forms and Maps. 7 Appendix A: Installing the Data Broker Software 8 Appendix B: Updating the Data Broker Software 10 Appendix C: Start the Broker Background Service. 11	Pre-Hitch Preparation	2
Site Photos	Verify Visits have been Downloaded to Data Broker	3
Site Photos	Publish Data Set Components	4
Stream Temp Readings 6 Solar Input Photos (ExportedFiles) 6 Scanned Paper Forms and Maps 7 Appendix A: Installing the Data Broker Software 8 Appendix B: Updating the Data Broker Software 10 Appendix C: Start the Broker Background Service 11		
Stream Temp Readings 6 Solar Input Photos (ExportedFiles) 6 Scanned Paper Forms and Maps 7 Appendix A: Installing the Data Broker Software 8 Appendix B: Updating the Data Broker Software 10 Appendix C: Start the Broker Background Service 11	Air Temp Readings	5
Solar Input Photos (ExportedFiles)		
Appendix A: Installing the Data Broker Software		
Appendix B: Updating the Data Broker Software	Scanned Paper Forms and Maps	7
Appendix B: Updating the Data Broker Software	Appendix A: Installing the Data Broker Software	8
Appendix D: Manually Start or Stop the Broker Service12		

Overview

The Data Broker operates on the laptop and serves as a broker to move files between CHaMPMonitoring.org website, the broker, and the iPads. You will use the broker to receive scouting information for the sites you plan to visit, to check in data after visiting a site, and publish data sets for upload by CHaMPMonitoring.org. Typically, you will use the broker at the beginning of the week to prepare for field data collection and at the end of the week to check data in.

Pre-Hitch Preparation

Before leaving internet connectivity, you will need to organize all of the information and files needed to complete the set of planned site visits (i.e. surveys). This pre-hitch preparation will be completed using the "Visits" tab within the data broker. The Visits tab has a navigation pane on the left side listing the crews and hitches that belong to your organization. Crews are identified by an icon of two people. Hitches are identified by a briefcase icon. Inside each hitch there is a collection of sites to be visited during the hitch.

				Log	gers 📔 Visits	Settings	Exit						
Ili Sitka ZR Rentmeester Crew De Sitka Test Hitch (5/15/2013)	Sitka Test May 23 Sitka/Rentmeester Cr												н
	Hitch Name Start Date References	Sitka Test May 23rd 5/23/2013 Refresh list from ga.che	Duration 5		Folder	Cpen							
 E CBW05583-040217 (Twisp River) CBW05583-189385 (Methow River) E CBW05583-312265 (Methow River) 		Type MacroInvert Labels GPX Waypoint File							Size 57 KB 1,002 B		ded On Statu 4:30:00 PM Availa 1:4:30:00 PM Availa	ble	download download
	Visit Data Status	Site MOCK2012-000004	Stream Dry Creek	Visit Date 00/06/2013	Aux Ouality Assuster	Photos Ouality Assusteve	Topo Quality Assu steve	Air Temp Ouality Assu steve	Stream Temp Ouality Assusteve	Solar Input	Hitch Sitka Test Ma	Crew Rentmeester (
		MOCK2012-000007	Dry Creek Dry Creek		Ouality Assu steve	Ouality Assu steve	Ouality Assu steve	Ouality Assu steve	Ouality Assu steve	Not Measure steve Ouality Assu	<u>Sitka Test Mar</u>	Rentmeester (
		MOCK2012-000009 MOCK2012-000023	Spring Creek		Steve	Steve	Steve	Steve	Steve	Steve	Sitka Test Ma	Rentmeester	
		MOCK2012-000045	Spring Creek	00/06/2013	steve Ouality Assu steve	steve Ouality Assu steve	steve Ouality Assu steve	steve	steve	steve	<u>Sitka Test Ma</u>	Rentmeester (
		MOCK2012-000050	Spring Creek	00/06/2013	Ouality Assu steve	Ouality Assu steve	Ouality Assuster	Ouality Assustere	Ouality Assu steve	Ouality Assu steve	Sitka Test Ma	Rentmeester (
		MOCK2012-000053 MOCK2012-000060	Spring Creek Dry Creek	00/06/2013	Data Collect	Data Collect	Ouality Assu	Data Collect	Ouslity Assu	Data Collect	Sitka Test Mar Sitka Test Mar	Rentmeester (
		MOCK2012-000077	Spring Creek	00/06/2013	steve Quality Assusteve	steve Ouality Assu steve	steve Quality Assu steve	steve Quality Assustance Steve	steve Quality Assusteve	steve Quality Assu steve	Sitka Test Ma	Rentmeester (
		MOCK2012-000136	Five Points Creek		Data Collect steve	Data Collect steve	Data Collect	Data Collect steve	Data Collect steve	Data Collect steve	Sitka Test Ma	Rentmeester (
Update Visits From Web		Working with data on this computer	Data is on I	HaMP	Can work with d on this compute			arked as Not easureable					
(ini) 3:54 PM Data Logger FieldPC100320 has bee 3:54 PM Background Service is not running 3:54 PM Internet is available	n connected.												
2013 - National Oceanic and Atmospheric Administrati besigned, built and maintained by Sitka Technology Gro		ville Power Administratio	n (BPA)								BC:30:58:	steve E9:03:81 Ver	o (te

For each hitch, two files will be downloaded from CHaMPMonitoring.org. These files are scheduled to download automatically; however, you can click the link "Refresh list from <u>www.champmonitoring.org</u>" at any time. The MacroInvert Lables files can be viewed and printed.

- MacroInvert Labels click view and then print to Avery shipping labels*
- GPX Waypoint File this file will be loaded to your Garmin GPS unit using the BaseCamp software (see <u>ProceduresForLoadingSitesToGPS.pdf</u>)

* Note: labels should be 2 inches by 4 inches with 10 labels per sheet (Avery 15513, 5163, or 8163)

Verify Visits have been Downloaded to Data Broker

Prior to leaving internet connectivity, you must ensure the visit packets have been downloaded to the data broker.

The visit packet contains all of the information the iPad needs to begin field data collection for that site.

- Select the Visit tab and highlight on hitch (brown briefcase)
- Check the status for the Aux column on each visit in the hitch
- The Aux column should say "Data Collection" for all visits



While visits should automatically be transferred to the data broker, if a visit has not yet been transferred to the data broker, Hitch grid will display "Waiting to Download" for the Auxiliary data packet.

CHaMP Training (June 7-9) (6/7/2013) Sitka Test Hitch 2 (6/5/2013)	Hitch Name Start Date References	Sitka Test Hitch 2 6/5/2013 Refresh list from ga.cha	Duration 1		Folder	Dpen .	There are no scoutine	ą documents availabi	e for this Hitch		
	Visit Data Status	Site	Stream	Visit Dat	Aux	Photos	Торо	Air Temp	Stream Temp	Solar Input	Hitch
		MOCK2012-000023	Spring Creek		Waiting to [Data Collect	Data Collect	Data Collect	Data Collect	Data Collect	Sitka Test Hi
		MOCK2012-000045	Spring Creek		3.ot.gnitisW	Data Collect	Data Collect	Data Collect	Data Collect	Data Collect	Sitka Test Hi
		MOCK2012-000050	Spring Creek		O Waiting to 5	Data Collect	Data Collect	Data Collect	Data Collect	Data Collect	Sitka Test Hi
		MOCK2012-000053	Spring Creek		O Waiting to 5	Data Collect	Data Collect	Data Collect	Data Collect	Data Collect	Sitka Test Hi
		MOCK2012-000077	Spring Creek		• Vaiting to [Data Collect	Data Collect	Data Collect	Data Collect	Data Collect	Sitka Test Hi
Update Visits From Web		Working with data on this computer	Data is on	СНаМР	Can work with c			arked as Not easureable			1

If Visits packets have not been loaded to the data broker, complete these two steps.

- On the Visit tab, click "Update Visits From Web" in the lower left
- Download Data Packet from the Auxiliary Data Files page
 - Double click on each visit to expand that visit
 - Click on Auxiliary Data Files
 - Click the "Download Data Packet" button from the upper right corner

Once you have verified that all visits for the hitch have been transferred to the data broker, you are ready to send visits to the iPad.

Publish Data Set Components

After field data collection has been completed, files have been saved to the data broker, and the auxiliary data retrieved to the Broker, it will be necessary to publish air temperature files, stream temperature files and solar input files. Each component of the dataset must be published using the Data Broker. Once the component has been published, the Data Broker will send those files to CM.org and the files will be loaded to the website.

When working in the Data Broker, go to the Visit Tab. Expand the brown briefcase for one hitch and then expand one site visit. By expanding the site visit you will be able to see each of the dataset components.

		Visits	Settings Exit				
🔺 💼 Sitka	МОСК2012-000)101 (Cove Creek) - CHaMF	2014				V1992
∡ 28 Rentmeester Crew	Sitka/Rentmeester	Crew/Training Hitch Day June 3rd	I-8th				
Training Hitch Day June 3rd-8th (6/3/2014)							
MOCK2012-000101 (Cove Creek) - CHaMP 2014	Site	MOCK2012-000101 (Cove Cree	ek)	Status	Data Colle	ction	
Auxiliary Data Files	Protocol	CHaMP 2014 (2020)					
📔 Site Photos 🧊 Topographic Data (Published)	UTM	11N 4999823(N) 405059(E)		Visit Ty	pe New Visit		
Air Temp Readings	Panel	Annual Panel		Catego	rv Cove Cree	k	
Stream Temp Readings	Watershed	CHaMP Training		Folder	Open		
Solar Input Photos (ExportedFiles)		,		roider			
Scanned Paper Forms and Maps	Scouting Info	Refresh list from www.champm	onitoring.org				
MOCK2012-000102 (Dry Creek) - CHaMP 2014		Туре		Size	Downloaded On	Status	
MOCK2012-000103 (Milk Creek) - CHaMP 2014		Field Notes		19 KB	5/26/2014 6:04:00 PM	M Available	download
MOCK2012-000104 (Little Catherine Creek) - CHa							
MOCK2012-000105 (Mill Creek) - CHaMP 2014							
MOCK2012-000106 (Rock Creek) - CHaMP 2014	Data Sets	Туре	Туре	Name	Status	Visit Packet	Downloaded On
 MOCK2012-000143 (Milk Creek) - CHaMP 2014 AEM Training June 3rd-8th (6/3/2014) 		Auxiliary Data Files	Auxiliary Data Files	AuxData	Data Collection	Available	5/26/2014 5:56:00 PM
AEM Training June 3rd-8th (0/3/2014)		Site Photos	Site Photos	Photos	Data Collection	-	
		Iopographic Data	Topographic Data	Published	Data Collection	-	
		Air Temp Readings	Air Temp Readings	AirTempReadings	Data Collection	-	
		Stream Temp Readings	Stream Temp Readings	StreamTempReadings	Data Collection	-	
		Solar Input Photos	Solar Input Photos	ExportedFiles	Data Collection		· · ·
Update Visits From Web							
1:15 PM Background Service is not running							
©2014 - National Oceanic and Atmospheric Administration (NOAA) a	nd Bonneville Pow	Administration (BPA)				champ-PC	🗘 ((e))
Designed, built and maintained by Sitka Technology Group					9	8:48:E1:CA:9A:A9	

- Auxiliary Data Files files from the iPad
- Site Photos files from the digital camera on iPad
- Topographic Data files that are published by the Topo Tools in ArcGIS
- Air Temp Readings .ltd and .csv files that are exported from the LogTag Analyzer software
- Stream Temp Reading .hobo and .csv files that are exported from the Hoboware software
- Solar Input Photos ~165 files exported from the Solemetric SunEye software
- Scanned Paper Forms and Maps scanned images (e.g. SiteMap.jpg and SurveyWorkflow.jpg)

Auxiliary Data Files are published on the iPad. Once published on the iPad, the files can be pushed from the iPad to the Broker. Once the auxiliary files are pushed to the Broker, the files are automatically transferred from the Broker and up to CM.org.

Topographic Data are published using the CHaMP Topo Toolbar in ArcGIS. Once the topographic survey data have been published in ArcGIS, the Broker will automatically detect the published data and send those files to CM.org.

All other dataset components must be manually published by the crew using the Data Broker. Below is a description of the requirements for publishing Site Photos, Air Temp Readings, Stream Temp Readings, and Solar Input Photos.

Site Photos

- 1. From the Broker, expand the Hitch and the Visit to display the six data set components.
- 2. Select the "Site Photos" component

4 28 Rentmeester Crew	Site Photos				982
Group1Training (6/4/2012)	Sitka/Rentmeester Crew/R	entmeester July 16/	MOCK2012-000043		
TrainingRevisits (6/4/2012)					
PullItTogetherHitch-EvenLoggers (6/18/2012)	Status Data	Collection			
PulltTogetherHitch-OddLoggers (6/18/2012)	Folder 🛗	<u>Open</u>			
PullItTogetherHitch-MondayEven (6/11/2012)				C	
PullItTogetherHitch-MondayOdd (6/11/2012)					Publish
PullItTogetherHitch-TuesdayEven (6/12/2012)	Other Photos			· · · · · ·	
PullItTogetherHitch-TuesdayOdd (6/12/2012)					Refresh
Gus Wathen (6/20/2012)					
Rentmeester July 16 (7/16/2012)					
MOCK2012-000011 (Pelican Creek)					
MOCK2012-000043 (Pelican Creek)					
Auxiliary Data Files					
📄 Site Photos					
📋 Topographic Data (Published)	Photos Referenced In	· · ·	s		
📋 Air Temp Readings	Table	Record #	Field	Photo Name	
📋 Stream Temp Readings	Monument	1	Photo	0002	A.
📋 Solar Input Photos (ExportedFiles)	 Air Temp Logger 	1	Photo	0051	E
	Site Marker	1	Photo	0003	
	Site Marker	2	Photo	0004	
	Transect Photo	1	Center Up	0008	
	Transect Photo	1	Center Left	0005	
	Transect Photo	1	Center Down	0007	
	Transect Photo	1	Center Right	0006	+
	Optional	not OMarka	d as Not- OMissing, b		-
Update Visits From Web	Legend: Osupplied	not Marke	reable (Required	Has an error	Good
2012 - National Oceanic and Atmospheric Administration (NOAA)) and Bonneville Power Δdr	ministration (BPA)			🚓 ((e))

3. Click the "Publish" button to send the Site Photos to CM.org

Air Temp Readings

- 1. From the Broker, expand the Hitch and the Visit to display the six data set components.
- 2. Select the "Air Temp Readings" component
- 3. Find the word "Folder" and the link "Open" near the top left of the main window

A Sentmeester Crew	Air Temp Readings		981
 Group1Training (6/4/2012) TrainingRevisits (6/4/2012) 	Sitka/Rentmeester Crew/Rentmeester July 16/MOCK2012-000043		
Proving (VF2222) PullitogetherHitch-Venloggers (6/18/2012) PullitogetherHitch-VoldLoggers (6/18/2012) PullitogetherHitch-MondsyCen (6/11/2012) PullitogetherHitch-MondsyCen (6/11/2012) PullitogetherHitch-VesdayEven (6/12/2012) PullitogetherHitch-VesdayEven (6/12/2012)	Status Data Collection Folder in Open		Publish Refresh
PullItTogetherHitch-TuesdayOdd (6/12/2012)	Type File Name	Size	UpdatedOn
Gus Wathen (6/20/2012)	O Air Temp Logger Proprietary File		
Rentmeester July 16 (7/16/2012) MOCK2012-000011 (Pelican Creek)	O Air Temperature Results		
MOCK2012-000043 (Pelican Creek)			
Auxiliary Data Files			
Site Photos			
Topographic Data (Published)			
Stream Temp Readings			
Solar Input Photos (ExportedFiles)			
Update Visits From Web	Legend: O ^O ptional, not Marked as Not- ⑦Missing, but ●Has an error ●Good		

- 4. Click the "Open" to open the folder where photos will be copied to.
- 5. Drag and drop air temperature files exported from LogTag Analyzer softer to the folder that opened when the "Open" link was clicked. Be sure to include both the .ltd and .csv files that are exported from the LogTag Analyzer software.

											×
😋 🕞 📲 🕊 OS (C:) 🕨 Champ	Broker	r_QA → Sitka → RentmeesterCrew → Rentmees	sterJuly16 🕨 MOCK20	12-000043 🕨 AirTemp	oReading	s	• *;	Search Air	TempReadi	ings	Q
Organize 🔻 🔣 Open Burn		New folder							800 -		0
🔆 Favorites	Â	Name	Date modified	Туре	Size						
🧮 Desktop		🖲 0901300723 Started 5-3-2012, Finished 5	5/4/2012 4:37 PM	Microsoft Excel C		1 KB					
🚺 Downloads		0901300723 Started 5-3-2012, Finished 5	6/11/2008 12:17 PM	LTD File		2 KB					
a Isemp Local Cloud											
🔛 Recent Places											
🕞 Libraries	*										
2 items selected Date r		ed: 6/11/2008 12:17 PM - 5/ Date created: 7/20/. ize: 2.42 KB	2012 1:33 PM								

- 6. Refresh the Broker screen by double clicking the Visits Tab again.
- 7. Once the screen has been refreshed, the icon in front of each file should become a solid green circle.

	Air Temp Readings Sitka/Rentmeester Crew/Rentmeester J	uly 16/MOCK2012-000043		981
▶ ■	Status Data Collection			Publish Refresh
PullItTogetherHitch-TuesdayOdd (6/12/2012)	Туре	File Name	Size	UpdatedOn
Gus Wathen (6/20/2012)	 Air Temp Logger Proprietary File 	0901300723 Started 5-3-2012, Finished 5-4-2012.ltd	02 KB	6/11/2008 12:17:14 PN
Rentmeester July 16 (7/16/2012) MOCK2012-000011 (Pelican Creek)	 Air Temperature Results 	0901300723 Started 5-3-2012, Finished 5-4-2012.csv	873 B	5/4/2012 4:37:55 PM
MOCK2012-20003 (Pelican Creek) Auxiliary Data Files Site Photos Toroporpatic Data (Published) Antemp Readings Stream Temp Readings Solar Input Photos (Exported Files)				
Update Visits From Web	Legend: Optional, not supplied	Marked as Not- OMissing, but Has an error Good Measureable		

- 8. Important Note: Air Temperature Reading files are optional and will not be provided for all site visits. If no files are provide, the icon will be a hollow green circle (i.e. "Optional, not supplied"). Given that air temperature reading files are optional, the Broker will allow you to publish even when no files have been provided. If you plan to provide air temperature files, be sure to supply the files before you publish.
- 9. Click the "Publish" button to send the Air Temperature Files to CM.org

Stream Temp Readings

Follow the instructions for Air Temp Reading files. When completing step 5, be sure to add both the .hobo and .csv files that are exported from the Hoboware software.

Solar Input Photos (ExportedFiles)

- 1. From the Broker, expand the Hitch and the Visit to display the six data set components.
- 2. Select the "Solar Input Photos" component
- 3. Find the word "Folder" and the link "Open" near the top left of the main window

Rentmeester Crew		out Photos (dFiles) ster July 16/MC	CK2012-000	0043									979
TrainingRevisits (6/4/2012) Außt Ogetherlich-twenLoggers (6/18/2012) Außt Ogetherlich-twenLoggers (6/18/2012) Außt Ogetherlich-Mondsylven (6/12/2012) Außt Ogetherlich-Mondsylven (6/12/2012) Außt Ogetherlich-Mondsylven (6/12/2012) Außt Ogetherlich-Mondsylven (6/12/2012)	Status Data Callection Folder Callection (*) Why is the "Accept" button not available? Stydine File Sets Before												Refresh		
PulltTogetherHitch-TuesdayOdd (6/12/2012) Gus Wathen (6/20/2012) Rentmeester July 16 (7/16/2012)	Skyline		Record	Field	SKY	PVSOL	PVSYST	Annual Acce	Annual Acce	Daily Solar A	Full Fish Eye	Insolation	Monthly Sol	Obstruction	
 MOCK2012-000011 (Pelican Creek) MOCK2012-000043 (Pelican Creek) Auxiliary Data Files 	1 3	Solar Input Solar Input Solar Input	1 2	Skyline Photo Skyline Photo Skyline Photo	ŏ	0000	0000	0000	000	000	00	000	0000	00	-
Site Photos O Topographic Data (Published) O Air Temp Readings	5 7 9	Solar Input Solar Input Solar Input	4	Skyline Photi Skyline Photi Skyline Photi	ŏ	000	000		00000	0000	0000	000	000	00000	
Stream Temp Readings	11	Solar Input	6	Skyline Photo	Õ	Ō,	Õ	Ő	Õ	Õ	Õ	Õ	Õ	Ō,	
	Individu	aal Files												Refresh	
	Aver Aver Aver Aver O Aver O Obst	e rage Monthly S rage Shading rage Solar Acco rage Windowe truction Elevat	ess d Solar Ac ions		me							Size	Updated	Юn	·
Update Visits From Web	Legend:	O ^{Optiona}		Marked a Measurea	is Not- 🧭	Missing, but Required	Has	an error	Good						

- 4. Click the "Open" to open the folder where solar input files will be copied to.
- 5. Drag and drop solar input photos and exported files from the Solemetric software to the folder that opened when the "Open" link was clicked (e.g. "\\CBW05583-012345\SolarInput\ExportFiles"). Be sure to include both the session file (.son) and the skyline images (.sky). In total there will be 166 files copied to the designation folder.

Include in library *	-	itka + RentmeesterCrew + RentmeesterJuly16 Share with + Burn New folder			_	- Search	10 ·	- 10	
Pictures		Name	Date modified	Type	Size		8 *		
Subversion		(The second seco	6/28/2012 11:06 AM	Microsoft Excel C	95 KB				
😸 Videos		AverageShading.csv AverageSolarAccess.csv	6/28/2012 11:06 AM	Microsoft Excel C	95 KB				
		AverageSolarAccess.csv	6/28/2012 11:06 AM	Microsoft Excel C	1 KB				
Computer					1 KB 39 KB				
🏭 OS (C:)		AvgMonthlySolarAccess.jpg	6/28/2012 11:06 AM	JPEG image					
USB DISK (F:)	11	CBW05583-108010_20120608.son	6/8/2012 7:35 AM	SON File Microsoft Excel C	1 KB 12 KB				
steve\$ (\\deschutes) (H:)			6/28/2012 11:06 AM						
Installs (\\deschutes) (l:)		ObstructionElevationsAvg_PV_SOL.hor	6/28/2012 11:06 AM	HOR File	3 KB				
All (\\DESCHUTES) (Z:)		ObstructionElevationsAvg_PV_SYST.hor	6/28/2012 11:06 AM	HOR File	2 KB				
FieldPC100320		ObstructionElevationsMax_PV_SOL.hor	6/28/2012 11:06 AM	HOR File	3 KB 2 KB				
		ObstructionElevationsMax_PV_SYST.hor	6/28/2012 11:06 AM						
Network		Sky01.sky	6/8/2012 7:54 AM	SKY File	204 KB				
CHRISE		Sky01_PV_SOL.hor	6/28/2012 11:06 AM		3 KB				
CHRISB-XP-IE7		Sky01_PVSYST.hor	6/28/2012 11:06 AM	HOR File	2 KB				
DAL-PC		Sky01AnnualAccess.jpg	6/28/2012 11:06 AM	JPEG image	262 KB				
DESCHUTES		Sky01AnnualAccessFullyAnnotated.jpg	6/28/2012 11:06 AM	JPEG image	313 KB				
DEVRIG01		Sky01DailySolarAccess.csv	6/28/2012 11:06 AM	Microsoft Excel C	3 KB				
DEVRIG02		Sky01FullFishEye.jpg	6/28/2012 11:06 AM	JPEG image	722 KB				
FRICALLEN		Sky01Insolation.csv	6/28/2012 11:06 AM	Microsoft Excel C	134 KB				
IE7TEST		Sky01MonthlySolarAccess.jpg	6/28/2012 11:06 AM	JPEG image	54 KB				
JEFF		Sky01ObstructionElevations.csv	6/28/2012 11:06 AM	Microsoft Excel C	5 KB				
KEITH		Sky01ObstructionElevations.aml	6/28/2012 11:06 AM	XML Document	42 KB				
MACBOOKPRO-CA09		Sky01Shading.csv	6/28/2012 11:06 AM	Microsoft Excel C	43 KB				
1- MACDOOK-80-CA03	+	Skv01WindowedDailvSnlarAccess.csv	6/28/2012 11:06 AM	Microsoft Excel C	2 KB				

- 6. Refresh the Broker screen by double clicking the Visits Tab again.
- 7. Once the screen has been refreshed, the icon in front of each file should become a solid green circle.

Rentmeester Crew		out Photos (1.1.1.1.1.1.1.1	dFiles) ter July 15/M		012								979
TrainingRevists (6/4/2012) DulltTogetherHitch-EvenLoggers (6/18/2012) PulltTogetherHitch-OddLoggers (6/18/2012) PulltTogetherHitch-MondayEven (6/11/2012)	Status Folder	Da	ta Collecti		JCK2012-004	045								
 PulltTogetherHitch-MondayOdd (6/11/2012) PulltTogetherHitch-TuesdayEven (6/12/2012) 	tch-TuesdayEven (6/12/2012) Skyline File Sets											Publish		
i 🧰 PulltTogetherHitch-TuesdayOdd (6/12/2012) i 💼 Gus Wathen (6/20/2012)	Skyline	Table	Record	Field	SKY	PVSOL	PVSYST	Annual Acce	Annual Acce	Daily Solar A	Full Fish Eye	Insolation	Monthly Sol	Obstruction
Rentmeester July 16 (7/16/2012) MOCK2012-000011 (Pelican Creek)	1	Solar Input Solar Input	1	Skyline Photo Skyline Photo		•	•		•	•		•	•	•
MOCK2012-000043 (Pelican Creek) Auxiliary Data Files Site Photos	5	Solar Input		Skyline Phote	ĕ		ē		i	i	•	Ĭ		
Topographic Data (Published)	9	Solar Input Solar Input	5	Skyline Phote Skyline Phote	ě				i	i		ĕ		
Stream Temp Readings	11 +	Solar Input	6	Skyline Photi								•		.
	Individ	ual Files												Refresh
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	Aver	age Monthly	Solar Acce	ss AvgMo	nthlySolarAc	cess.jpg						39 KB	6/28/20	12 11:06:22 AN *
		rage Shading			eShading.csv							95 KB		12 11:06:22 AM
		rage Solar Acc			eSolarAccess							447 B		12 11:06:22 AN
		rage Windowe truction Elevat			eWindowedS ctionElevatio	iolarAccess.cs	V					437 B 12 KB		12 11:06:22 AN
		truction Elevat				20120608.sor						468.B		2 7:35:50 AM
Update Visits From Web	Legend:	Ontion	al, not	Marked a		Missing, but Required		an error	Good					

8. Click the "Publish" button to send the Solar Input files to CM.org

Scanned Paper Forms and Maps

- 1. From the Broker, expand the Hitch and the Visit to display the six data set components.
- 2. Select the "Scanned Paper Forms and Maps" component
- 3. Find the word "Folder" and the link "Open" near the top left of the main window
- 4. Click the "Open" to open the folder where photos will be copied to.
- 5. Add the SiteMap.jpg file (created by scanning or photographing the paper drawing)
- 6. Optionally, include "SurveyWorkflow.jpg" (scan the survey workflow form)

Im anna Im anna Im anna Im Training Hitch Day June 3rd-8th (6/3/2014)		r Forms and Maps r Crew/Steve's July Hitc	WOCK2012-000126					D184/13759
: ■ Data Management Training Hitch (6/6/2014) ■ Repeat Survey Training Hitch (6/6/2014) ■ Steve's July Hitch (7/7/2014) ■ Steve's July Hitch (7/7/2014) ■ Steve's July Hitch (7/7/2014)	Status Folder	Uploaded						Refresh
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signed, built and maintained by Sitka Technology Group							98:48:E1:CA:9A:A9	Version 14.190.1814.1

Appendix A: Installing the Data Broker Software

For 2015, you should uninstall the existing 2014 Broker before installing this year's version. If you are updating a 2015 broker, you do not need to uninstall first.

Download from: http://www.champmonitoring.org/fieldsupport/downloadbrokerinstaller/1

If the Broker is already installed and running the current version, the installer will install the same version over the top of the installed version. This is how you can repair a damaged install.

Before installing the broker, IIS needs to be installed. You can install this by going to Control Panel \rightarrow Programs \rightarrow Turn Windows Features on or Off.



Once IIS is installed, you can run the broker installer.

1. Run the installer

(ChampBrokerSetup.exe). You might be prompted about verification. If so, click



2. The installer needs to install Bonjour to talk to the iPad. Run through the bonjour install.





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package provides Bonjour zero- services for use by Windows nes, Safari and AirPort Utility.	
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	package provides Bonjour zero- services for use by Windows tes, Safari and AirPort Utility. ers and devices to automatically industry standard IP protocols ally enter IP addresses or configure larly useful for connecting to devices e TV, and AirPort base stations.





 Let the installer continue to run. Windows will flash by, and black windows will open and close. This is normal.



4. When you see "installation complete", click "next.



5. Click Finish.

K CHaMP Data Broker Setup	
	Completing the CHaMP Data Broker Setup Wizard CHaMP Data Broker has been installed on your computer.
	Click Finish to close this wizard.
	☑ Create Desktop Shortout
	< Back Finish Cancel

Appendix B: Updating the Data Broker Software

If there is a new version, the broker will prompt you to install it.

When you agree to install the update, you'll see a 30-second countdown window before the installer runs. This is because the broker has to exit completely and close all of its files before we can replace them, and that can take a bit.

After that, installing the update is exactly the same as a new install. See above.

You'll see a screen that says "Change or remove Bonjour". Click cancel, then yes, then finish. The rest of the install will continue as normal.

🛃 Bonjour	
Change or remove B	-
Select an option below	N.
	Repair
學	Reinstall Bonjour, replacing missing or damaged files.
	<u>Remove</u> Remove Bonjour from this computer.
	< <u>B</u> ack <u>N</u> ext > Cancel

Appendix C: Start the Broker Background Service

Once the Broker has been installed, you will need to start the background service. Once the background service has been started, updates will occur automatically.

- 1. Open the Broker application
- 2. Click the red gear icon in the lower right corner of the Broker window



- 3. Allow the Broker a minute or two to turn on the service
- 4. Verify that the background service is running.
 - a. The gear icon will now be green
 - b. A message will report "Background Service is running"

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©2012 - National Oceanic and Atmospheric Administration (NOAA) and Bonneville Power /	🗢 ((-)) 🕥
Designed, built and maintained by Sitka Technology Group Ver	rsion 1.0.4563.27471

The broker must be running in order for the iPad to communicate with it.

If your laptop has gone to sleep with the broker running, your network address may have changed. In that case, you'll need to close and re-open the broker for the iPad to see it.

Appendix D: Manually Start or Stop the Broker Service

1. Open the Start Menu.

A) In the search line, type **services.msc** and press **Enter**. (See screenshot below)

Programs (1)			
a services.msc			
Seven	Forun	IS.CO	m
P See more results			
y see more resons			
services.msc	×	Sleep	•
411-	x480 43kb .	IDEC	

2. Using the Services utility, find "GeoOptix Data Broker Service" in the list of local services.

Services (Local) converse						
g Date Broker Service	Nata		Status	Statup Type	Log On An	
	Q. Activel Instaley (Admit[31]	Provides Us-		Monusi	Local Selle-	
the service	Q.Adaptive Bightness	Monitors &		Morual	Local Service	
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3. Right click on "GeoOptix Data Broker Service" and select "Start" from the context menu