



PH5: From Field to Archive

# Outline

Introduction to PH5  
Tools Available In Field  
From Raw Data to Archive  
The PH5 Web Interface at the DMC  
PH5 In The Future  
Questions and Answers



# What is PH5?

PH5 is a data archiving format based on the Hierarchical Data Format version 5 originally developed by the National Center for Supercomputing Applications.

A single format that can hold both raw data and metadata from a variety sources and output it in SEG-Y, SAC, and other future data formats on the fly.

# Why PH5?

Freely Available and Open Source

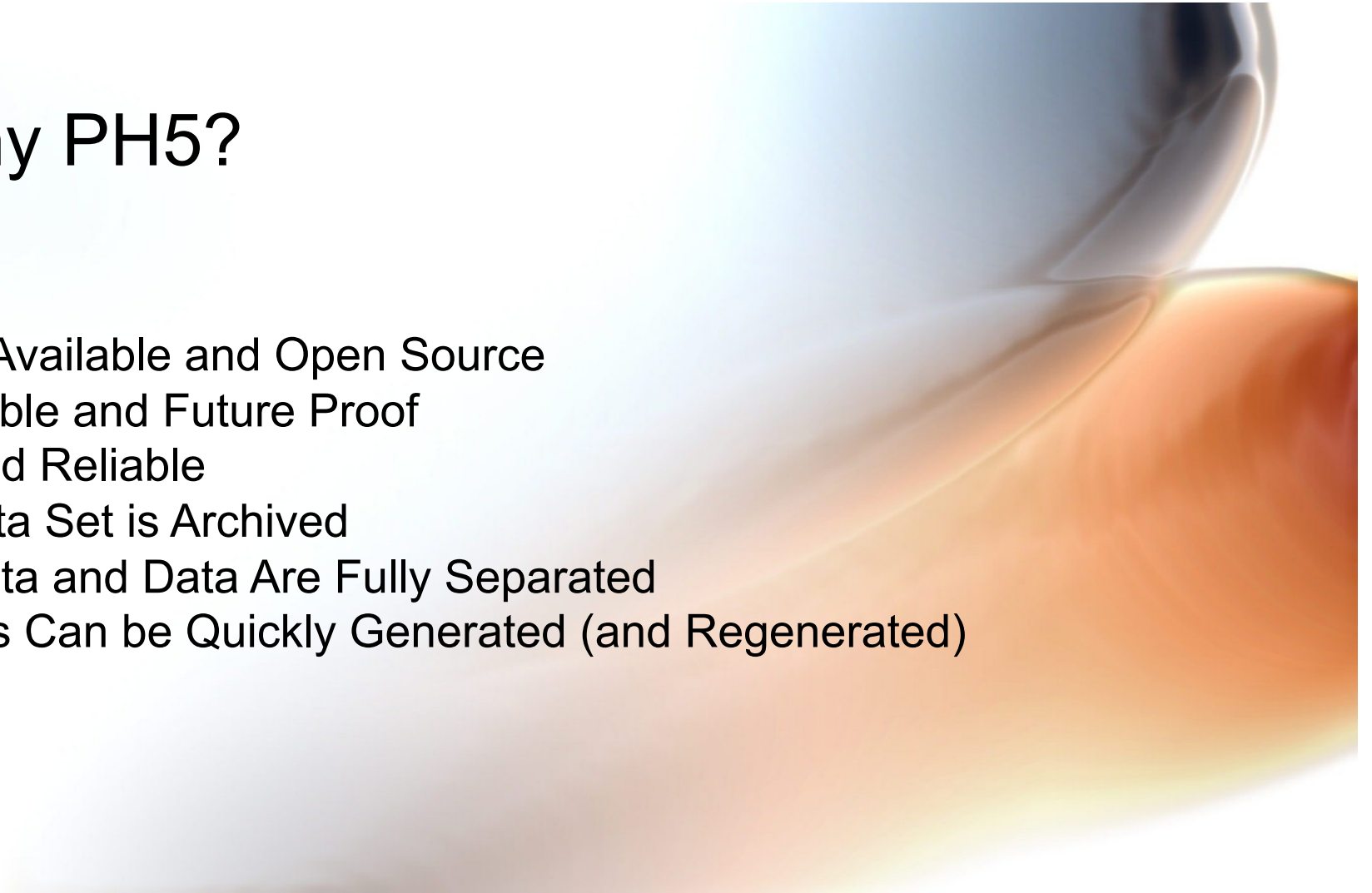
Extensible and Future Proof

Fast and Reliable

Full Data Set is Archived

Metadata and Data Are Fully Separated

Gathers Can be Quickly Generated (and Regenerated)



# What Needs to be Archived

All of Your RAW Data  
Experiment Metadata  
Station/Receiver Metadata  
Source Metadata  
Report

# Experiment Metadata

PI Names

Institutions

Assembled ID

Network Code

Experiment Name and Nickname

Brief Description of the Experiment

Bounding Coordinates of the Experiment



# Station/Receiver Metadata

Station ID

Datalogger Serial Number

Channel Number

Array Number

Deploy Time

Pickup Time

Latitude, Longitude, and Elevation

\*Possibly Optional: Datalogger type, sensor type, sensor serial

# Source Metadata

Source ID

Latitude, Longitude, Elevation

Source Time

Optional (Depending on Source Type)

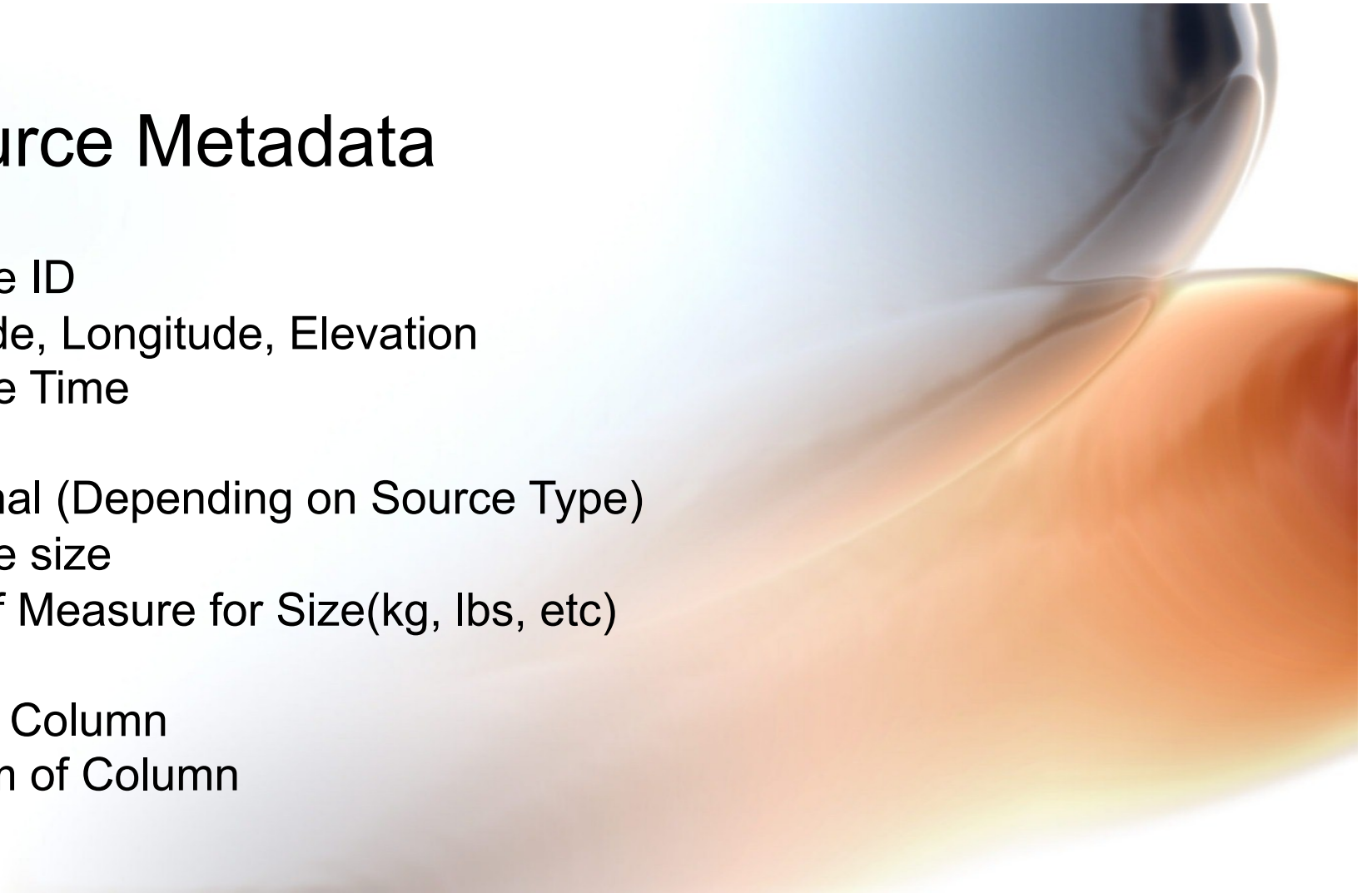
Source size

Unit of Measure for Size(kg, lbs, etc)

Depth

Top of Column

Bottom of Column





# Field Tools: The Kitchen Suite

The Kitchen Software Suite includes:

PForma: Raw Data to PH5

Experiment\_t-gen: Experiment Description Metadata

Noven: Format Station and Event Metadata in KEF format

Geod2kef: Calculate Source-Receiver Offsets

Time-kef-gen: Texan Time Correction

PH5View: Quickly Look at Gathers

PH5toseg and PH5tosac: Output Your Data

# Kitchen Suite Requirements

Linux or Mac (CentOS 7 Recommended)  
Modern Multi-Core Processor Highly Recommended  
Python 2.7  
HDF5  
Epel-release-noarch (if using CentOS)  
PIP 6.0.8 or Higher (if using CentOS)

Complete list of requirements at:  
<http://jasper.passcal.nmt.edu/wiki/>



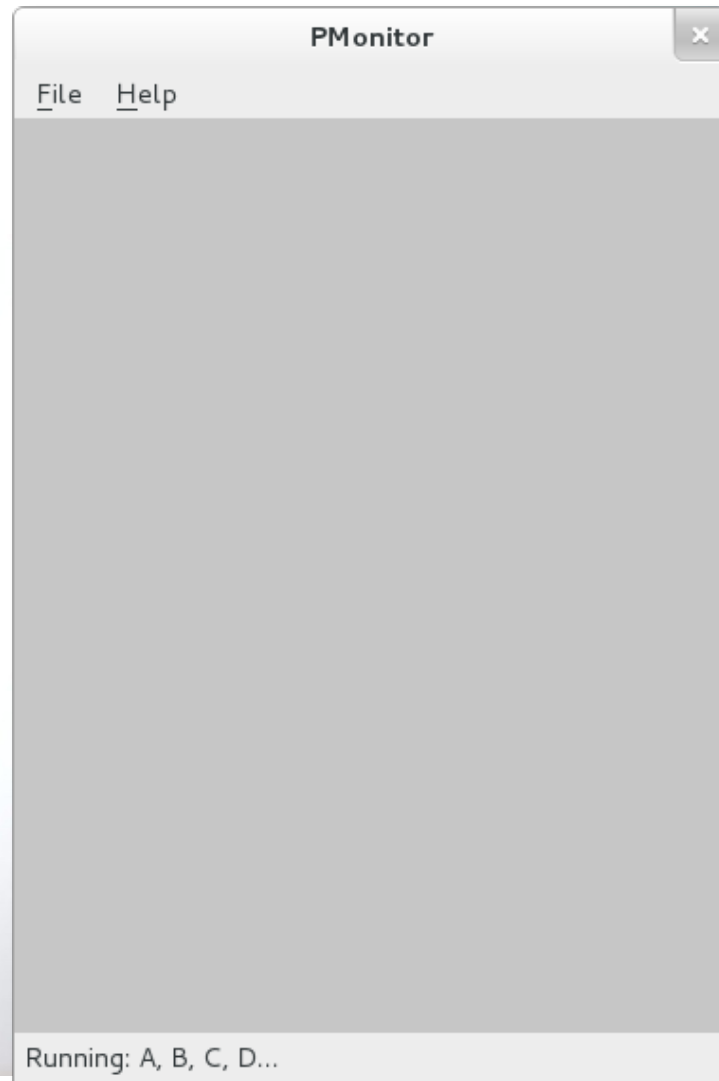
**Switching Gears:  
Creating a PH5 Archive in the Field**

# Step 1: PForma

- Create list of Raw files

```
[root@localhost Raw_Data]# ls -d -1 $PWD/*. * > trd_list
```

Note: There are many ways to create a list of raw files. Choose your favorite, but ensure that each line contains the full path to the file.



**PMonitor** [x]

File Help

**A**

100%

**B**

80%

**C**

80%

**D**

97%

Running: A, B, C, D...

The image shows a window titled "PMonitor" with a standard menu bar containing "File" and "Help". The window contains four vertically stacked panels, each representing a process. Panel A shows a green progress bar at 100% and a "Log" button. Panel B shows a green progress bar at 80% and a "Kill" button. Panel C shows a green progress bar at 80% and a "Kill" button. Panel D shows an orange progress bar at 97% and a "Log" button. At the bottom of the window, a status bar reads "Running: A, B, C, D...".

**Errors D**

```
File
Processing: /run/media/azevedo/Data/SUGAR_RAW/I13928RAW2014079.TRD 13928 =*** Opening: miniPH5_00001 done
Processing: /run/media/azevedo/Data/SUGAR_RAW/I12983RAW2014079.TRD 12983 =*** Opening: miniPH5_00001 done
Processing: /run/media/azevedo/Data/SUGAR_RAW/I12627RAW2014079.TRD 12627 =*** Opening: miniPH5_00001 done
Processing: /run/media/azevedo/Data/SUGAR_RAW/I12471RAW2014079.TRD 12471 =Updating external references...done,
191 nodes recreated.
Closing remaining open files:./miniPH5_00001.ph5...done
done
Done
Process finished but not all files processed: 40 of 41.
```

**PMonitor**

File Help

**A**

100% Log

**B**

80% Kill

**C**

80% Kill

**D**

97% Log

Running: A, B, C, D...

# KEF Files: Kitchen Exchange Format

A KEF file is a plain text file that is used to load metadata into PH5.

Tools exist to create the various KEF files you will need to create a complete PH5 archive.

```
no_data_section/_name/_code/_comp/_type/_name/_pr  
/Experiment_g/Sorts_g/Event_t  
id_s = 5001  
description_s =  
time/ascii_s = Mon Nov 24 04:25:00 2014  
time/epoch_l = 1416803100  
time/micro_seconds_i = 0  
time/type_s = BOTH  
location/X/value_d = 21.86500666  
location/X/units_s = degrees  
location/Y/value_d = -18.41244766  
location/Y/units_s = degrees  
location/Z/value_d = 995.702  
location/Z/units_s = meters  
location/coordinate_system_s = geodetic  
location/projection_s = none  
location/ellipsoid_s = WGS84  
location/description_s = 5001  
size/value_d = 1000  
size/units_s = lbs  
depth/value_d =  
depth/units_s = meters
```



# Experiment\_t-gen

Generate Experiment Metadata

Save as kef file

Run kef2ph5 to Load Generated kef

```
[field@dhcp-25 ~]$ kef2ph5 -n master -p /path/to/ph5 -k experiment_t.kef
```

changes.py

### Experiment\_t Generator

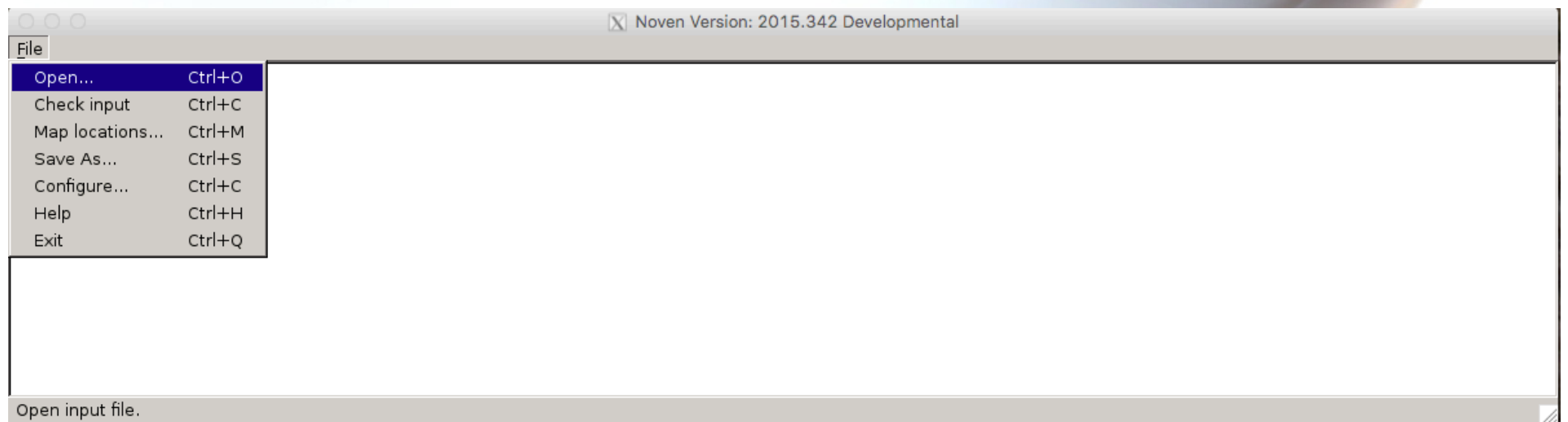
nickname_s:	north_west_corner/coordinate_system_s:	south_east_corner/coordinate_system_s:
<input type="text" value="GIAME"/>	<input type="text"/>	<input type="text"/>
longname_s:	north_west_corner/projection_s:	south_east_corner/projection_s:
<input type="text" value="GIAME"/>	<input type="text"/>	<input type="text"/>
Pls_s:	north_west_corner/ellipsoid_s:	south_east_corner/ellipsoid_s:
<input type="text" value="Michael Schmitz"/>	<input type="text"/>	<input type="text"/>
institutions_s:	north_west_corner/description_s:	south_east_corner/description_s:
<input type="text" value="FUNVISIS"/>	<input type="text"/>	<input type="text"/>
north_west_corner/X/value_d:	south_east_corner/X/value_d:	summary_paragraph_s:
<input type="text"/>	<input type="text"/>	<input type="text" value="As a base for the lithospheric investigati"/>
north_west_corner/X/units_s:	south_east_corner/X/units_s:	experiment_id_s:
<input type="text"/>	<input type="text"/>	<input type="text" value="14-040"/>
north_west_corner/Y/value_d:	south_east_corner/Y/value_d:	time_stamp/ascii_s:
<input type="text"/>	<input type="text"/>	<input type="text" value="Mon Dec 7 08:21:01 2015"/>
north_west_corner/Y/units_s:	south_east_corner/Y/units_s:	time_stamp/epoch_l:
<input type="text"/>	<input type="text"/>	<input type="text" value="1449501661"/>
north_west_corner/Z/value_d:	south_east_corner/Z/value_d:	time_stamp/micro_seconds_i:
<input type="text"/>	<input type="text"/>	<input type="text" value="0"/>
north_west_corner/Z/units_s:	south_east_corner/Z/units_s:	time_stamp/type_s:
<input type="text"/>	<input type="text"/>	<input type="text" value="BOTH"/>
		<input type="button" value="Generate Kef"/>

# Receiver and Shot Metadata

Receiver and Shot Metadata are Saved in CSV Format

station	serial	lat	lon	elevation	Channel	Array	Deploy	Pickup	Shot	lat	lon	elev	time	size	unit	depth
1001	12997	8.64808	-71.85546	57	1	1	2015:320:00:00.00	2015:321:00:00.00	5202	33.80847	-83.55728	225	2015:219:03:20:00.020	273	kg	16
1002	13919	8.64698	-71.85546	56.81	1	1	2015:320:00:00.00	2015:321:00:00.00	5203	33.69766	-83.49372	194	2015:219:07:20:00.020	182	kg	18
1003	11891	8.64625	-71.85493	56.61	1	1	2015:320:00:00.00	2015:321:00:00.00	5204	33.45043	-83.39242	172	2015:219:05:50:00.020	727	kg	22
1004	13971	8.64549	-71.85435	56.33	1	1	2015:320:00:00.00	2015:321:00:00.00	5205	33.31253	-83.29161	177	2015:219:08:51:00.020	182	kg	17
1005	14094	8.64478	-71.85378	55.86	1	1	2015:320:00:00.00	2015:321:00:00.00	5206	33.11601	-83.12384	147	2015:220:03:00:00.020	182	kg	19
1006	12945	8.64409	-71.85323	55.43	1	1	2015:320:00:00.00	2015:321:00:00.00	5207	32.83597	-82.89922	102	2015:220:04:10:00.020	182	kg	17
1007	12394	8.64329	-71.85276	55.51	1	1	2015:320:00:00.00	2015:321:00:00.00	5208	32.69918	-82.92459	75	2015:220:05:10:00.020	182	kg	19
1008	11590	8.64212	-71.85288	54.84	1	1	2015:320:00:00.00	2015:321:00:00.00	5209	32.47656	-82.80255	59	2015:220:06:18:00.020	364	kg	21
1009	12545	8.64043	-71.85354	55.2	1	1	2015:320:00:00.00	2015:321:00:00.00	5210	32.35993	-82.71048	55	2015:220:05:05:00.020	182	kg	12
1010	12870	8.63791	-71.85376	55.55	1	1	2015:320:00:00.00	2015:321:00:00.00	5212	31.84319	-82.42969	68	2015:220:03:05:00.020	182	kg	19

# Noven



receiver

File

- Open... Ctrl+O
- Check input Ctrl+C
- Map locations... Ctrl+M
- Save As... Ctrl+S
- Configure... Ctrl+C
- Help Ctrl+H
- Exit Ctrl+Q

Station#	TexanLong#	Component	Sensor type	Deploy Time	
301	11528	1	L4A	2015:267:00:00:00	2015
302	11771	1	GS11	2015:267:00:00:00	2015

Set input file field separator etc.

receiver

File

Array	id_s	channel_number_i	Ignore	deploy_time/ascii_s	Ignore	Ignore	Ignore
Line	Station	Component	Texan S/N	Deploy Time	Pickup Time	Lat	
1	1	1	3953	2014:325:10:00:00	2014:329:10:00:00	-18.26142	
1	2	1	4081	2014:325:10:00:00	2014:329:10:00:00	-18.26273	

**Configure**

Input Type: receiver

Output Format: kef

Column Separator: comma

Skip Lines: 0

View Lines: 3

Close Apply

receiver

File

Ignore	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore
	Station#	TexanLong#	Component	Sensor type	Deploy Time	
Ignore	301	11528	1	L4A	2015:267:00:00:00	2015
Array	302	11771	1	GS11	2015:267:00:00:00	2015
Deploy/Pickup						
channel_number_i						
das/serial_number_s						
deploy_time/ascii_s						
description_s						
id_s						
location/X/value_d						
location/Y/value_d						

Array or line number.

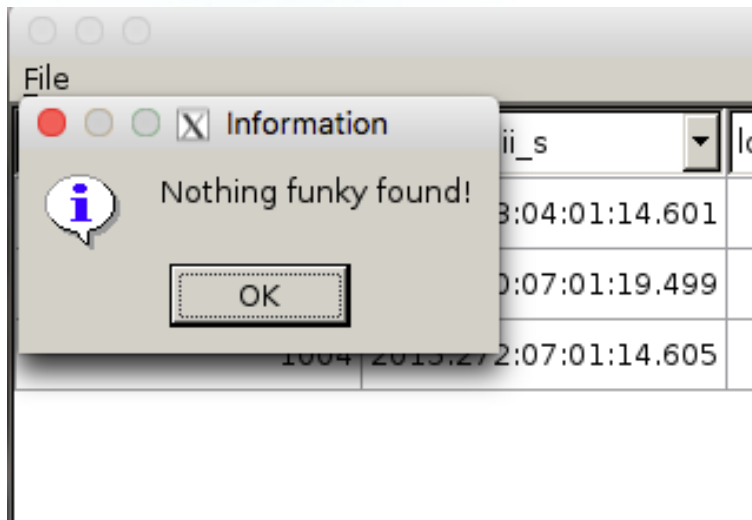
receiver

File

- Open... Ctrl+O
- Check input Ctrl+C**
- Map locations... Ctrl+M
- Save As... Ctrl+S
- Configure... Ctrl+C
- Help Ctrl+H
- Exit Ctrl+Q

Station	Component	
1	1	
2	1	

Check validity of input csv.



Save the kef and Run:

```
field$ kef2ph5 -n master -p /path/toph5 -k Array_1_t.kef
```

```
field$ kef2ph5 -n master -p /path/toph5 -k Event_t.kef
```

Note: You need to run kef2ph5 for every array in your experiment



# Geod2kef

Used to calculate the offset distance between sources and receivers. Geod2kef creates an offset kef file to be loaded into the PH5 Archive

```
field$ geod2kef -n master -p /path/to/ph5 > offset_t.kef
```

```
field$ kef2ph5 -n master -k offset_t.kef
```

# Time-kef-gen

Time-kef-gen is used only for Texan(RT125A) RAW data. Time-kef-gen will calculate the timing-drift corrections for the RT125A RAW data and create a kef file to be loaded into the PH5 Archive.

```
field$ time-kef-gen -n master -p /path/to/ph5 > time_t.kef
```

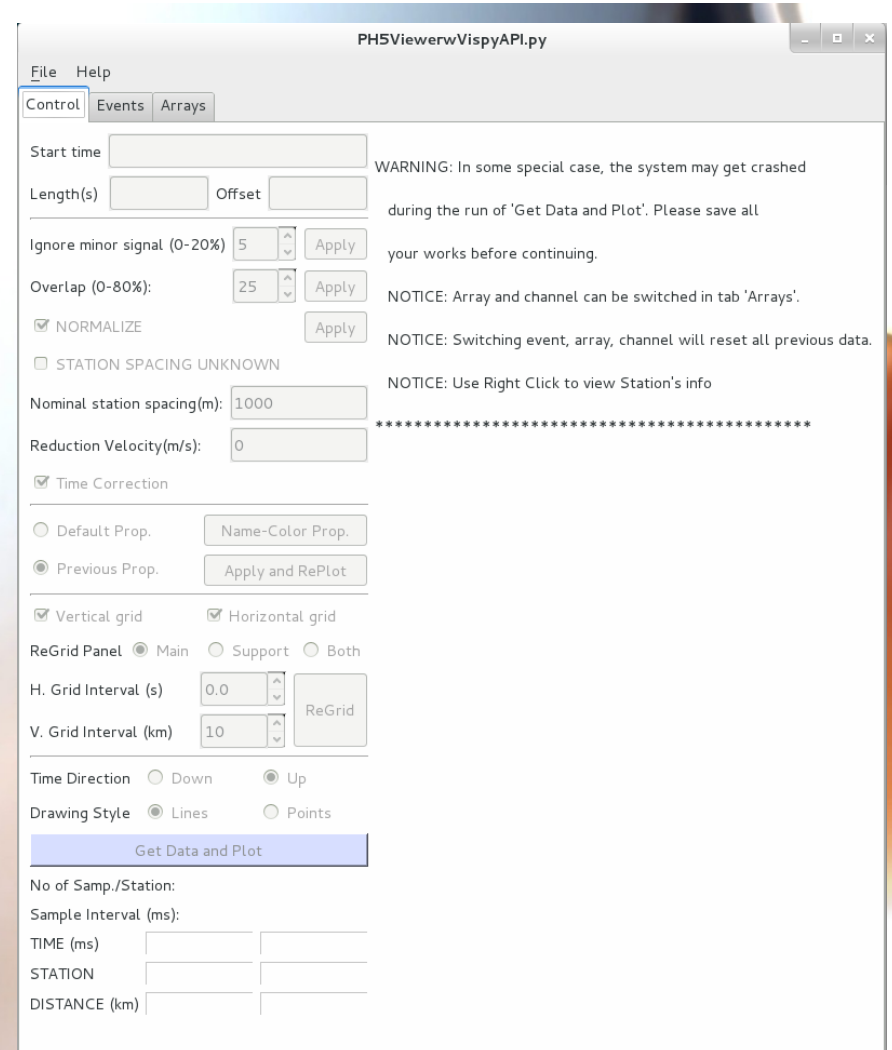
```
field$ kef2ph5 -n master -k time_t.kef
```

# PH5View

Easily Check Metadata

Quickly View Shot Gathers

Fast Basic QC Before Creating SEG-Y



PH5ViewerwVispyAPI.py

File Help

Control **Events** Arrays

NOTICE: Graph Name is '14-099 seisorz'. Click on Properties in Control tab to change name of the graph

Start time: 2014:328:10:15:00.000

Length(s): 300.0

ID	Time	Latitude	Longitude	Elevation(m)	Mag	Depth(m)
<input type="radio"/> 5001	2014:328:04:25:00.000	-18.41244766	21.86500666	995.702	1000.0	0.0
<input type="radio"/> 5002	2014:328:05:25:00.000	-18.56569414	21.98445972	981.467	1000.0	0.0
<input type="radio"/> 5003	2014:328:06:25:00.000	-18.71685701	22.10816575	982.603	1000.0	0.0
<input type="radio"/> 5004	2014:328:07:15:00.000	-18.86555648	22.22697373	982.255	1000.0	0.0
<input type="radio"/> 5005	2014:328:08:05:00.000	-18.98805048	22.27282974	976.383	1000.0	0.0
<input type="radio"/> 5006	2014:328:08:55:00.000	-19.207188	22.18723334	968.357	1000.0	0.0
<input checked="" type="radio"/> 5007	2014:328:10:15:00.000	-19.50077899	22.10372901	963.197	1000.0	0.0
<input type="radio"/> 5008	2014:328:11:15:00.000	-19.79267576	22.19873526	954.109	1000.0	0.0
<input type="radio"/> 5009	2014:328:12:05:00.000	-20.00028075	22.30384524	955.149	1000.0	0.0
<input type="radio"/> 5010	2014:328:13:35:00.000	-20.0981105	22.52407924	938.706	1000.0	0.0
<input type="radio"/> 5011	2014:328:14:35:00.000	-20.18648429	22.77032658	938.178	1000.0	0.0
<input type="radio"/> 5012	2014:328:04:10:00.000	-20.26686425	23.0679015	932.732	1000.0	0.0
<input type="radio"/> 5013	2014:328:06:40:00.000	-20.31324262	23.33637079	970.775	1000.0	0.0
<input type="radio"/> 5014	2014:328:08:20:00.000	-20.49126168	23.44089966	984.315	1000.0	0.0
<input type="radio"/> 5015	2014:328:09:30:00.000	-20.60987364	23.57030466	974.962	1000.0	0.0
<input type="radio"/> 5017	2014:328:13:30:00.000	-20.97740987	23.77326102	950.928	1000.0	0.0
<input type="radio"/> 5018	2014:329:08:00:00.000	-21.12004302	23.97860851	944.851	1000.0	0.0
<input type="radio"/> 5019	2014:329:08:50:00.000	-21.260847	24.08978	948.82	1000.0	0.0
<input type="radio"/> 5020	2014:329:10:00:00.000	-21.44555433	24.23694167	946.496	1000.0	0.0

PH5ViewerwVispyAPI.py

File Help

Control Events Arrays

Channels:  1

Array: 001

Sample Rate: 250.0

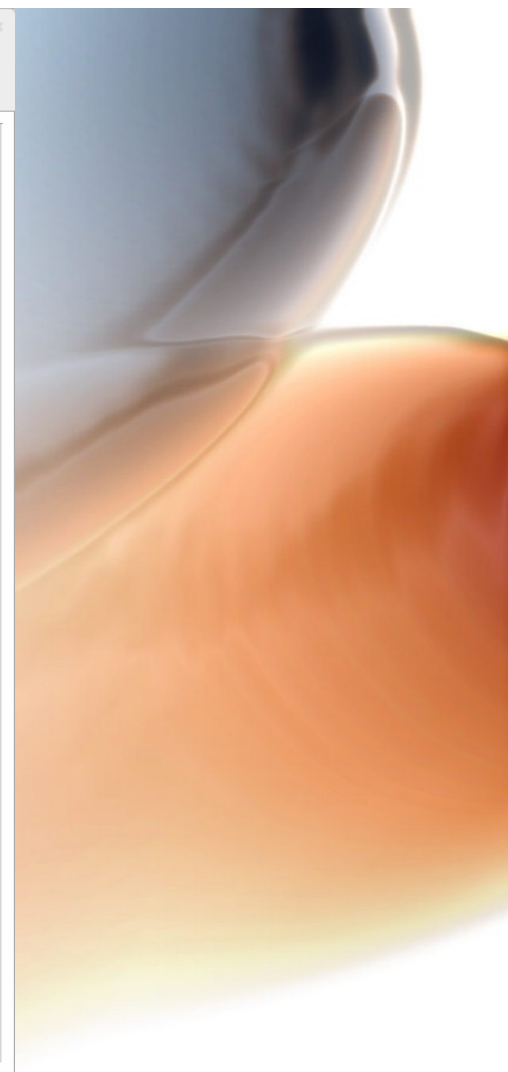
Deploy Time: 2014:325:10:00:00

Pickup Time: 2014:329:10:00:00

Include this array in the plotting

Array: 001

ID	DAS	Latitude	Longitude	Elevation(m)	Component
1	13953	-18.26142	21.75392	997.6	1
2	14081	-18.26273	21.75808	992.0	1
3	14008	-18.26472	21.76365	994.2	1
4	14069	-18.26593	21.76748	993.2	1
5	12505	-18.26939	21.77063	993.6	1
6	12206	-18.27423	21.7743	993.1	1
7	13856	-18.27757	21.77764	993.7	1
8	14012	-18.27983	21.78237	987.6	1
9	12682	-18.28226	21.78819	992.7	1
10	12720	-18.28658	21.78842	993.7	1
11	12616	-18.29308	21.78789	993.1	1
12	12879	-18.29853	21.78817	995.7	1
13	14080	-18.30226	21.78922	995.0	1
14	11909	-18.30467	21.7906	996.8	1
15	14036	-18.30812	21.79348	997.7	1
16	12699	-18.31116	21.79758	997.1	1
17	12988	-18.31482	21.80263	994.7	1
18	12464	-18.31656	21.80438	993.1	1
19	13960	-18.32107	21.80844	991.0	1



PH5ViewerwVispyAPI.py

File Help

Control Events Arrays

Start time 2014:328:10:15:00.000

Length(s) 60 Offset 0

Ignore minor signal (0-20%) 5 Apply

Overlap (0-80%): 25 Apply

NORMALIZE Apply

STATION SPACING UNKNOWN

Nominal station spacing(m): 1000

Reduction Velocity(m/s): 0

Time Correction

Default Prop. Name-Color Prop.

Previous Prop. Apply and RePlot

Vertical grid  Horizontal grid

ReGrid Panel  Main  Support  Both

H. Grid Interval (s) 4.0 ReGrid

V. Grid Interval (km) 10

Time Direction  Down  Up

Drawing Style  Lines  Points

Get Data and Plot

No of Samp./Station:

Sample Interval (ms):

TIME (ms) [ ] [ ]

STATION [ ] [ ]

DISTANCE (km) [ ] [ ]

1/5 Getting PH5Data : reading data and metadata: 150 stations

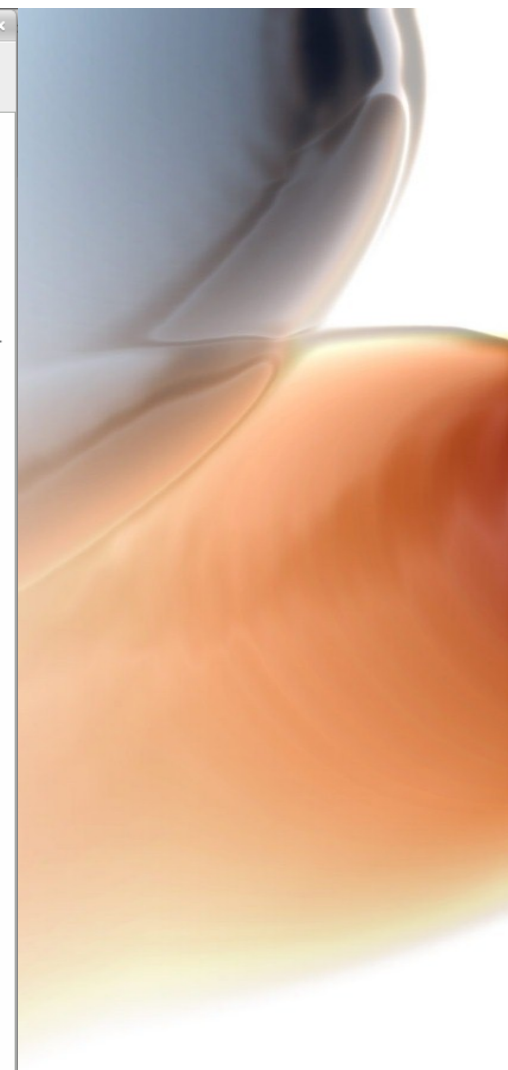

WARNING: In some special case, the system may get crashed during the run of 'Get Data and Plot'. Please save all your works before continuing.

NOTICE: Array and channel can be switched in tab 'Arrays'.

NOTICE: Switching event, array, channel will reset all previous data.

NOTICE: Use Right Click to view Station's info

\*\*\*\*\*



PH5ViewerwVispyAPI.py

File Help

Control Events Arrays

Start time: 2014.328:10:15:00.000

Length(s): 60 Offset: 0

Ignore minor signal (0-20%): 5 Apply

Overlap (0-80%): 25 Apply

NORMALIZE Apply

STATION SPACING UNKNOWN

Nominal station spacing(m): 1000

Reduction Velocity(m/s): 0

Time Correction

Default Prop. Name-Color Prop.

Previous Prop. Apply and RePlot

Vertical grid  Horizontal grid

ReGrid Panel  Main  Support  Both

H. Grid Interval (s): 4.0 ReGrid

V. Grid Interval (km): 10

Time Direction  Down  Up

Drawing Style  Lines  Points

Get Data and Plot

No of Samp./Station:

Sample Interval (ms):

TIME (ms)

STATION

DISTANCE (km)

1/5 Getting PH5Data : reading data and metadata: 150 stations

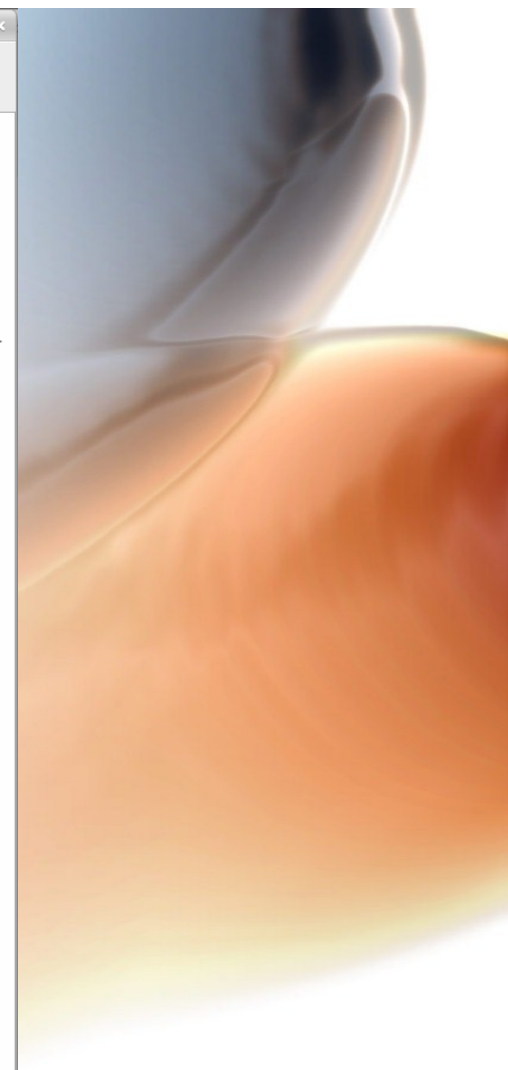

WARNING: In some special case, the system may get crashed during the run of 'Get Data and Plot'. Please save all your works before continuing.

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\*\*\*\*\*



PH5ViewerwVispyAPI.py

File Help

Control Events Arrays

Start time 2014:328:10:15:00.000

Length(s) 60 Offset 0

Ignore minor signal (0-20%) 5 Apply

Overlap (0-80%): 25 Apply

NORMALIZE Apply

STATION SPACING UNKNOWN

Nominal station spacing(m): 1000

Reduction Velocity(m/s): 0

Time Correction

Default Prop. Name-Color Prop.

Previous Prop. Apply and RePlot

Vertical grid  Horizontal grid


ReGrid Panel  Main  Support  Both

H. Grid Interval (s) 4.0 ReGrid

V. Grid Interval (km) 10

Time Direction  Down  Up

Drawing Style  Lines  Points

**Get Data and Plot** 

No of Samp./Station:

Sample Interval (ms):

TIME (ms) [ ] [ ]

STATION [ ] [ ]

DISTANCE (km) [ ] [ ]

1/5 Getting PH5Data : reading data and metadata: 150 stations

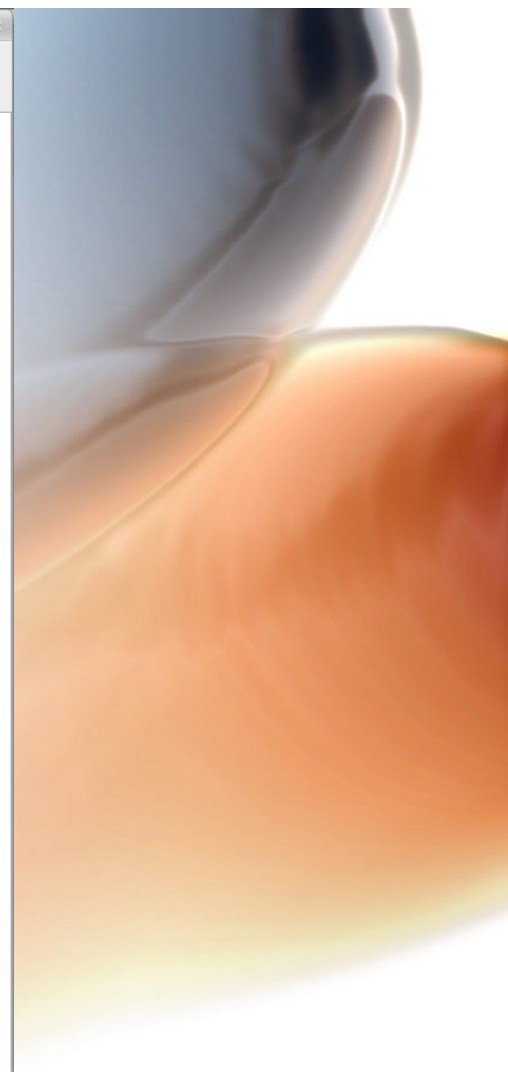
WARNING: In some special case, the system may get crashed during the run of 'Get Data and Plot'. Please save all your works before continuing.

NOTICE: Array and channel can be switched in tab 'Arrays'.

NOTICE: Switching event, array, channel will reset all previous data.

NOTICE: Use Right Click to view Station's info

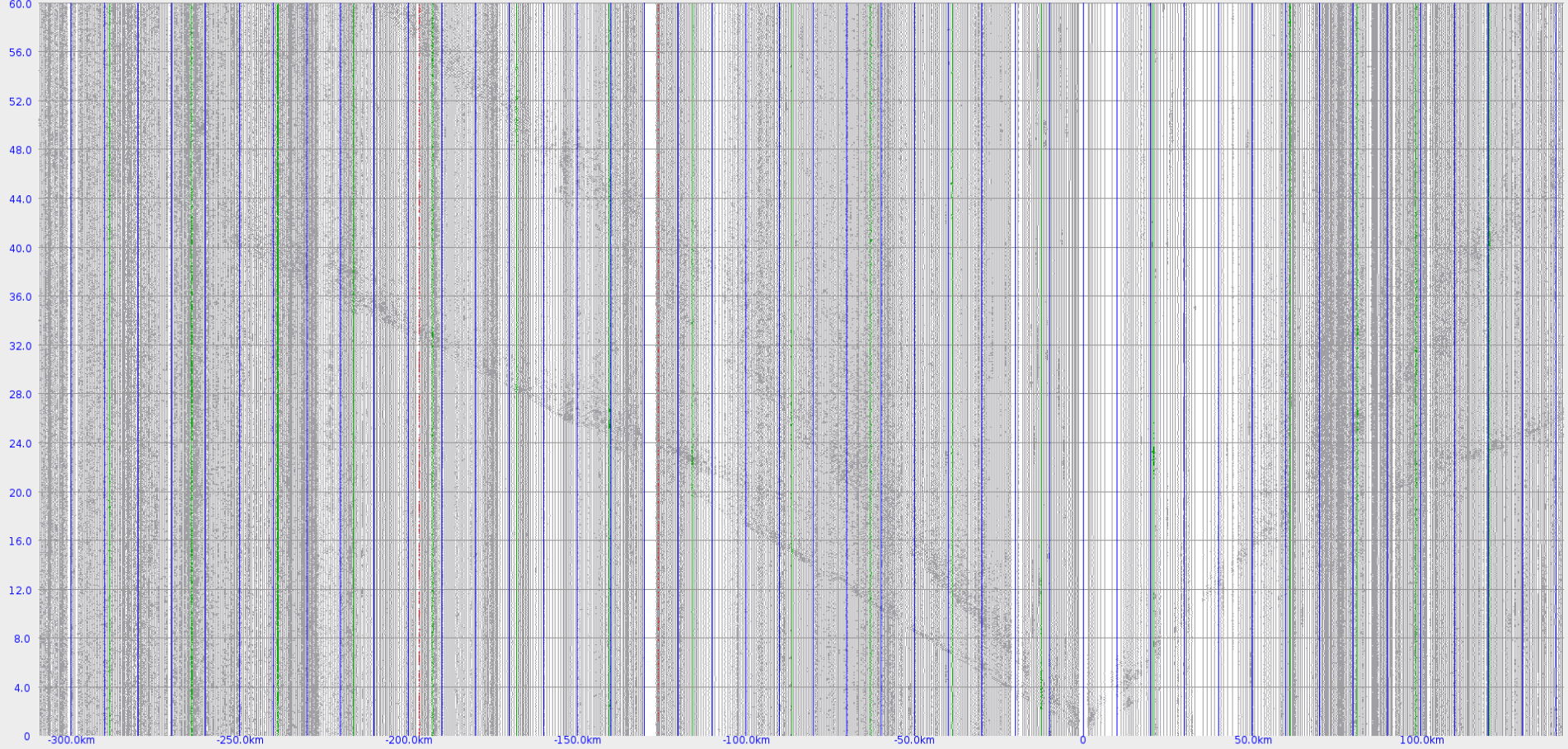
\*\*\*\*\*





64.0 Help    Zoom/pan  
   Selecting

Distance (km)       
Time (s)



# PH5toSeg

Allows you to quickly create SEG-Y shot gathers using a variety of parameters.

To get SEG-Y gathers of all events simply run:

```
[field@dhcp-25 PH5Viewer]$ ph5toseg -n master -p /path/to/ph5 -E -l 60 -o /output_directory
```

Convert ph5 file to standard SEG-Y.

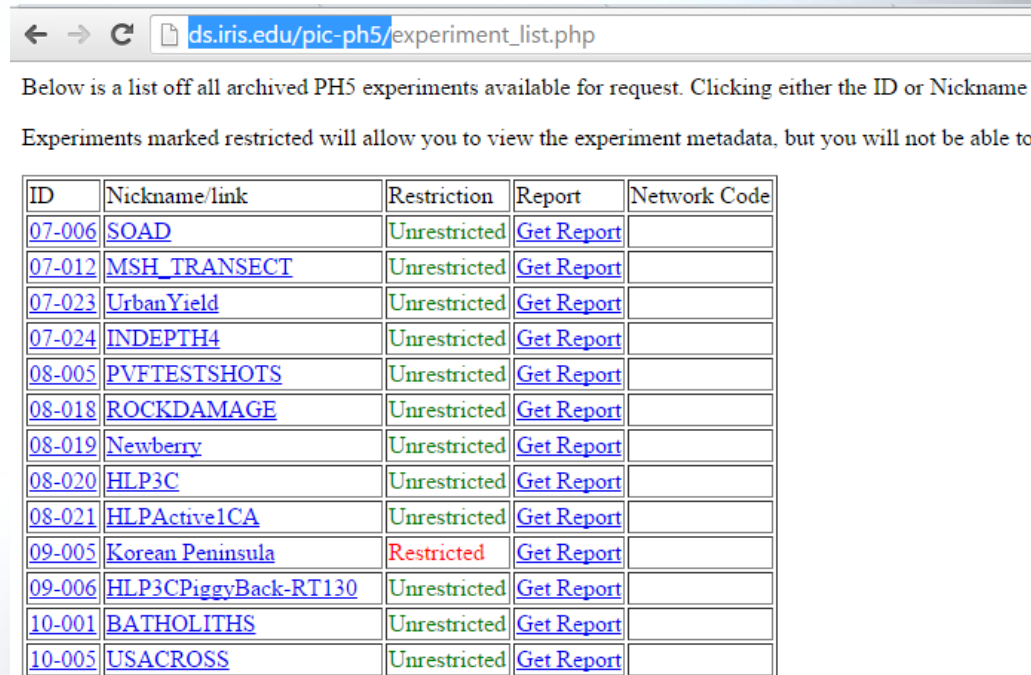
Options:

```
-h, --help          show this help message and exit
-e event_number, --eventnumber=event_number
-E, --allevents
-s start_time, --starttime=start_time
-A, --all
-t stop_time, --stoptime=stop_time
-a array, --array=array
-l length, --length=length
-O offset, --offset=offset
-n nickname, --nickname=nickname
-p ph5_path, --ph5path=ph5_path
-c channel, --channel=channel
-N, --notimecorrect
-d decimation, --decimation=decimation
-f format, --format=format
-o out_dir, --out_dir=out_dir
-C, --check_tables
--use_deploy_pickup Use deploy and pickup times to determine if data
                    exists for a station.
-D das_sn, --das=das_sn
-S station, --station=station
-Y doy_keep, --doy=doy_keep
                    Comma separated list of julian days to extract.
-r sample_rate, --sample_rate_keep=sample_rate
-V red_vel, --reduction_velocity=red_vel
-U, --UTM          Fill SEG-Y headers with UTM instead of lat/lon.
-x extended_header_style, --extended_header=extended_header_style
                    Extended trace header style:
                    'P' -> PASSCAL,           'S' -> SEG,
                    'U' -> Menlo USGS,         'I' ->
                    Scripts SIOSEIS Not implemented,
                    'N' -> iNova Firefly Not implemented

--ic
--break_standard
```

# Switching Gears: PH5 Web Interface

The Website: <http://ds.iris.edu/pic-ph5/>



The screenshot shows a web browser window with the address bar containing [ds.iris.edu/pic-ph5/experiment\\_list.php](http://ds.iris.edu/pic-ph5/experiment_list.php). Below the address bar, there is a text block that reads: "Below is a list off all archived PH5 experiments available for request. Clicking either the ID or Nickname". Below this text is another line: "Experiments marked restricted will allow you to view the experiment metadata, but you will not be able to". The main content is a table with five columns: ID, Nickname/link, Restriction, Report, and Network Code. The table lists 15 experiments, with most having a restriction of "Unrestricted" and one ("Korean Peninsula") marked as "Restricted". Each row includes a "Get Report" link.

ID	Nickname/link	Restriction	Report	Network Code
<a href="#">07-006</a>	<a href="#">SOAD</a>	Unrestricted	<a href="#">Get Report</a>	
<a href="#">07-012</a>	<a href="#">MSH_TRANSECT</a>	Unrestricted	<a href="#">Get Report</a>	
<a href="#">07-023</a>	<a href="#">UrbanYield</a>	Unrestricted	<a href="#">Get Report</a>	
<a href="#">07-024</a>	<a href="#">INDEPTH4</a>	Unrestricted	<a href="#">Get Report</a>	
<a href="#">08-005</a>	<a href="#">PVFTESTSHOTS</a>	Unrestricted	<a href="#">Get Report</a>	
<a href="#">08-018</a>	<a href="#">ROCKDAMAGE</a>	Unrestricted	<a href="#">Get Report</a>	
<a href="#">08-019</a>	<a href="#">Newberry</a>	Unrestricted	<a href="#">Get Report</a>	
<a href="#">08-020</a>	<a href="#">HLP3C</a>	Unrestricted	<a href="#">Get Report</a>	
<a href="#">08-021</a>	<a href="#">HLPActive1CA</a>	Unrestricted	<a href="#">Get Report</a>	
<a href="#">09-005</a>	<a href="#">Korean Peninsula</a>	Restricted	<a href="#">Get Report</a>	
<a href="#">09-006</a>	<a href="#">HLP3CPiggyBack-RT130</a>	Unrestricted	<a href="#">Get Report</a>	
<a href="#">10-001</a>	<a href="#">BATHOLITHS</a>	Unrestricted	<a href="#">Get Report</a>	
<a href="#">10-005</a>	<a href="#">USACROSS</a>	Unrestricted	<a href="#">Get Report</a>	

# The Main Interface

Form   Map   Help

The form below is for requesting subsets of the experiment data. If you would like to request ALL of the data in SAC format please click the following link: [I want to request the full data set in SAC format](#)

**The fields below will be used to track your request and are all required. Hover over input fields below for help.**

Name:	<input type="text"/>
Institution:	<input type="text"/>
Your E-MAIL:	<input type="text"/>
LABEL:	<input type="text"/>

**The fields below specify your request. An asterisk (\*) indicates required field.**

**Use the column to the right to select the data you would like to request. It will automatically be placed into the form when you click on what you want in the tables to the right.**

## ALCUDIA-WA

**Ramon Carbonell**  
**CSIC-Institut de Ciencies de la Terra Jaume Almera**

The proposed project aims to place strong constraints in the distribution of the physical properties (P and S seismic wave velocities) in the upper mantle beneath the CIZ.

Show/Hide Events  

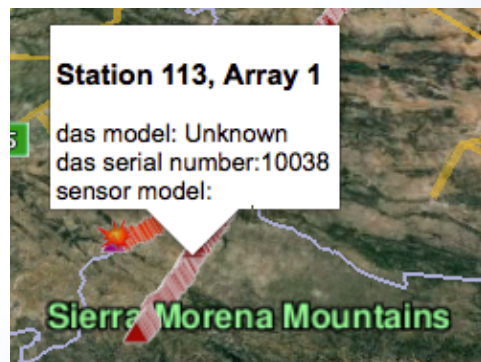
*Click the array number to add it to the form. Clicking rows in the station table will add them to the form*

**Array: 001**  
Sample Rate: 250  
Deploy Time: 2012:126:00:00:00  
Pickup Time: 2012:133:23:59:00  
Show/Hide Stations

# Map View

The map tab can be used to get a quick view of the experiment geometry.

Clicking on any point will bring up metadata about the receiver or shot.



# The Main Form Fields Autofilled!

The fields below specify your request. An asterisk (\*) indicates required field.

Use the column to the right to select the data you would like to request. It will automatically be placed into the form when you click on what you want in the tables to the right.

Data Type:	about Standard SEG-Y	Standard SEG-Y ▾
Component:		ALL ▾
Decimation (useful for high sample rate data):		NONE ▾
Reduction Velocity (Km/sec):	6	
<input checked="" type="checkbox"/> Apply Time Correction to Texan Data		
Request by:		
<b>Event order:</b> <input checked="" type="radio"/> By Event IDs <input type="radio"/> By Time Range	<b>Receiver order:</b> <input type="radio"/> By Event ID <input type="radio"/> Range	<b>Traces:</b> <input type="radio"/> Das Serial Number
*Event IDs (comma separated list): 1,3,		
*Array IDs (comma separated list): 001,		
*Length (secs): 60    Offset (s):		
<input type="button" value="Submit Data Request"/>		

Show/Hide Events

ID	Time	Latitude	Longitude	Elevation(m)
1	2012:128:12:59:55.000	38.44839	-5.46017	576.0
2	2012:129:12:00:14.000	38.75269	-4.92534	551.0
3	2012:130:12:00:16.000	39.37725	-4.68685	629.0
4	2012:131:12:00:14.000	39.9021	-4.46484	514.0
5	2012:132:11:00:12.000	40.4551	-4.04072	634.0

Click the array number to add it to the form. Clicking rows in the station table will add them to the form

**Array: 001**

Sample Rate: 250

Deploy Time: 2012:126:00:00:00

Pickup Time: 2012:133:23:59:00

Show/Hide Stations

# Submit Request-Receive Data

Below is the live output of the processing log.

You can close this page at anytime.

```
2015-12-07 15:14:14,250 Offset: 130732 m Azimuth: 24.359186 degrees
2015-12-07 15:14:14,324 Gain: 32 Bitweight: 5.96046e-08 volts/count
2015-12-07 15:14:14,325 Component: Z Azimuth: 0.0 degrees Dip: -90.0 degrees
2015-12-07 15:14:14,325 Clock: Start Epoch: 01336123843.000 End Epoch:
01336909319.000
2015-12-07 15:14:14,325 Clock: Offset: -0.0252304 seconds Slope: -3.21212e-08
2015-12-07 15:14:14,326 Sample rate: 250 Number of samples: 15000
2015-12-07 15:14:14,330 Wrote: 15000 samples with 0 sample padding.
2015-12-07 15:14:14,331 733
```

## PH5 Data Request

Message 2 of 9969



From PIC@iris.washington.edu  
To dhess@passcal.nmt.edu  
Date Today 08:20

data size: 87402.16KB  
Tar file size: 36654.78KB  
Data Set: 12-007

The data you requested can be found at the following link

[ftp://dmc.iris.washington.edu/pub/userdata/ph5\\_data/Derick\\_Hess/Derick\\_Hess\\_test.tar.gz](ftp://dmc.iris.washington.edu/pub/userdata/ph5_data/Derick_Hess/Derick_Hess_test.tar.gz)

The data will be available for 7 days before it is removed from the server. If you need more time to download the data please email [engine\\_room@iris.washington.edu](mailto:engine_room@iris.washington.edu) and let them know. Please right click the link and select 'save as' to download the file. Clicking the link may just bring up a blank page in some browsers

# PH5 In The Future

PH5tomseed (2016)

New PH5 Website (Early 2016)

Integrated Web Services (Early 2016)

Integrated Field Tool (Mid 2016)

New Data Formats: Input and Output (As Community Need Arises)





Questions?



# Contact

[dhess@passcal.nmt.edu](mailto:dhess@passcal.nmt.edu)

[software@passcal.nmt.edu](mailto:software@passcal.nmt.edu)