

# Introduction to SeisComP3

The background of the slide is a photograph of a forest at sunset. The trees are dark silhouettes against a sky that transitions from a deep blue on the left to a bright orange and red on the right, where the sun is setting. The text 'Introduction to SeisComP3' is overlaid in white at the top.



# SeisComP3

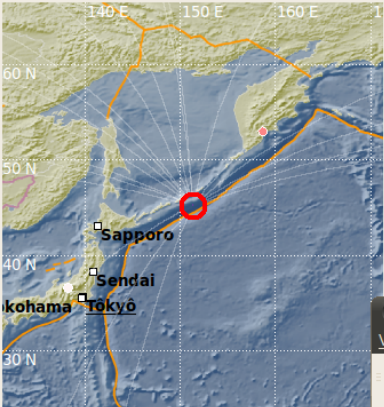
Applications Places System Wed Jul 11, 6:42 PM stefan

Browse and run installed applications

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Location Magnitudes Event Events

### Kuril Islands



Time: **2012-07-11 02:31:17** e Azimuth TravelTime MoveOut Polar Filter is **not active**

Depth: **10 km** fixed

Lat: **45.29 ° N** +/- 6 km

Lon: **151.25 ° E** +/- 6 km

Phases: **20 / 23**

RMS Res.: 1.3 s

Az. Gap: 134 °

Min. Dist.: 9.1 °

EventID: gfz2012nmzp

Agency: **ISTI**

Author: **scautoloc@ubuntu-destro**

QcReport QcOverview

### Detailed Info

streamID	enabl...	latency	delay	timin...	offset	rms	gaps ...	overl...
II.KDAK.00.BHZ	on	18.4 s	4 h ...		2689...	2238...		

AU.NFK..BHZ	C.GO09..BHZ	CU.BCIP.00.BHZ	CU.GRGR.00.BHZ	CU...
G.CAN.00.BHZ	G.PAF.10.BHZ	G.PEL.00.BHZ	G.SPB.00.BHZ	G...
G.TAOE.00.BHZ	G.UNM.00.BHZ	GE.DAG..BHZ	GE.DAMY.BHZ	GE...
GE.KAAM..BHZ	GE.KBS.00.BHZ	GE.LHMI..BHZ	GE.MNAI..BHZ	GE...
GE.SBV..BHZ	GE.SFJD.00.BHZ	GE.SOEI..BHZ	GT.DBIC.00.BHZ	II.A...
II.ASCN.00.BHZ	II.BORG.00.BHZ	II.ESK.00.BHZ	II.FFC.00.BHZ	II.H...
II.JTS.00.BHZ	II.KDAK.00.BHZ	II.KURK.00.BHZ	II.LVZ.00.BHZ	II.O...
II.PFO.00.BHZ	II.RPN.00.BHZ	II.SHEL.00.BHZ	II.SUR.00.BHZ	II.T...
II.WRAB.00.BHZ	IU.AFI.00.BHZ	IU.BBSR.00.BHZ	IU.BILL.00.BHZ	IU...
IU.GNI.00.BHZ	IU.GRFO..BHZ	IU.GUMO.00.BHZ	IU.HNR.00.BHZ	IU...
IU.MAJO.00.BHZ	IU.OTAV.00.BHZ	IU.PET.00.BHZ	IU.PMSA.00.BHZ	IU...
IU.RAR.00.BHZ	IU.RCBR.00.BHZ	IU.SAML.00.BHZ	IU.SLSB.00.BHZ	IU...

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Used Status Phase Net

<input checked="" type="checkbox"/>	A<T>	P	IU
<input checked="" type="checkbox"/>	A<T>	P	IU
<input checked="" type="checkbox"/>	A<T>	P	IU
<input checked="" type="checkbox"/>	A<T>	P	II
<input checked="" type="checkbox"/>	A<T>	P	II
<input checked="" type="checkbox"/>	A<T>	P	II
<input checked="" type="checkbox"/>	A<T>	P	GE
<input checked="" type="checkbox"/>	A<T>	P	II
<input checked="" type="checkbox"/>	A<T>	P	IU
<input checked="" type="checkbox"/>	A<T>	P	GE

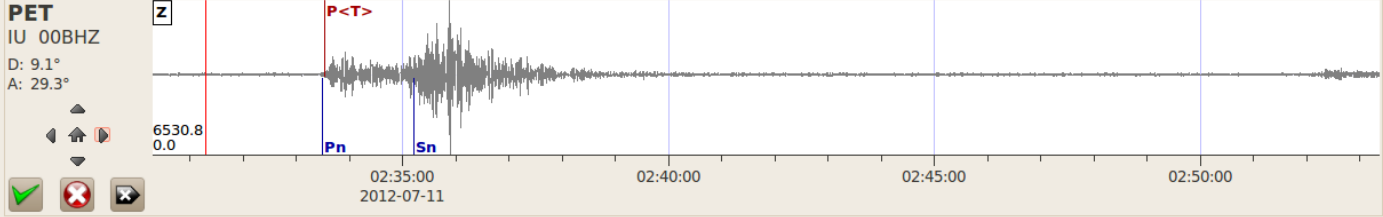
LOCSAT Profile: iasp91

Relocate

ID: Origin#20120711065203.234329.20571, Lat/Lon: 45.29 | 151.25, Depth: 10 km

View Navigation Picking Filter Locator

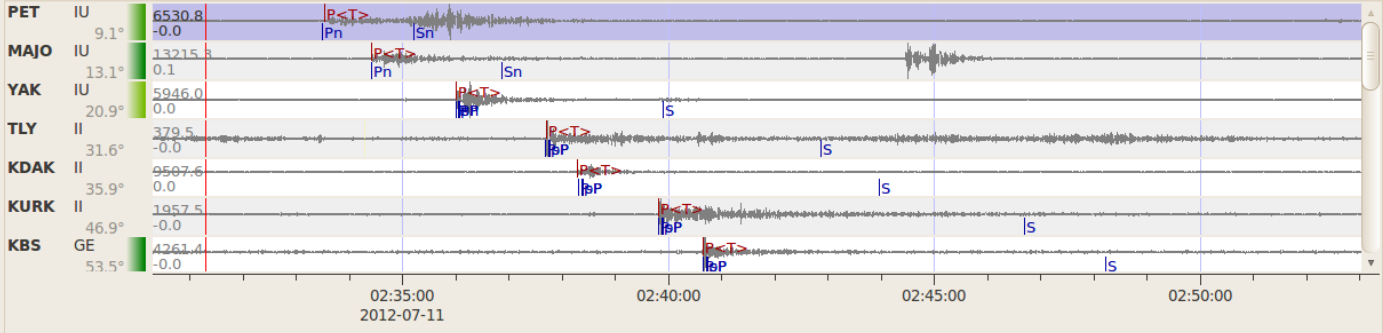
BP 0.7 - 2 Hz 3rd order



**PET** IU 00BHZ  
D: 9.1°  
A: 29.3°

6530.8  
0.0

02:35:00 2012-07-11



PET IU 9.1° 6530.8 -0.0

MAJO IU 13215.8 0.1

YAK IU 5946.0 0.0

TLY II 379.5 -0.0

KDAK II 9507.6 0.0

KURK II 1957.5 -0.0

KBS GE 4261.4 -0.0

02:35:00 2012-07-11

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- \* II.KURK.00.BHZ
- \* IU.PMSA.00.BHZ
- \* GE.PMG.00.BHZ
- \* II.LVZ.00.BHZ
- \* IU.BBSR.00.BHZ
- \* II.ARU.00.BHZ
- \* GT.DBIC.00.BHZ
- \* CU.TGUH.00.BHZ

Added 0 picks from database

stefan@ubuntu-destroyer:~\$

# SeisComP3 History

2001 SeedLink was master's thesis

2003 Algerian M7. started automatic tools

2005 Seedlink & Arclink; GFZ, ORFEUS, BGZ, INGV. Synchronize inventory.

2006 – SeisComP3 appears on the scene

2007 alpha/beta version - was operative from the beginning. stable! results used! Jakarta warning

2008 Barcelona 2009 Erice 2010 Potsdam

2011 Zurich 2012 Seattle 2016 Jakarta



# SeisComP3 Components

There are 3 parts of SeisComP3, and they're covered by 3 different licenses.

## ***Acquisition***

Hardware data sources and public data feeds  
SeedLink  
Arclink  
GNU Public License

## ***Processing***

Automated pick, locate, magnitudes  
Source free to download for non-profits  
SEISCOMP  
PUBLIC LICENSE

## ***GUI***

Display; post-processing tools  
BINARY LICENSE  
Source code now available as well

## **Acquisition**

Hardware data  
sources and  
public data feeds

SeedLink

Arclink

GNU Public  
License

# Prior to Acquisition: Metadata

**QuakeML** is the standard that the SeisComP3 database schema is based on.

To populate the database:

Inventory XML (sometimes called Station XML)

Dataless SEED volume

Station XML (called fdsnxml in SC3)

Nettab or tab

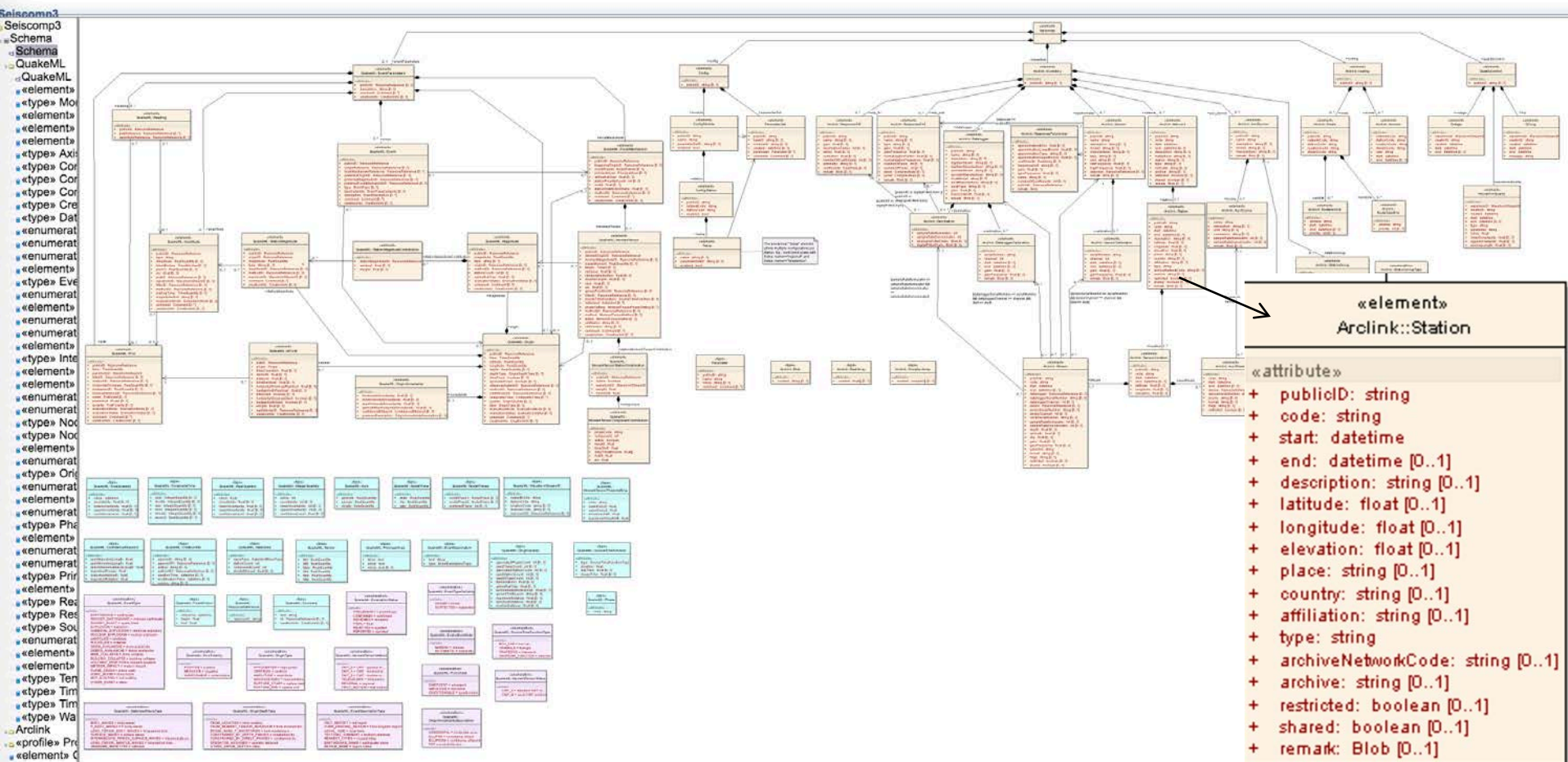
Key or arclink



# SeisComP3 QuakeML

[http://geofon.gfz-potsdam.de/\\_uml/](http://geofon.gfz-potsdam.de/_uml/)

← → ↻ geofon.gfz-potsdam.de/\_uml/



## Acquisition

Hardware data sources and public data feeds

SeedLink

Arclink

GNU Public

License

# Acquisition: Waveforms

**Seedlink** acquires and stores some number of minutes of waveform data data. Seedlink servers can connect to other seedlink servers as well as many digitizers. Realtime processing depends on these waveforms.

Remote  
IRIS  
seedlink

Remote  
GFZ  
seedlink

Q330

RefTek

Guralp

seedlink  
port  
18000





# Acquisition

Hardware data sources and public data feeds

SeedLink

Arclink

GNU Public License

# Waveform Storage

**Arclink** serves long-term storage.

Data is stored in the file system via slarchive in Miniseed format. The Arclink tool retrieves waveform spans by slowly reading Miniseed from disk.

seedlink  
port  
18000

arclink  
port  
18001

Any retrieval client connecting to port 18001

filesystem  
Miniseed files

filesystem  
Miniseed files



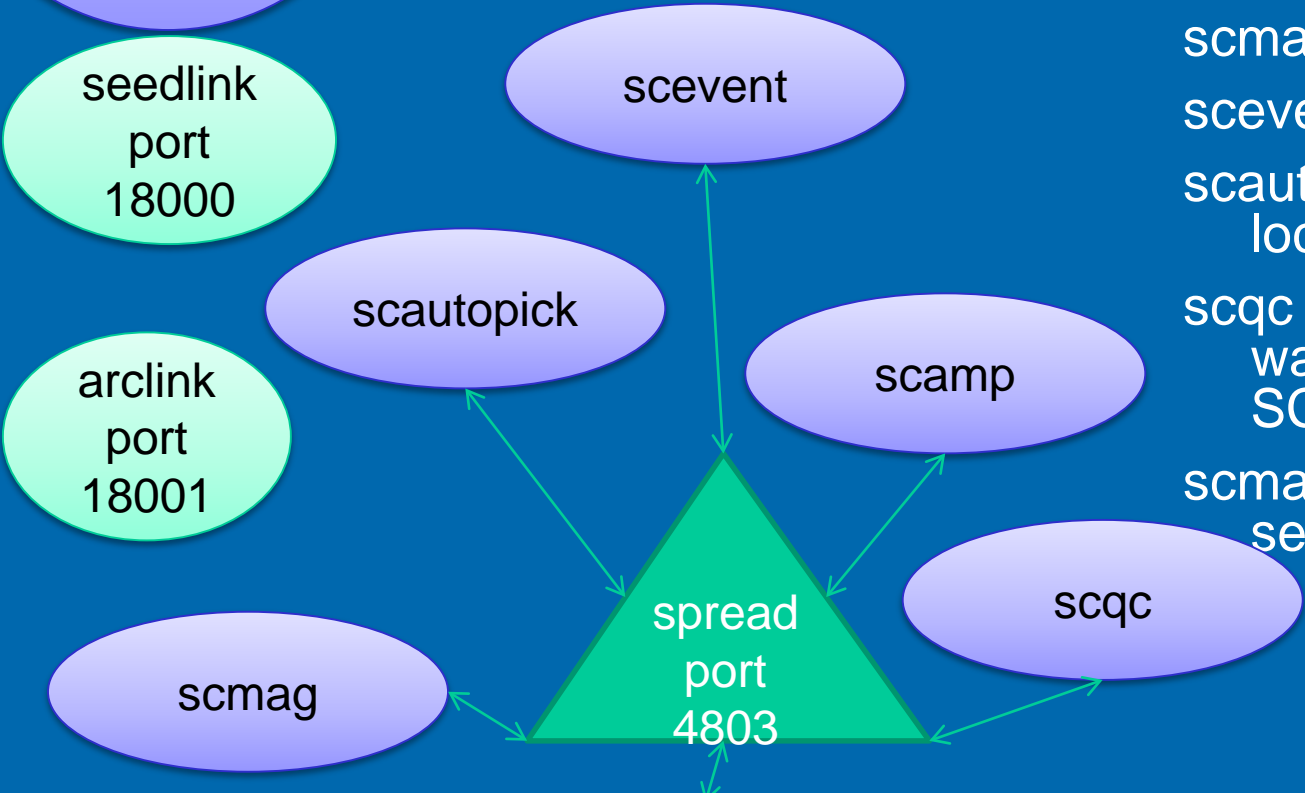


# Processing

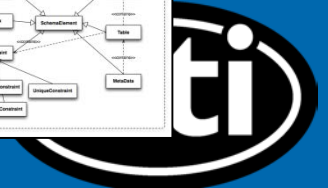
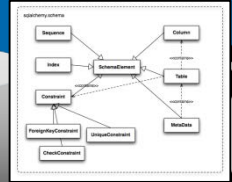
Automated pick, locate, magnitudes  
SEISCOMP  
PUBLIC LICENSE

# Processing

- scautopick - pick
- scamp - amplitude
- scmag - magnitudes
- scevent - events
- scautoloc - handles event locations
- scqc - quality control for waveforms coming in to SC
- scmaster - is the heart of seiscomp.



Database schema similar to QuakeML



## Processing

Automated  
pick, locate,  
magnitudes  
SEISCOMP  
PUBLIC  
LICENSE

# Processing

scautopick  
scautoloc  
scevent

Magnitudes:

Md

ML

MLv

mb

mB

Mw(mB)

Mwp

Mw(Mwp)

Ms(BB)



# Metadata, Data Streams

Configuration includes submitting dataless seed to insert your instrument response metadata into SeisComP3

IRIS,BUD DATA to get dataless seed

<http://ds.iris.edu/data/bud/>

GFZ is the IRIS of Europe, GFZ is government. geofon is part of gfz. gempa is a private company but on government campus of gfz

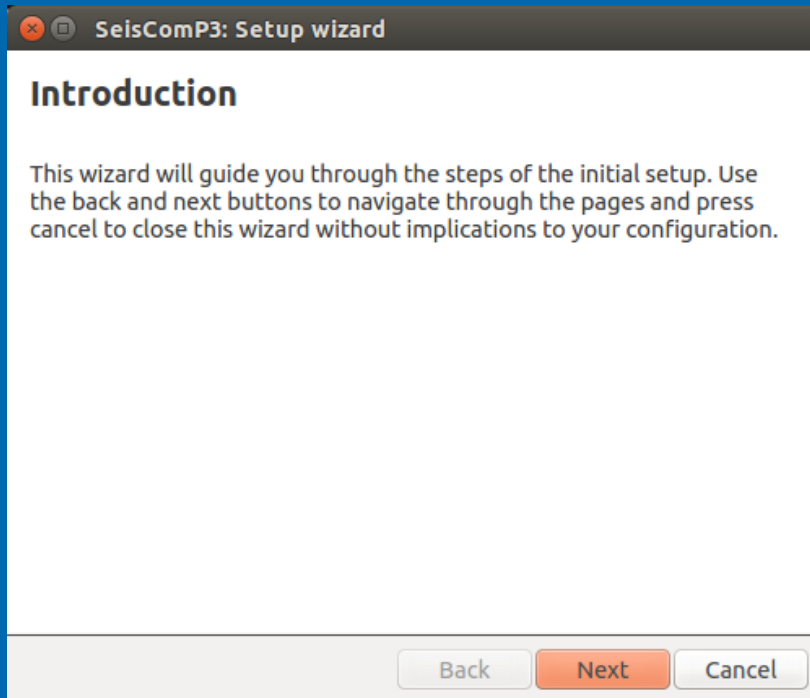
<http://eida.gfz-potsdam.de/>



Wizard

# Initial Configuration

Text File



```
mysysop@ubuntu-destroyer: ~/.seiscomp3
File Edit View Terminal Help
## Default is 360 degrees, i.e. no restriction based on this parameter.
#autoloc.maxSGAP = 360

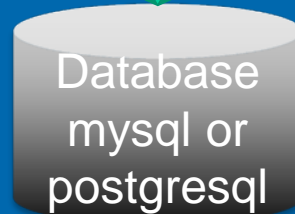
## Arrivals with exceptionally large amplitudes may be
## flagged as XXL, allowing (in future) faster, preliminary
## "heads-up" alerts.
#autoloc.thresholdXXL = 10000.

#autoloc.maxStationDistance = 180
#autoloc.maxDistanceXXL = 10
autoloc.minPhaseCount = 6
#autoloc.minPhaseCountXXL = 4

## If the station count for stations at < 105 degrees
## distance exceeds this number, no picks at > 105 degrees will be
## used in location. They will be loosely associated, though.
#autoloc.minStaCountIgnorePKP = 30

## Clean-up interval for removing old/unused objects, in seconds
## Don't change.
#autoloc.cleanupInterval = 3600

## max. age for objects kept in memory, in seconds
```





# GUI

Display; post-processing tools

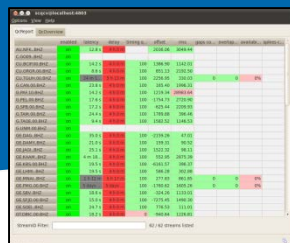
**BINARY LICENSE**

Source code available

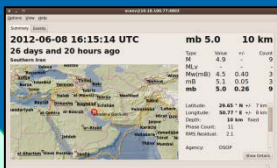
# Graphical User Interfaces



scmv



scqcv



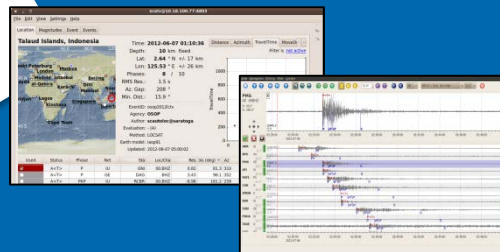
scesv

seedlink  
port  
18000

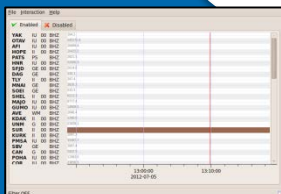
arclink  
port  
18001

spread  
port  
4803

scolv



scrttv



scmaster

Database  
mysql or  
postgresql



scmv - map viewer -- shows where your stations are  
scqcv - quality control viewer  
scrttv - real-time trace viewer; like Swarm, but shows picks too  
scesv - events viewer -- summary map, shows mag, location etc.  
scolv paired with picker - origin locator view. this is the meat of the post-processing

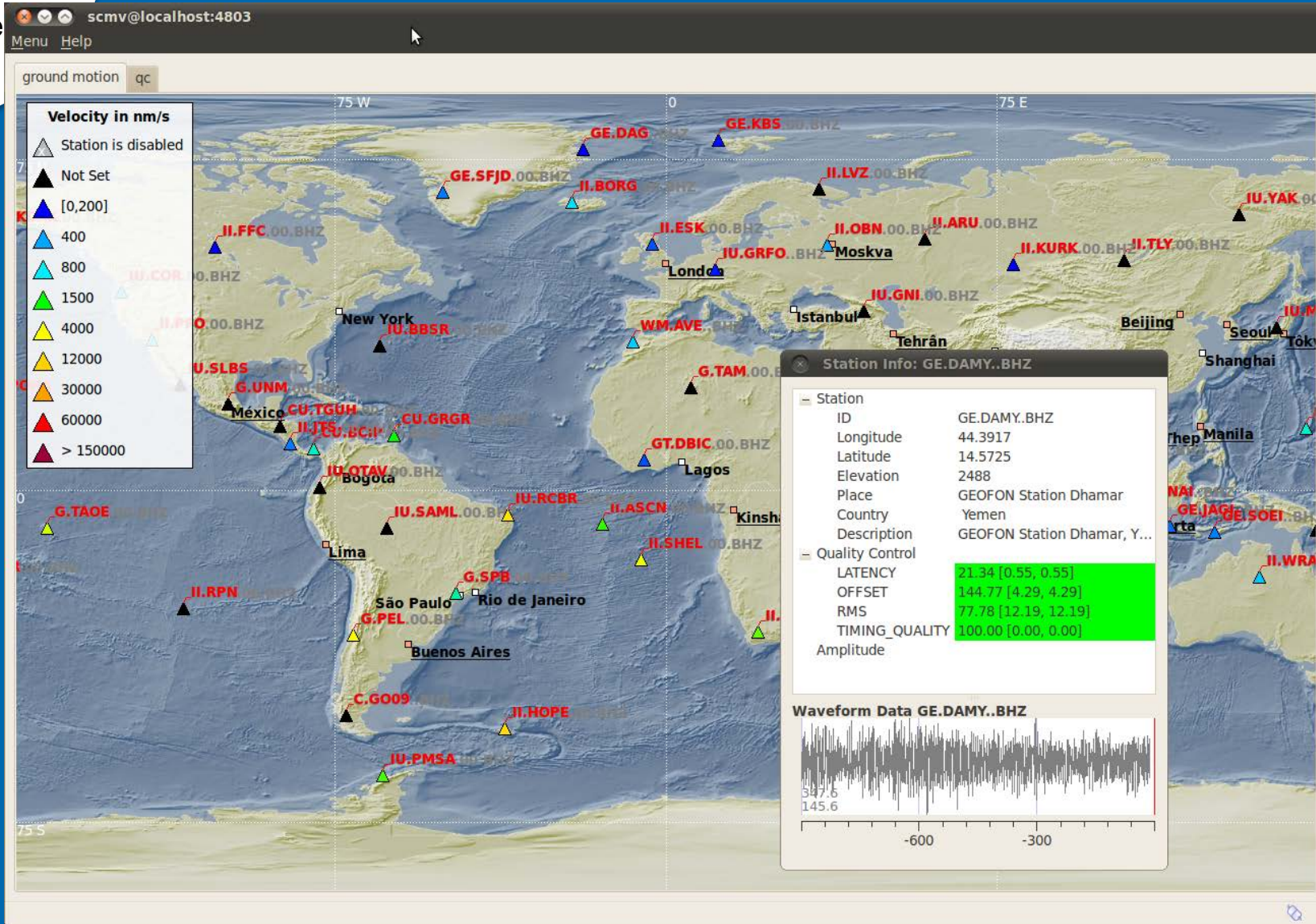
# GUI

Display; post-processing tools

BINARY LICENSE

Source code available

# GUI - scmv



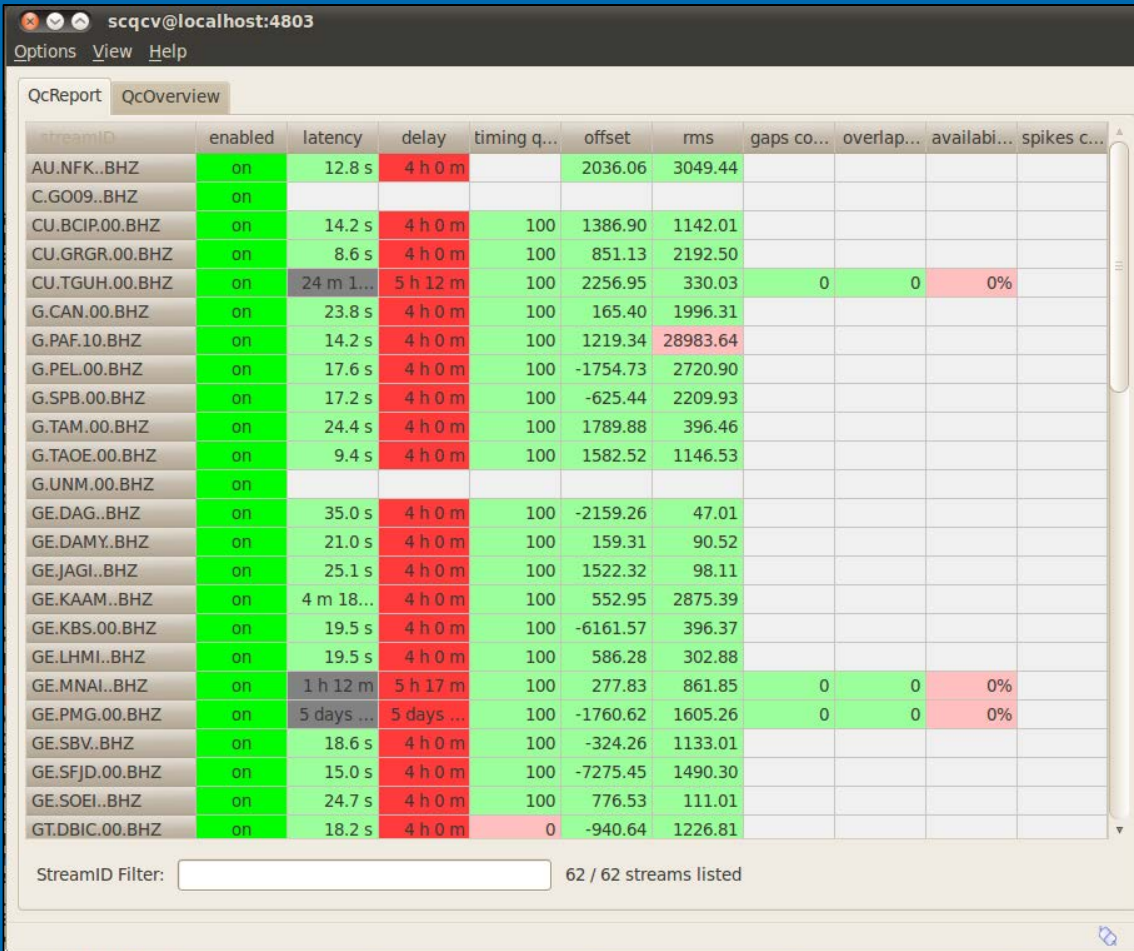
# GUI

Display; post-processing tools

BINARY LICENSE

Source code available

# GUI - scqcv



The screenshot shows the scqcv GUI interface. At the top, there's a title bar with the user 'scqcv@localhost:4803' and menu options 'Options View Help'. Below the title bar, there are two tabs: 'QcReport' and 'QcOverview'. The main area is a table with columns: 'streamID', 'enabled', 'latency', 'delay', 'timing q...', 'offset', 'rms', 'gaps co...', 'overlap...', 'availabi...', and 'spikes c...'. The table lists 32 streams with various data points. At the bottom, there is a 'StreamID Filter:' input field and a status '62 / 62 streams listed'.

streamID	enabled	latency	delay	timing q...	offset	rms	gaps co...	overlap...	availabi...	spikes c...
AU.NFK..BHZ	on	12.8 s	4 h 0 m		2036.06	3049.44				
C.GO09..BHZ	on									
CU.BCIP.00.BHZ	on	14.2 s	4 h 0 m	100	1386.90	1142.01				
CU.GRGR.00.BHZ	on	8.6 s	4 h 0 m	100	851.13	2192.50				
CU.TGUH.00.BHZ	on	24 m 1...	5 h 12 m	100	2256.95	330.03	0	0	0%	
G.CAN.00.BHZ	on	23.8 s	4 h 0 m	100	165.40	1996.31				
G.PAF.10.BHZ	on	14.2 s	4 h 0 m	100	1219.34	28983.64				
G.PEL.00.BHZ	on	17.6 s	4 h 0 m	100	-1754.73	2720.90				
G.SPB.00.BHZ	on	17.2 s	4 h 0 m	100	-625.44	2209.93				
G.TAM.00.BHZ	on	24.4 s	4 h 0 m	100	1789.88	396.46				
G.TAOE.00.BHZ	on	9.4 s	4 h 0 m	100	1582.52	1146.53				
G.UNM.00.BHZ	on									
GE.DAG..BHZ	on	35.0 s	4 h 0 m	100	-2159.26	47.01				
GE.DAMY..BHZ	on	21.0 s	4 h 0 m	100	159.31	90.52				
GE.JAGI..BHZ	on	25.1 s	4 h 0 m	100	1522.32	98.11				
GE.KAAM..BHZ	on	4 m 18...	4 h 0 m	100	552.95	2875.39				
GE.KBS.00.BHZ	on	19.5 s	4 h 0 m	100	-6161.57	396.37				
GE.LHMI..BHZ	on	19.5 s	4 h 0 m	100	586.28	302.88				
GE.MNAI..BHZ	on	1 h 12 m	5 h 17 m	100	277.83	861.85	0	0	0%	
GE.PMG.00.BHZ	on	5 days ...	5 days ...	100	-1760.62	1605.26	0	0	0%	
GE.SBV..BHZ	on	18.6 s	4 h 0 m	100	-324.26	1133.01				
GE.SFJD.00.BHZ	on	15.0 s	4 h 0 m	100	-7275.45	1490.30				
GE.SOEL..BHZ	on	24.7 s	4 h 0 m	100	776.53	111.01				
GT.DBIC.00.BHZ	on	18.2 s	4 h 0 m	0	-940.64	1226.81				









# GUI

Display; post-processing tools  
BINARY LICENSE  
Source code available

# GUI - scesv

scesv@10.18.100.77:4803

Options View Help

Summary Events

OT(GMT)	^	M	TP	Phases	Lat	Lon	Depth	Stat	Agency	Region	ID
2012-06-08 20:02:58		<b>6.4</b>	Mw(mB)	14	15.97 S	72.54 W	10 km	A	OSOP	Southern Peru	osop2012lga
2012-06-08 16:15:14		<b>5.0</b>	mb	11	29.65 N	50.77 E	10 km	A	OSOP	Southern Iran	osop2012lft
2012-06-08 05:22:34		<b>5.1</b>	mb	10	37.50 N	142.07 E	10 km	C	OSOP	Off East Coast of Honshu, Japan	osop2012lex
2012-06-08 02:50:31		<b>4.1</b>	MLv	6	15.48 N	95.71 W	10 km	A	OSOPlocal	Near Coast of Oaxaca, Mexico	osop2012les
2012-06-07 20:54:32		<b>4.7</b>	mb	10	40.94 N	28.13 E	10 km	A	OSOP	Turkey	osop2012leg

Clear      Last days: 1      Read      From: 2012/06/07 20:08:57      To: 2012/06/08 20:08:57      Read

Hide other/fake events       Show only own events

# GUI

Display; post-processing tools  
BINARY LICENSE  
Source code available

# GUI - scesv

scesv@localhost:4803

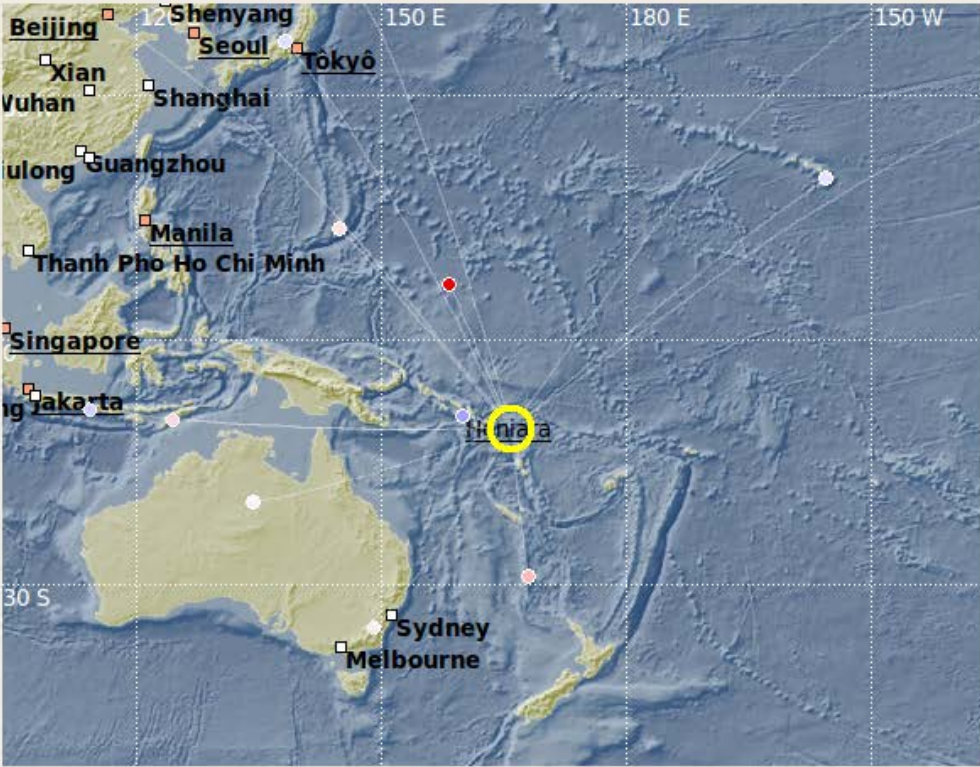
Options View Help

Summary Events

## 2012-07-12 04:11:19 UTC

14 hours and 3 minutes ago

### Santa Cruz Islands



Type	Value	+/-	Count
M	5.9	-	12
MLv	6.4	0.00	1
Mw(mB)	5.5	0.40	5
mB	5.9	0.17	5
<b>mb</b>	<b>5.5</b>	<b>0.30</b>	<b>12</b>

Latitude: **10.74 ° S** +/- 5 km  
Longitude: **165.84 ° E** +/- 7 km  
Depth: **147 km** +/- 10 km  
Phase Count: 14  
RMS Residual: 1.6

Agency: ISTI  
Status: automatic  
First Location: O.T. + 4h 13m  
This Location: O.T. + 4h 19m  
EventID: gfz2012nojy

Show Details

# GUI

Display; post-processing tools

BINARY

LICENSE

Source code available

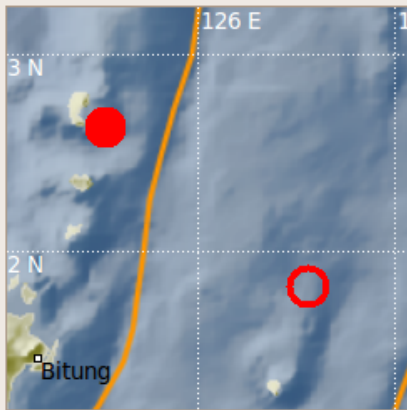
# GUI - scoIv

Created(GMT)	M	TP	Phases	Lat	Lon	Depth	Stat	Agency	Region
2012-06-08 20:10:35	3.2	MLv	6	17.28 N	99.32 W	28 km	A	OSOPlocal	Guerrero, Mexico
2012-06-08 20:02:58	6.4	Mw(mB)	14	15.97 S	72.54 W	10 km	A	OSOP	Southern Peru
2012-06-08 16:15:14	5.0	mb	12	29.63 N	50.79 E	10 km	A	OSOP	Southern Iran
2012-06-08 05:22:34	5.1	mb	10	37.50 N	142.07 E	10 km	C	OSOP	Off East Coast of Honshu, Ja

Created(GMT)	OT(GMT)	Phases	Lat.	Lon.	Depth	RMS
2012-06-07 05:00:02	01:10:36	8	2.64 N	125.53 E	10 km	1
2012-06-07 03:12:06	01:10:31	7	1.82 N	126.56 E	10 km	1

Time: 2012-06-07 01:10:36  
Region: Talaud Islands, Indonesia  
Type: - unset -  
Depth: 10 km  
Latitude: 2.64 ° N  
Longitude: 125.53 ° E  
Phase Count: 8/10  
RMS Residual: 1.5  
Agency: OSOP  
Origin Status: automatic

Fix manual origins  
Automatic origin selection



Created(GMT)	TP	M	Count	RM
2012-06-07 05:00:02	mB	5.54	1	
2012-06-07 05:00:02	Mw(mB)	5.02	1	
2012-06-07 05:00:02	<b>mb</b>	<b>5.31</b>	<b>6</b>	
2012-06-07 05:00:02	M	5.31	6	

Type: **mb**  
Value: 5.31 +/- 0.24  
Count: 6  
Method: trimmed mean(25)

Fix type

Release

# GUI

Display; post-processing tools

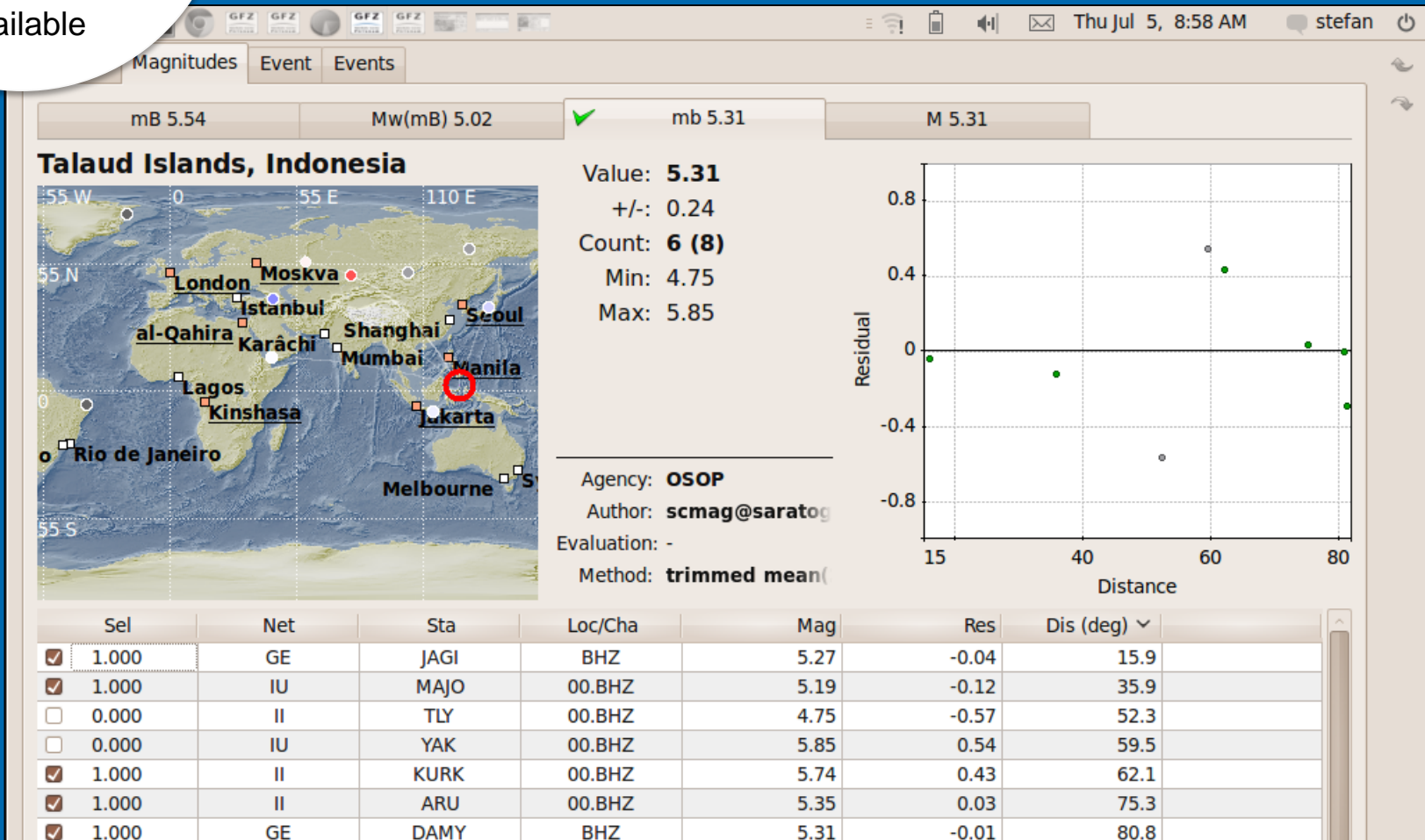
BINARY

LICENSE

Source code

available

# GUI - scoIv





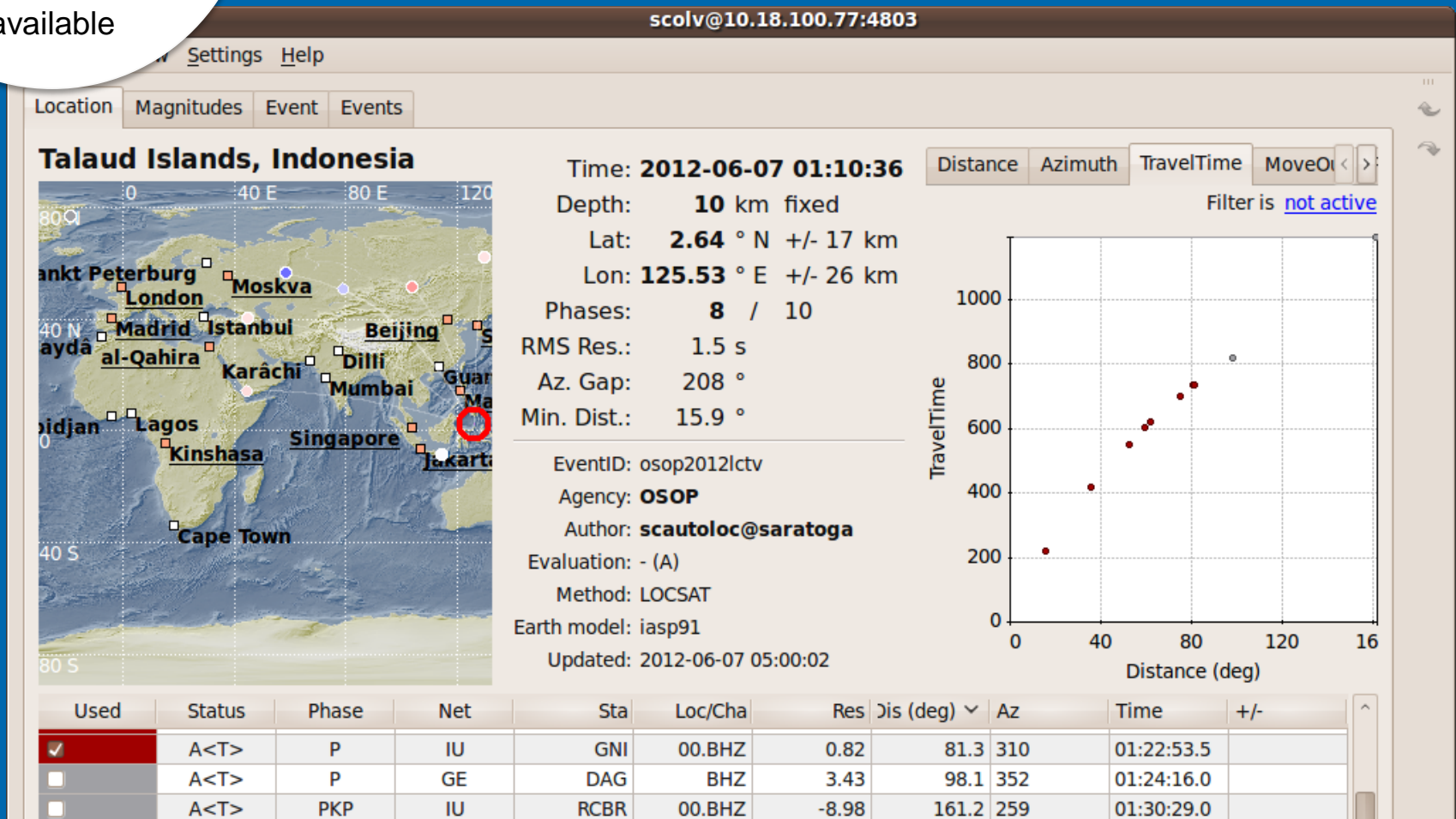
# GUI

Display; post-processing tools

BINARY LICENSE

Source code available

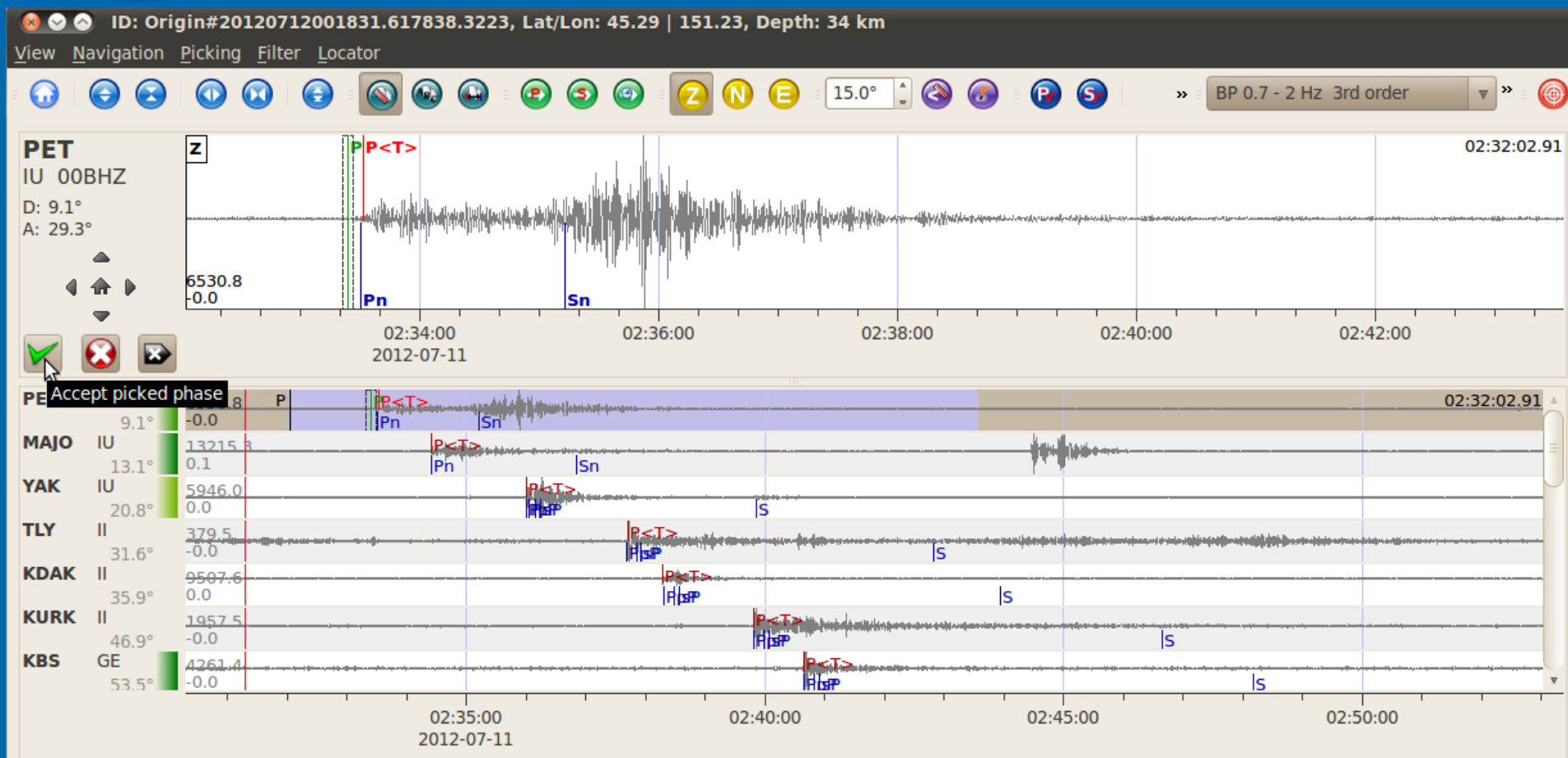
# GUI - scolv



# GUI

Display; post-processing  
tools  
BINARY  
LICENSE  
Source code  
available

# GUI – scolv's picker



# GUI

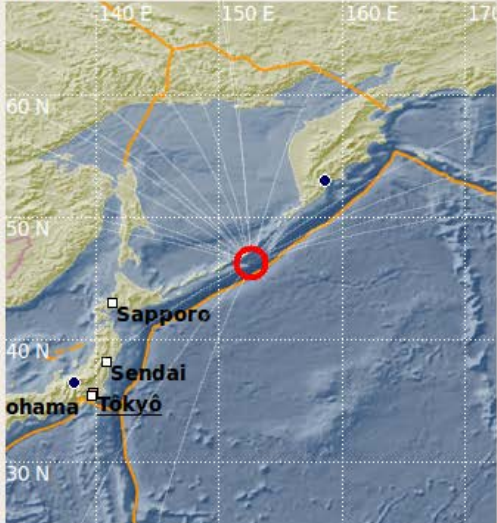
Display; post-processing  
tools  
BINARY  
LICENSE  
Source code  
available

# GUI - scoLv

scolv@localhost:4803  
File Edit View Settings Help

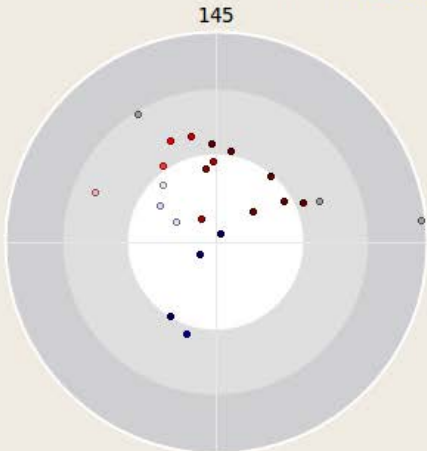
Location Magnitudes Event Events

### Kuril Islands



Time: **2012-07-11 02:31:15** e Azimuth TravelTime MoveOut Polar  
Depth: **0 km** fixed Filter is not active  
Lat: **46.31 ° N** +/- 6 km  
Lon: **152.55 ° E** +/- 6 km  
Phases: **20 / 23**  
RMS Res.: 15.4 s  
Az. Gap: 134 °  
Min. Dist.: 7.8 °

EventID: gfz2012nmzp  
Agency: **OSOP**  
Author: **stefan@ubuntu-destroye**  
Evaluation: confirmed (M)  
Method: LOCSAT  
Earth model: iasp91  
Updated: 2012-07-12 00:29:14



Used	Status	Phase	Net	Sta	Loc/Cha	Res is (deg) ▾	Az	Time	+/-
<input checked="" type="checkbox"/>	M	P	IU	PET	00.BHZ	-60.12	7.80 28	02:32:09.3	
<input checked="" type="checkbox"/>	A<T>	P	IU	MAJO	00.BHZ	-16.36	14.5 232	02:34:24.9	
<input checked="" type="checkbox"/>	A<T>	P	IU	YAK	00.BHZ	6.09	20.5 328	02:36:00.0	
<input checked="" type="checkbox"/>	A<T>	P	II	TLY	00.BHZ	-0.84	32.0 297	02:37:41.9	
<input checked="" type="checkbox"/>	A<T>	P	II	KDAK	00.BHZ	11.13	34.7 50	02:38:16.9	
<input checked="" type="checkbox"/>	A<T>	P	II	KURK	00.BHZ	-1.01	47.3 303	02:39:48.5	
<input checked="" type="checkbox"/>	A<T>	P	GE	KBS	00.BHZ	7.10	52.9 351	02:40:38.7	
<input checked="" type="checkbox"/>	A<T>	P	II	ARU	00.BHZ	0.62	55.1 317	02:40:48.5	
<input checked="" type="checkbox"/>	A<T>	P	IU	COR	00.BHZ	11.62	56.3 58	02:41:08.6	
<input checked="" type="checkbox"/>	A<T>	P	GE	DAG	BHZ	5.99	57.1 357	02:41:07.9	

LOCSAT Profile: iasp91  Fix depth 0 km  Distance cutoff 1000 km

Relocate Picker Import picks Compute magnitudes Commit ▾

# scconfig

SeisComP3 - system configuration [ /home/sysop/seiscomp3/etc ]

En 21:58

SeisComP3 - system configuration [ /home/sysop/seiscomp3/etc ]



## System

The current status of the system

Information

Update Start Stop Restart Check Enable module(s) Disable module(s) Update configuration

All commands (such as 'start', 'stop') will affect all modules which rows are currently selected. If no row is selected, all modules are affected. You can clear the row selection with ESC.

System

Auto	Module	Status
On	spread	running
On	scmaster	running
On	seedlink	running
On	scamp	running
On	scautoloc	running
On	scautopick	not running
On	scevent	running
On	slarchive	not running
Off	fdsnws	running
Off	diskmon	not running
Off	arlink	not running
Off	scvoice	not running
Off	scvsmaglog	not running
Off	ew2sc3	not running
Off	arlinkproxy	not running
Off	scvsmag	not running
Off	scwfdparam	not running

Idle

```
$ seiscomp start
spread is already running
scmaster is already running
scamp is already running
starting scautoloc
starting scautopick
scevent is already running
seedlink is already running
starting slarchive
```

Inventory

Modules

Bindings

Docs









# scconfig

SeisComP3 - system configuration [ /seiscomp3/etc ]

File Edit

## Inventory

Shows available inventory files and provides options to import inventory data also from other formats via import\_inv.

    Import Test sync Sync Sync keys

Information



System



Inventory


























Modules



Bindings



Docs

Name	Size	Type	Date Modified
 WI_00-17_metadata_-HZ.670347.dataless.xml	498 KB	xml File	5 Jul 2017 11:36:00
 VE_00-17_metadata_-HZ.119915.dataless.xml	326 KB	xml File	5 Jul 2017 11:37:52
 US_00-16_metadata_-HZ.483770.dataless.xml	1.9 MB	xml File	27 Jun 2017 16:30:30
 UO_00-16_metadata_-HZ.524403.dataless.xml	89 KB	xml File	27 Jun 2017 16:30:41
 TC_00-17_metadata_-HZ.305035.dataless.xml	692 KB	xml File	5 Jul 2017 11:37:29
 TA_D-H_00-16_metadata_BHZ.393059.dataless.xml	1.5 MB	xml File	28 Jun 2017 18:33:54
 TA_4-C_00-16_metadata_BHZ.612642.dataless.xml	769 KB	xml File	28 Jun 2017 18:33:42
 README	47 byte(s)	File	24 May 2017 09:17:16
 PS_00-16_metadata_BHZ.422260.dataless.xml	70 KB	xml File	27 Jun 2017 16:30:18
 ON_00-17_metadata_-HZ.980532.dataless.xml	173 KB	xml File	5 Jul 2017 11:37:08
 NE_00-16_metadata_HHZ.201098.dataless.xml	136 KB	xml File	27 Jun 2017 16:27:33
 MS_00-16_metadata_-HZ.535801.dataless.xml	122 KB	xml File	27 Jun 2017 16:27:46
 JP_00-16_metadata_-HZ.772238.dataless.xml	128 KB	xml File	27 Jun 2017 16:27:59
 IU_00-16_metadata_-HZ.524105.dataless.xml	2.8 MB	xml File	27 Jun 2017 16:26:58
 IM_00-16_metadata_-HZ.518867.dataless.xml	2.2 MB	xml File	27 Jun 2017 16:30:59
 II_00-16_metadata_BHZ.232475.dataless.xml	1.8 MB	xml File	27 Jun 2017 16:27:10
 GE_00-16_metadata_BHZ.165588.dataless.xml	857 KB	xml File	27 Jun 2017 16:38:52
 G_00-16_metadata_-HZ.289232.dataless.xml	442 KB	xml File	27 Jun 2017 16:38:42
 CM_00-16_metadata_BHZ.291257.dataless.xml	170 KB	xml File	27 Jun 2017 16:29:53
 C_00-16_metadata_-HZ.740200.dataless.xml	219 KB	xml File	27 Jun 2017 16:27:21
 C1_00-16_metadata_-HZ.812344.dataless.xml	357 KB	xml File	27 Jun 2017 16:30:04
 BC_00-17_metadata_-HZ.827539.dataless.xml	266 KB	xml File	5 Jul 2017 11:36:35
 AU_00-16_metadata_-HZ.487951.dataless.xml	1.7 MB	xml File	27 Jun 2017 16:26:44

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SeisComP3 - system configuration [ /home/sysop/seiscomp3/etc ]

En 21:53

SeisComP3 - system configuration [ /home/sysop/seiscomp3/etc ]



## Configuration / scautopick

Makes picks on waveforms.



Information



System



Inventory



Modules



Bindings



Docs

- seedlink
- slarchive
- GUI
  - scesv
  - scmv
  - scolv
  - scqcv
  - scrttv
- Inventory
  - scinv
- Messaging
  - scmaster
- Processing
  - ew2sc3
  - scamp
  - scautoloc
  - scautopick
  - scenvelope
  - scevent
  - scmag
  - scqc
  - screloc
  - scvsmag
  - scvsmaglog
  - scwfparam
- System
  - diskmon
  - global
  - kernel
- Utilities
  - fdsnws
  - ql2sc
  - scalert

Defines the default filter used for picking. Station ...

leadTime

60

The leadTime defines the time in seconds to start ...

Time correction applied for each pick made. Station ...

initTime

60

The initTime defines a timespan in seconds for that the ...

Defines the record trigger size in seconds.

gapInterpolation

Interpolate gaps linearly? This is valid for gaps ...

amplitudes

MLv,mb,mB

Defines the amplitude types to be computed by the picker ...

picker

"AIC"

Configures the picker to use. By default only a simple ...

spicker

""

Configures the secondary picker to use.

useAllStreams

If enabled the all streams are used for picking that are ...

killPendingSPickers

If enabled the all secondary pickers that were triggered ...

sendDetections

If enabled and a :confval: picker is configured then ...

### thresholds

triggerOn

3

For which value on the filtered waveforms is a pick ...

triggerOff

1.5

The value the filtered waveforms must reach to enable ...

maxGapLength

4.5

The maximum gap length in seconds to handle. Gaps larger ...

amplMaxTimeWindow

deadTime

minAmplOffset

# scconfig

SeisComP3 - user configuration [ /home/sysop/.seiscomp3 ]

↑ ↓ En 🔊 21:55 ⚙️

SeisComP3 - user configuration [ /home/sysop/.seiscomp3 ]



## Configuration / scrttv

Real-time trace view.

- Information
- System
- Inventory
- Modules
- Bindings
- Docs

- arlink
- arlinkproxy
- seedlink
- slarchive
- GUI
  - scsv
  - scmv
  - scolv
  - scqc
  - scrttv
- Inventory
  - scinv
- Messaging
  - scmaster
- Processing
  - ew2sc3
  - scamp
  - scautoloc
  - scautopick
  - scenvelope
  - scevent
  - scmag
  - scqc
  - screloc
  - scvsmag
  - scvsmaglog
  - scwffparam
- System
  - diskmon
  - global
  - kernel
- Utilities
  - fdsnws

**maxDelay [s]**    
If greater than 0 then all traces for which the data ...

**resortAutomatically**   
If enabled then all traces are sorted by distance when a ...

**showPicks**   
If enabled, picks are shown.

**filter**    
Defines the filter to be used when filtering is ...

**filters**    
Defines a list of filters that is cycles through when ...

**autoApplyFilter**   
Activates the first filter of the configured filter list ...

**bufferSize [s]**    
Defines the buffer size in seconds of the ring bu of ...

**autoResetDelay [s]**    
Time span in seconds to switch back to the last view ...

### streams

**codes**    
Defines a list of channels codes (ex : PF.BON.00.HHZ) to ...

### sort

Configures an initial location (latitude, longitude) to be used for sorting the traces.

# scconfig

SeisComP3 - system configuration [ /home/sysop/seiscomp3/etc ]

↑ En 🔊 21:51 ⚙

SeisComP3 - system configuration [ /home/sysop/seiscomp3/etc ]



## Bindings

Configuration of module-station bindings and binding profiles.



Information



System



Inventory



Modules



Bindings



Docs

Name	Profile
Networks	
▼ AF	
▼ GRHM	
global	global_BHZ__
seedlink	slink_IRIS
scautopick	pick_local
▼ POGA	
global	global_HHZ__
seedlink	slink_IRIS
scautopick	pick_local



## scautopick/pick\_local

### global

The global section allows to override parameters of the global binding. The values do not reflect the currently assigned global binding values but the values given in this binding.

detecStream

Defines the channel code of the preferred stream used by ...

detecLocid

Defines the location code of the preferred stream used ...

### MLh

maxavg

Define combiner operation for both horizontal (min, ...

ClippingThreshold

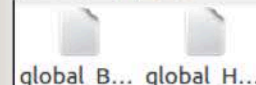
MLh clipping level, in raw counts, eg. 80% of 2^23 = ...

params

Defines attenuation parameters for MLh. Format:

Name

- arlink
- arlink-access
- global
  - global\_BHZ\_\_
  - global\_HHZ\_\_
- scautopick
  - pick\_local
- scwfparam
- seedlink
- slarchive
- slmon





# scconfig



Firefox Web Browser

↑ ↓ En 🔊 22:04


SeisComP3 - system config

## Docs & Ch...


Shows available applic...




Information




System




Inventory




Modules




Bindings



Docs



GFZ  
GEOLOGISCHES INSTITUT  
POTSDAM



GFZ  
GEOLOGISCHES INSTITUT  
POTSDAM

SeisComP3 documentation — SeisComP3 Jakarta documentation - Mozilla Firefox

Ubuntu Start Page x SeisComP3 document... x Connecting... x SeisComP3 document... x

file:///home/sysop/seiscomp3/share/doc/seiscomp3/ SeisComP3 document... Search



# SeisComP3

Home » next | modules | index

## SeisComP3 documentation

This is the documentation for the SeisComP3 release Jakarta version 2016.333.

For examples and tutorials please check the [SeisComP3 wiki](#). Please consider [contributing](#) to this documentation.

Contents:

- [Introduction and Scope](#)
- [Installation](#)
- [Getting started](#)
- [System management](#)
- [Configuration](#)
- [Acquisition](#)
  - [arlink](#)
  - [arlink-access](#)
  - [arlinkproxy](#)
  - [seedlink](#)
  - [slarchive](#)
- [Inventory](#)

Next topic

[Introduction and Scope](#)

This Page

[Show Source](#)



# scconfig

## Configuration / global

Global parameters for all trunk applications.

- Information
- System
- Inventory
- Modules
- Bindings
- Docs

- scinv
- ▼ Messaging
  - scmaster
- ▼ Processing
  - ew2sc3
  - scamp
  - scautoloc
  - scautopick
  - scenvelope
  - scevent
  - scmag
  - scqc
  - screloc
  - scvsmag
  - scvsmaglog
  - scwtparam
- ▼ System
  - diskmon
  - global**
  - kernel
- ▼ Utilities
  - fdsnws
  - ql2sc
  - scalert
  - scdb
  - scdbstrip
  - scevtlog
  - scimex
  - scimport
  - scm
  - scvoice
  - slmon
  - sync\_arc

### global

**datacenterID**    
Sets the datacenter ID which is primarily used by ...

**agencyID**    
Defines the agency ID used to set creationInfo.agencyID ...

**organization**    
Organization name used mainly by ArcLink and SeedLink.

**author**    
Defines the author name used to set creationInfo.author ...

**plugins**    
Defines a list of modules loaded at startup.

**cityXML**    
The path to the city.xml file. This overrides the ...

### logging

**level**    
Sets the logging level between 1 and 4 where 1=ERROR, ...

**file**   
Enables logging into a log file.

**syslog**   
Enables logging to syslog if supported by the host system.

**components**    
Limit the logging to the specified list of components, ...

**component**   
For each log entry print the component right after the ...

**context**   
For each log entry print the source file name and line ...

**utc**   
Use UTC instead of localtime in logging timestamps.

# Pipelines

## DUAL PIPELINE SYSTEM – Local and Global

create aliases

autopick1 2

new config

new pick/amplitude group

autoloc1 2

