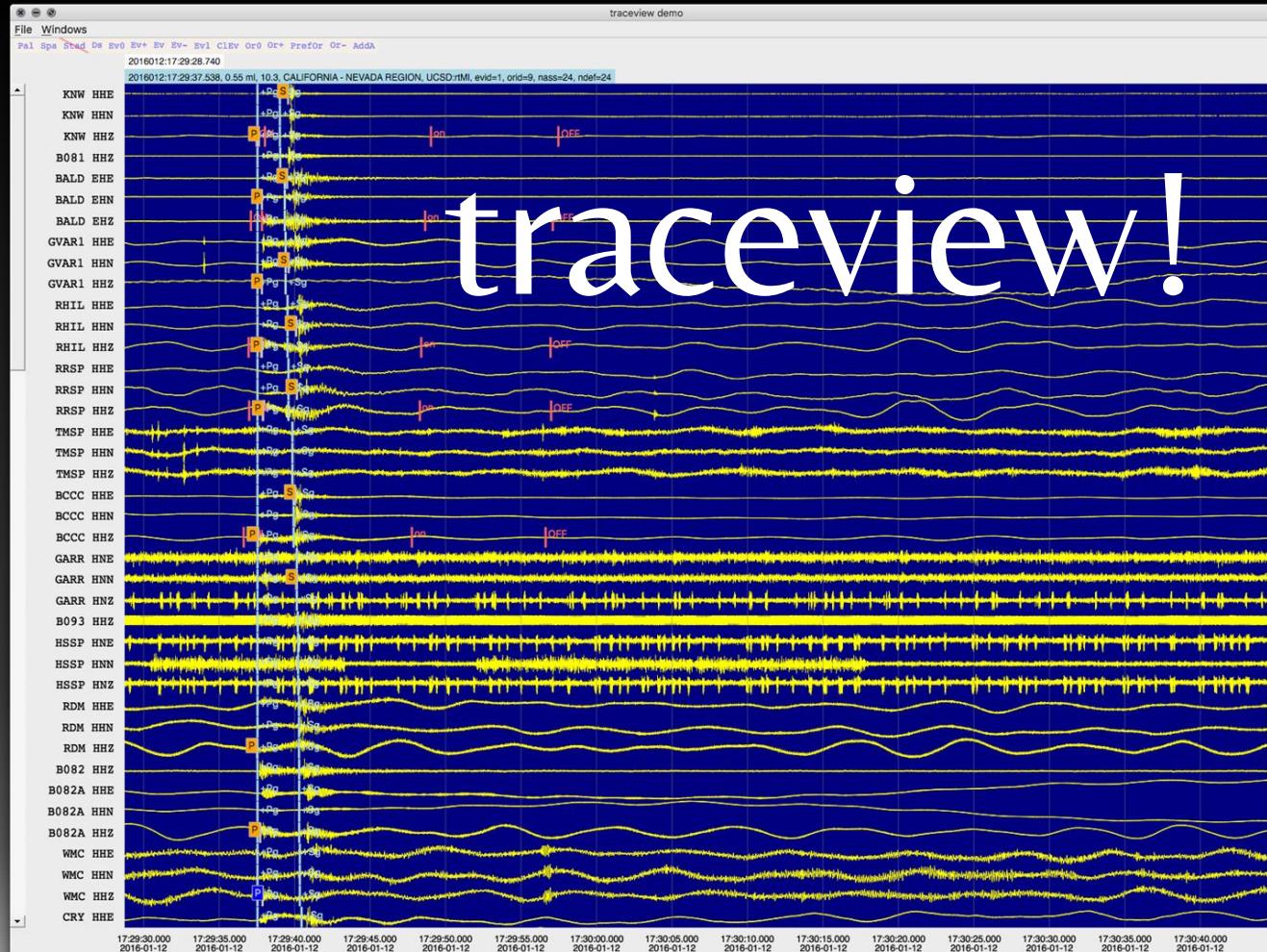


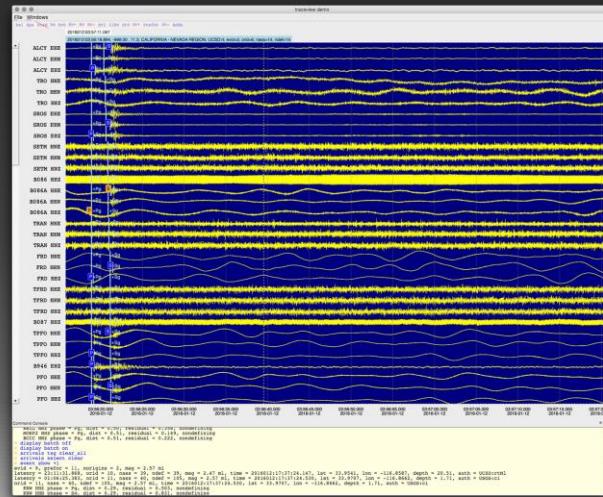
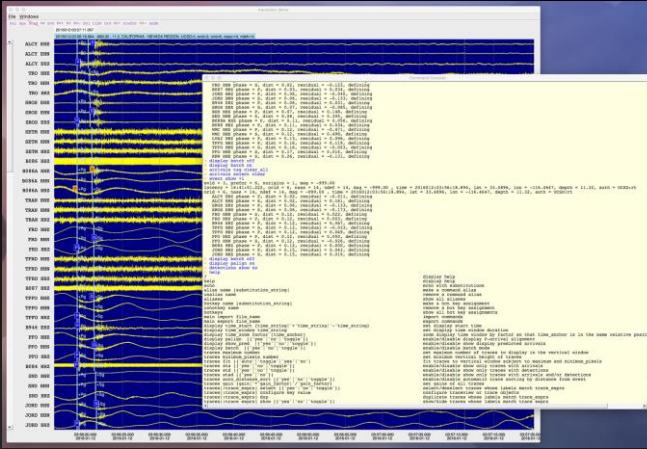
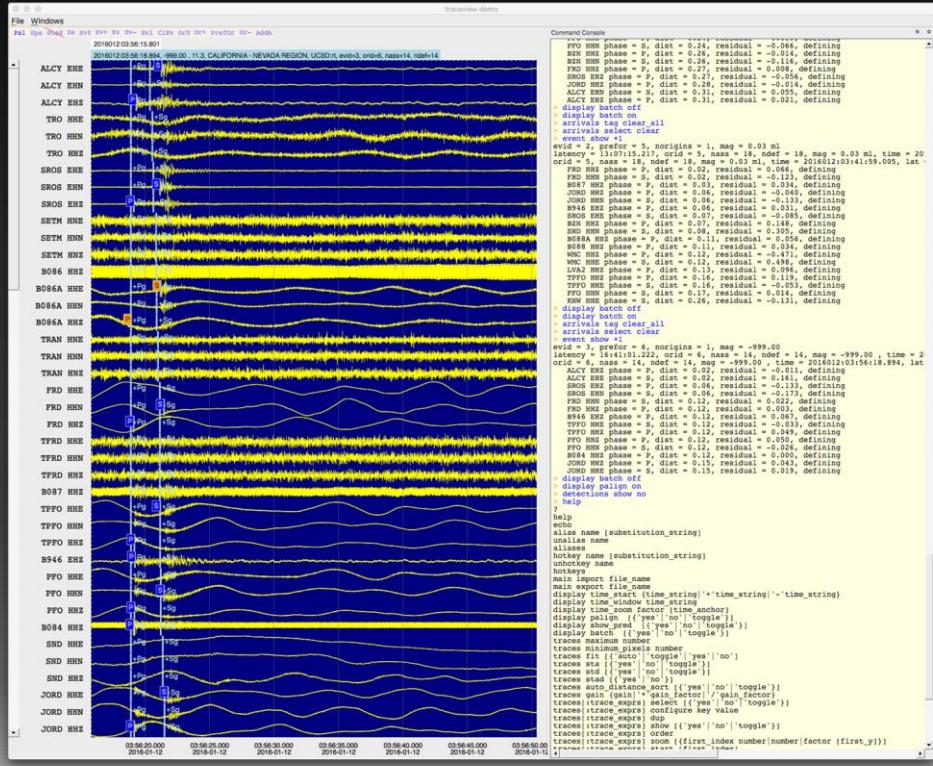
# traceview

## a user's introduction

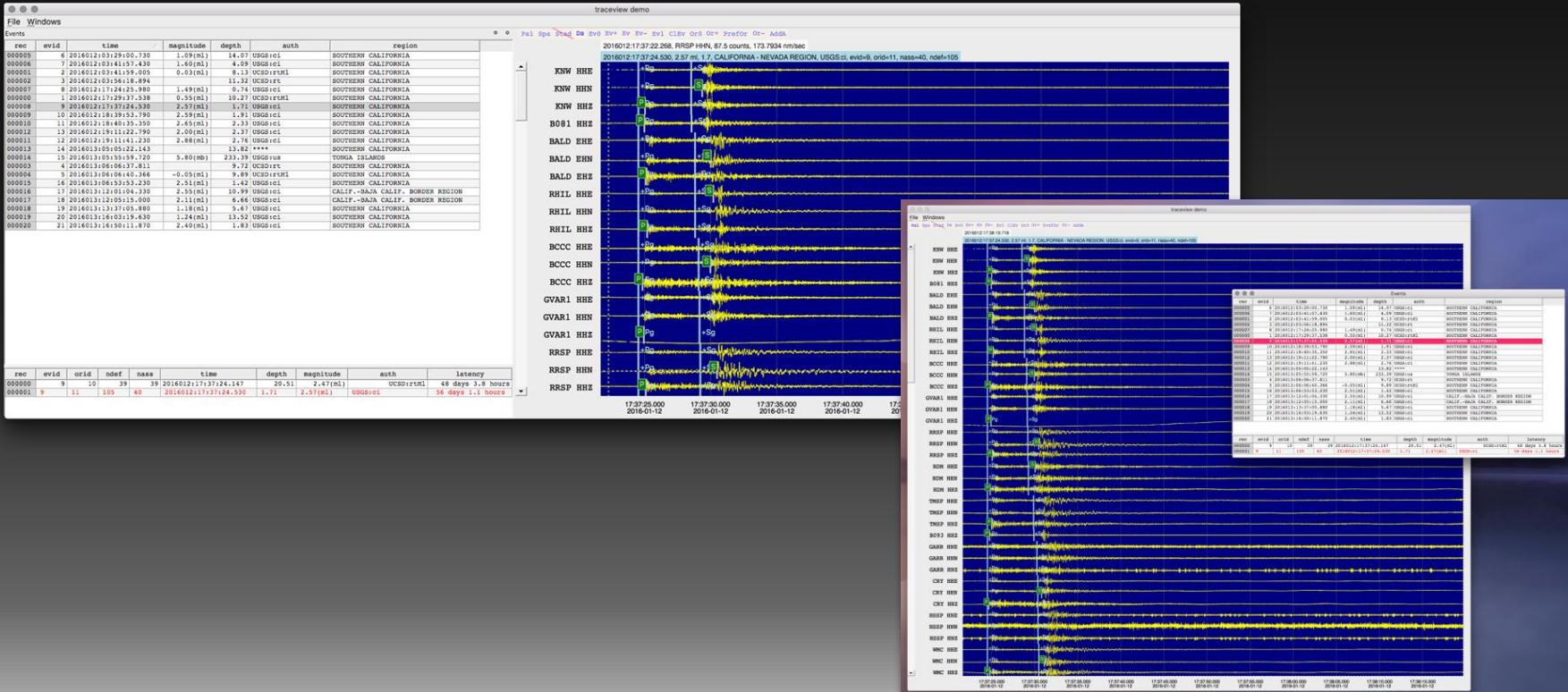




# Command console



## Events + origins tables



# Command console

```
help *
?
help
echo
alias name [substitution_string]
unalias name
aliases
hotkey name [substitution_string]
unhotkey name
hotkeys
main import file_name
main export file_name
display time_start {time_string|'+time_string|'-time_string}
display time_end {time_string|'+time_string|'-time_string}
display time_anchor {time_string|'+time_string|'-time_string}
display time_zoom_factor {yes|no|toggle}
display palign {{yes|no|toggle}}
display show_pred {{yes|no|toggle}}
display batch {{yes|no|toggle}}
traces maximum_number
traces minimum_pixels number
traces fit {{auto|toggle}|'yes'|'no'}
traces sta {{yes|no|toggle}}
traces std {{yes|no|toggle}}
traces std {yes|no}
traces auto_distance_sort {{yes|no|toggle}}
traces gain {gain|"+gain_factor|'/gain_factor'}
traces[trace_expr] select {{yes|no|toggle}}
traces[trace_expr] configure key value
traces[trace_expr] dup
traces[trace_expr] show {{yes|no|toggle}}
traces[trace_expr] order
traces[trace_expr] zoom {[first_index number|number|factor [first_y]]}
traces[trace_expr] start [first_index]
traces[trace_expr] stretch factor
traces[trace_expr] color [color_string]
traces[trace_expr] color_background [color_string]
traces[trace_expr] linewidth [linewidth]
traces[trace_expr] filter ['TPAD|time_pad|filter_string|'# filter_label]
traces[trace_expr] units {{source|counts|sm}}
traces[trace_expr] scale {{fixed|abottom|atop|auto}}
arrivals edit mode {{yes|no|toggle}}
arrivals select {'clear'|arrival{{yes|no|toggle}}}
arrivals add_mode {{yes|no|toggle}}
arrivals copy {'clear'}
arrivals paste {done|paste_tags} time_string
arrivals phase_string_
arrivals tag {'clear'|'clear_all'|'associated'|tag_string}
arrivals output {'tagged'|'selected'}
arrivals edit queue clear
arrivals edit queue undo ['all|number]
arrivals edit queue redo ['all|number]
arrivals edit queue setstate name
arrivals edit queue gotostate name
arrivals[trace_expr] show {{yes|no|toggle}}
detections[trace_expr] show {{yes|no|toggle}}
event show [index|'+incr|'-incr|'evid|'noev|
origin show [index|'+incr|'-incr|'o|rid|'pref|
```

display help  
display help  
echo with substitutions  
make a command alias  
remove a command alias  
show all aliases  
make a hot key assignment  
remove a hot key assignment  
show all hot key assignments  
import commands  
export commands  
set display start time  
set display end time duration  
zoom display time window by factor so that time\_anchor is in the same relative position  
enable/disable display F-arrival alignment  
enable/disable display predicted arrivals  
enable/disable batch mode  
set maximum number of traces to display in the vertical window  
set minimum vertical height of traces  
fit traces to vertical window subject to maximum and minimum\_pixels  
enable/disable show only traces with detections  
enable/disable showing only traces with arrivals and/or detections  
enable/disable automatic trace sorting by distance from event  
set gains of all traces  
select/deselect traces whose labels match trace\_exprs  
configure traceview or trace objects  
duplicate traces whose labels match trace\_exprs  
show/hide traces whose labels match trace\_exprs  
order and show traces whose labels match trace\_exprs  
zoom traces to first and last labels that match trace\_exprs or to the specified indexes  
pan traces to begin at first label that matches trace\_exprs or to the specified index  
stretch vertical heights of traces whose labels match trace\_exprs  
set background color of traces whose labels match trace\_exprs  
set background color of traces whose labels match trace\_exprs  
set linewidth of traces whose labels match trace\_exprs  
set filter of traces whose labels match trace\_exprs  
set units of traces whose labels match trace\_exprs  
set vertical scale factor of traces whose labels match trace\_exprs  
enable/disable arrivals edit mode  
clear selected arrivals or enable/disable selected arrival  
enable/disable interactive add arrivals mode  
copy selected arrivals into clipboard or clear clipboard  
paste arrivals in clipboard  
set selected arrivals phase to phase string  
add to tag\_string to selected arrivals or clear selected arrivals tags or clear all arrivals tags  
output a list of arids and association status for tagged or selected arrivals  
clear edit queue  
undo edits  
redo edits  
set edit queue state  
go to edit queue state  
show/hide arrivals that match arrival\_exprs  
show/hide detections that match detection\_exprs  
show event  
show origin

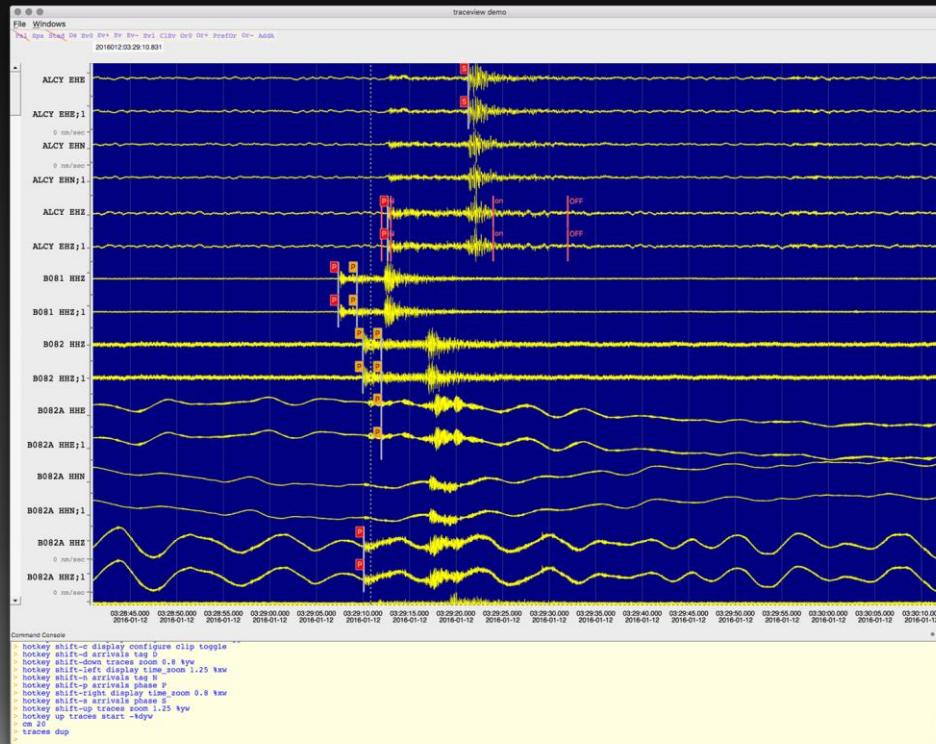
# Default aliases

```
Command Console
> aliases
cm      traces maximum
cw      traces zoom
f       fit
fit     traces fit
ph      traces configure default_phase
stadon  traces stad on
z10
ta      arrivals tag associated
tc      arrivals tag clear_all
to      arrivals output tagged
ts      display time_start
tw      display time_window
z       traces zoom
z10    z 10
zs      traces:selected zoom
> |
```

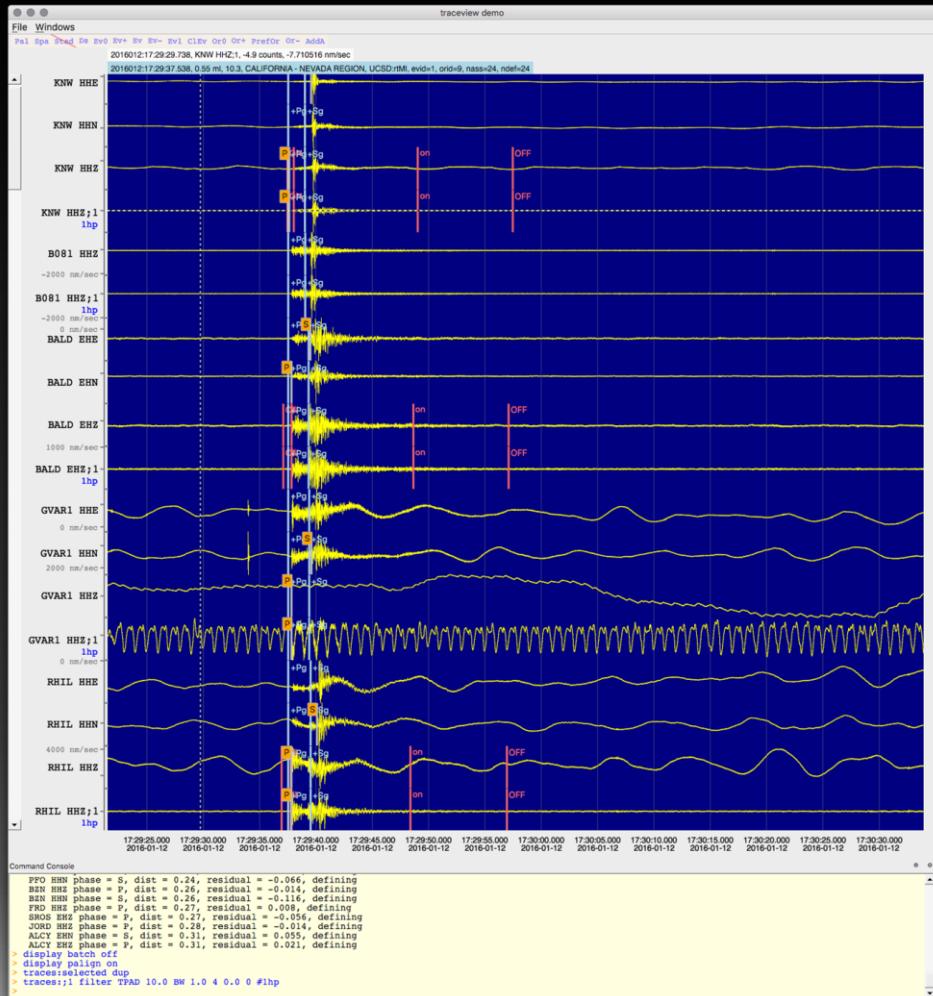
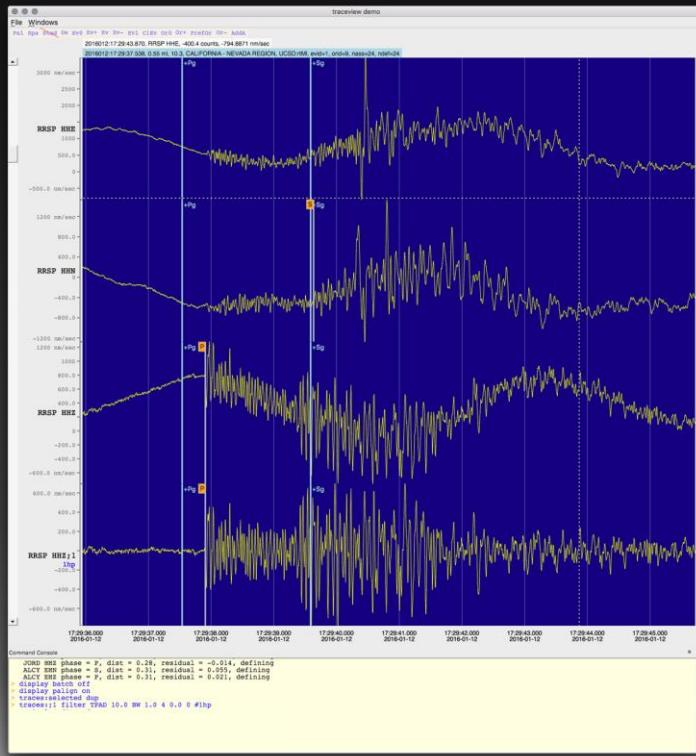
# Default hotkeys

```
Command Console
> hotkeys
0      traces filter none
1      traces filter TPAD 100.0 BW 0.8 4 3.0 4 #tele
2      traces filter TPAD 10.0 BW 1.0 4 0.0 0 #1hp
3      traces filter TPAD 10.0 BW 5.0 4 0.0 0 #5hp
a      arrivals add_mode toggle
c      arrivals select clear
control-c    arrivals copy
control-down  traces gain *0.8
control-up   traces gain *1.25
control-v    arrivals paste %xw
control-x    echo time is %xw
delete     arrivals phase del
down       traces start +%dyw
e          arrivals edit_mode toggle
f          traces fit
left        display time_start +%dxw
n          traces filter none
p          traces configure default_phase P
right       display time_start -%dxw
s          traces configure default_phase S
shift-a    display configure antialias toggle
shift-c    display configure clip toggle
shift-d    arrivals tag D
shift-down  traces zoom 0.8 %yw
shift-left  display time_zoom 1.25 %xw
shift-n    arrivals tag N
shift-p    arrivals phase P
shift-right display time_zoom 0.8 %xw
shift-s    arrivals phase S
shift-up   traces zoom 1.25 %yw
up         traces start -%dyw
>|
```

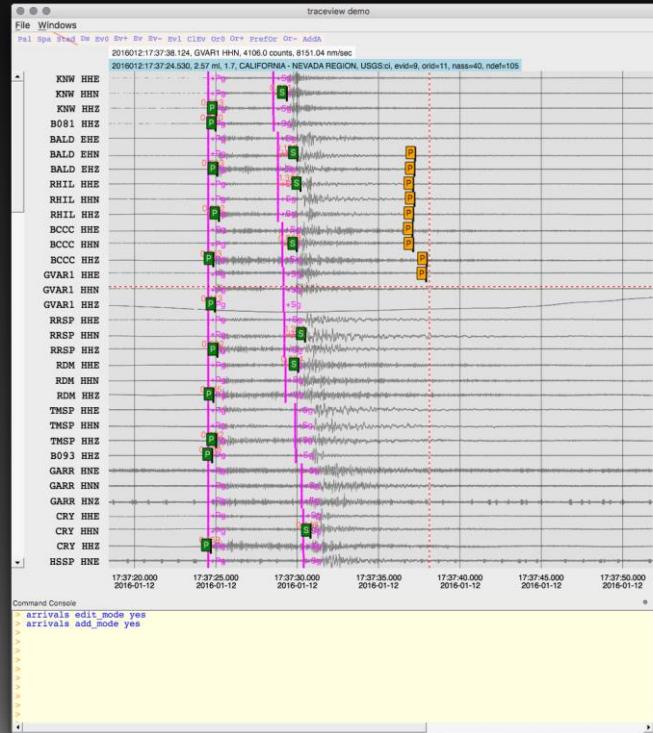
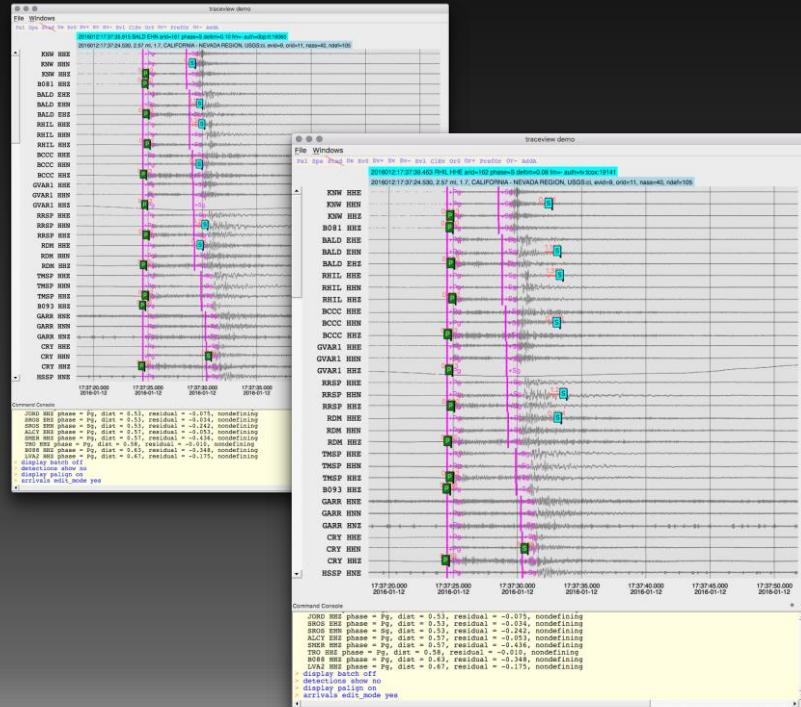
# Trace duplication



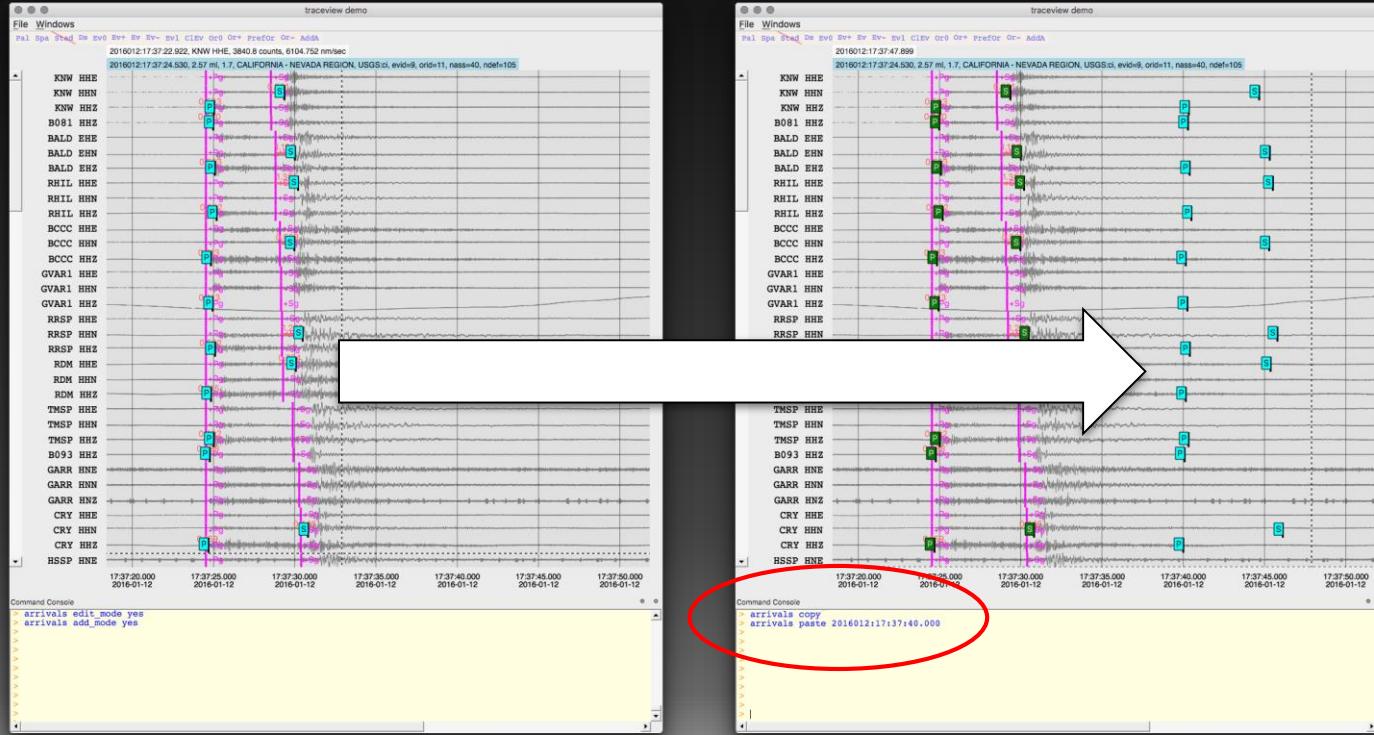
# Filtering selected traces



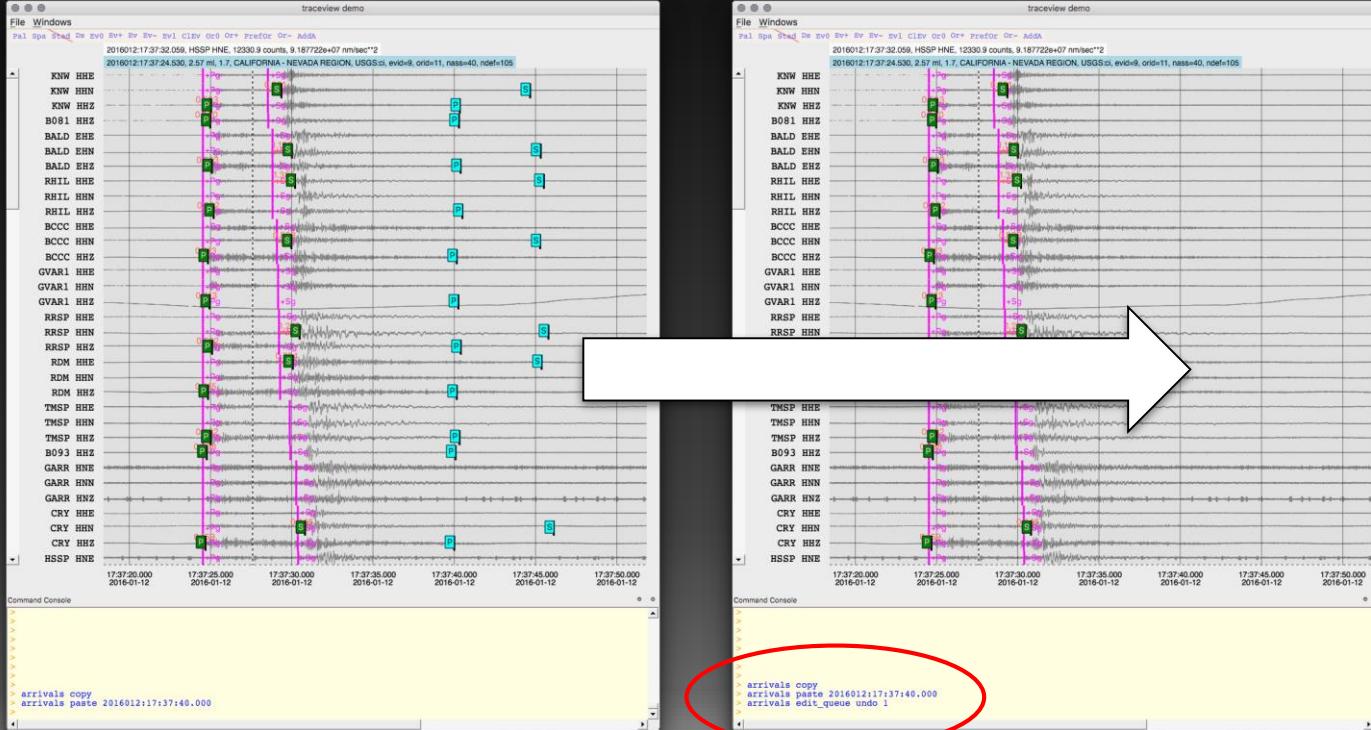
# Arrivals edit + add mode



# Arrivals copy/paste



# Arrivals undo/redo



# Parameter file editor

Expand all | Collapse all | Save as... | Options... |  
 Allow value edits  Show non-inline comments  Show comments  Show constraints  Show source

key	value	comment
# This is the default traceview parameter file		
use_wheel	yes	# use mouse wheel or track pad gestures for panning display
max_traces	40	# maximum number of traces to display
max_events	1000	# maximum number of events to process
min_pixels_traces	10	# minimum pixel height per trace
auto_distance_sort	yes	# automatically sort traces by distance from event
predicted_phases	P,S	# phased for predicted arrivals
default_phase	P	# default phase code for new arrivals
preserve_time_scale_on...	yes	# preserve pixels per second horizontal scale on resize?
preserve_traces_scale_...	yes	# preserve pixels per trace vertical scale on resize?
auto_select_last_modif...	no	# automatically select last modified event?
# aliases contains command aliases		
+ aliases &Arr		
# hotkeys contains single character hot key aliases		
+ hotkeys &Arr		
# arrivals_menus contains arrivals editing menu items		
+ arrivals_menus &Arr		
# traceview_display_parameters contains colors, fonts and li		
+ traceview_display_para...		
# traceview_buttons_definitions contains definitions of task		
# Note that the buttons definitions are defined in BQTaskbar		
+ traceview_buttons_defi...		
# traceview_buttons specifies which task buttons are display		
# Note that the buttons are defined in BQTaskbar(3)		
+ traceview_buttons &Tbl		
# events_params define the parameters for the events tablevi		
+ events_params &Arr		
# origins_params define the parameters for the origins table		
+ origins_params &Arr		
pf_revision_time	1554476057	
auto_select_event	no	# automatically select event?

Expand all | Collapse all | Save as... | Options... |  
 Allow value edits  Show non-inline comments  Show comments  Show constraints  Show source

key	value	comment
# traceview_display_parameters contains colors, fonts and linewidths for the traceview display windows		
+ traceview_display_params		
- main_display &Arr		# these are display parameters for the main window
- edit_display &Arr		# these are display parameters for the arrival edit window
color_background	#e0e0e0	# color of the trace window background
color_time_grid	#f0f0f0	# color of the time grid lines
linewidth_traces	1	# linewidth used for trace plots
detectedetection_	0.0.1.0.0.7	# color for detection flag text
color_detections	#0000ff	# color for detection flag outline
linewidth_detect	3	# linewidth for detection flag
color_predicted	magenta	# color for predicted arrival flag text
color_predicted_	#ff000000	# color for predicted arrival flag outline
color_normal	#000000	# linewidth for normal arrival flags
color_normal_no	black	# color for normal arrival flag text
color_normal_no_	#ffcc00	# color for normal arrival flag fill
color_normal_se	red	# color for selected arrival flag text
color_normal_se_	#ff0000	# color for selected arrival flag outline
color_arrival_se	black	# color for arrival_se arrival flag text
color_arrival_se_	#cccccc	# color for arrival_se arrival flag fill
color_arrival_cyan	cyan	# color for selected arrival flag fill
color_arrival_red	red	# linewidth for selected arrival flags
color_arrival_ed	red	# color for edited arrival flag text
color_arrival_ed_	#ff0000	# linewidth for edited arrival flags
color_arrival_lblue	lightblue	# color for defining arrival flag text
color_arrival_lblue_	#00ffff	# linewidth for defining arrival flags
color_arrival_lblack	black	# color for defining arrival flag fill
color_arrival_lblack_	#ffcc00	# color for defining arrival flag outline
color_arrival_lblue2	lightblue	# color for defining arrival flag text
color_arrival_lblue2_	#00ffff	# linewidth for defining arrival flags
color_arrival_lblack2	black	# color for defining arrival flag fill
color_arrival_lblack2_	#ffcc00	# color for defining arrival flag outline
color_arrival_no	black	# color for non-defining arrival flag text
color_arrival_no_	#ffcc00	# color for non-defining arrival flag fill
color_arrival_no_2	green	# color for tagged defining arrival flag text
color_arrival_no_2_	#00ff00	# color for tagged defining arrival flag fill
color_arrival_de	black	# color for tagged defining arrival flag outline
color_arrival_de_	#00ff00	# color for tagged defining arrival flag fill
color_arrival_lblack3	lightblue	# linewidth for tagged defining arrival flags
color_arrival_lblack3_	#00ffff	# color for tagged non-defining arrival flag text
color_arrival_lblack4	black	# color for tagged non-defining arrival flag fill
color_arrival_lblack4_	#00ffff	# linewidth for tagged non-defining arrival flags
color_arrival_lblack5	lightgreen	# color for non-associated arrival flag text
color_arrival_lblack5_	#00ff00	# linewidth for non-associated arrival flags
color_arrival_lblack6	black	# color for non-associated arrival flag fill
color_arrival_lblack6_	#00ffff	# linewidth for non-associated arrival flags
color_arrival_lblack7	orange	# color for arrival residual glyps text
color_arrival_lblack7_	#ff8c00	# linewidth for arrival residual glyps
linewidth_arriva	3	# linewidth for arrival residual glyps
color_arrival_select_e	#0000fffa	# arrival select expression applied to arrival
arrival_select_e_	.*	# arrival flag select expression applied to phase
arrival_reject_e_	(nnn).*	# arrival flag reject expression applied to phase

Status:

# Live demonstration