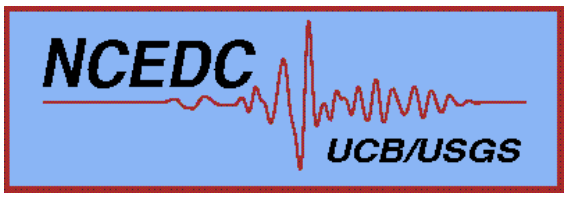
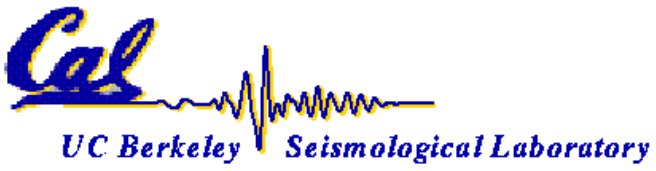



# Hardware Tracking Schema v1.0

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February 1998

# Contents


**1 Inventory** **2**
- 1.1 Response information . . . 2
  - 1.1.1 High-pass filter . . . 2
  - 1.1.2 Low-pass filter . . . 2
  - 1.1.3 Poles and Zeros . . . 3
  - 1.1.4 Polynomial . . . 3
- 1.2 Sensor information . . . 4
  - 1.2.1 Sensor information . . . 4
  - 1.2.2 Component information . . . 4
- 1.3 Pre-amplifier information . . . 5
  - 1.3.1 Pre-amplifier information . . . 5
  - 1.3.2 Channel information . . . 5
- 1.4 Datalogger information . . . 6
  - 1.4.1 Datalogger information . . . 6
  - 1.4.2 Board information . . . 6
  - 1.4.3 Module information . . . 6
- 1.5 Filter information . . . 7
  - 1.5.1 FIR Filter information . . . 7
  - 1.5.2 Filter information . . . 7
  - 1.5.3 Filters sequence . . . 8

**2 Tracking** **9**
- 2.1 Station information . . . 9
- 2.2 Sensor information . . . 10
  - 2.2.1 Sensor information . . . 10
  - 2.2.2 Sensor-channel information . . . 10
- 2.3 Pre-amplifier information . . . 11
  - 2.3.1 Pre-amplifier information . . . 11
  - 2.3.2 Pre-amplifier-channel information . . . 11
- 2.4 Digitizer information . . . 12
  - 2.4.1 Digitizer information . . . 12
  - 2.4.2 Digitizer-channel information . . . 12
- 2.5 Datalogger information . . . 13
  - 2.5.1 Datalogger information . . . 13

2.5.2 Datalogger-channel information . . . . . 13
2.5.3 Datalogger-filter information . . . . . 13

**3 Example: YBIB** **14**
3.1 Overview . . . . . 14
3.2 Inventory . . . . . 15
3.2.1 Response_HP . . . . . 15
3.2.2 Response_LP . . . . . 15
3.2.3 Sensor . . . . . 15
3.2.4 Sensor_Component . . . . . 15
3.2.5 Preamp . . . . . 15
3.2.6 Preamp_Channel . . . . . 15
3.2.7 Datalogger . . . . . 16
3.2.8 Datalogger_Board . . . . . 16
3.2.9 Datalogger_Module . . . . . 16
3.2.10 Filter_Sequence . . . . . 17
3.2.11 Filter_Sequence_Data . . . . . 17
3.2.12 Filter . . . . . 17
3.2.13 Filter_FIR . . . . . 17
3.2.14 Filter_FIR_Data . . . . . 17
3.3 Tracking . . . . . 18
3.3.1 Station . . . . . 18
3.3.2 Station_Sensor . . . . . 18
3.3.3 Station_Sensor_Channel . . . . . 18
3.3.4 Station_Preamp . . . . . 19
3.3.5 Station_Preamp_Channel . . . . . 19
3.3.6 Station_Digitizer . . . . . 20
3.3.7 Station_Digitizer_Channel . . . . . 20
3.3.8 Station_Datalogger . . . . . 21
3.3.9 Station_Datalogger_Channel . . . . . 21
3.3.10 Station_Datalogger_Filter . . . . . 22

# Chapter 1

# Inventory

## 1.1 Response information

### 1.1.1 High-pass filter

$Response_HP(hp_id, order)$

| hp_id | int | Response identifier |
|---|---|---|
| filter_type | char(2) | Filter type (BW, DG, ND) |
| nb_pole | int | Number of poles |
| corner_freq | float | Corner frequency of filter |
| damping_value | float | Fraction of critical damping |

### 1.1.2 Low-pass filter

$Response_LP(lp_id, order)$

| lp_id | int | Response identifier |
|---|---|---|
| filter_type | char(2) | Filter type (BW, DG, ND) |
| nb_pole | int | Number of poles |
| corner_freq | float | Corner frequency of filter |
| damping_value | float | Fraction of critical damping |

### 1.1.3 Poles and Zeros

*Response_PZ*(*pz_id*, *pz_data_id*)

| | | |
|---|---|---|
| pz_id | int | Response identifier |
| pz_data_id | int | Poles and Zeros data identifier |

*Response_PZ_Data*(*pz_data_id*, *pz_number*, *type*)

| | | |
|---|---|---|
| pz_data_id | int | Poles and Zeros data identifier |
| pz_number | int | Pole/Zero number |
| type | char(1) | Pole or Zero |
| r_value | float | Real zero/pole |
| i_value | float | Imaginary zero/pole |

### 1.1.4 Polynomial

*Response_PN*(*pn_id*, *pn_data_id*)

| | | |
|---|---|---|
| pn_id | int | Response identifier |
| pn_data_id | int | Polynom identifier |
| poly_type | char(1) | Type of polynomial approximation (C, L, M) |
| lower_bound | float | Polynomial lower bound |
| upper_bound | float | Polynomial upper bound |
| max_error | float | Maximum error of polynomial approximation |
| nb_coeff | int | Number of polynomial coefficients |

*Response_PN_Data*(*pn_data_id*, *pn_number*)

| | | |
|---|---|---|
| pn_data_id | int | Polynom identifier |
| pn_number | int | Coefficient number |
| pn_value | float | Coefficient value |

## 1.2 Sensor information

### 1.2.1 Sensor information

$Sensor(sensor_id, start_date)$

| sensor_id | int | Sensor identifier |
|---|---|---|
| name | char(80) | Sensor name |
| serial_nb | char(80) | Sensor serial number |
| start_date | date | Start date |
| end_date | date | End date |
| nb_component | int | Number of components |

### 1.2.2 Component information

$Sensor_Component(sensor_id, comp_nb)$

| sensor_id | int | Sensor identifier |
|---|---|---|
| comp_nb | int | Component number |
| channel | char(1) | Channel |
| type | char(1) | Type |
| sensitivity | float | Sensitivity |
| frequency | float | Frequency |
| resp_id | int | Response identifier |

## 1.3 Pre-amplifier information

### 1.3.1 Pre-amplifier information

$Preamp(preamp_id, start_date)$

| | | |
|---|---|---|
| preamp_id | int | Pre-amplifier identifier |
| name | char(80) | Pre-amplifier name |
| serial_nb | char(80) | Pre-amplifier serial number |
| start_date | date | Start date |
| end_date | date | End date |
| nb_channel | int | Number of channels |

### 1.3.2 Channel information

$Preamp_Channel(preamp_id, channel_nb)$

| | | |
|---|---|---|
| preamp_id | int | Pre-amplifier identifier |
| channel_nb | int | Channel number |
| gain | float | Gain |
| resp_id | int | Response identifier |

## 1.4 Datalogger information

### 1.4.1 Datalogger information

$Datalogger(data_id, start_date)$

| data_id | int | Datalogger identifier |
|---|---|---|
| data_type | char(80) | Datalogger type |
| serial_nb | char(80) | Datalogger serial number |
| firmware_nb | char(80) | Datalogger firmware number |
| start_date | date | Start date |
| end_date | date | End date |
| nb_board | int | Number of boards |

### 1.4.2 Board information

$Datalogger_Board(data_id, board_nb, start_date)$

| data_id | int | Datalogger identifier |
|---|---|---|
| board_nb | int | Board number |
| serial_nb | char(80) | Board serial number |
| start_date | date | Start date |
| end_date | date | End date |
| nb_module | int | Number of modules |

### 1.4.3 Module information

$Datalogger_Module(data_id, board_nb, module_nb, start_date)$

| data_id | int | Datalogger identifier |
|---|---|---|
| board_nb | int | Board number |
| module_nb | int | Module number |
| serial_nb | char(80) | Module serial number |
| sensitivity | float | Sensitivity (counts/volt) |
| start_date | date | Start date |
| end_date | date | End date |

## 1.5 Filter information

### 1.5.1 FIR Filter information

$Filter_FIR(fir_id, fir_data_id)$

| | | |
|---|---|---|
| fir_id | int | Response identifier |
| fir_data_id | int | FIR filter identifier |
| symmetry | char(1) | Filter symmetry (Even/None) |
| gain | float | Filter gain |

$Filter_FIR_Data(fir_data_id, coeff_number)$

| | | |
|---|---|---|
| fir_data_id | int | FIR filter identifier |
| coeff_number | int | Numerator/Denominator number |
| type | char(1) | Numerator or Denominator |
| coeff | float | Numerator/Denominator coefficient |

### 1.5.2 Filter information

$Filter(filter_id)$

| | | |
|---|---|---|
| filter_id | int | Filter identifier |
| name | char(80) | Filter name |
| gain | float | Filter gain |
| freq | float | Frequency for filter gain |
| rgain | float | Gain at the response frequency |
| rfreq | float | Frequency for response |
| in_sp_rate | float | Input sample rate |
| out_sp_rate | float | Output sample rate |
| sample | int | Sample selected during decimation |
| delay | float | Filter delay |
| timetag | float | Delay applied to timetag |
| resp_id | int | Response identifier |

### 1.5.3 Filters sequence

$Filter_Sequence(seqfil_id)$

| seqfil_id | int | Sequence identifier |
|---|---|---|
| nb_filter | int | Number of filters |
| overall_gain | float | Overall gain |
| freq | float | Frequency |
| rgain | float | Gain at the response frequency |
| rfreq | float | Frequency for response |

$Filter_Sequence_Data(seqfil_id, order)$

| seqfil_id | int | Sequence identifier |
|---|---|---|
| order | int | Order number |
| filter_id | int | Filter identifier |

# Chapter 2

# Tracking

## 2.1 Station information

$Station(sta, net, start_date)$

| | | |
|---|---|---|
| sta | char(6) | Station call letters |
| net | char(8) | Network code |
| lat | float | Latitude |
| lon | float | Longitude |
| elevation | float | Elevation |
| name | char(80) | Station name |
| nb_sensor | int | Number of sensors |
| nb_preamp | int | Number of pre-amplifiers |
| nb_digi | int | Number of digitizers |
| nb_data | int | Number of dataloggers |
| start_date | date | Start date |
| end_date | date | End date |

## 2.2 Sensor information

### 2.2.1 Sensor information

*Station_Sensor*(*sta*, *net*, *sensor_nb*, *start_date*)

| | | |
|---|---|---|
| sta | char(6) | Station call letters |
| net | char(8) | Network code |
| sensor_nb | int | Sensor number |
| sensor_id | int | Sensor identifier |
| depth | float | Depth |
| nb_channel | int | Number of channels |
| start_date | date | Start date |
| end_date | date | End date |

### 2.2.2 Sensor-channel information

*Station_Sensor_Channel*(*sta*, *net*, *sensor_nb*, *channel_nb*, *start_date*)

| | | |
|---|---|---|
| sta | char(6) | Station call letters |
| net | char(8) | Network code |
| sensor_nb | int | Sensor number |
| channel_nb | int | Channel number |
| preamp_digi_nb | int | Pre-amplifier/Digitizer number |
| preamp_digi_channel | int | Pre-amplifier/Digitizer channel |
| azimuth | float | Azimuth |
| dip | float | Dip |
| start_date | date | Start date |
| end_date | date | End date |

## 2.3 Pre-amplifier information

### 2.3.1 Pre-amplifier information

*Station_Preamp*(*sta*, *net*, *preamp_nb*, *start_date*)

| | | |
|---|---|---|
| sta | char(6) | Station call letters |
| net | char(8) | Network code |
| preamp_nb | int | Pre-amplifier number |
| preamp_id | int | Pre-ampifier identifier |
| nb_channel | int | Number of channels |
| start_date | date | Start date |
| end_date | date | End date |

### 2.3.2 Pre-amplifier-channel information

*Station_Preamp_Channel*(*sta*, *net*, *preamp_nb*, *channel_nb*, *start_date*)

| | | |
|---|---|---|
| sta | char(6) | Station call letters |
| net | char(8) | Network code |
| preamp_nb | int | Pre-amplifier number |
| channel_nb | int | Channel number |
| digi_nb | int | Digitizer number |
| digi_channel | int | Digitizer channel |
| start_date | date | Start date |
| end_date | date | End date |

## 2.4 Digitizer information

### 2.4.1 Digitizer information

$Station_Digitizer(sta, net, digi_nb, start_date)$

| | | |
|---|---|---|
| sta | char(6) | Station call letters |
| net | char(8) | Network code |
| digi_nb | int | Digitizer number |
| serial_nb | char(80) | Digitizer serial number |
| nb_pri_channel | int | Number of primary channels |
| nb_aux_channel | int | Number of auxiliary channels |
| start_date | date | Start date |
| end_date | date | End date |

### 2.4.2 Digitizer-channel information

$Station_Digitizer_Channel(sta, net, digi_nb, channel_nb, start_date)$

| | | |
|---|---|---|
| sta | char(6) | Station call letters |
| net | char(8) | Network code |
| digi_nb | int | Digitizer number |
| channel_nb | int | Channel number |
| data_nb | int | Datalogger number |
| data_channel | int | Datalogger channel |
| digi_type | char(3) | Digitizer type (DSP, AUX) |
| digi_polarity | char(1) | Digitizer polarity (N, ...) |
| start_date | date | Start date |
| end_date | date | End date |

## 2.5 Datalogger information

### 2.5.1 Datalogger information

$Station_Datalogger(sta, net, data_nb, start_date)$

| | | |
|---|---|---|
| sta | char(6) | Station call letters |
| net | char(8) | Network code |
| data_nb | int | Datalogger number |
| data_id | int | Datalogger identifier |
| nb_channel | int | Number of channels |
| start_date | date | Start date |
| end_date | date | End date |

### 2.5.2 Datalogger-channel information

$Station_Datalogger_Channel(sta, net, data_nb, channel_nb, start_date)$

| | | |
|---|---|---|
| sta | char(6) | Station call letters |
| net | char(8) | Network code |
| data_nb | int | Datalogger number |
| channel_nb | int | Channel number |
| seed_io | char(2) | SEED instrument and orientation |
| nb_filter | int | Number of filters |
| start_date | date | Start date |
| end_date | date | End date |

### 2.5.3 Datalogger-filter information

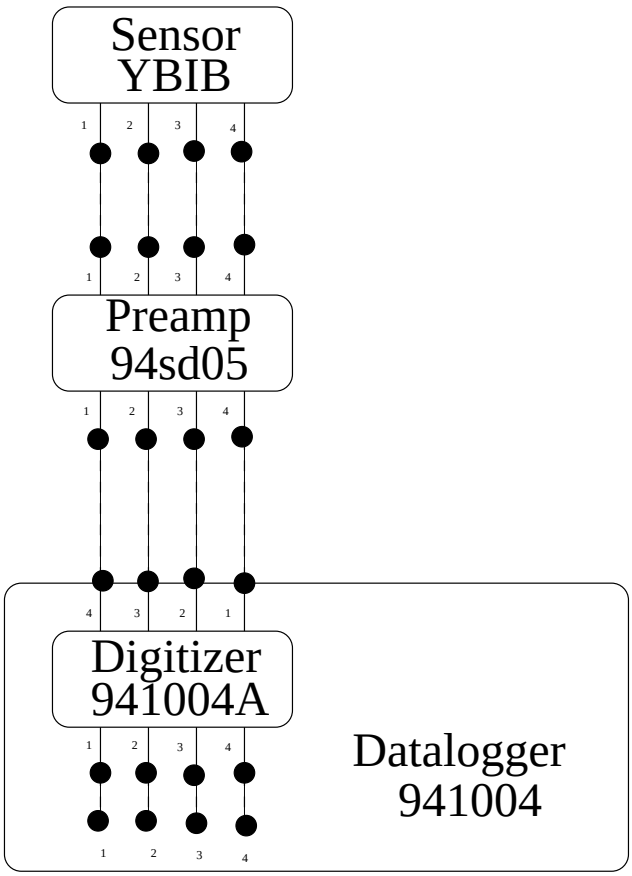
$Station_Datalogger_Filter(sta, net, data_nb, channel_nb, filter_nb, start_date)$

| | | |
|---|---|---|
| sta | char(6) | Station call letters |
| net | char(8) | Network code |
| data_nb | int | Datalogger number |
| channel_nb | int | Channel number |
| filter_nb | int | Filter number |
| seqfil_id | int | Sequence of filters identifier |
| seed | char(3) | SEED channel name |
| sample_rate | float | Sample rate |
| clock_tolerance | float | Clock tolerance |
| data_type | char(2) | Data type (TG/CG) |
| data_format | char(80) | Data format (SEED, ...) |
| comp_type | char(80) | Compression type (STEIM1, ...) |
| block_size | int | Block size (512, 4096, ...) |
| start_date | date | Start date |
| end_date | date | End date |

# Chapter 3

# Example: YBIB

## 3.1 Overview



## 3.2 Inventory

### 3.2.1 Response_HP

| hp_id | filter_type | nb_pole | corner_freq | damping_value |
|---|---|---|---|---|
| 2 | DG | 2 | 4.5 | 0.62 |
| 3 | DG | 1 | 0.0796 | 1. |

### 3.2.2 Response_LP

| lp_id | filter_type | nb_pole | corner_freq | damping_value |
|---|---|---|---|---|
| 1 | DG | 2 | 600. | 0.7071 |

### 3.2.3 Sensor

| sensor_id | name | serial_nb | start_date | end_date | nb_component |
|---|---|---|---|---|---|
| 1 | name | YBIB | 1996/06/28 23:25 | NULL | 4 |

### 3.2.4 Sensor_Component

| sensor_id | comp_nb | channel | type | sensitivity | frequency | resp_id |
|---|---|---|---|---|---|---|
| 1 | 1 | 1 | A | 1.0204 | 10. | 1 |
| 1 | 2 | 2 | A | 1.0204 | 10. | 1 |
| 1 | 3 | 3 | A | 1.0204 | 10. | 1 |
| 1 | 4 | 4 | V | 50. | 30. | 2 |

### 3.2.5 Preamp

| preamp_id | name | serial_nb | start_date | end_date | nb_channel |
|---|---|---|---|---|---|
| 1 | Qpreamp | 94sd05 | 1996/06/28 23:25 | NULL | 4 |

### 3.2.6 Preamp_Channel

| preamp_id | channel_nb | gain | resp_id |
|---|---|---|---|
| 1 | 1 | 10. | 3 |
| 1 | 2 | 10. | 3 |
| 1 | 3 | 10. | 3 |
| 1 | 4 | 100. | NULL |

### 3.2.7 Datalogger

| data_id | data_type | serial_nb | firmware_nb | start_date | end_date | nb_board |
|---|---|---|---|---|---|---|
| 1 | Q4120 | 941004 | 0 | 1996/06/06 00:00 | NULL | 1 |

### 3.2.8 Datalogger_Board

| data_id | board_nb | serial_nb | start_date | end_date | nb_module |
|---|---|---|---|---|---|
| 1 | 1 | 941004A | 1996/06/06 00:00 | NULL | 4 |

### 3.2.9 Datalogger_Module

| data_id | board_nb | module_nb | serial_nb | sensitivity | start_date | end_date |
|---|---|---|---|---|---|---|
| 1 | 1 | 1 | NULL | 428638. | NULL | NULL |
| 1 | 1 | 2 | NULL | 431261. | NULL | NULL |
| 1 | 1 | 3 | NULL | 425793. | NULL | NULL |
| 1 | 1 | 4 | NULL | 413133. | NULL | NULL |

### 3.2.10 Filter_Sequence

| seqfil_id | nb_filter | overall_gain | freq | rgain | rfreq |
|---|---|---|---|---|---|
| 1 | 3 | 0. | 0. | 0. | 0. |
| 2 | 4 | 0. | 0. | 0. | 0. |
| 3 | 5 | 0. | 0. | 0. | 0. |
| 4 | 7 | 0. | 0. | 0. | 0. |

### 3.2.11 Filter_Sequence_Data

Only the first sequence of filters is described.

| seqfil_id | order | filter_id |
|---|---|---|
| 1 | 1 | 1 |
| 1 | 2 | 2 |
| 1 | 3 | 3 |

### 3.2.12 Filter

| filter_id | name | gain | freq | rgain | rfreq |
|---|---|---|---|---|---|
| 1 | FIR.AD32M | 1. | 0. | 0. | 0. |
| 2 | FIR.F96CM | 1. | 0. | 0. | 0. |
| 3 | FIR.F96CM | 1. | 0. | 0. | 0. |

| in_sp_rate | out_sp_rate | sample | delay | timetag | resp_id |
|---|---|---|---|---|---|
| 32000. | 2000. | 0 | 0. | 0. | 4 |
| 2000. | 1000. | 0 | 0. | 0. | 5 |
| 1000. | 500. | 0 | 0. | 0. | 5 |

### 3.2.13 Filter_FIR

| fir_id | fir_data_id | symmetry | gain |
|---|---|---|---|
| 4 | 1 | N | 0.999904 |
| 5 | 2 | N | 0.999188 |

### 3.2.14 Filter_FIR_Data

This table is not described, due to the high amount of rows.

## 3.3 Tracking

### 3.3.1 Station

| sta | net | lat | lon | elevation | name |
|---|---|---|---|---|---|
| YBIB | BK | 37.81472 | -122.35815 | 4. | Yerba Buena Island |

| nb_sensor | nb_preamp | nb_digi | nb_data | start_date | end_date |
|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 1996/06/28 23:25 | NULL |

### 3.3.2 Station_Sensor

| sta | net | sensor_nb | sensor_id | depth | nb_channel | start_date | end_date |
|---|---|---|---|---|---|---|---|
| YBIB | BK | 1 | 1 | 61. | 4 | 1996/06/28 23:25 | NULL |

### 3.3.3 Station_Sensor_Channel

| sta | net | sensor_nb | channel_nb | preamp_digi_nb |
|---|---|---|---|---|
| YBIB | BK | 1 | 1 | 1 |
| YBIB | BK | 1 | 2 | 1 |
| YBIB | BK | 1 | 3 | 1 |
| YBIB | BK | 1 | 4 | 1 |

| preamp_digi_channel | azimuth | dip | start_date | end_date |
|---|---|---|---|---|
| 1 | 0. | -90. | 1996/06/28 23:25 | NULL |
| 2 | 257. | 0. | 1996/06/28 23:25 | NULL |
| 3 | 347. | 0. | 1996/06/28 23:25 | NULL |
| 4 | 0. | -90. | 1996/06/28 23:25 | NULL |

### 3.3.4 Station_Preamp

| sta | net | preamp_nb | preamp_id | nb_channel | start_date | end_date |
|---|---|---|---|---|---|---|
| YBIB | BK | 1 | 1 | 4 | 1996/06/28 23:25 | NULL |

### 3.3.5 Station_Preamp_Channel

| sta | net | preamp_nb | channel_nb |
|---|---|---|---|
| YBIB | BK | 1 | 1 |
| YBIB | BK | 1 | 2 |
| YBIB | BK | 1 | 3 |
| YBIB | BK | 1 | 4 |

| digi_nb | digi_channel | start_date | end_date |
|---|---|---|---|
| 1 | 4 | 1996/06/28 23:25 | NULL |
| 1 | 3 | 1996/06/28 23:25 | NULL |
| 1 | 2 | 1996/06/28 23:25 | NULL |
| 1 | 1 | 1996/06/28 23:25 | NULL |

### 3.3.6 Station_Digitizer

| sta | net | digi_nb | serial_nb |
|---|---|---|---|
| YBIB | BK | 1 | 941004A |

| nb_pri_channel | nb_aux_channel | start_date | end_date |
|---|---|---|---|
| 4 | 0 | 1996/06/28 23:25 | NULL |

### 3.3.7 Station_Digitizer_Channel

| sta | net | digi_nb | channel_nb | data_nb |
|---|---|---|---|---|
| YBIB | BK | 1 | 1 | 1 |
| YBIB | BK | 1 | 2 | 1 |
| YBIB | BK | 1 | 3 | 1 |
| YBIB | BK | 1 | 4 | 1 |

| data_channel | digi_type | digi_polarity | start_date | end_date |
|---|---|---|---|---|
| 1 | DSP | N | 1996/06/28 23:25 | NULL |
| 2 | DSP | N | 1996/06/28 23:25 | NULL |
| 3 | DSP | N | 1996/06/28 23:25 | NULL |
| 4 | DSP | N | 1996/06/28 23:25 | NULL |

### 3.3.8 Station_Datalogger

| sta | net | data_nb | data_id | nb_channel | start_date | end_date |
|---|---|---|---|---|---|---|
| YBIB | BK | 1 | 1 | 4 | 1996/06/28 23:25 | NULL |

### 3.3.9 Station_Datalogger_Channel

| sta | net | data_nb | channel_nb |
|---|---|---|---|
| YBIB | BK | 1 | 1 |
| YBIB | BK | 1 | 2 |
| YBIB | BK | 1 | 3 |
| YBIB | BK | 1 | 4 |

| seed_io | nb_filter | start_date | end_date |
|---|---|---|---|
| L1 | 4 | 1996/06/28 23:25 | NULL |
| L2 | 4 | 1996/06/28 23:25 | NULL |
| L3 | 4 | 1996/06/28 23:25 | NULL |
| P1 | 4 | 1996/06/28 23:25 | NULL |

### 3.3.10 Station_Datalogger_Filter

The start_date and end_date fields are not described.

| sta | net | data_nb | channel_nb | filter_nb | seqfil_id | seed | sample_rate |
|---|---|---|---|---|---|---|---|
| YBIB | BK | 1 | 1 | 1 | 1 | CL1 | 500 |
| YBIB | BK | 1 | 1 | 2 | 2 | HL1 | 100 |
| YBIB | BK | 1 | 1 | 3 | 3 | BL1 | 20 |
| YBIB | BK | 1 | 1 | 4 | 4 | LL1 | 1 |
| YBIB | BK | 1 | 2 | 1 | 1 | CL2 | 500 |
| YBIB | BK | 1 | 2 | 2 | 2 | HL2 | 100 |
| YBIB | BK | 1 | 2 | 3 | 3 | BL2 | 20 |
| YBIB | BK | 1 | 2 | 4 | 4 | LL2 | 1 |
| YBIB | BK | 1 | 3 | 1 | 1 | CL3 | 500 |
| YBIB | BK | 1 | 3 | 2 | 2 | HL3 | 100 |
| YBIB | BK | 1 | 3 | 3 | 3 | BL3 | 20 |
| YBIB | BK | 1 | 3 | 4 | 4 | LL3 | 1 |
| YBIB | BK | 1 | 4 | 1 | 1 | DP1 | 500 |
| YBIB | BK | 1 | 4 | 2 | 2 | EP1 | 100 |
| YBIB | BK | 1 | 4 | 3 | 3 | BP1 | 20 |
| YBIB | BK | 1 | 4 | 4 | 4 | LP1 | 1 |

| clock_tolerance | data_type | data_format | comp_type | block_size |
|---|---|---|---|---|
| 5. d-2 | TG | SEED | STEIM2 | 4096 |
| 1. d-2 | TG | SEED | STEIM2 | 4096 |
| 2. d-3 | TG | SEED | STEIM2 | 4096 |
| 1. d-4 | TG | SEED | STEIM2 | 4096 |
| 5. d-2 | TG | SEED | STEIM2 | 4096 |
| 1. d-2 | TG | SEED | STEIM2 | 4096 |
| 2. d-3 | TG | SEED | STEIM2 | 4096 |
| 1. d-4 | TG | SEED | STEIM2 | 4096 |
| 5. d-2 | TG | SEED | STEIM2 | 4096 |
| 1. d-2 | TG | SEED | STEIM2 | 4096 |
| 2. d-3 | TG | SEED | STEIM2 | 4096 |
| 1. d-4 | TG | SEED | STEIM2 | 4096 |
| 5. d-2 | TG | SEED | STEIM2 | 4096 |
| 1. d-2 | TG | SEED | STEIM2 | 4096 |
| 2. d-3 | TG | SEED | STEIM2 | 4096 |
| 1. d-4 | TG | SEED | STEIM2 | 4096 |