

Department CNWRA SN# 59A
Subject SEISM
Name Jose M. "Marty" Menchaca
Address Bldg 178

National® Brand

Computation Notebook

11³/₄" x 9¹/₄", 4 x 4 Quad., 75 Sheets

43-648



0 73333 43648 8



Office Products
Chicopee, MA 01022

Index

/usr3/pinafore/.../*.f files on SCCS	4
sccs prs /usr3/pinafore/full/hzcds/*.f	5-8
sccs prs /usr2/pinafore/jmm/hzcds/*.f	9-13
sccs delta of outstanding *.f files	14
input data analysis axj cjaltr cjsis	15-16
checking sccs versions on usr3/	17
sccs prs /usr3/pinafore/full/datadir/ax*	18-19
sccs prs /usr3/pinafore/full/datadir/cxgis	20
sccs prs /usr3/pinafore/full/datadir/cxaltz	21
miscellaneous files (atnfb & gnxfb)	22
checked out /usr3/pinafore/full/hzcds/*.f	23
trying to run SEISM1	24
961001. meeting	25

Initial Entry: Since the work of adapting the SEISM code to the YM site began, many modifications to the individual modules ~~has~~ have taken place. The next pages try to analyze all the various versions of the modules used in the SEISM code.

20010712
JMM

Tom M. M

Methodology: Using the ^{unix} diff command, differences will be noted, to indicate which are the most recent versions that are to be used for the SEISM code. During development several versions of modules were created and often left undocumented. The unix diff command will aid in determining which of the duplicate files are still relevant to the SEISM program.

Tom M. M

/usr3/pirafire/full/hzcds

These are files that have been backed up on SCCS

a model.f

* bdir.f

* b model.f

* c model.f

comb.f

* d model.f

* e model.f

f model.f

* initial.f

new loc.f

* nsite cor.f

plotter.f

prds.f

raleas.f

rdatex.f

* rdattn.f

* rsite cor.f

seism.f

* selsite.f

* shc.f

sia.f

EV version.

ln(accel) version

ln(accel) version

ln(accel) version ~~insert~~
~~see notes on page 6~~

ln(accel) version

JMM
20010426

EV version

EV version

diagnostic lines added

EV version

EV version

EV version

* indicates still checked out for edit.

Pat Starkweather

EV = Environment Variable

secs prs of x.f (usr3/pinfore)

a model. f

- 1.5 950103.1303 Fault Displacement Hazard Model (FDH)
- 1.4 940413.1444 a model returning natural logarithm
- 1.3 940315.1627 version before going from accel to $\ln(\text{accel})$
- 1.2 940301.1518 Yucca Mounting Ground Motion Model
- 1.1 931217.1355 original

* bdir. f

EV version checked out

96103/22.1511

Changes for current directory

1.1 93109/22.1039 original

* bmodel. f

instead of $bmodel = \exp(c1 + c2 * xm + c3 * blnr + c6 * d) / 100$

$bmodel = c1 + c2 * xm + c3 * blnr + c6 * d$

- 1.4 940315.1627 version before going from accel to $\ln(\text{accel})$
- 1.3 940301.1518 YM Ground Motion Model
- 1.1 931217.1414 original

* cmodel. f

instead of $cmodel = \exp(c1 + c2 * xm + c3 * clnr + c4 * r) / 100$

$cmodel = c1 + c2 * xm + c3 * clnr + c4 * r$

- 1.4 940315.1627
- 1.3 940301.1518 version before going from accel to $\ln(\text{accel})$
- 1.3 940301.1518 YM GM model
- 1.2 94025.1425 changes before new model given by R. Hofman, 24 Jan 94
- 1.1 931217.1414 original

6

960910

SCCS prs of *.f (ust.3/pirate)

comb.f

1.2 95/01/03.1307 FDH coordinates

1.1 940505.1422 original

* dmodel.finstead of $d_{model} = 10^A(c_1 + c_2 * x_1 + c_3 * dlogr + c_4 * d)/100$

$$d_{model} = \log[10^A(c_1 + \dots + c_4 * d)]$$

1.3 940315.1627 vers before going from accel to $R_n(accel)$?

1.2 940301.1518 Ym GM model

1.1 931217.1414 original

isn't $\log(10^A) = A$?
 why are we doing this?

JMM
20010426~~* dlog is natural logarithm~~instead of $e_{model} = e_{model} * 9.8$ * emodel.f

$$e_{model} = dlog(e_{model} * 980)$$

1.3 940315.1627 ver before going from accel to $R_n(accel)$

1.2 940301.1518 Ym GM model

1.1 931217.1414 original

fmodel.f

1.2 940422.1513 FDH model.

1.1 940412.1412 original

* initial.f

EV version checked out

1.2 960322.1511 Changes for current directory

1.1 930922.1039 original

sccs prs of *.f (Past 3/present)

newloc.f

- 1.2 950103.1459 ^{added} _{Jan 20010426} added xij area for diagnostics
- 1.1 940111.1919 original

* nsitecor.f

FY version checked out

- 1.2 960322.1512 ~~1034~~ Changes for current directory
- 1.1 930922.1039 original

plotter.f

- 1.2 950103.1306 FDOT coordinates
- 1.1 940505.1046 original

prds.f

- 1.2 940413.1415 Diagnostic version
- 1.1 940209.0904 original

valeas.f

- 1.2 950103.1309 FDOT pga values
- 1.1 940133.1640 original

rdatex.f

- 1.2 940603.1518 ¹⁵¹⁸ changed hardcoded models = 7
to models = natrex
- 1.1 940119.0853 original

8

960910

secs prs of *.f (usr3/pinafere)

rdattn.f

diagnostic lines in checked out version

1.1

940420.1326

original

rsitecor.f

EV version checked out

1.2

960322.1512

changes for current directory

1.1

930922.1039

original

seisn.f

1.2

940603.1521

a few comment lines of intended
format of comments

1.1

940113.0958

seisite.f

EV version checked out

1.2

960322.1513

changes for current directory

1.1

930922.1039

original

she.f

EV version checked out

1.2

960322.1513

changes for current directory

1.1

930922.1039

original

sia.f

1.2

940412.1428

changed parameters passed to emotel

1.1

931230.1334

original

/usr2/pinafore/jmn/hzcds

The list of files that have been backed up on SCCS ~~is~~ ^{is} exactly the same as the list on page 4. There are no files that ~~have~~ ^{are} currently checked out.

JMM
20010426

a model.f

(see pages)

pr's exactly the same as /usr3/pinafore/full/hzcds with the following exception

1.5 950110.1459 Version with magnitude listing
(diagnostic version)

bdir.f

same as /usr3/pinafore except

1.2 960423 needed changes to run in new directory

bmodel.f

same as /usr3/pinafore with the following 2 versions added:

1.5 950110.1459 Version with magnitude listings
(diagnostic version)

1.4 950109.1426 model returning natural logarithm

10

960910

scs prs of /usr2/pinafore/jmm/hcds/x.f

(continued)

cmodel.f

same as /usr3 with two additional versions

1.6 950110.1459 version with magnitude listings
(diagnostic version)

1.5 950109.1426 model returning natural logarithm

comb.fonly the original create date & time are
the same1.1.1 960423.1614 added ranges of horizontal headings
to accomodate FDH

1.2 941220.1421 axis adjustments to display FDH plots

dmodel.f & emodel.f

Same as /usr3 with two additional versions

1.5 950110.1459 Version with magnitude listings
(diagnostic version)

1.4 950109.1426 model returning natural logarithm

fmodel.f

same as /usr3 (no exceptions)

sccs prs of /usr2/pinatore/jmn/heads/x.f

initial.f

1.1 identical, 1.2 differs as shown
as /usr3

1.2 960423.1536 changes needed to run in current directory

newloc.f

1.1 identical, 1.2 differs as shown
as /usr3

1.2 960423.1543 added 02=xjjarear line for diagnostics

nsitecor.f

1.1 identical, 1.2 differs as shown
as /usr3

1.2 960423.1538 changes to path name(s) needed
to run in current directory

plotter.f

1.1.1.1 960423.1612 added ranges and headings to
accomodate FOH

1.2 941220.1421 axis adjustments to display FOH plots

1.1 940505.1046 identical to /usr3 original

prds.f

1.1 & 1.2 are identical to /usr3, 1.3 has been added

1.3 950106.1247 added comments

Jmn
20010426

12

960911

secs prs of /usr2/pin afore/jmm/hzcds/x.f
rleas.f

1.1 is identical to /usr3, 1.2 differences:

1.2 960423.1611 changes to pga constant to
 accomodate FDIH

rdalex.f

1.1 is identical to /usr3, 1.2 differs as shown

1.2 960423.1609 changed models = 7 to
 models = not max.

rdatt n.f

1.1 is identical to /usr3, 1.2 is added

1.2 960423.1542 added diagnostic lines
 for trouble shooting

rsite cor.f

1.1 is identical to /usr3, 1.2 differs as shown

1.2 960423.1538 changes ^{needed} to path name(s)
 to r4~ in current directory
 jmm 2/20/426

seis n.f

1.1 is identical to /usr3, 1.2 differs as shown

1.2 960423.1604 added diagnostic print (write) lines

sccs prs of /usr2/pinfore/jmm/hz els/x.f

sel site.f

1.1 is identical to /usr3, 1.2 differs as shown

1.2 960423.1538 changes to path name(s) needed to run in current directory

shc.f

1.1 is identical to /usr3, 1.2 differs as shown

1.2 960423.1538 changes to path name(s) needed to run in current directory

sla.f

1.1 & 1.2 are identical to /usr3 version

1.3 & 1.4 are added as shown below

1.4 960423.1546 fill bins routines to display magnitude distributions

1.3 950117.1326 added some diagnostics and sccs id string

14

960911

df of /usr2 & /usr3

/usr2 401,292 kb of 489,702 kb = 91%

/usr3 1,079,632 kb of 1,952,573 = 61%

delta'd the following files:

D→2.1

{	bdir.f	960911.145633
	initial.f	145634
	n site cor.f	145634
	r site cor.f	145635
	selsite.f	145635
	she.f	960911.145634

with the following comment:

Environ Variable Pathname Version

delta'd rdatten.f with the following comment

1.2 960911.150602 Version with diagnostic write statements

delta'd the following files with the following comment:

ground motion expert model returning natural logarithm of acceleration

1.4 960911.150845 b model.f

1.5 960911.150845 c model.f

1.4 960911.150846 d model.f

1.4 960911.150846 e model.f

~~X~~ all *.f files have been checked in
 and their latest version is out with an
 "secs get" command (i.e. not out for edit)

outstanding data analysis (usr3/pinfore/full/hard)

The following directories have
SCCS directories created on them:

data dir /SCCS axj cjalte /cjsis checked out

prds dir /SCCS only axj ^{JMM 20010426} ~~cjalte /cjsis~~ checked out

old-data dir /SCCS axj cjalte /cjsis checked out

old-data dir /~~temp~~/SCCS deleted

old-prds dir /SCCS ^{JMM 20010426} only axj checked out

comp dir /SCCS

old-comp dir /SCCS

outstanding data analysis (continued from 15)

The table below indicates the presence of axj, cjalz or cjsis files.

the base directory is

/usr3/pinafore/full/hzd

	axj	cjsis	cjalz
data dir	X 0	X	X
prds dir	0	0	0
data dir / data-base	X	X	X
old Resul / 004 / Input Files	X	X	X
old Resul / 005 / Input Files	X	X	X
old Resul / 006 / Input Files	X	X	X
old - data dir / ym Files	X	X	X
old - data dir / old Cjsis		X	
old - data dir / save Orig Cjsis		X	
old - data dir / Solitario Canyon	X	X	X
old - data dir / Ghost Dance	X	X	
old - data dir	X	X	0
old Resul / 007 / Input Files	X	X	X
old Resul / 008 / Input Files	X	X	X
old prds dir / save	X		

Jim
20010426

checking existence of SCCS versions on /usr3

The 0's in the table on page 16 indicate that there is an s.* file in the SCCS directory. The table on page 16 corresponds to the information of page 15

/usr3/pinatore/full/hard/prdssdir/ax*

all of the axj files in the SCCS directory listed above are the original limerick files received with seism the axj New are same files with a western offset of 35 degrees. These files were used to test the feasibility of using seism1 in the Western U.S.

The current axj files checked out on /usr3/pinatore/full/hard/data dir are all SIA -r1.2 which ~~are~~ are the versions needed to reproduce good run.

sccs prs reports of /usr3/pindore/fall/ward/datedir/axj

ax1

(ax1 on ../old-datedir has identical prs)

1.3.2.1	940520.1633	long & lats for Paint Brush Canyon	<u>ax3</u>
1.3.1.1	940520.1438	Ghost Dance Lat & Longs	
1.5	940518.0859	FDH file of Solitario Canyon & 1 BZ	<u>ax4</u>
1.4	940422.1448	FDH input file	<u>ax6</u>
1.3	940412.1319	changes made after 16 March run but before single source zone test	
		addition of Bogue Zones (BZ's)	
1.2	940214.1625	restoring 3 inner/outer circle bands	
1.1	940127.0943	original	

ax2

(ax2 on ../old-datedir has identical prs)

1.3.3.1	940520.1633	long & lats for Paint Brush Canyon
1.3.2.1	940520.1438	Ghost Dance Lat & Longs
1.5	940518.0859	FDH file of Solitario Canyon & 1 BZ
1.3.1.1	940426.0911	corrected # of 4 sided figures for WW (line 150)
1.4	940422.1448	FDH input file
1.3	940412.1319	changes made after 16 March run but before single source zone test
1.2	940214.1625	restoring 3 inner/outer circle bands
1.1	940127.0943	original YM file not linearick file

secs prs reports of /usr3/pinature/full/datatdir/axj'
ax 5 (ax5 on .. /old-datatdir has identical prs)
 prs report is the same as ax1, ax3 & ax4
 except that it does not has SID 1.3.2.1

ax 7 (ax7 on .. /old-datatdir has identical prs)
 The prs for ax7 has only 3 SID's 1.1, 1.2 & 1.3.
 These are identical to ax1-ax6 first
 three prs reports.

ax 10 (ax10 on .. /old-datatdir has identical prs)

1.3.1.1	940520.1633	long flats for Paint Brush Canyon
1.5	940518.0901 940518.0912	original comments changed FDH File of Solitario Canyon 9/1/87
1.4	940422.1448	FDH input file
1.3	940412.1319	changes made after 1/16 March run but before single source zone test
1.2	940214.1625	restoring 8 inner/outer circle bands
1.1	940127.0943	original

secs prs report of /usr3/... /data dir /usr3/... /old-data dir

The cjsis files currently checked out all have an added compensation zone added to them.

These will all be checked in with the following comment

Files checked out 941219, 140113 to have compensation zone added.

either
1401
or
1402

1.1.3.1	C1sis	960913.132340
1.1.3.1	C2sis	960913.132341
1.1.3.1	C3sis	960913.132342
1.1.3.1	C4sis	960913.132342
1.1.2.1	C5sis	960913.132343
1.1.3.1	C6sis	960913.132343
1.2	C7sis	960913.132344
1.1.2.1	C10sis	960913.132339

usr3/pinafore/full/hard/datadir

The cjaltz files currently checked out all have an added compensation zone added to them.

These files have all been checked in with the following comment

Files checked out 941209.1354 to have compensation zone added.

1.1.1.1	C1altz	960913.134819
1.1.1.1	C2altz	960913.134819
1.1.1.1	C3altz	960913.134820
1.1.1.1	C4altz	960913.134820
1.1.1.1	C5altz	960913.134821
1.1.1.1	C6altz	960913.134821
1.2	C7altz	960913.134822
1.1.1.1	C10altz	960913.134818

/usr3/pinatore/full/hard/detadir

atnfb

current checked out version of
atnfb is -r1.3 which is the
version needed to run oob

gmxfb

current checked out version of
gmxfb is -r1.5 which is the
version needed to run oob

site cor

no changes have been made to
site cor

Site sid

changes made to site sid have
been made by SHC

Currently checked out *.f files
of 100.3/pinfore/full/heads

amodel.f

-r1.4 940413.1444

amodel returning natural logarithm

bdir.f

-r2.1 960911.1456

Environment Variable Path name Version

9X 1 8
 2 14 6
 3 3 3 SC GD PB
 4 3 5
 5 3
 6 24
 7 14
 10 18
 JMM
 20010426

Scientific Notebook 59

Subject: Scientific Notebook 59

Date: Thu, 28 Sep 2000 13:38:24 -0500

From: Larry McKague <lmckague@gargol.cnwra.swri.edu>

Organization: CNWRA

To: "Bruce Mabrito (bmabrito)" <bmabrito@gargol.cnwra.swri.edu>

There have been no entries in to Scientific notebook number 59 over the last 6 months. We anticipate closing this notebook out over the next couple of weeks.

H. Lawrence McKague

Larry mcKague <lmckague>

present:

L McKague

P Bowman

C Scherer

J Stamatakis

self

Review SEISM 1.1 Portability Task Summary
(10/03)

and have any changes ready by Thursday
morning.

I have reviewed scientific notebook ~~68~~^{59A} and find it in compliance with QAP-001. There is sufficient information regarding procedure used for conducting the research and acquiring and analyzing the data so that another qualified scientist could repeat the activity or activities recorded in this scientific notebook

~~68~~^{59A}
4/16/2001

~~H. L. McKague~~

04/16/01

H. Lawrence McKague
GLGP Element Manager

PLEASE ARCHIVE THIS NOTEBOOK
AS OF 4/16/01

H. Lawrence McKague