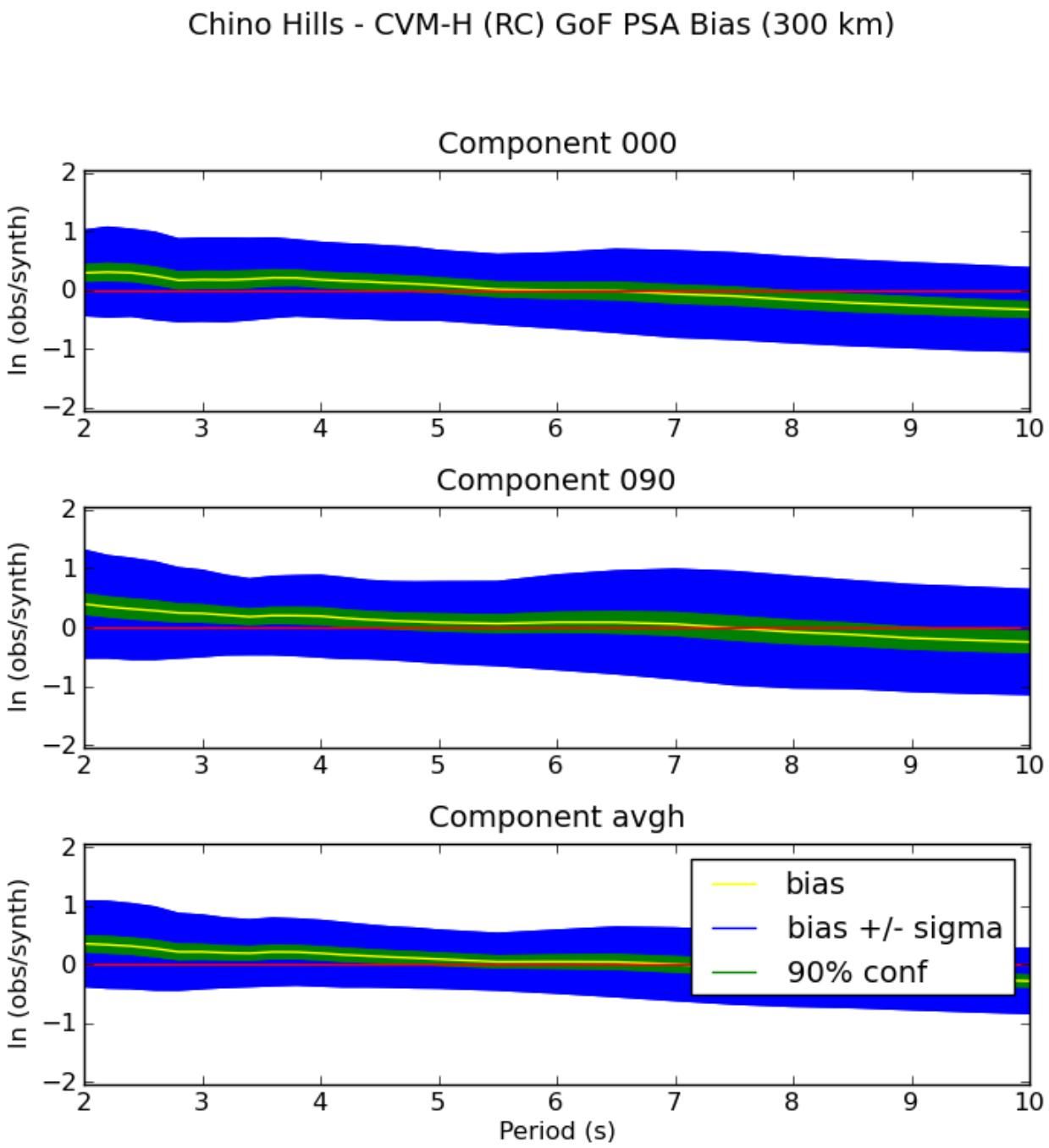
SCEC CVM Evaluations

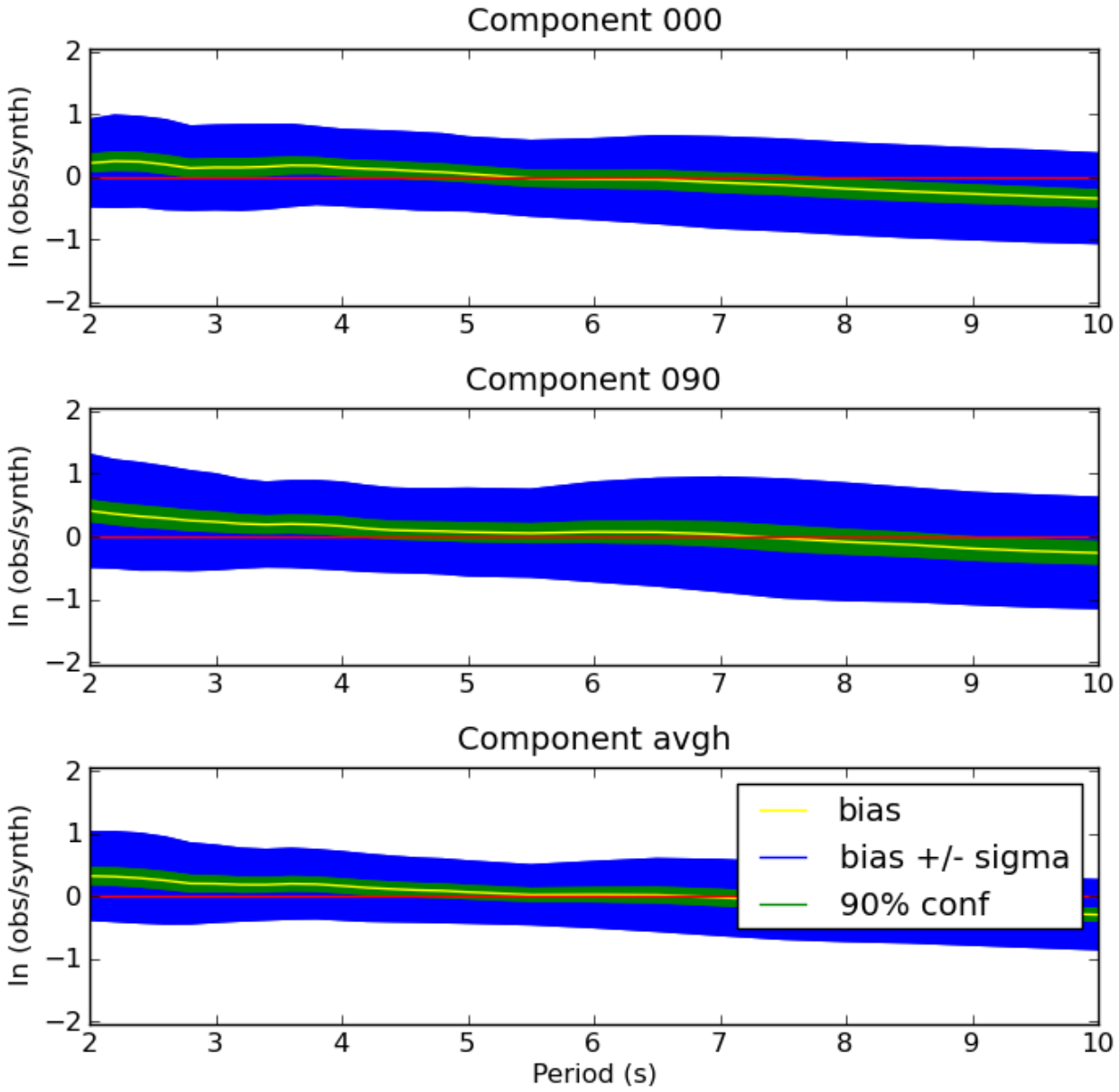
Comparing Chino Hills simulation results using CVM-H 11.2 and CVM-H 11.9

CVM-H v11.2

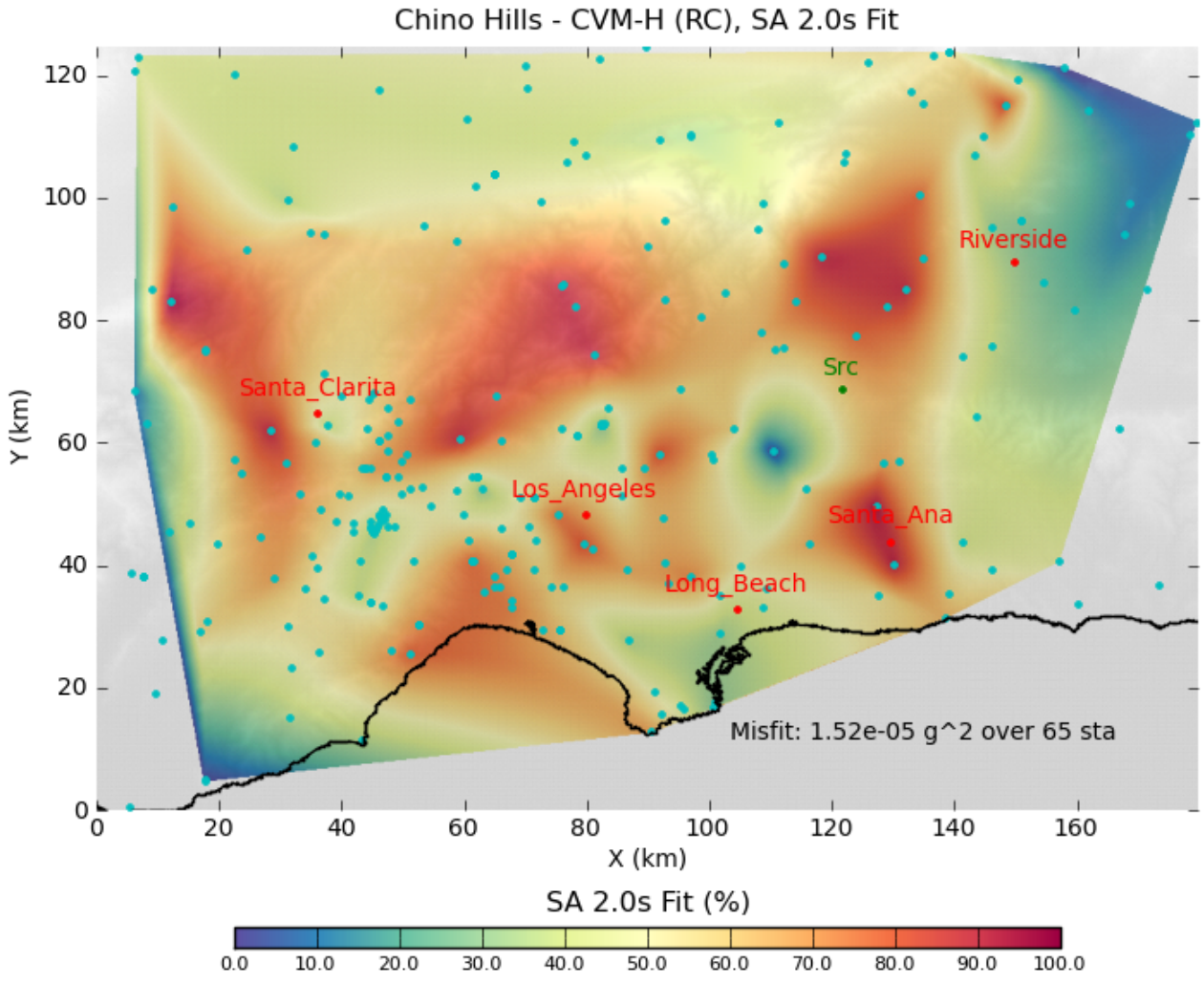

Chino Hills - CVM-H (RC) GoF PSA Bias (300 km)
Component 000
Component 090
Component avgh
ln (obs/synth)
Period (s)
bias
bias +/- sigma
90% conf

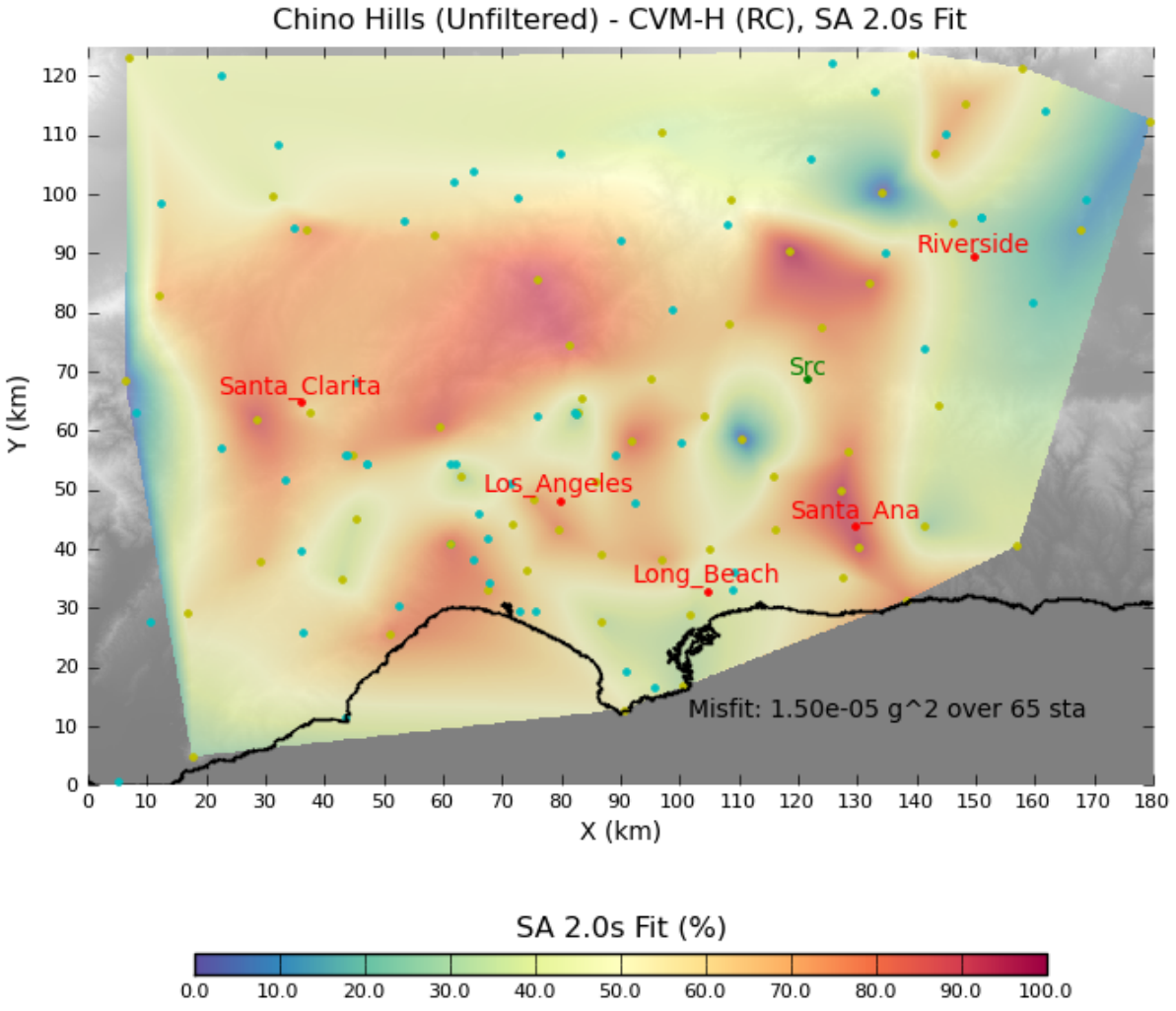
Chino Hills (Unfiltered) - CVM-H (RC) GoF PSA Bias (300 km)

CVM-H v11.9

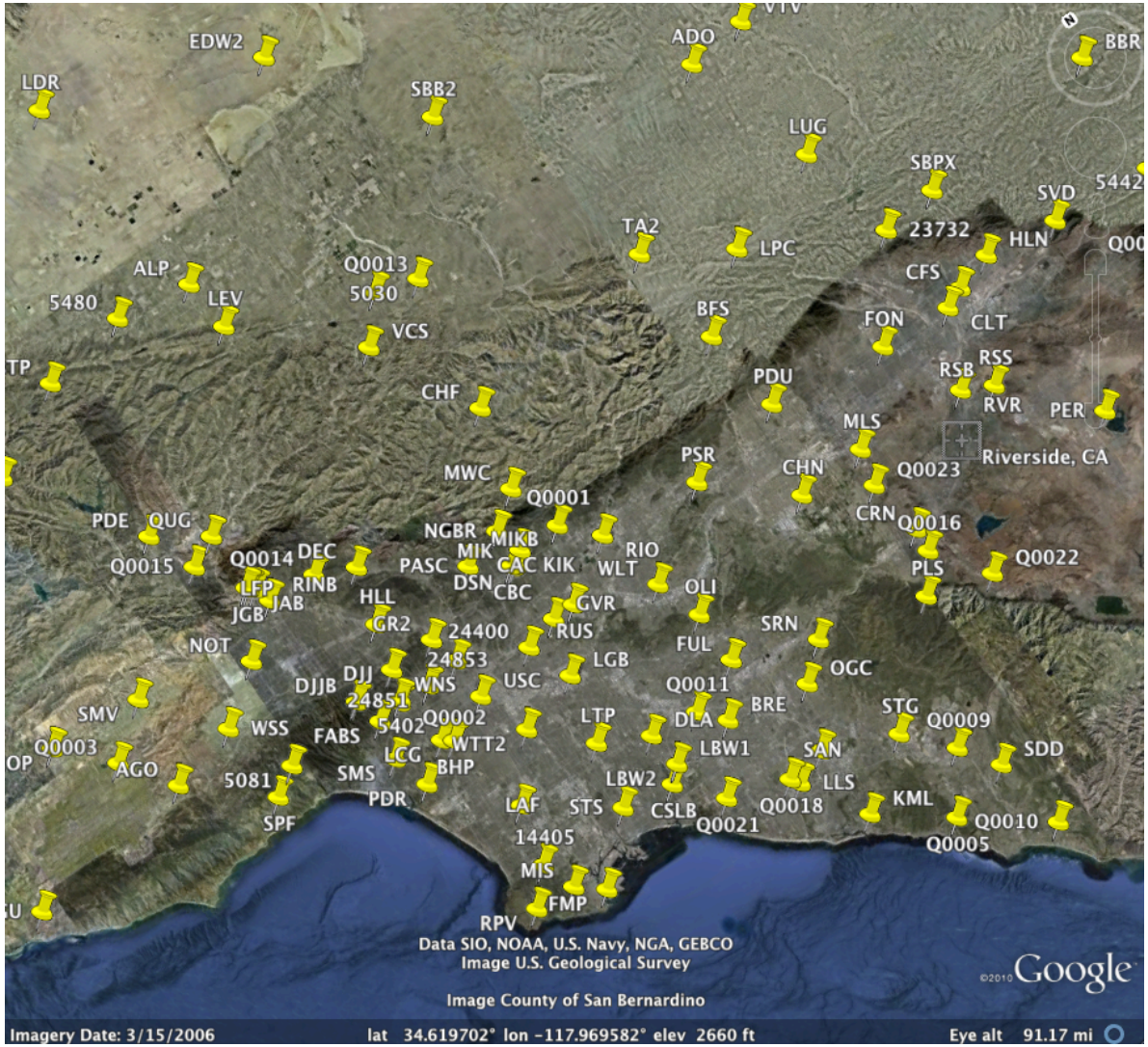


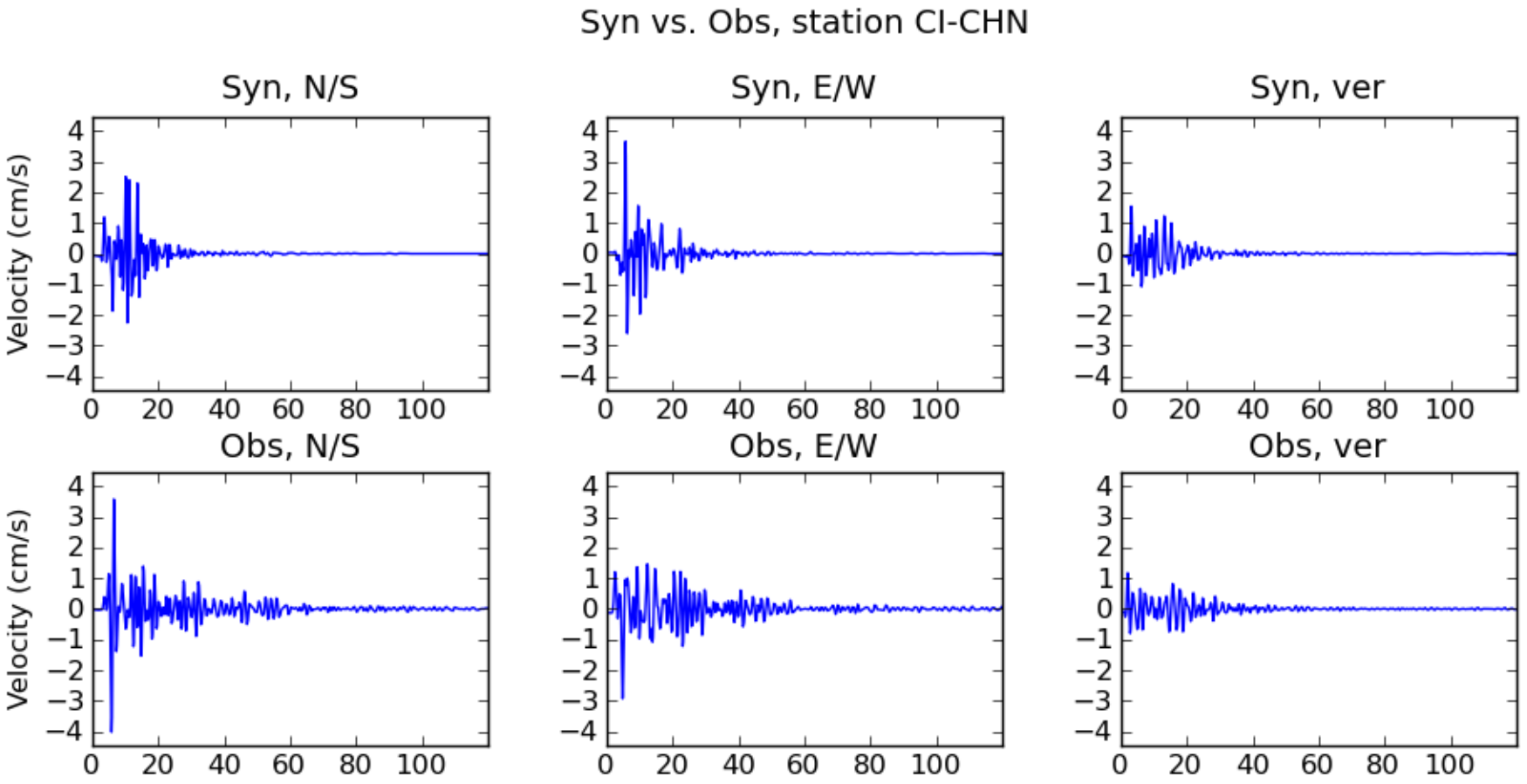
CVM-H v11.2

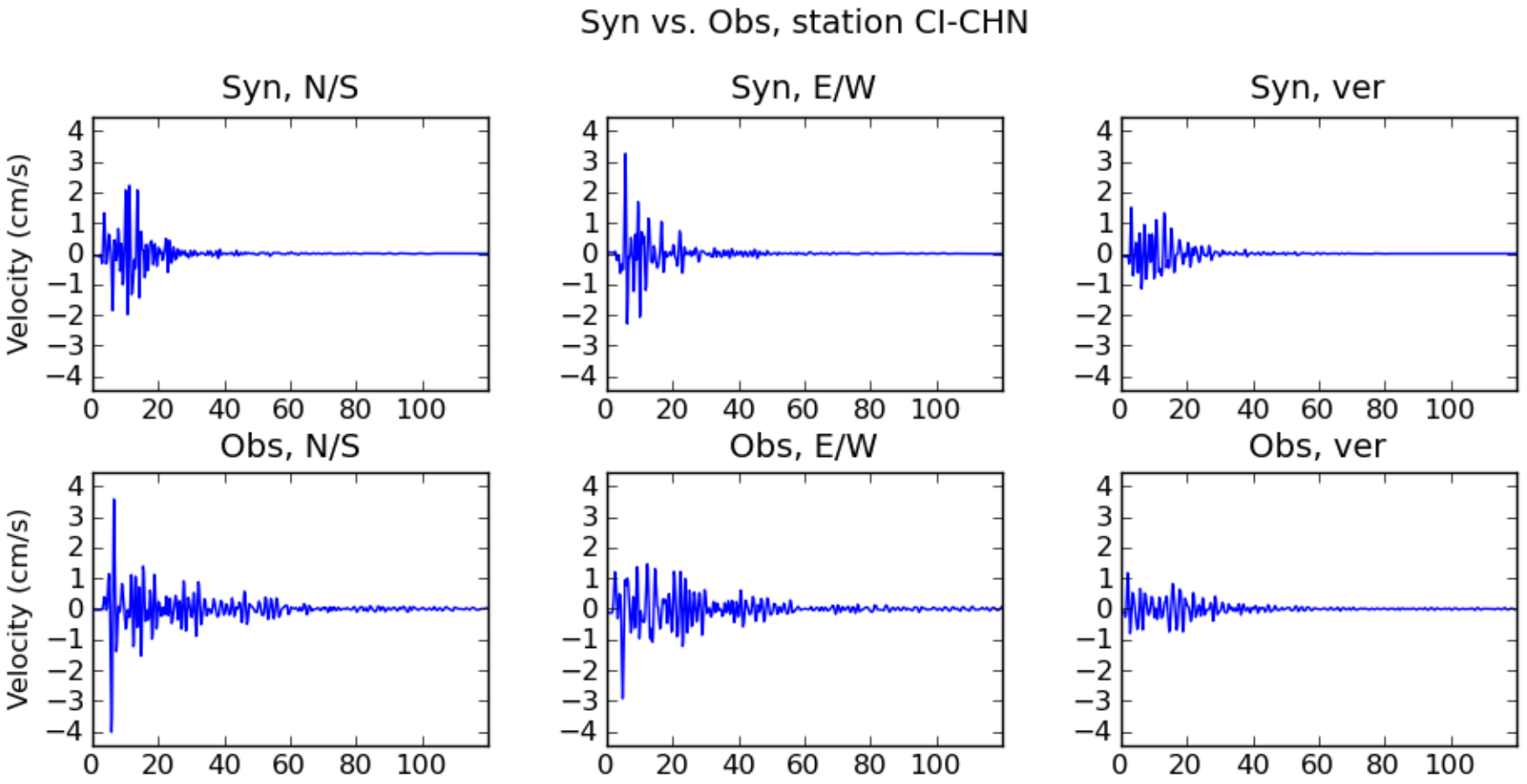

Chino Hills - CVM-H (RC), SA 2.0s Fit
Riverside
Src
Santa_Clarita
Los_Angeles
Santa_Ana
Long_Beach
Misfit: 1.52e-05 g^2 over 65 sta
Y (km)
X (km)
SA 2.0s Fit (%)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0

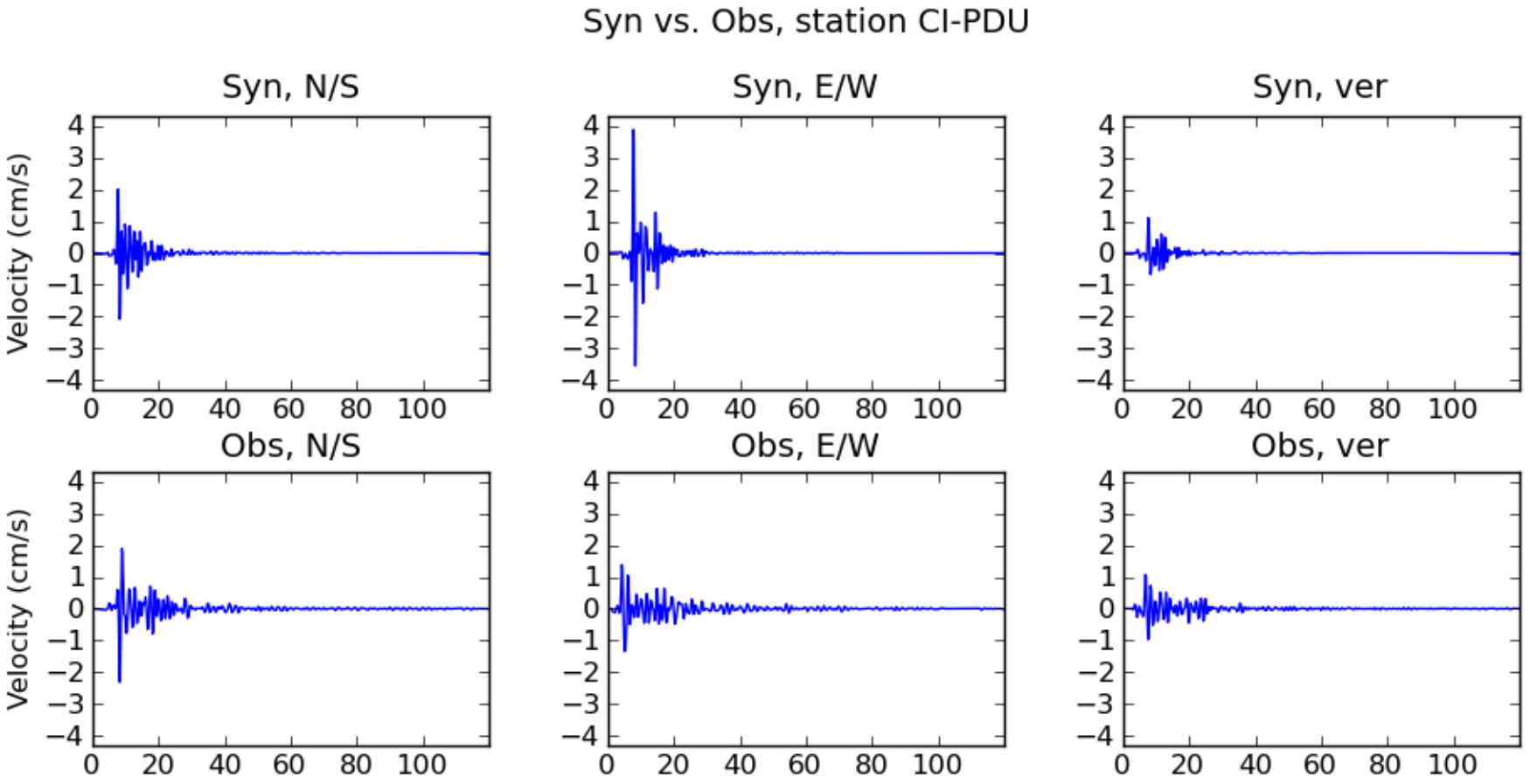

Chino Hills (Unfiltered) - CVM-H (RC), SA 2.0s Fit
Riverside
Src
Santa_Clarita
Los_Angeles
Santa_Ana
Long_Beach
Misfit: 1.50e-05 g^2 over 65 sta
Y (km)
X (km)
SA 2.0s Fit (%)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0

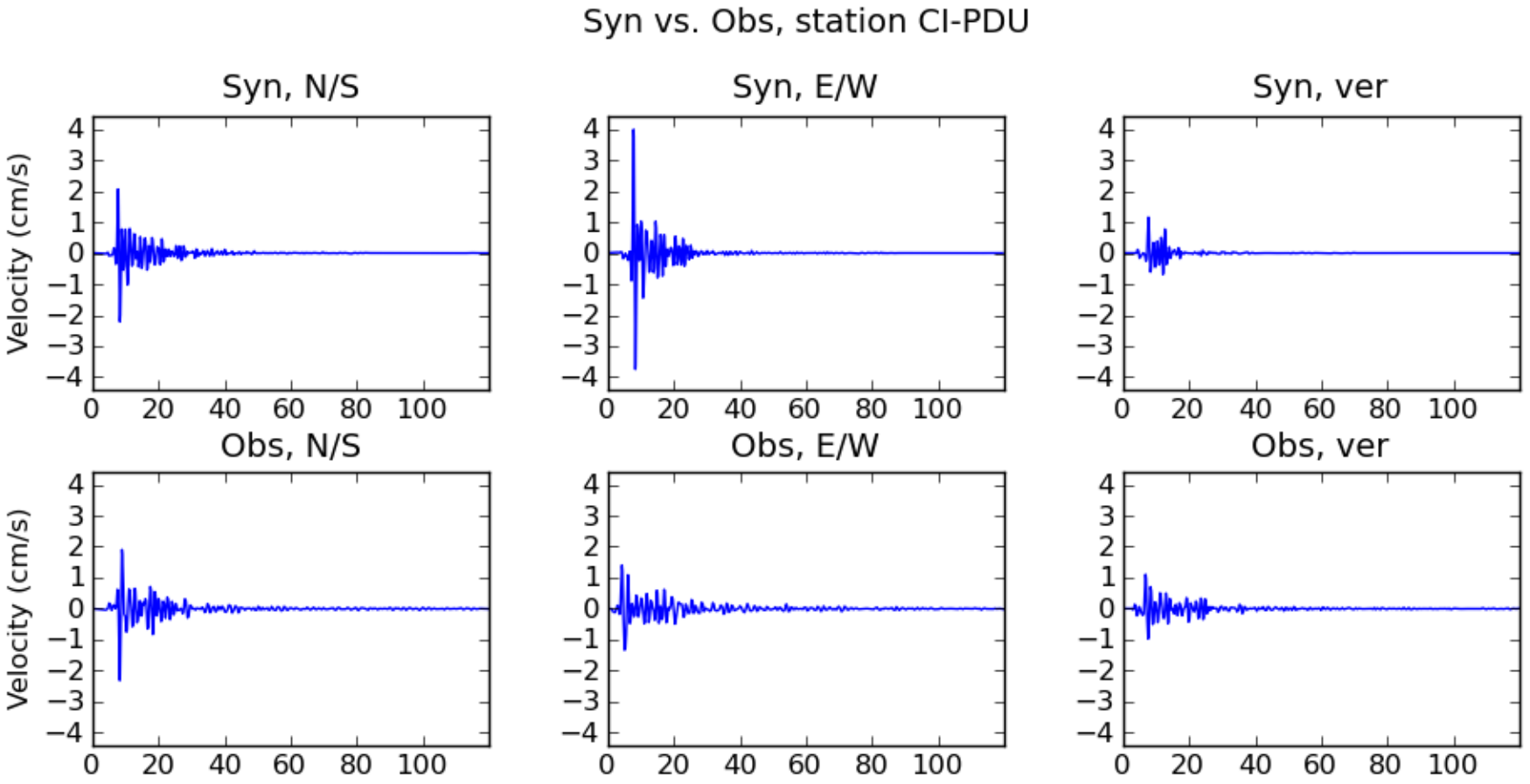
CVM-H v11.9

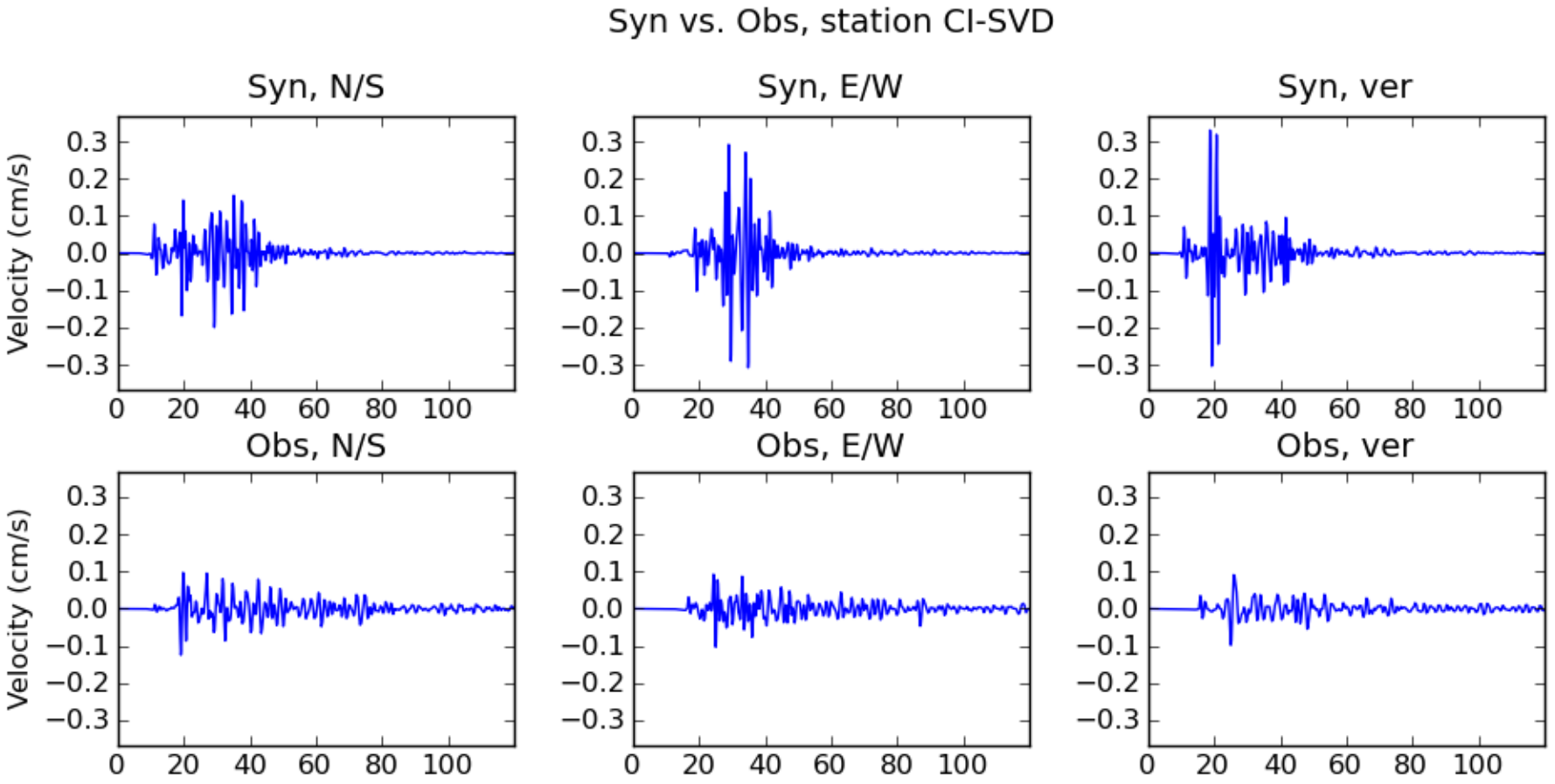

EDW2
ADO
BBR
LDR
SBB2
LUG
SBPX
SVD
5442
TA2
LPC
23732
HLN
Q00
ALP
Q0013
CFS
5480
LEV
5030
BFS
FON
CLT
VCS
RSB
RSS
TP
PDU
CHF
RVR
PER
MLS
Riverside, CA
PSR
CHN
Q0023
MWC
Q0001
CRN
Q0016
PDE
QUG
NGBR
MIKB
RIO
Q0022
Q0015
Q0014
DEC
MIK
PASC
CAC
KIK
WLT
PLS
RINB
DSN
CBC
OLI
LFP
JAB
HLL
GVR
JGB
GR2
24400
RUS
SRN
NOT
24853
FUL
LGB
OGC
DJJB
DJJ
WNS
USC
Q0011
SMV
24851
BRE
STG
Q0009
WSS
FABS
5402
Q0002
LTP
DLA
Q0003
WTT2
LBW1
SAN
SDD
OP
AGO
LCG
BHP
LBW2
LLS
5081
SMS
PDR
LAF
STS
CSLB
Q0018
KML
Q0010
SPF
Q0021
14405
Q0005
MIS
FMP
RPV
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image U.S. Geological Survey
Image County of San Bernardino
©2010 Google
Imagery Date: 3/15/2006
lat 34.619702° lon -117.969582° elev 2660 ft
Eye alt 91.17 mi

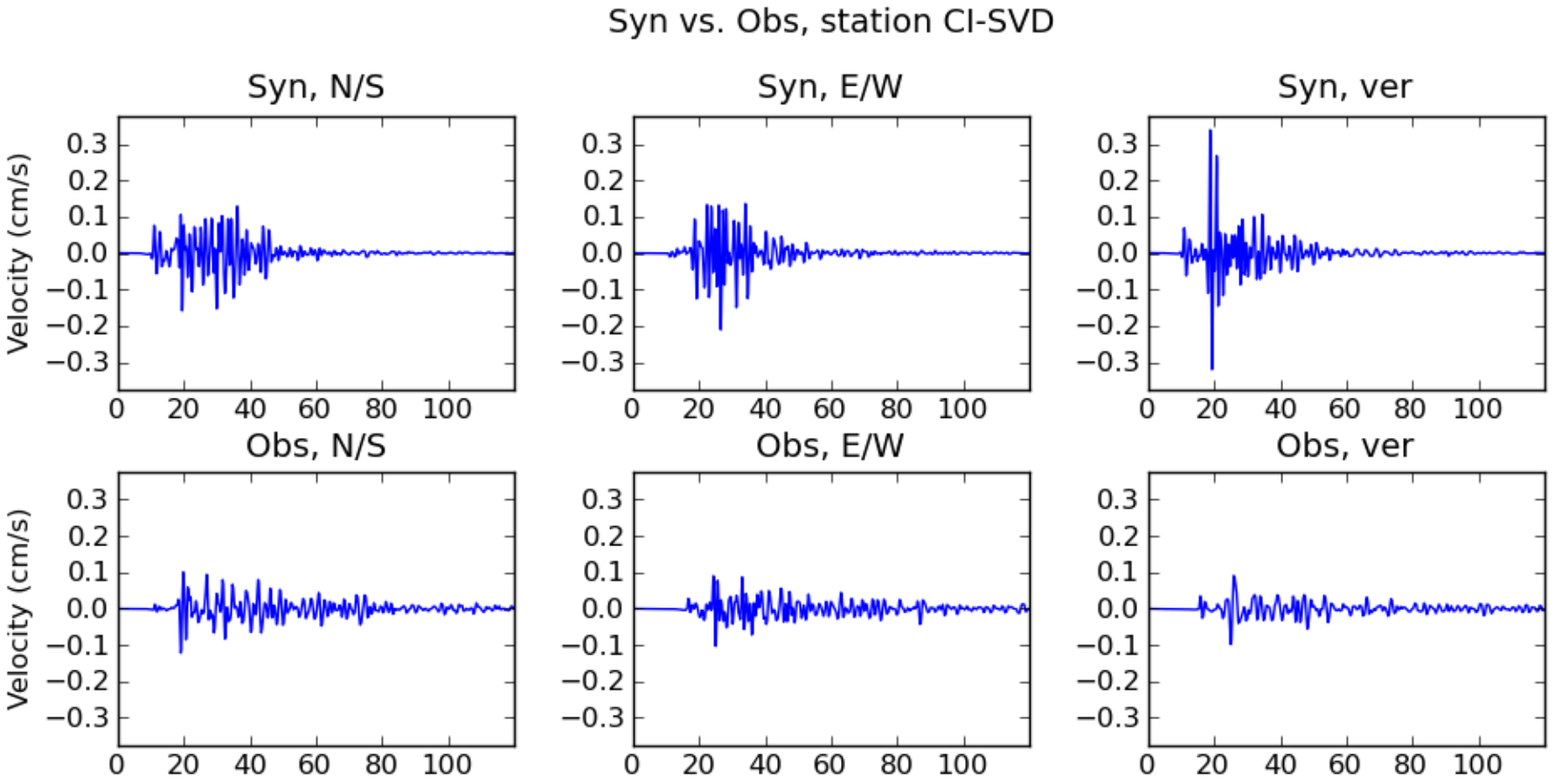

Syn vs. Obs, station CI-CHN
Syn, N/S
Syn, E/W
Syn, ver
Obs, N/S
Obs, E/W
Obs, ver
Velocity (cm/s)
Velocity (cm/s)
4
3
2
1
0
−1
−2
−3
−4
0
20
40
60
80
100

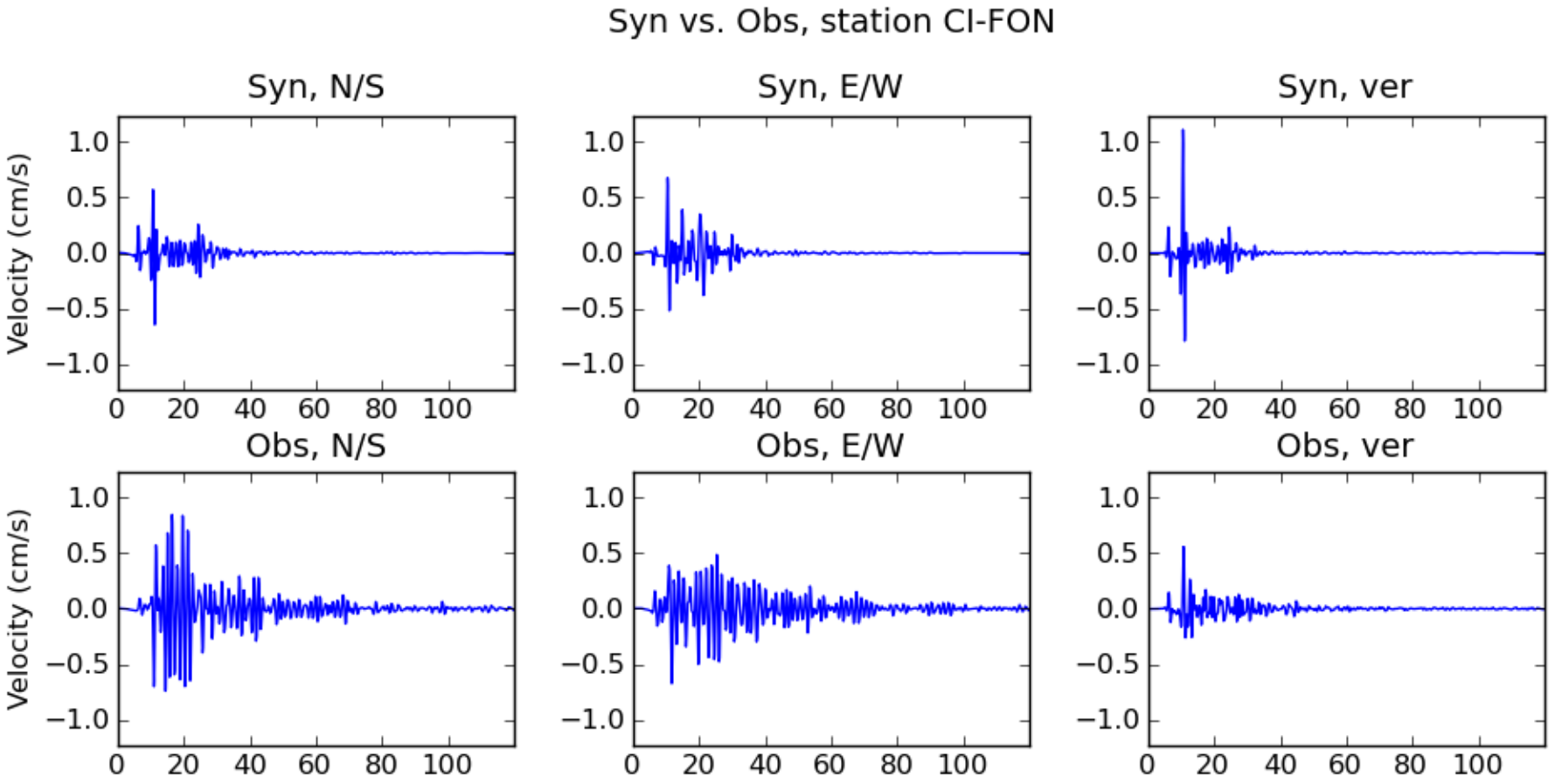

Syn vs. Obs, station CI-CHN
Syn, N/S
Syn, E/W
Syn, ver
Obs, N/S
Obs, E/W
Obs, ver
Velocity (cm/s)
Velocity (cm/s)
4
3
2
1
0
−1
−2
−3
−4
0
20
40
60
80
100

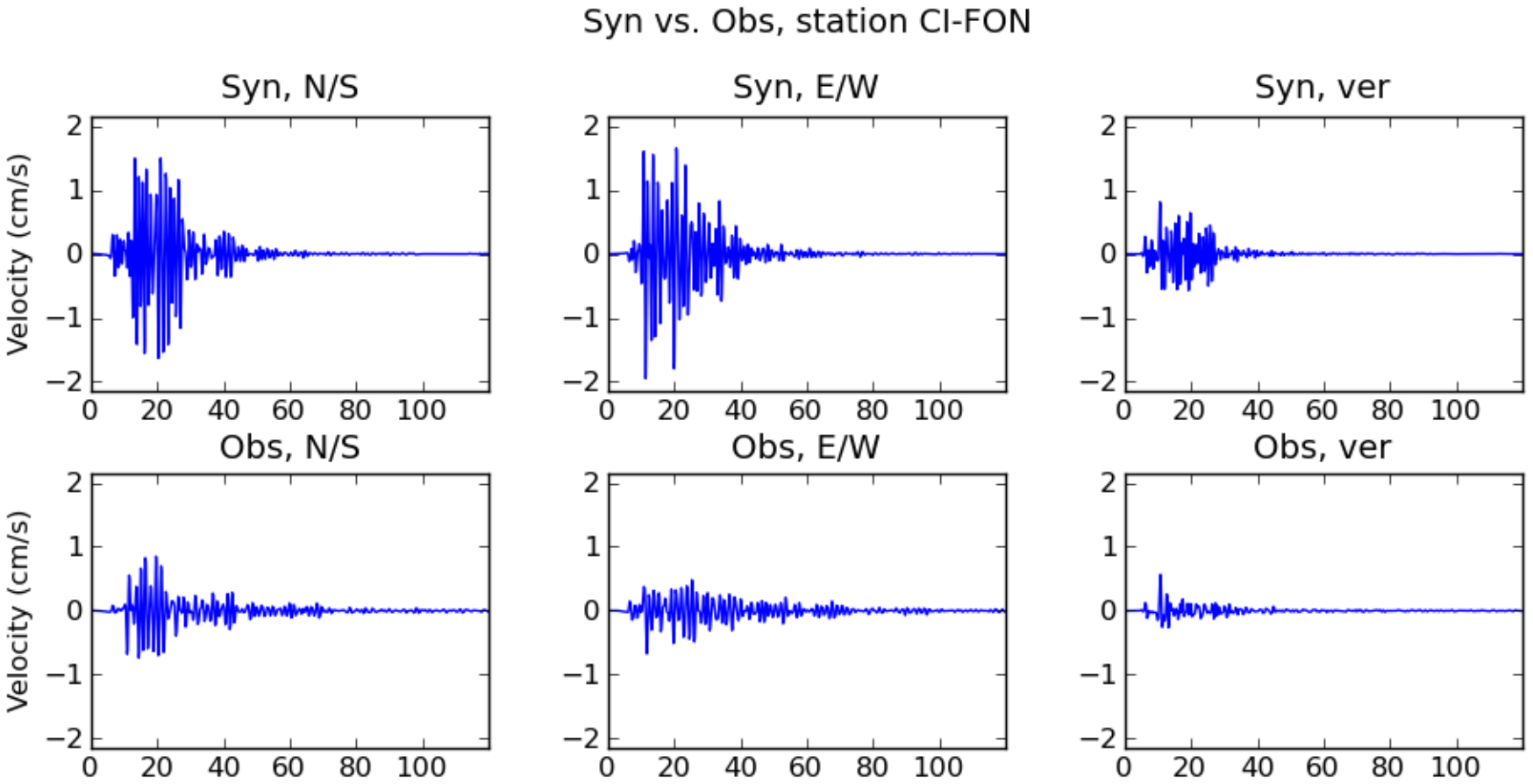

Syn vs. Obs, station CI-PDU
Syn, N/S
Syn, E/W
Syn, ver
Obs, N/S
Obs, E/W
Obs, ver
Velocity (cm/s)
Velocity (cm/s)
4
3
2
1
0
−1
−2
−3
−4
0
20
40
60
80
100

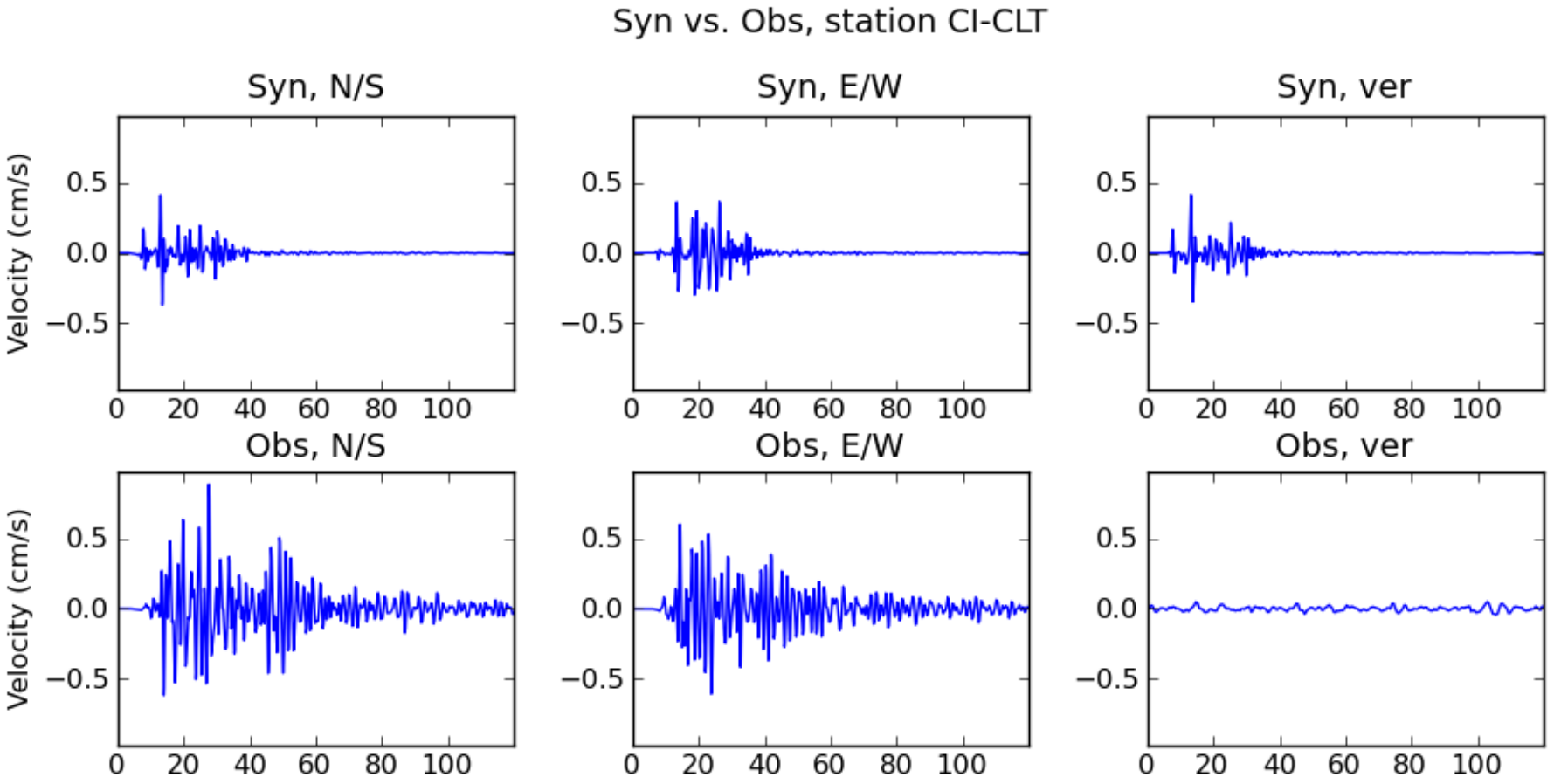

Syn vs. Obs, station CI-PDU
Syn, N/S
Syn, E/W
Syn, ver
Obs, N/S
Obs, E/W
Obs, ver
Velocity (cm/s)
Velocity (cm/s)
4
3
2
1
0
−1
−2
−3
−4
0
20
40
60
80
100

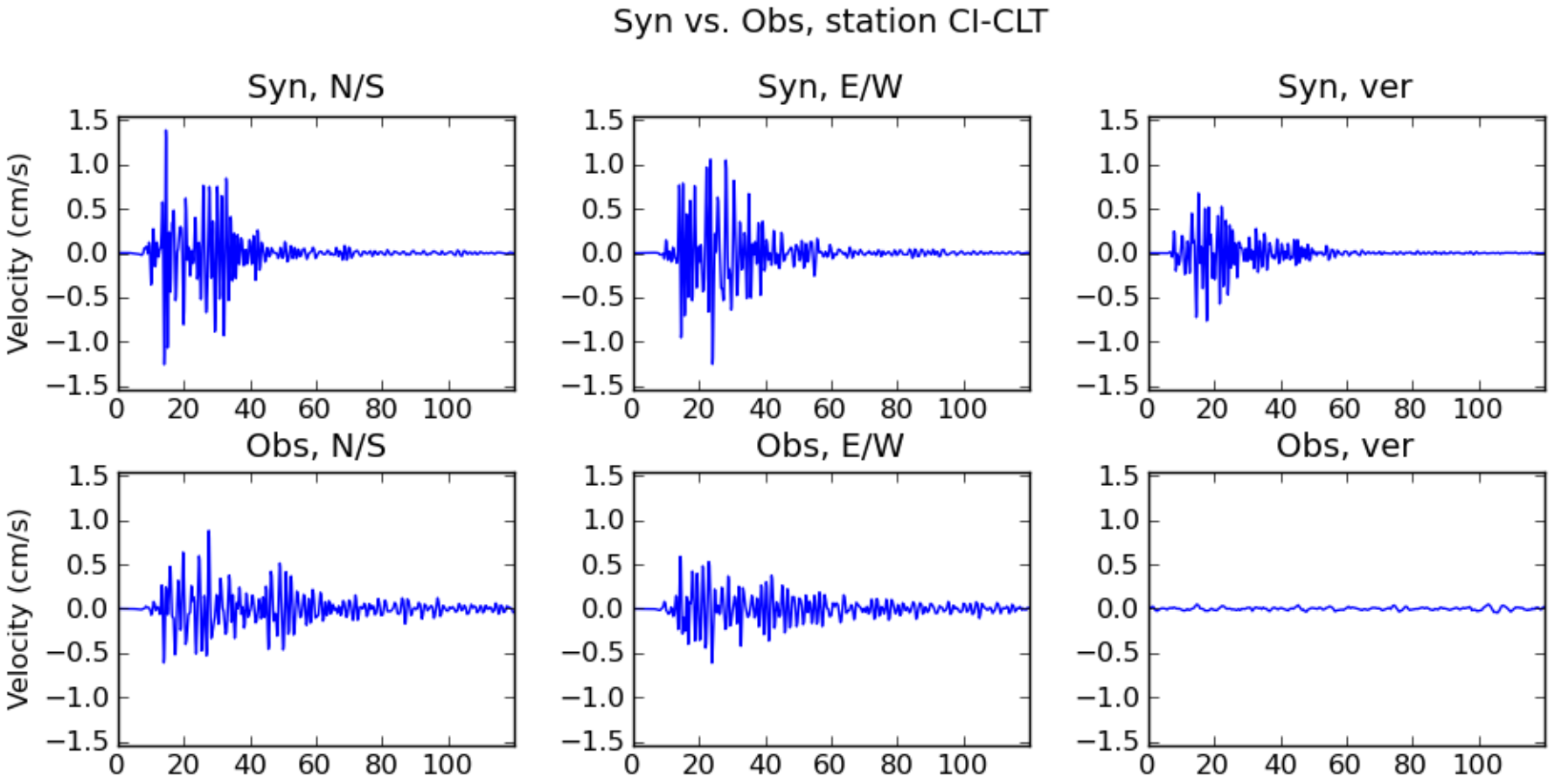

Syn vs. Obs, station CI-SVD
Syn, N/S
Syn, E/W
Syn, ver
Obs, N/S
Obs, E/W
Obs, ver
Velocity (cm/s)
Velocity (cm/s)
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
20
40
60
80
100

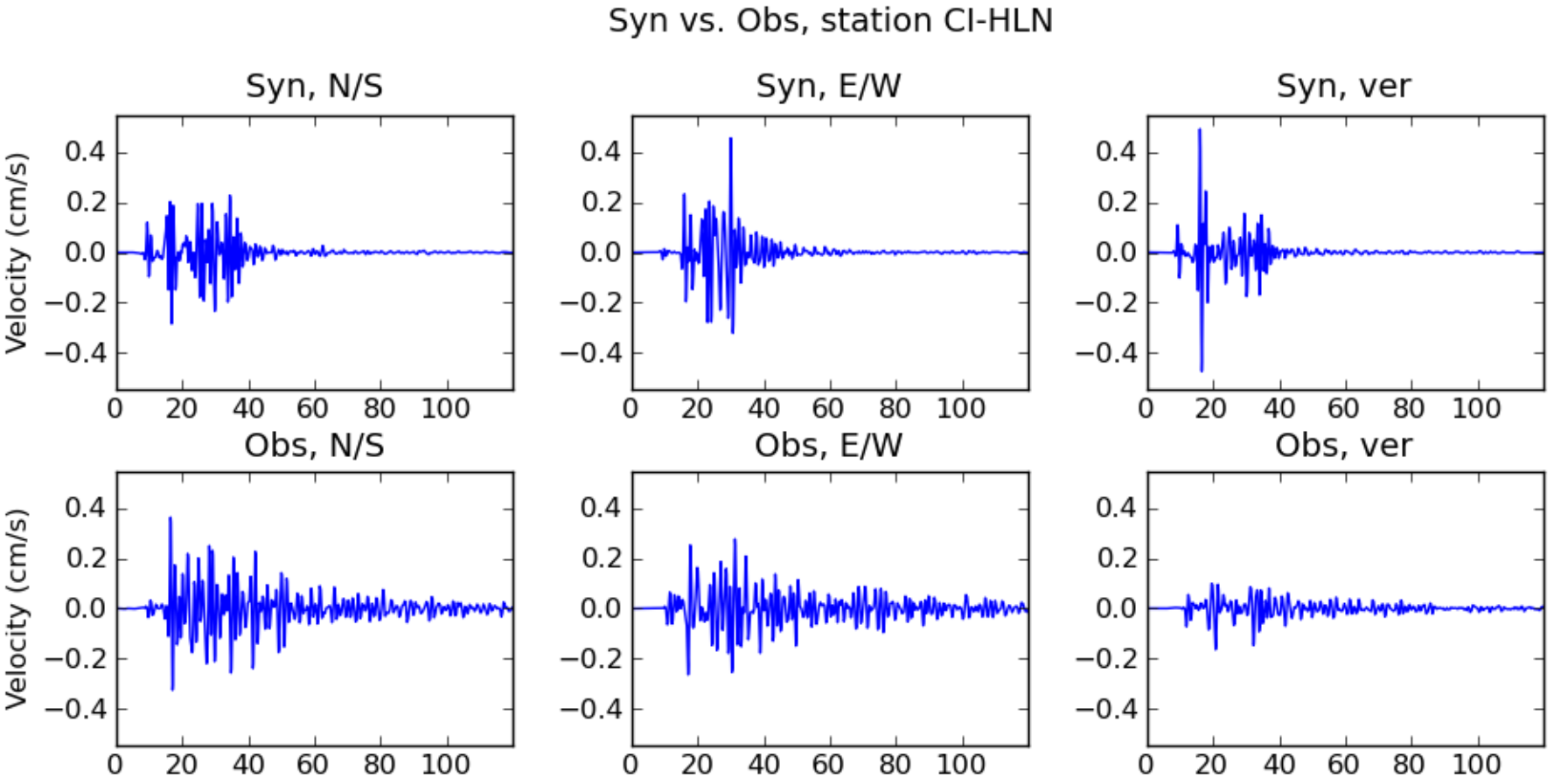

Syn vs. Obs, station CI-SVD
Syn, N/S
Syn, E/W
Syn, ver
Obs, N/S
Obs, E/W
Obs, ver
Velocity (cm/s)
Velocity (cm/s)
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
20
40
60
80
100

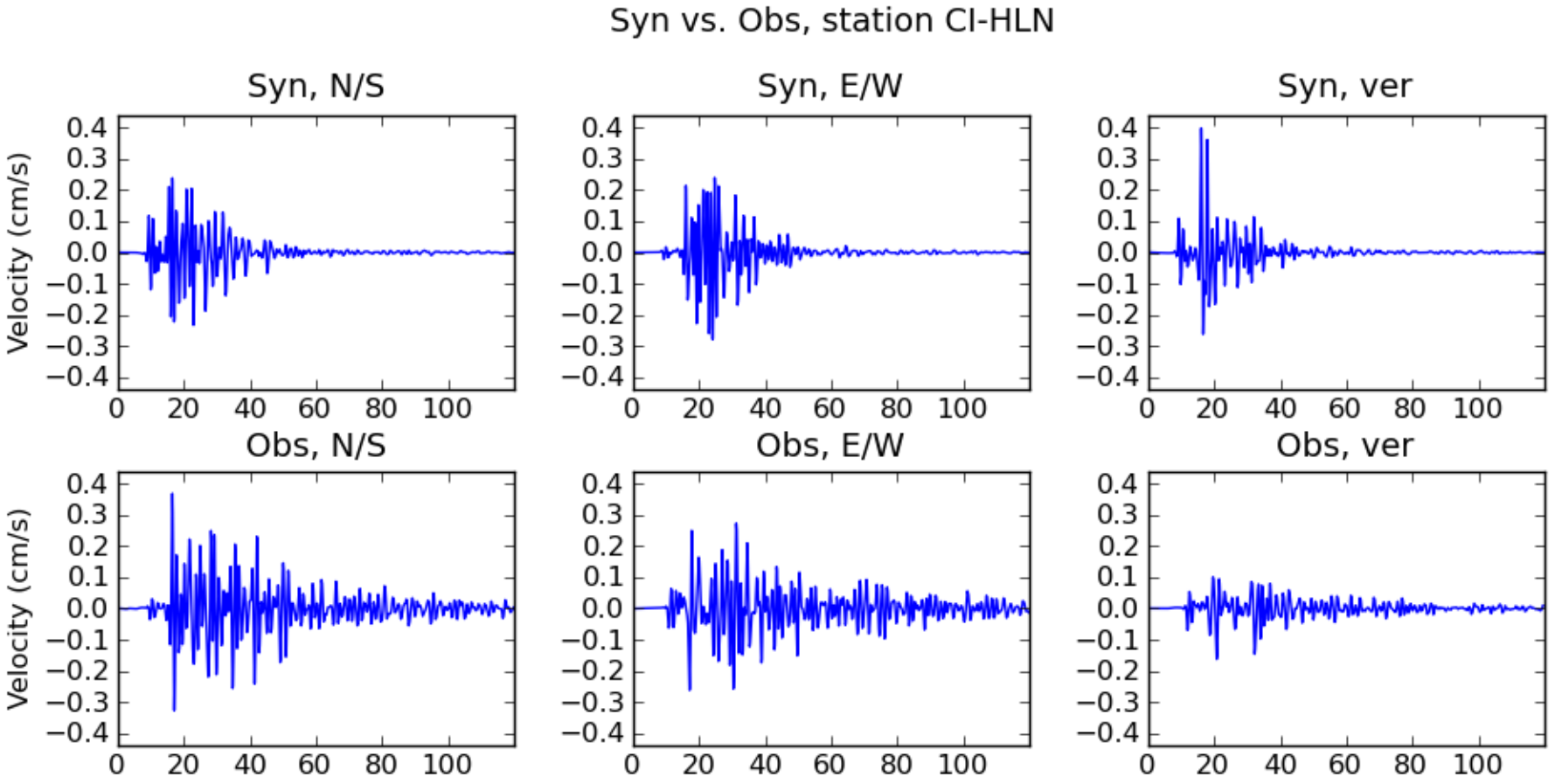

Syn vs. Obs, station CI-FON
Syn, N/S
Syn, E/W
Syn, ver
Obs, N/S
Obs, E/W
Obs, ver
Velocity (cm/s)
Velocity (cm/s)
1.0
0.5
0.0
−0.5
−1.0
0
20
40
60
80
100


Syn vs. Obs, station CI-FON
Syn, N/S
Syn, E/W
Syn, ver
Obs, N/S
Obs, E/W
Obs, ver
Velocity (cm/s)
Velocity (cm/s)
2
1
0
−1
−2
0
20
40
60
80
100

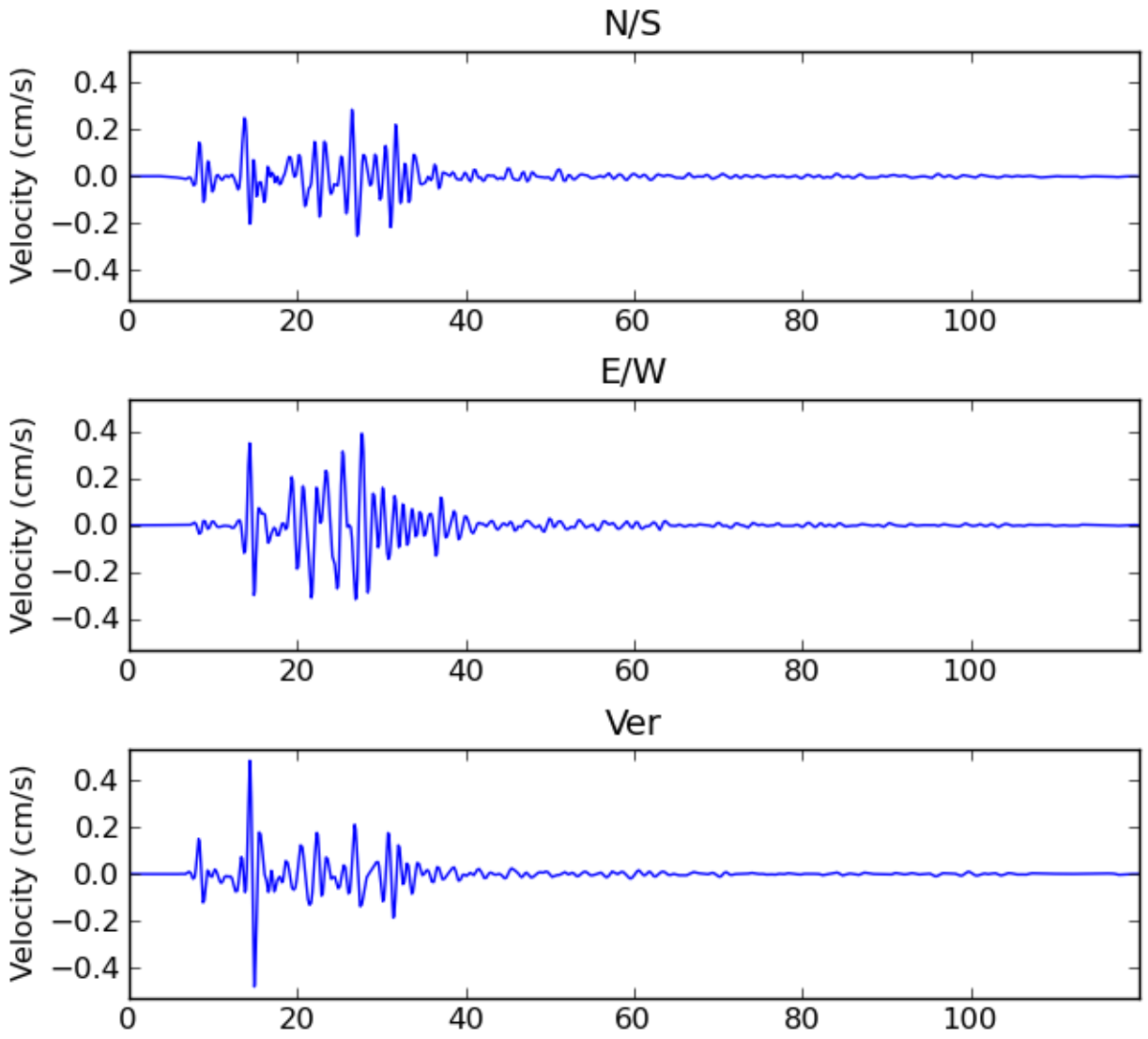

Syn vs. Obs, station CI-CLT
Syn, N/S
Syn, E/W
Syn, ver
Obs, N/S
Obs, E/W
Obs, ver
Velocity (cm/s)
Velocity (cm/s)
0.5
0.0
−0.5
0
20
40
60
80
100


Syn vs. Obs, station CI-CLT
Syn, N/S
Syn, E/W
Syn, ver
Obs, N/S
Obs, E/W
Obs, ver
Velocity (cm/s)
Velocity (cm/s)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
0
20
40
60
80
100

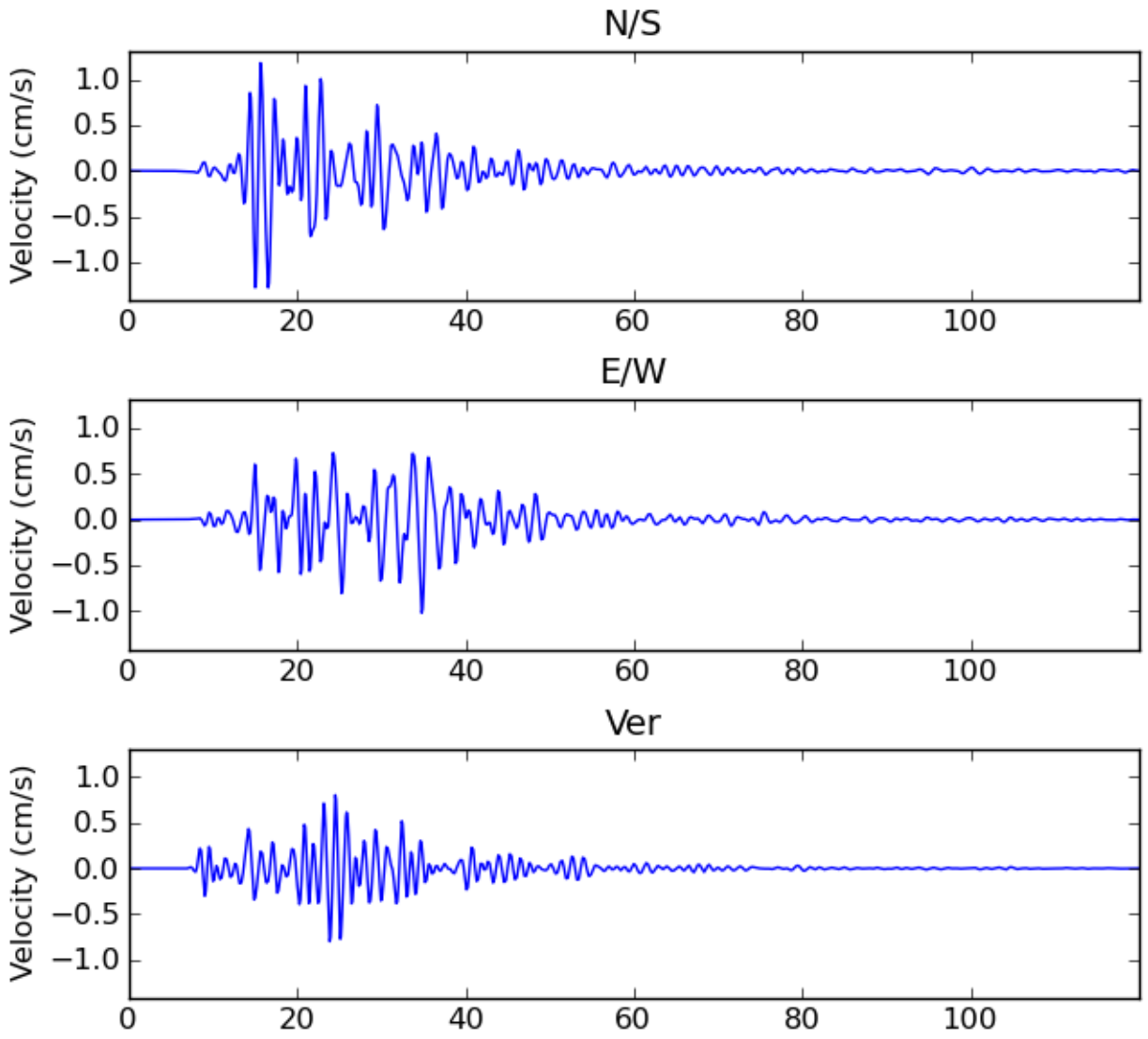

Syn vs. Obs, station CI-HLN
Syn, N/S
Syn, E/W
Syn, ver
Obs, N/S
Obs, E/W
Obs, ver
Velocity (cm/s)
Velocity (cm/s)
0.4
0.2
0.0
−0.2
−0.4
0
20
40
60
80
100


Syn vs. Obs, station CI-HLN
Syn, N/S
Syn, E/W
Syn, ver
Obs, N/S
Obs, E/W
Obs, ver
Velocity (cm/s)
Velocity (cm/s)
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
20
40
60
80
100

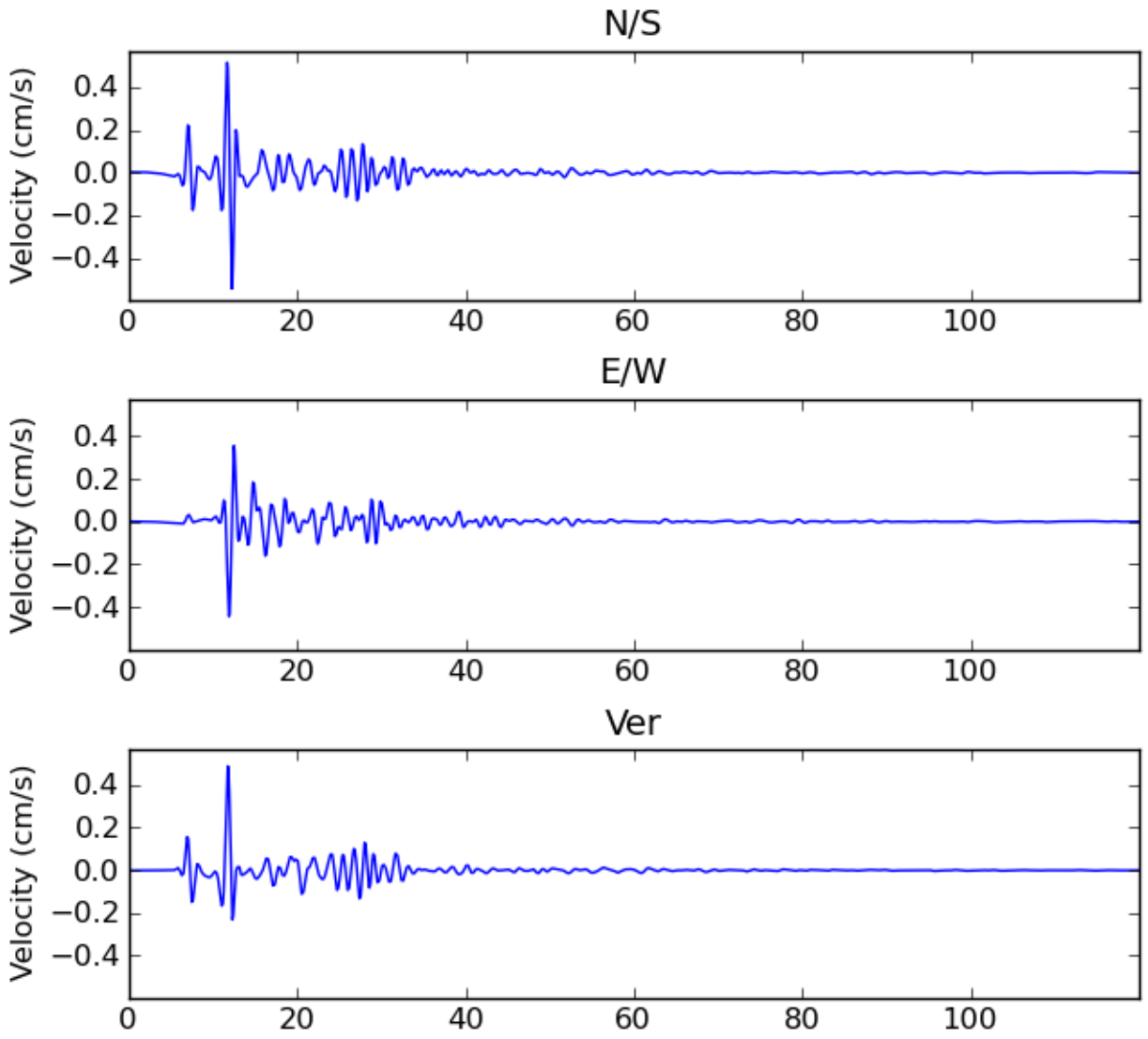
CVM-H v11.2


Seimograms for run 0, station CI-CFS
N/S
E/W
Ver
Velocity (cm/s)
0.4
0.2
0.0
−0.2
−0.4
0
20
40
60
80
100

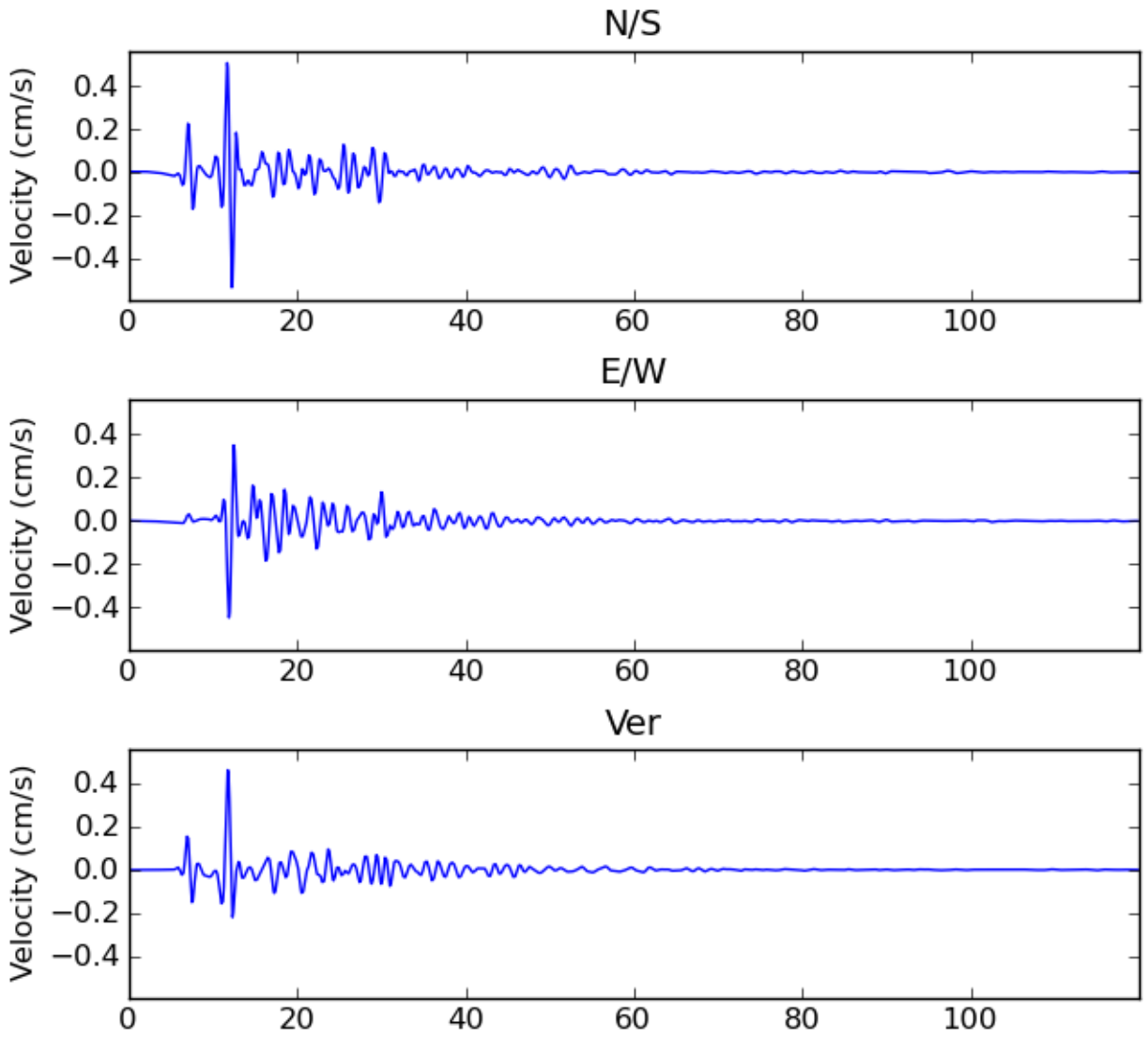
CVM-H v11.9


Seimograms for run 0, station CI-CFS
N/S
E/W
Ver
Velocity (cm/s)
1.0
0.5
0.0
−0.5
−1.0
0
20
40
60
80
100

CVM-H v11.2


Seimograms for run 0, station CI-RSB
N/S
E/W
Ver
Velocity (cm/s)
0.4
0.2
0.0
−0.2
−0.4
0
20
40
60
80
100

CVM-H v11.9


Seimograms for run 0, station CI-RSB
N/S
E/W
Ver
Velocity (cm/s)
0.4
0.2
0.0
−0.2
−0.4
0
20
40
60
80
100