

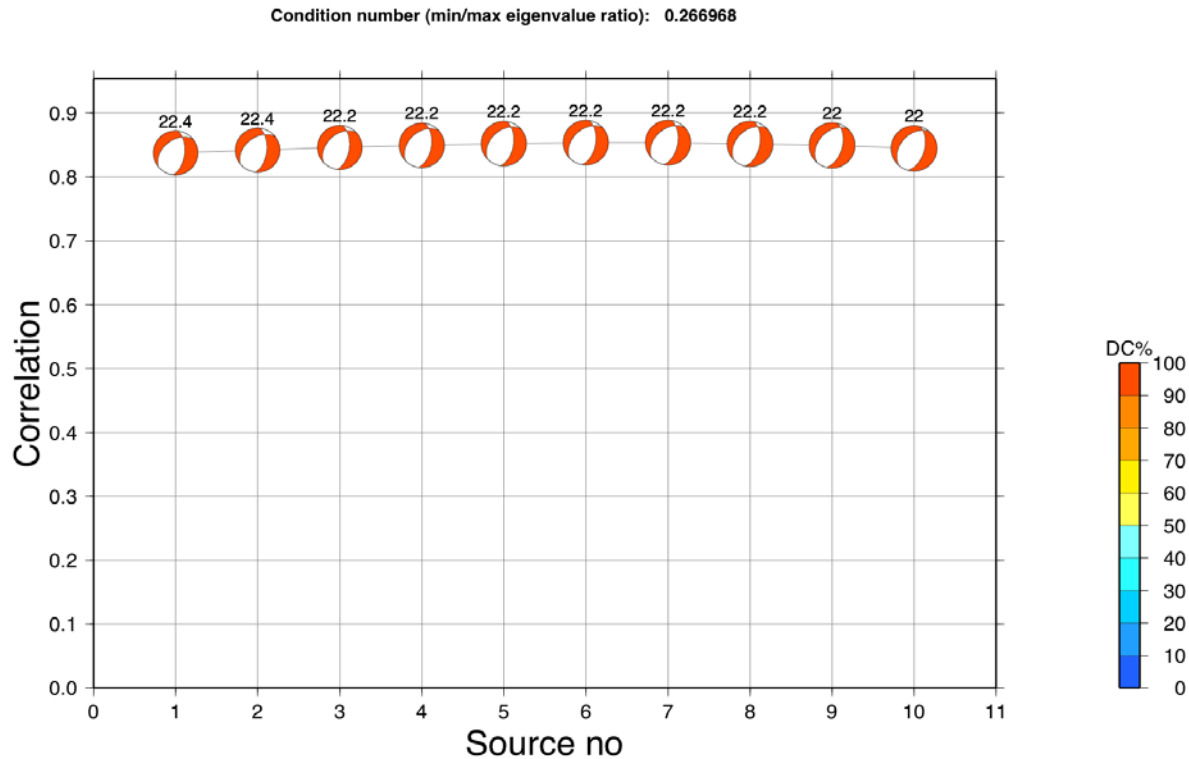
Waveform inversion for moment tensors and (multiple) point-source models

Jaco, CR 09 setiembre de 2011.

Datos:

yyyymmdd	hhmmsec	Lat.	Long.	Prof .	M_D
<i>20041207</i>	<i>081515,2</i>	<i>9,11</i>	<i>84,178</i>	<i>21,0</i>	<i>4,5</i>

RESULTADOS: mecanismo focal y correlación

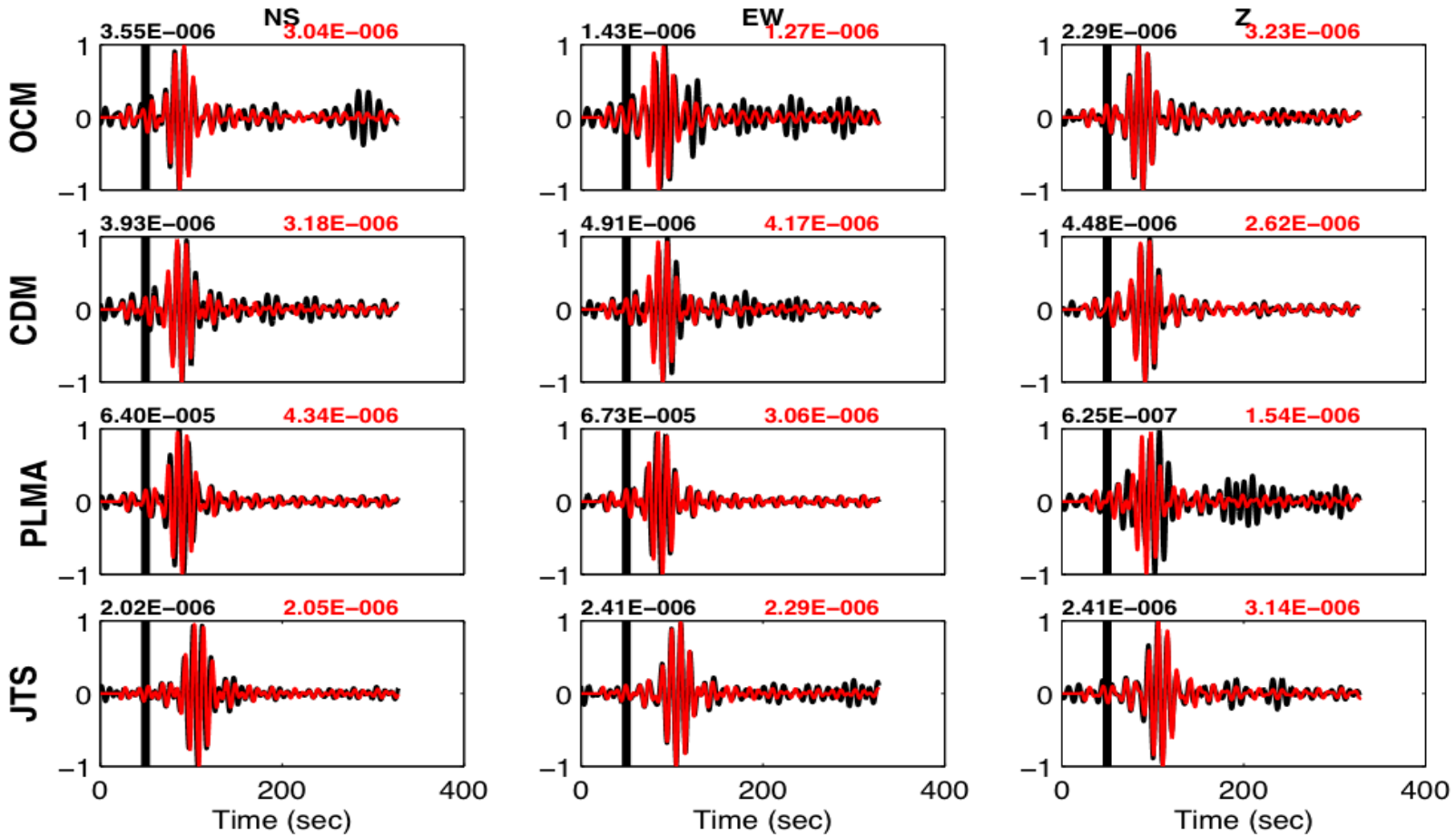
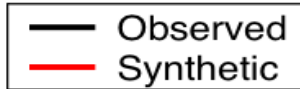


10 profundidades, comenzando en 13 km (source 1) y terminando en 22 km (source 10), 1 km de espaciamento.

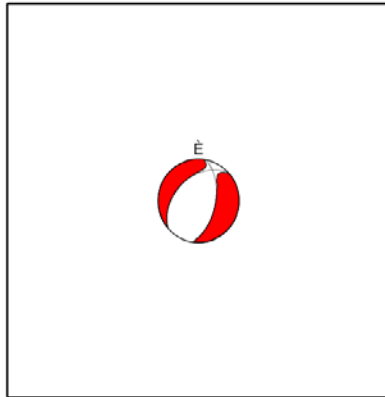
A mayor correlación fuente número 6, que corresponde a 18 km, profundidad del centroide. Porcentaje DC é alta, 91,2%, indicando una fuente sísmica simple, con ruptura singular.

RESULTADOS

Displacement (m). Inversion band (Hz) 0.08 0.08 0.12 0.12



RESULTADOS



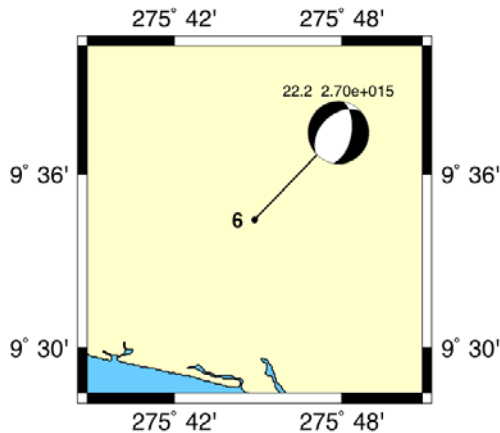
MOMENT TENSOR SOLUTION

Trial source number : 6
 Source Depth (km) : 18
 Source time shift : 22.2
 Moment (N.m) : 2.705e+015
 Mw : 4.3

	Mrr	Mtt	Mpp
	-22.714	3.046	19.668
	Mrt	Mrp	Mtp
	4.290	-9.219	13.118

DC% : 91.2
 CLVD% : 8.8
 Exponent (Nm): 14
 Variance red.: 0.0591 % 5.91

Strike	Dip	Rake
10	55	-114
Strike	Dip	Rake
228	42	-59



$$M_0 = \mu A d = \mu L W d$$

$$M_w = 2/3 \log (M_0) - 10.7$$



Pacheco *et al.*,
2006.