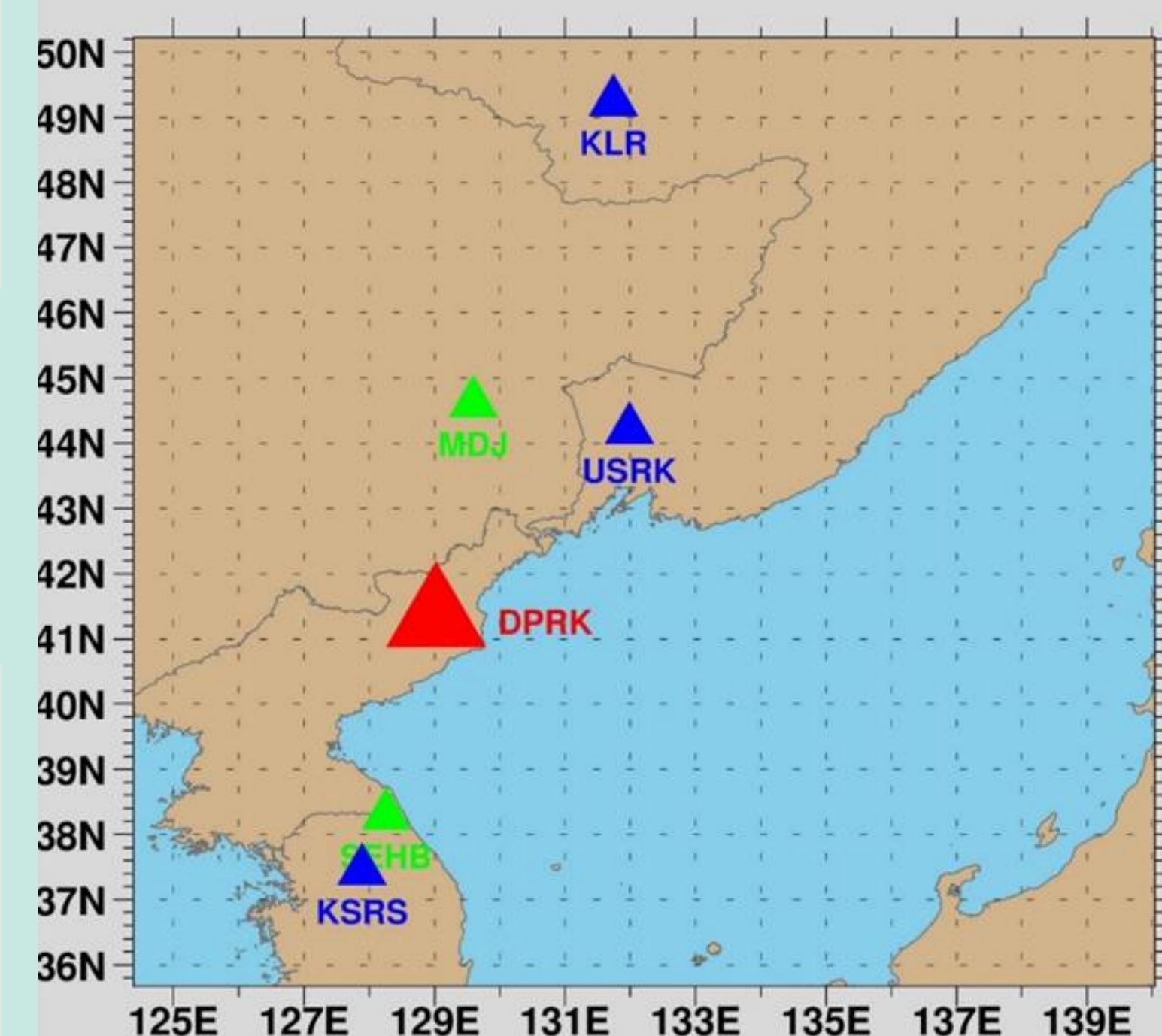


SEISMIC EVENTS AT THE DPRK TEST SITE

DPRK UNDERGROUND TEST

Event	Lat, deg	Lon, deg	ndef	mb (IDC)	Ms (IDC)	ML(IDC)
DPRK1	41.312	129.02	22	4.08		3.89
DPRK2	41.311	129.05	72	4.51	3.56	4.27
DPRK3	41.301	129.07	110	4.92	3.95	4.52
DPRK4	41.304	129.05	102	4.82	3.92	4.61
DPRK5	41.299	129.05	120	5.09	4.17	4.29
DPRK6	41.32	129.03	189	6.07	4.91	5.17

Regional network:
IMS: KSRS and USRK
non-IMS: MDJ and SEHB



EARLY DPRK AFTERSHOCKS FOUND WITH EXPLOSION TEMPLATES

Aftershock	SEL3	LEB	REB	Date	Time	m _b
1	-	+	-	11.09.2016	1:50:49.86	-
2	+	+	+	3.09.2017	3:38:31.88	4.12
3	-	+	-	23.09.2017	4:42:59.95	-
4	+	+	+	23.09.2017	8:29:16.29	3.40
5	-	+	-	12.10.2017	16:41:8.11	-

HIGHEST KSRS SNR_{CC}

Station	SNR _{CC}
20173048	11.111111
20173049	11.111111
20173050	11.111111
20173051	11.111111
20173052	11.111111
20173053	11.111111
20173054	11.111111
20173055	11.111111
20173056	11.111111
20173057	11.111111
20173058	11.111111
20173059	11.111111
20173060	11.111111
20173061	11.111111
20173062	11.111111
20173063	11.111111
20173064	11.111111
20173065	11.111111
20173066	11.111111
20173067	11.111111
20173068	11.111111
20173069	11.111111
20173070	11.111111
20173071	11.111111
20173072	11.111111
20173073	11.111111
20173074	11.111111
20173075	11.111111
20173076	11.111111
20173077	11.111111
20173078	11.111111
20173079	11.111111
20173080	11.111111
20173081	11.111111
20173082	11.111111
20173083	11.111111
20173084	11.111111
20173085	11.111111
20173086	11.111111
20173087	11.111111
20173088	11.111111
20173089	11.111111
20173090	11.111111
20173091	11.111111
20173092	11.111111
20173093	11.111111
20173094	11.111111
20173095	11.111111
20173096	11.111111
20173097	11.111111
20173098	11.111111
20173099	11.111111
20173100	11.111111
20173101	11.111111
20173102	11.111111
20173103	11.111111
20173104	11.111111
20173105	11.111111
20173106	11.111111
20173107	11.111111
20173108	11.111111
20173109	11.111111
20173110	11.111111
20173111	11.111111
20173112	11.111111
20173113	11.111111
20173114	11.111111
20173115	11.111111
20173116	11.111111
20173117	11.111111
20173118	11.111111
20173119	11.111111
20173120	11.111111
20173121	11.111111
20173122	11.111111
20173123	11.111111
20173124	11.111111
20173125	11.111111
20173126	11.111111
20173127	11.111111
20173128	11.111111
20173129	11.111111
20173130	11.111111
20173131	11.111111
20173132	11.111111
20173133	11.111111
20173134	11.111111
20173135	11.111111
20173136	11.111111
20173137	11.111111
20173138	11.111111
20173139	11.111111
20173140	11.111111
20173141	11.111111
20173142	11.111111
20173143	11.111111
20173144	11.111111
20173145	11.111111
20173146	11.111111
20173147	11.111111
20173148	11.111111
20173149	11.111111
20173150	11.111111
20173151	11.111111
20173152	11.111111
20173153	11.111111
20173154	11.111111
20173155	11.111111
20173156	11.111111
20173157	11.111111
20173158	11.111111
20173159	11.111111
20173160	11.111111
20173161	11.111111
20173162	11.111111
20173163	11.111111
20173164	11.111111
20173165	11.111111
20173166	11.111111
20173167	11.111111
20173168	11.111111
20173169	11.111111
20173170	11.111111
20173171	11.111111
20173172	11.111111
20173173	11.111111
20173174	11.111111
20173175	11.111111
20173176	11.111111
20173177	11.111111
20173178	11.111111
20173179	11.111111
20173180	11.111111
20173181	11.111111
20173182	11.111111
20173183	11.111111
20173184	11.111111
20173185	11.111111
20173186	11.111111
20173187	11.111111
20173188	11.111111
20173189	11.111111
20173190	11.111111
20173191	11.111111
20173192	11.111111
20173193	11.111111
20173194	11.111111
20173195	11.111111
20173196	11.111111
20173197	11.111111
20173198	11.111111
20173199	11.111111
20173200	11.111111

HIGHEST USRK SNR_{CC}

Station	SNR _{CC}
20173048	11.111111
20173049	11.111111
20173050	11.111111
20173051	11.111111
20173052	11.111111
20173053	11.111111
20173054	11.111111
20173055	11.111111
20173056	11.111111
20173057	11.111111
20173058	11.111111
20173059	11.111111
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20173062	11.111111
20173063	11.111111
20173064	11.111111
20173065	11.111111
20173066	11.111111
20173067	11.111111
20173068	11.111111
20173069	11.111111
20173070	11.111111
20173071	11.111111
20173072	11.111111
20173073	11.111111
20173074	11.111111
20173075	11.111111
20173076	11.111111
20173077	11.111111
20173078	11.111111
20173079	11.111111
20173080	11.111111
20173081	11.111111
20173082	11.111111
20173083	11.111111
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20173087	11.111111
20173088	11.111111
20173089	11.111111
20173090	11.111111
20173091	11.111111
20173092	11.111111
20173093	11.111111
20173094	11.111111
20173095	11.111111
20173096	11.111111
20173097	11.111111
20173098	11.111111
20173099	11.111111
20173100	11.111111
20173101	11.111111
20173102	11.111111
20173103	11.111111
20173104	11.111111
20173105	11.111111
20173106	11.111111
20173107	11.111111
20173108	11.111111
20173109	11.111111
20173110	11.111111
20173111	11.111111
20173112	11.111111
20173113	11.111111
20173114	11.111111
20173115	11.111111
20173116	11.111111
20173117	11.111111
20173118	11.111111
20173119	11.111111
20173120	11.111111
20173121	11.111111
20173122	11.111111
20173123	11.111111
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20173125	11.111111
20173126	11.111111
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20173142	11.111111
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20173193	11.111111
20173194	11.111111
20173195	11.111111
20173196	11.111111
20173197	11.111111
20173198	11.111111
20173199	11.111111
20173200	11.111111

23 WELL MEASURED DPRK5 and DPRK6 AFTERSHOCKS: IDC ESTIMATES USING WAVEFORM CROSS CORRELATION

Date	Time	mb (Lg-scaled)	IDC LEB origin ID
September 11, 2016 (A_SHOCK1)	1:50:48AM	2.83	13558133
September 3, 2017 (A_SHOCK2)	3:38:31AM	4.11	14807656
September 3, 2017 (A_SHOCK3)	9:31:28AM	2.59	
September 23, 2017 (A_SHOCK4)	4:42:58AM	3.08	14892975
September 23, 2017 (A_SHOCK5)	8:29:14AM	3.74	14892904
October 12, 2017 (A_SHOCK6)	4:41:06PM	3.33	14968848
October 31, 2017	10:20:13AM	2.51	
December 1, 2017	10:45:54PM	2.91	
December 5, 2017	2:40:52PM	3.14	15176138
December 6, 2017			