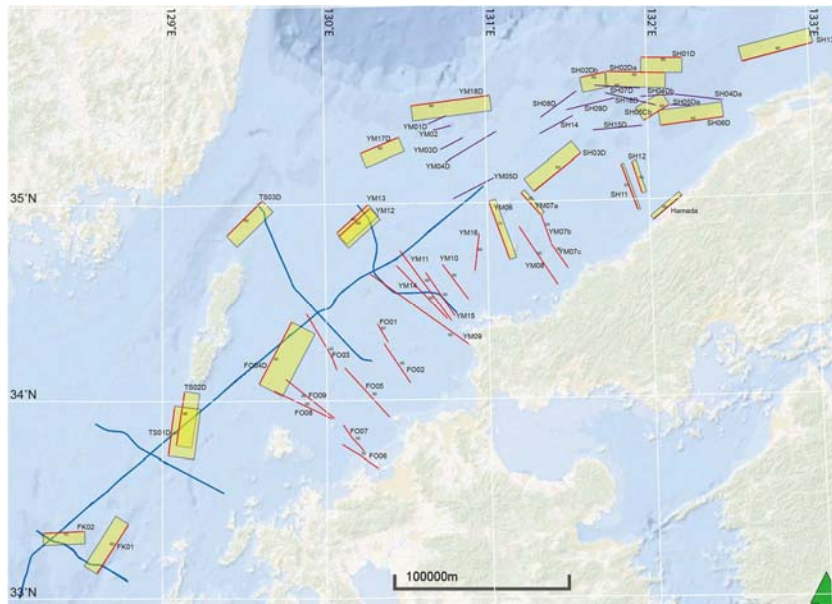


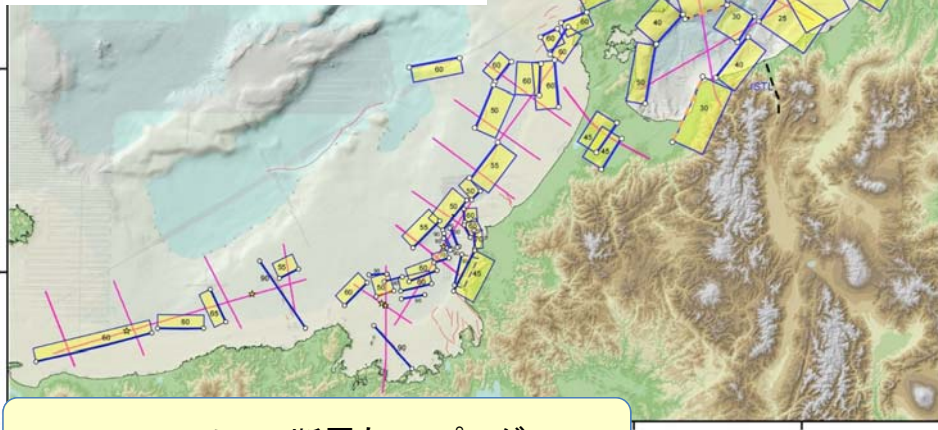
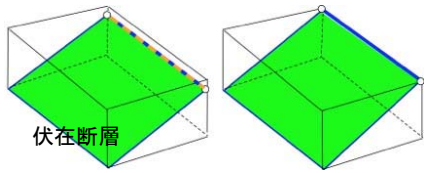
2-5-1 断層モデルの構築



東京大学地震研究所

新潟～山陰沖の震源断層の矩形モデル

反射法地震探査断面と既存資料により矩形モデルを作成



40 km以下の断層もマッピング

断層モデルパラメータ表

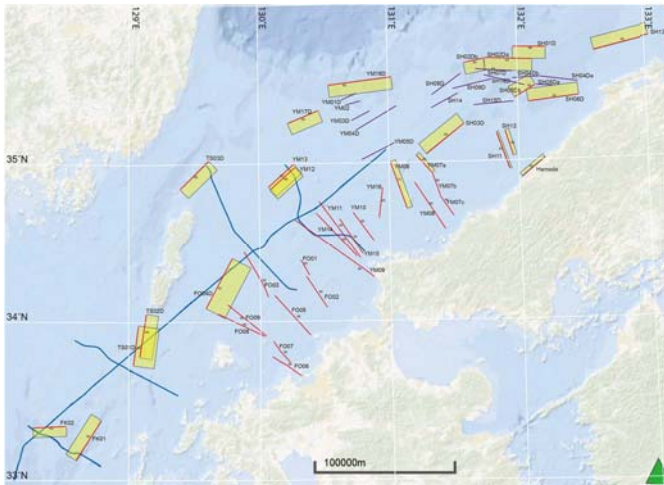
番号	東端 (km)	西端 (km)	北端 (km)	南端 (km)	深さ (km)	走向 (度)	傾斜 (度)	断層長さ (km)	断層幅 (km)	断層面積 (km ²)	断層深さ (km)	断層傾斜 (度)	断層長さ (km)	断層幅 (km)	断層面積 (km ²)
NS1	136.282	136.242	35.149	35.240	0.5	180	45	261	243	30	42	18			
NS2	136.111	136.071	35.050	35.141	0.6	180	45	219	203	30	78	18			
NS3	136.088	136.128	35.195	35.286	0.6	180	45	219	203	30	84	18			
NS4	136.200	136.260	35.267	35.358	0.6	180	45	261	243	30	81	18			
NS5	136.278	136.338	35.311	35.402	0.6	180	45	261	243	30	81	18			
NS6	136.178	136.238	35.269	35.360	0.6	180	45	219	203	30	78	18			
NS7	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS8	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS9	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS10	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS11	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS12	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS13	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS14	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS15	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS16	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS17	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS18	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS19	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS20	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS21	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS22	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS23	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS24	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS25	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS26	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS27	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS28	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS29	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			
NS30	136.282	136.342	35.294	35.385	0.6	180	45	261	243	30	81	18			

津波波高・強震動計算

山陰～北九州沖の震源断層の矩形モデル

反射法地震探査断面と既存資料により矩形モデルを作成

断層モデルパラメータ表

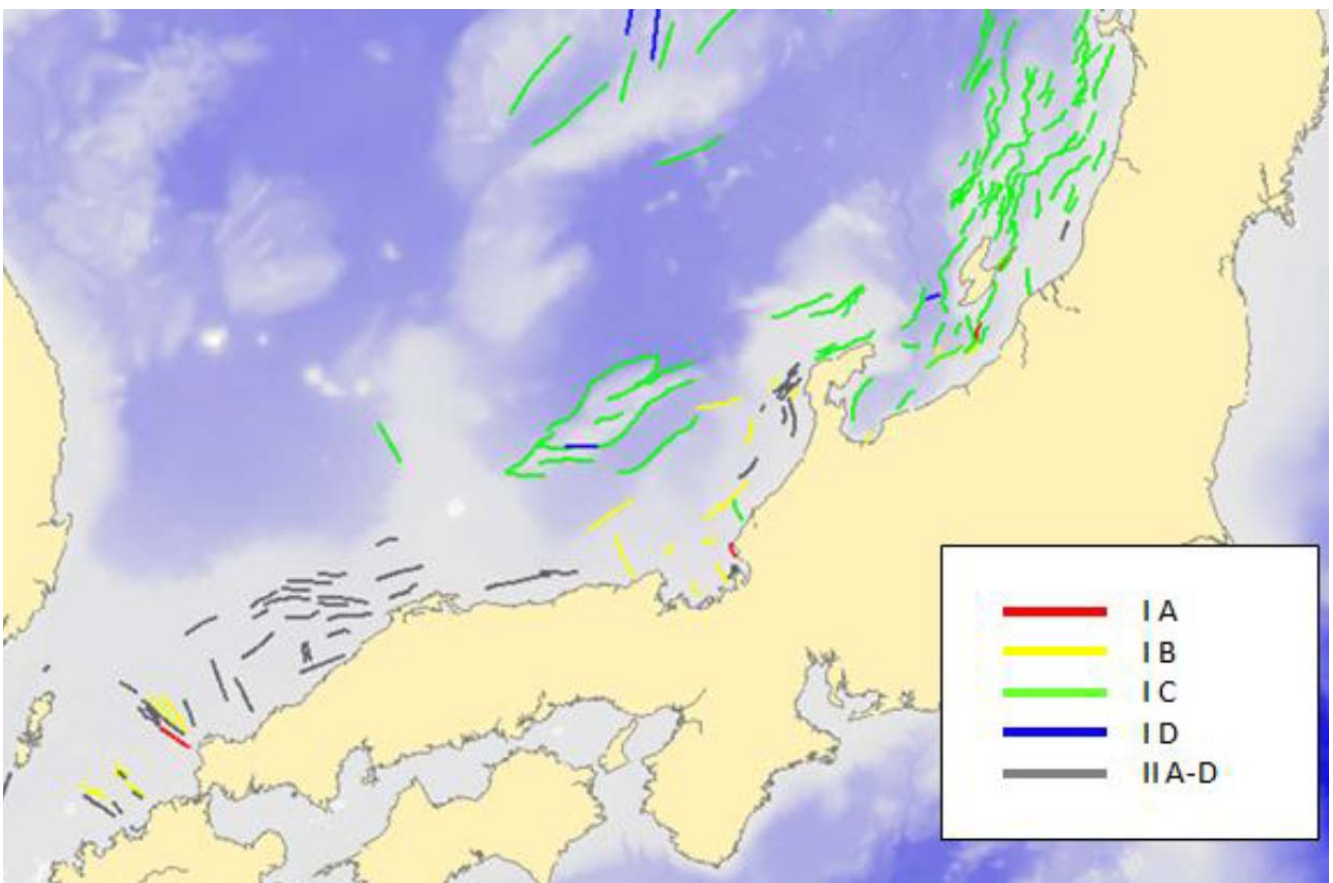


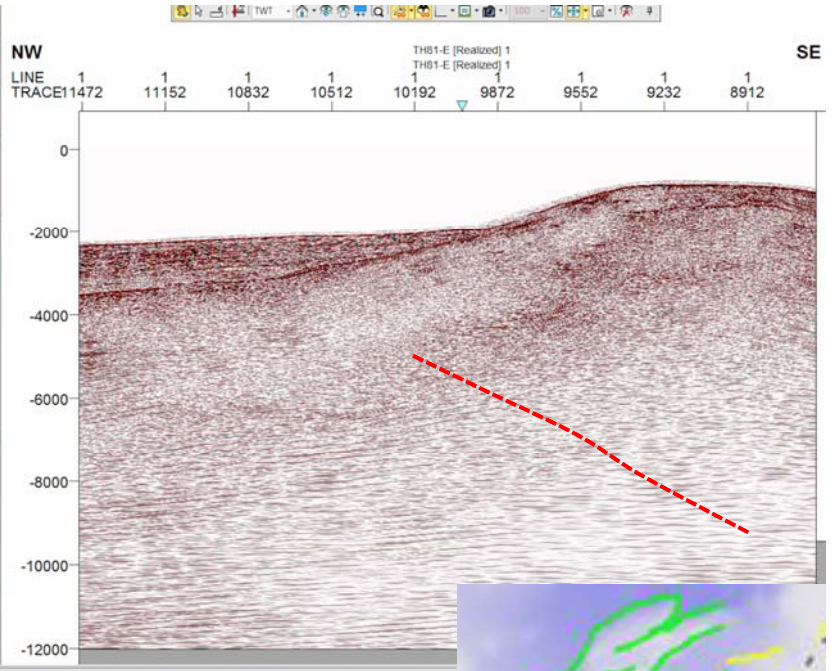
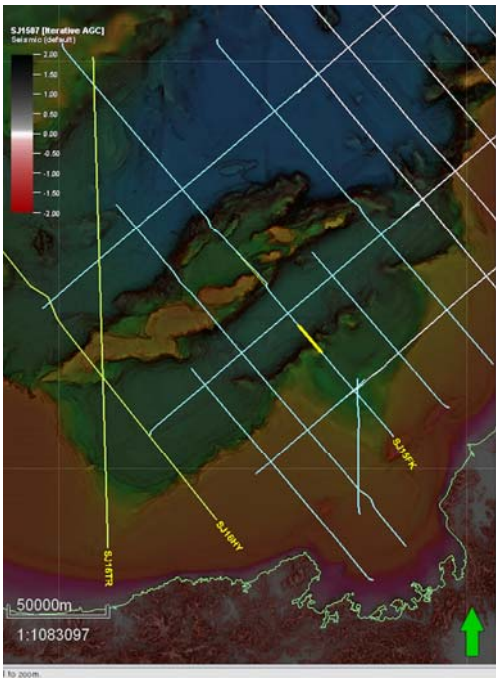
断層名	始点座標		終点座標		走向	傾斜	断層長さ	断層幅	地震発生層の深さ	すべり角
	経度 JGD2000	緯度 JGD2000	経度 JGD2000	緯度 JGD2000						
SH010	35.720	131.965	35.712	132.218	80	80	22.9	17.0	15	138.4193
SH020a	35.654	131.746	35.638	132.113	91	60	33.4	17.1	15	149.0299
SH020b	35.626	131.585	35.651	131.740	77	60	14.4	17.1	15	173.2903
SH030	35.243	131.579	35.051	131.283	230	60	34.3	17.2	15	153.3039
SH040a	35.526	132.164	35.491	132.461	96	-	27.2	-	15	-
SH040b	35.521	131.955	35.526	132.164	87	-	19.1	-	15	170.9324
SH050a	35.466	132.289	35.475	132.138	273	-	11.9	-	15	112.621
SH050b	35.475	132.123	35.398	131.972	238	60	16.9	17.1	15	128.696
SH060	35.404	132.464	35.371	132.075	292	60	35.8	17.2	15	150.8154
SH070	35.583	131.669	35.563	131.956	94	-	26.1	-	15	-
SH080	35.428	131.333	35.559	131.560	53	-	25.2	-	15	-
SH09	35.518	131.797	35.463	131.495	256	-	28.1	-	15	-
SH11	35.181	131.824	34.940	131.800	160	85	27.3	14.9	15	-175.727
SH12	35.192	131.891	35.033	131.948	182	80	18.4	15.1	15	154.8101
SH13	35.764	133.033	35.684	132.589	255	60	41.2	17.2	15	155.0434
SH14	35.344	131.329	35.434	131.536	41	-	21.5	-	15	-
SH150	35.373	131.961	35.357	131.652	265	-	28.0	-	15	-
SH160	35.474	132.050	35.545	131.736	294	-	29.5	-	15	-
YM040	35.363	131.059	35.211	130.741	239	-	33.4	-	15	-
YM050	35.128	131.040	35.025	130.787	243	-	25.8	-	15	-
YM06	34.710	131.129	35.008	131.005	340	75	35.0	15.4	15	-133.25
YM07a	34.935	131.324	35.048	131.204	318	80	16.6	15.1	15	-113.953
YM07b	34.789	131.385	34.935	131.324	340	90	17.1	14.9	15	-95.83
YM07c	34.660	131.484	34.786	131.280	324	90	16.9	14.9	15	-95.8611
YM08	34.576	131.419	34.716	131.187	326	90	29.7	14.9	15	-93.6046
YM09	34.290	130.868	34.650	130.289	306	90	68.7	14.9	15	-41.2441
YM10	34.510	130.872	34.683	130.715	324	90	24.9	14.9	15	-110.504
YM11	34.402	130.766	34.765	130.455	324	90	49.4	14.9	15	-74.3755
YM12	34.840	130.081	34.982	130.214	48	60	23.6	17.2	15	-138.712
YM13	34.859	130.071	35.001	130.263	48	60	23.5	17.2	15	-138.881
YM14	34.413	130.741	34.689	130.433	316	90	41.8	14.9	15	-84.9617
YM15	34.426	130.788	34.652	130.611	326	90	30.0	14.9	15	-101.662
YM16	34.655	130.814	34.847	130.943	6	90	21.5	14.9	15	-95.2226
YM170	35.260	130.218	35.340	130.456	67	60	23.3	17.2	15	-139.221
YM180	35.499	130.533	35.546	131.021	82	60	44.6	17.1	15	151.6735
FO01	34.353	130.312	34.266	130.377	150	90	25.3	14.9	15	-140.09
FO02	34.290	130.352	34.089	130.511	146	90	26.6	14.9	15	-105.098
FO03	34.157	130.064	34.447	129.880	332	90	36.4	14.5	15	-100.606
FO06	34.189	129.110	33.915	130.262	138	90	31.7	14.9	15	-100.106
FO08	33.779	130.090	33.695	130.312	123	90	24.5	15.0	15	-106.913
FO07	33.879	130.099	33.741	130.225	142	90	19.2	15.0	15	-110.033
FO08	34.054	129.679	33.910	130.032	116	90	36.4	14.9	15	-100.606
FO09	34.113	129.752	33.912	130.047	179	90	35.2	14.9	15	-101.082
FO040	34.087	129.589	34.407	129.791	27	45	40.1	21.2	15	-175.284
TS010	33.729	129.040	33.975	129.076	7	45	27.4	21.2	15	-178.826
TS020	33.781	129.067	34.059	129.136	9	60	30.5	17.1	15	-155.212
TS030	34.851	129.394	35.078	129.614	45	60	29.0	17.1	15	-132.226
FK01	33.333	128.282	33.345	128.536	87	60	23.7	17.1	15	-155.804
FK02	33.395	128.799	33.127	128.608	212	65	33.2	16.4	15	-147.801
Hamada	35.015	132.190	34.899	132.012	230	80	20.7	15.2	15	161.4651

15 km以上の断層をマッピング

津波波高・強震動計算

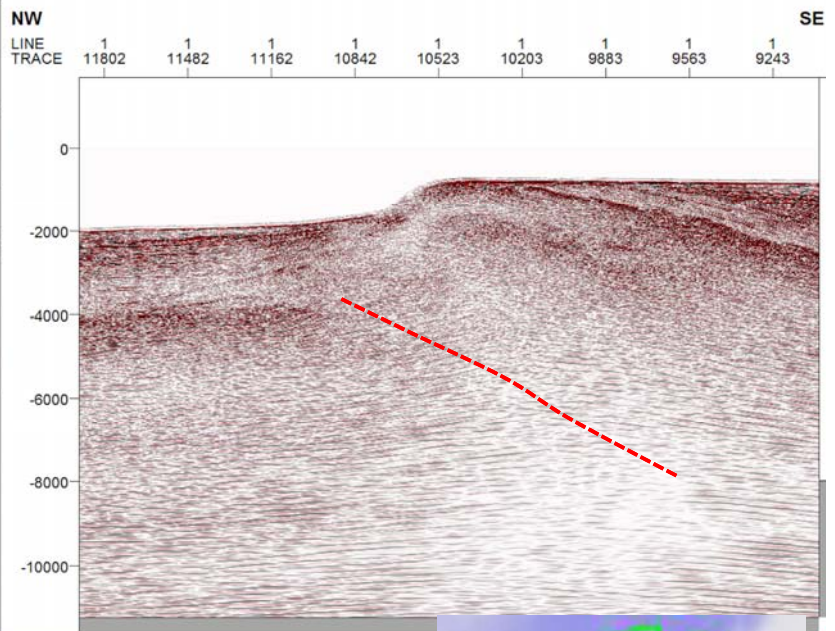
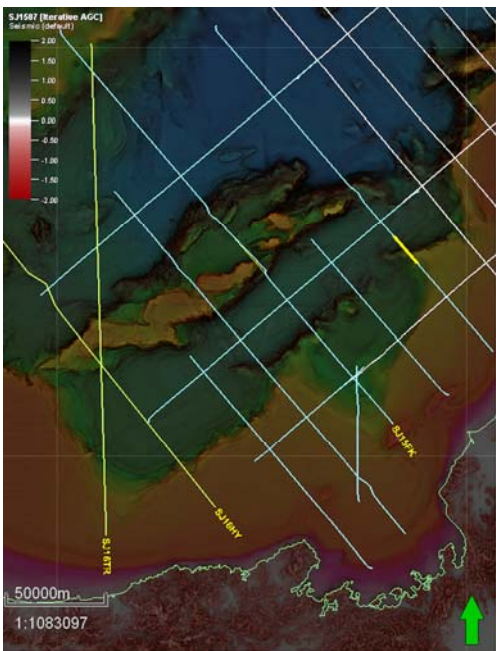
海底断層プロジェクトによる海域活断層



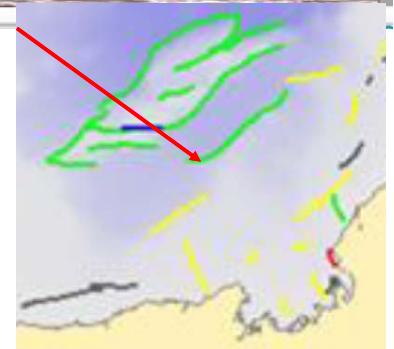
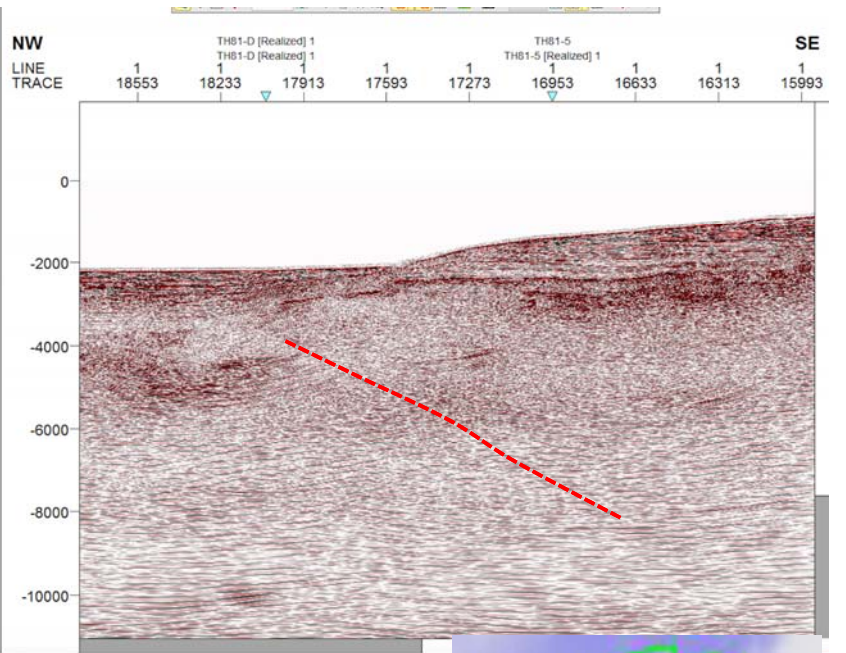
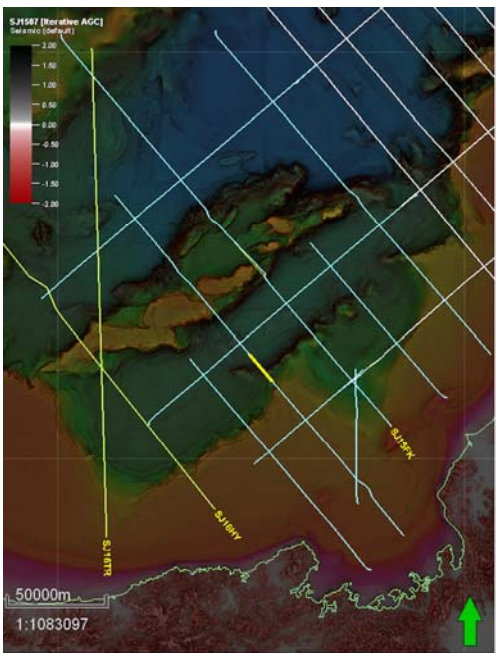
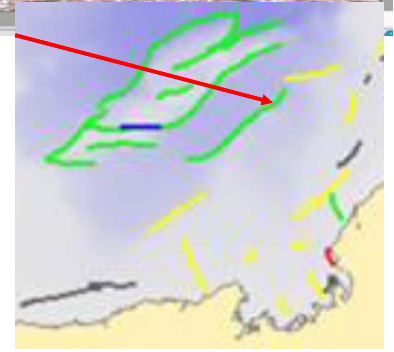
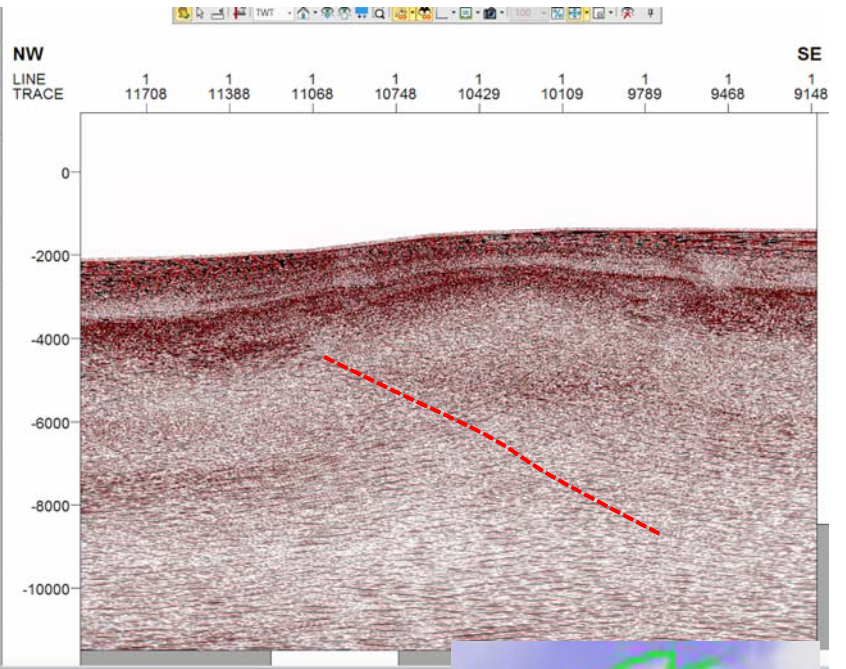
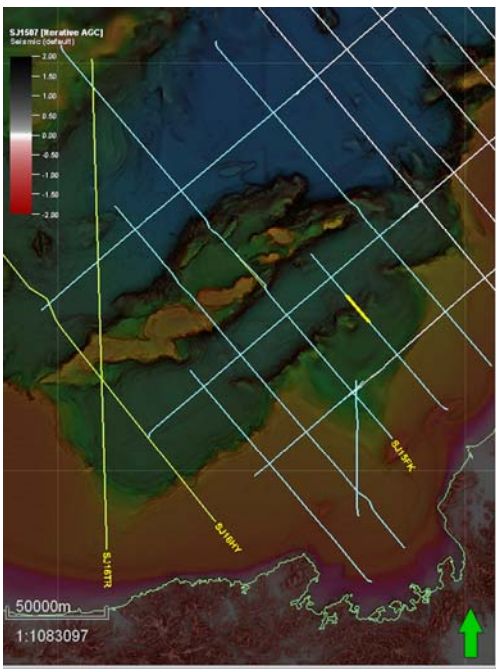


水色・黄色実線: 海洋研究開発機構による本プロジェクトでの
 探査測線
 水色実線中の黄色区間: 反射断面に示した区間

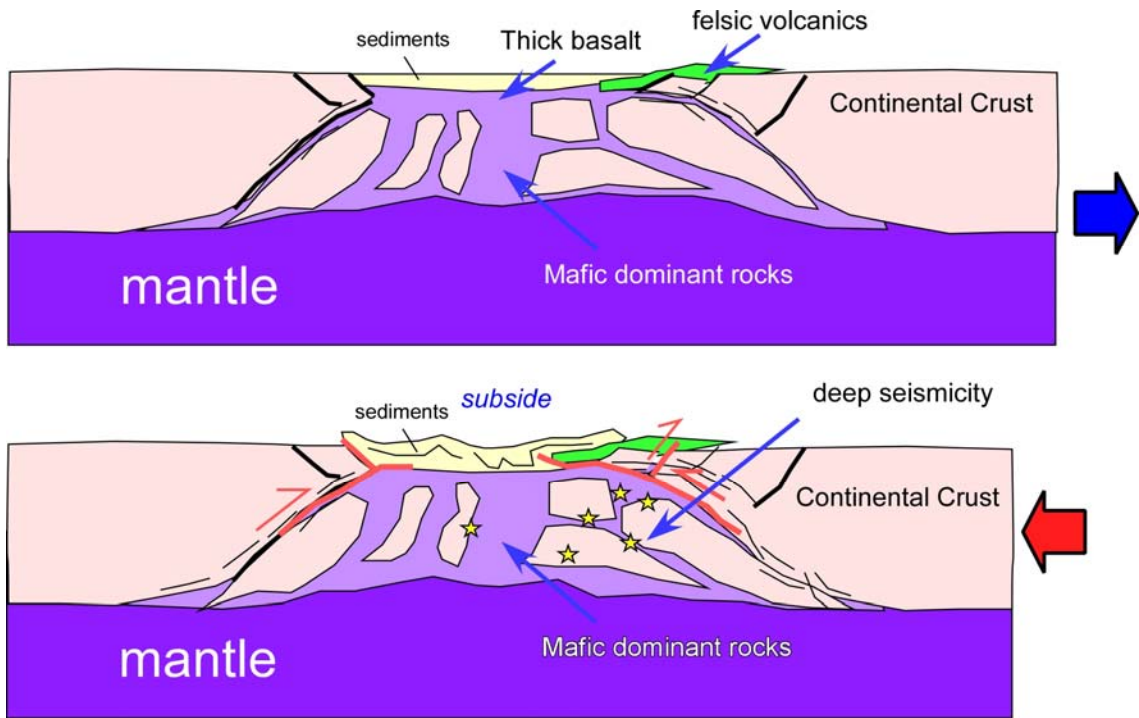
断層崖の埋積



断層崖の埋積

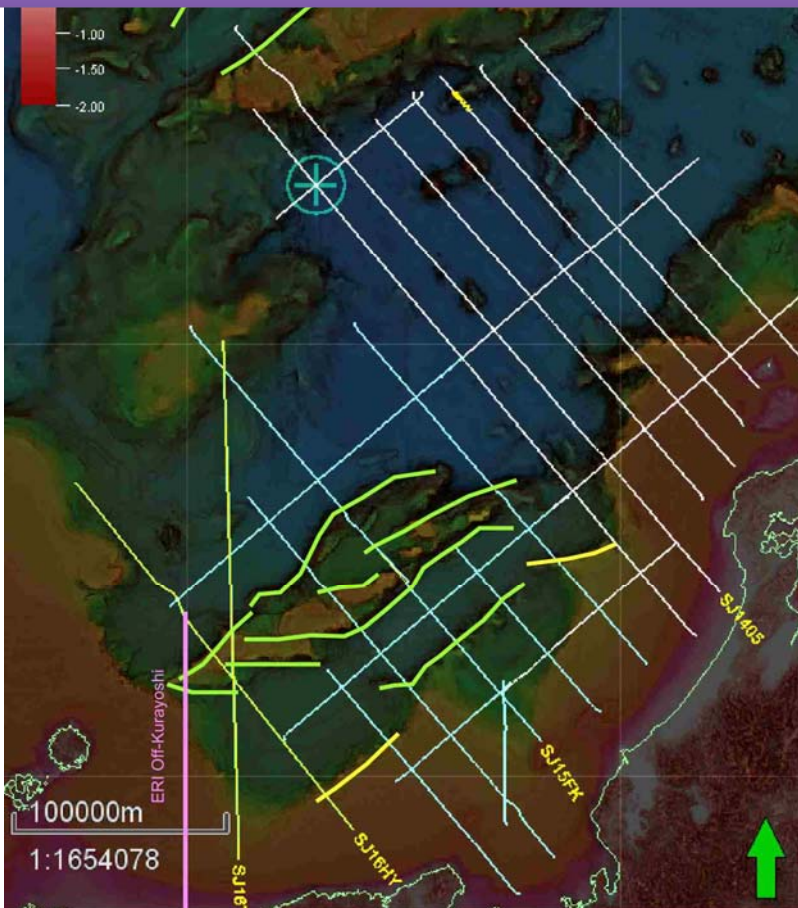


背弧中絶リフトの構造と短縮変形



佐藤(2013)

福井沖、沖合の海底活断層の検討



測線:
 白・水色: JAMSTEC
 ピンク: ERI

断層: 海底断層PJによる(2016)

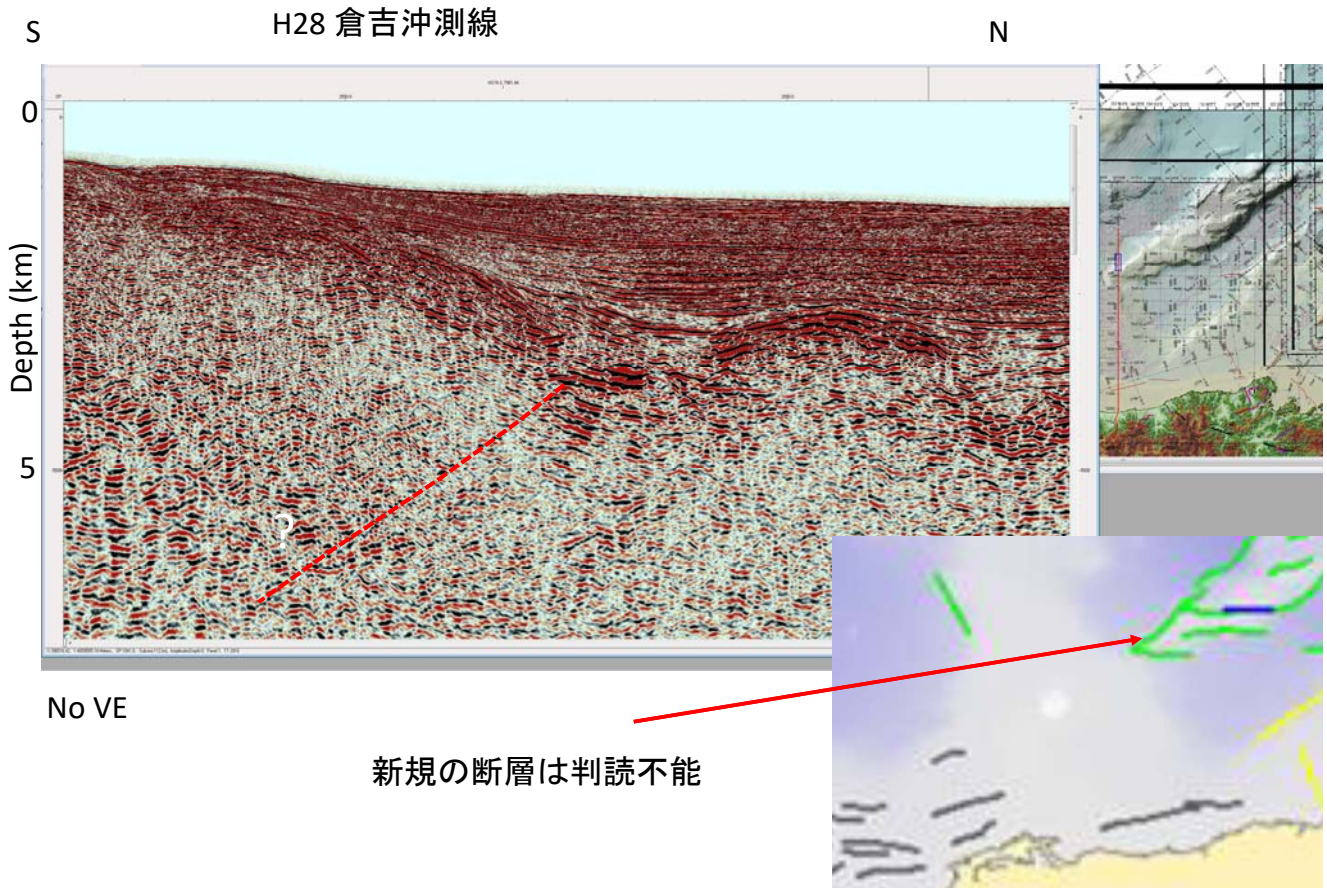
黄緑: IC
 黄色: IB

ランク I : 堆積層内の地質構造に変位があり、且つ、海底地形にも変位がある。

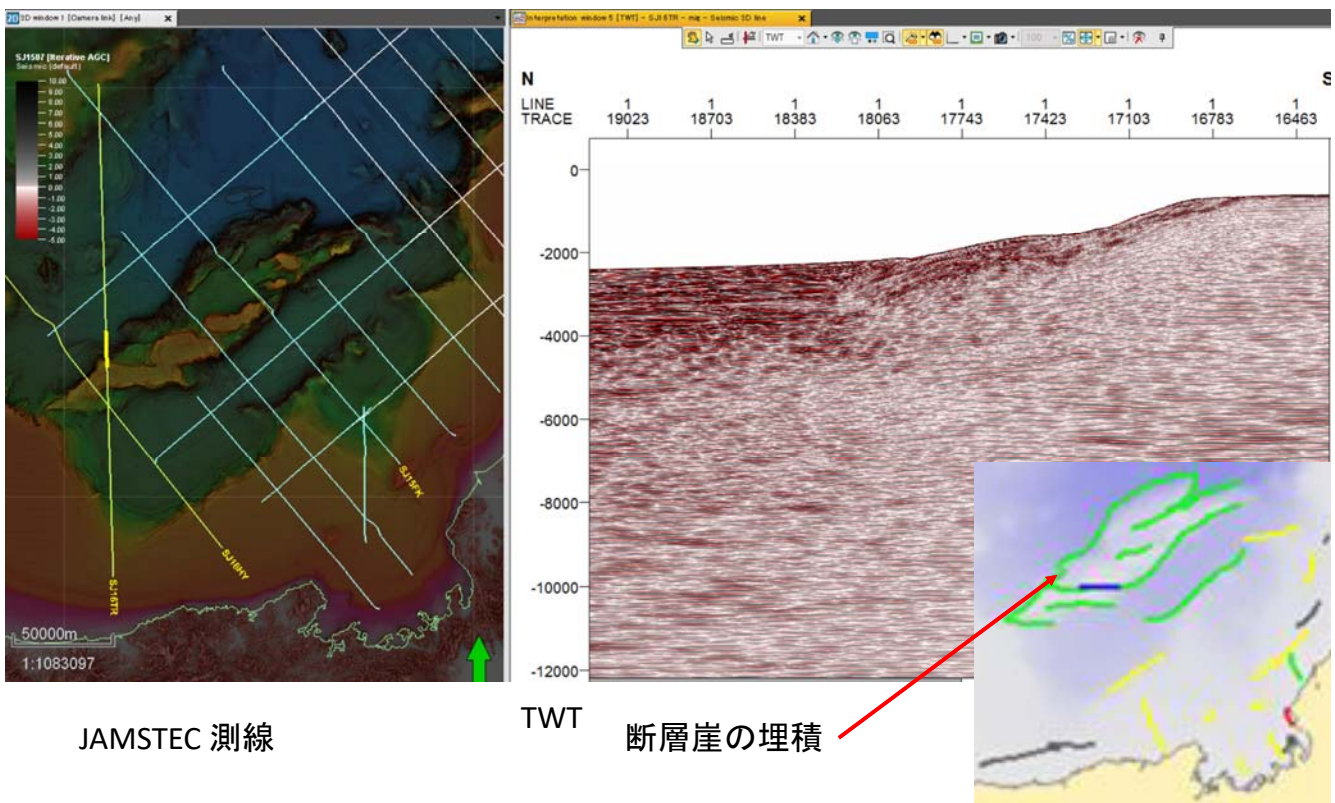
下方への延び

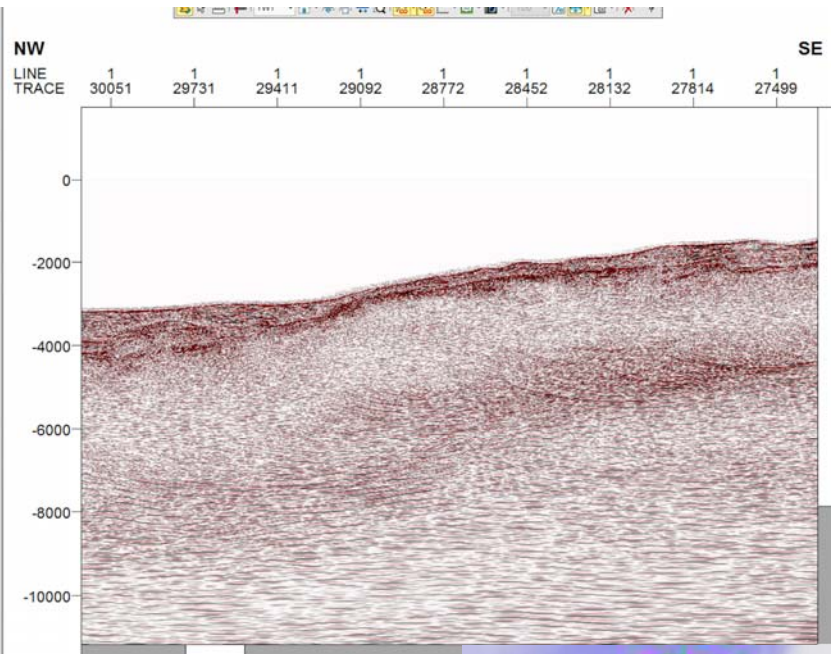
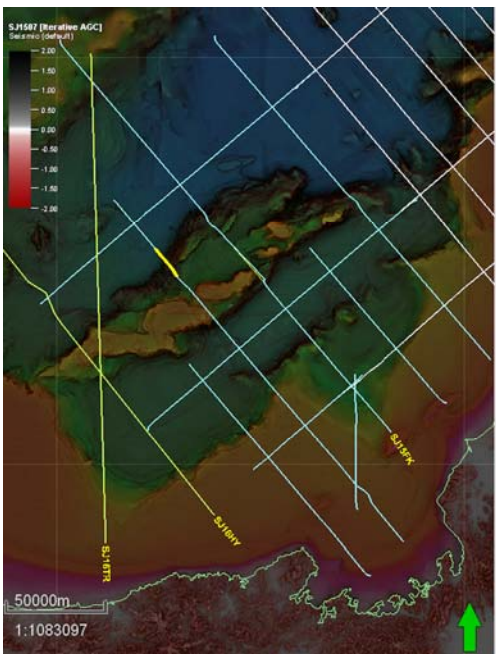
ランクB Sediment 2 (音響基盤)
 ランクC: Upper crust (上部地殻)

鳥取沖、沖合の海底活断層の検討



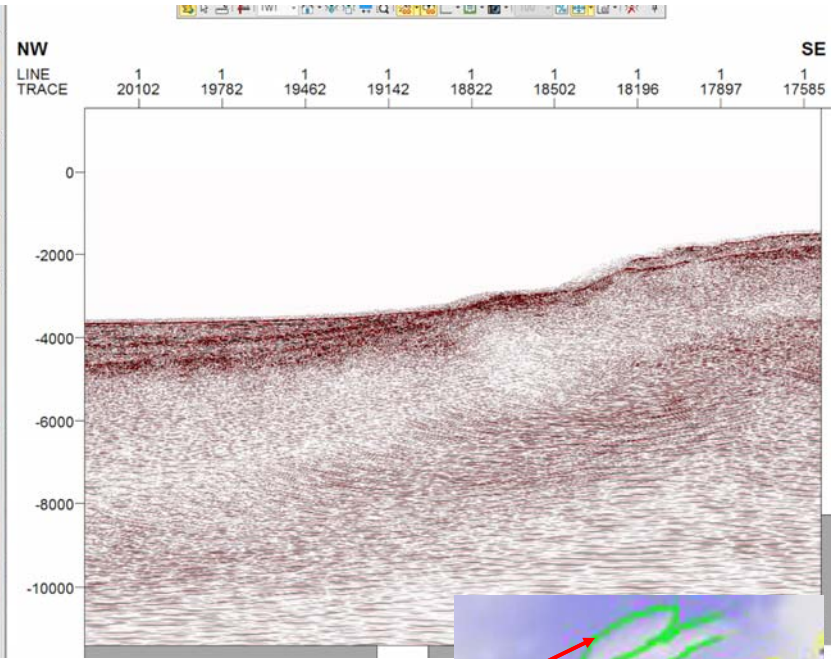
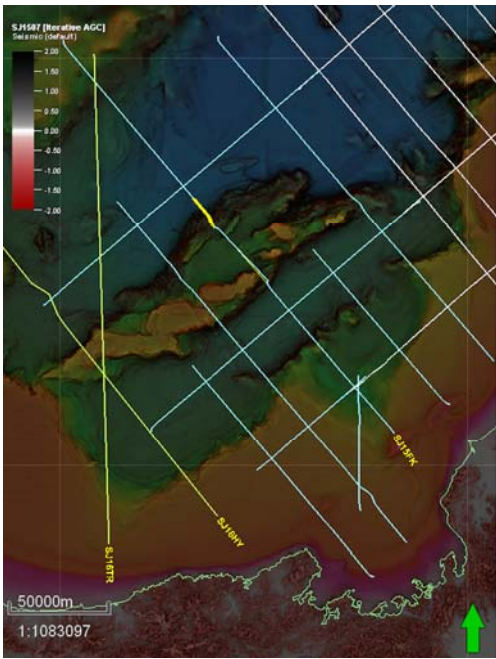
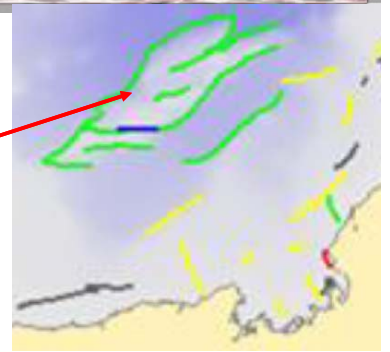
鳥取沖、沖合の海底活断層の検討





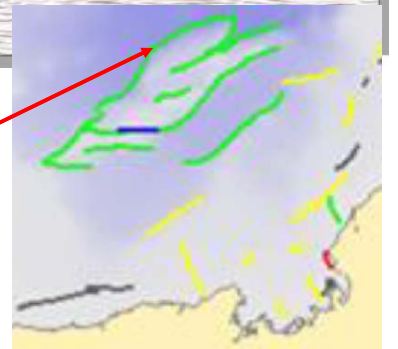
TWT

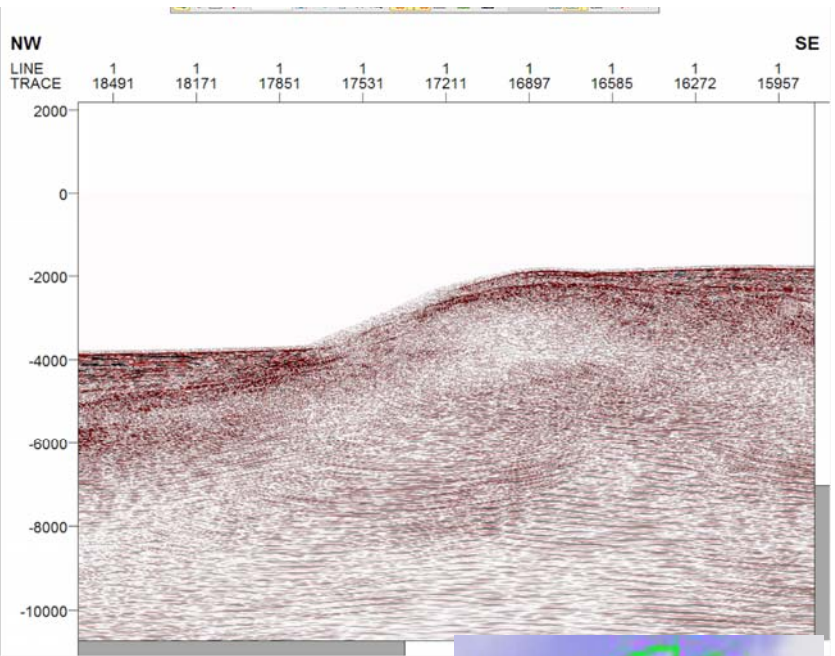
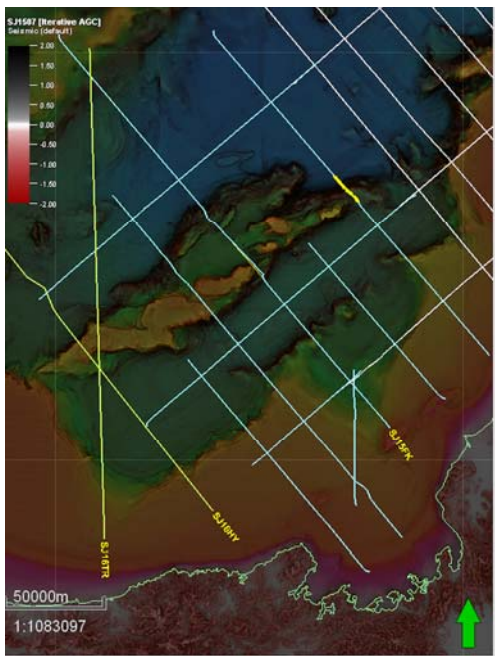
断層崖の埋積



TWT

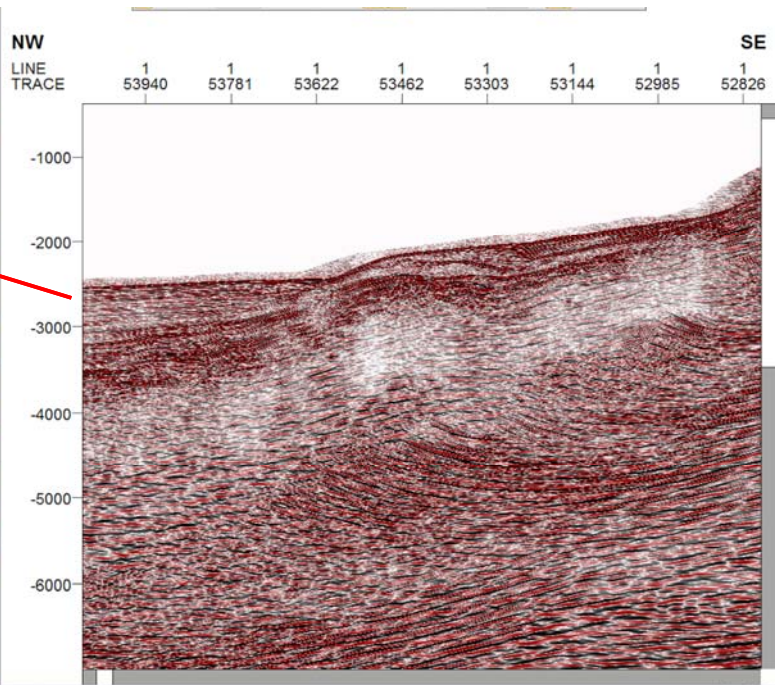
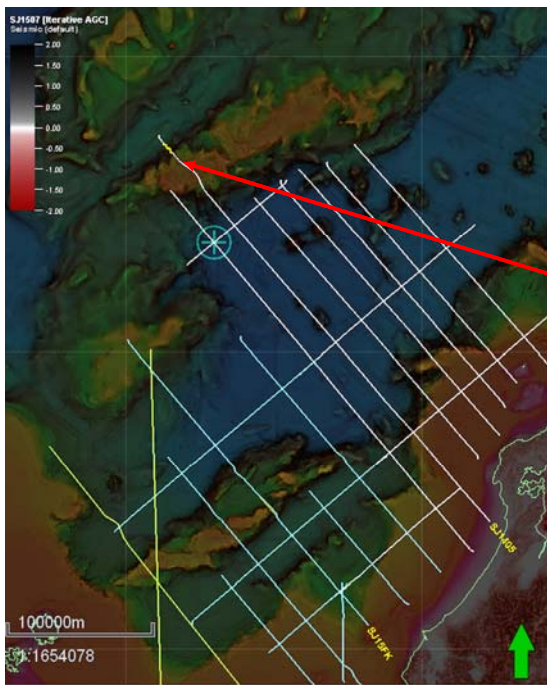
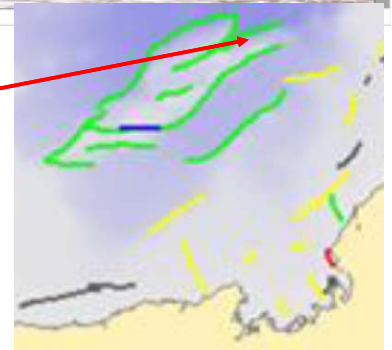
断層崖の埋積





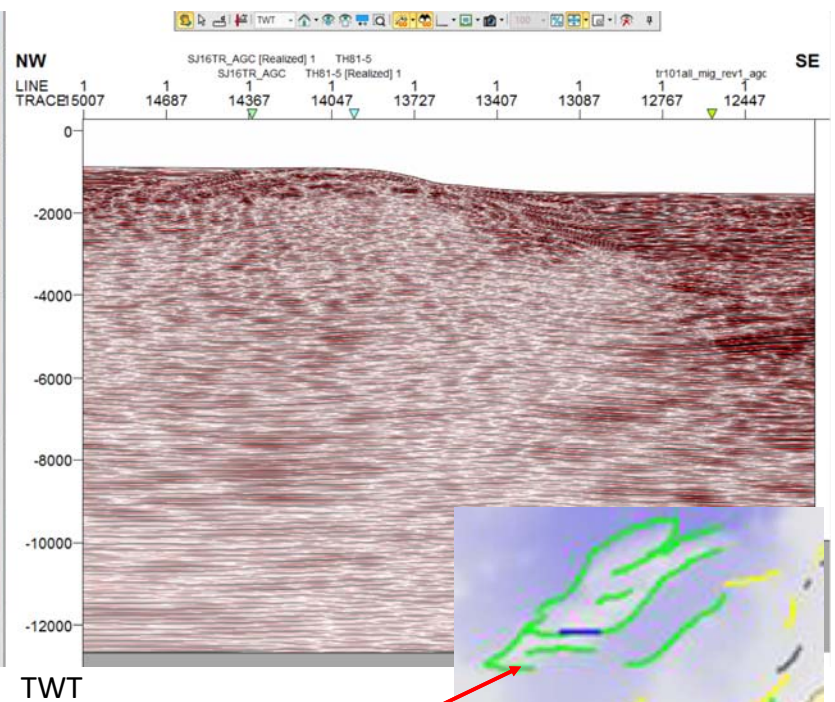
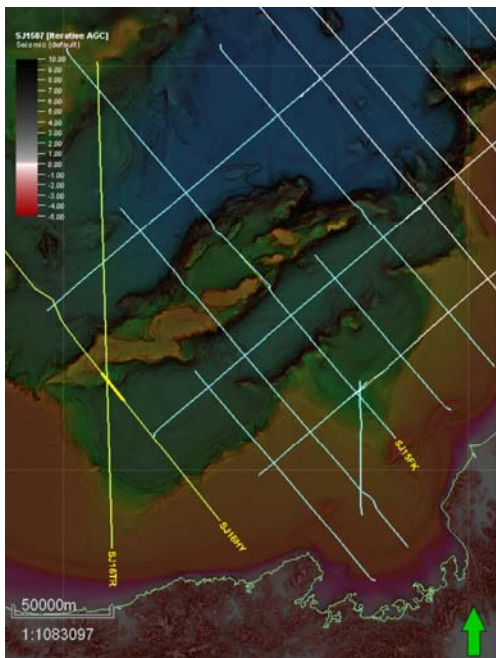
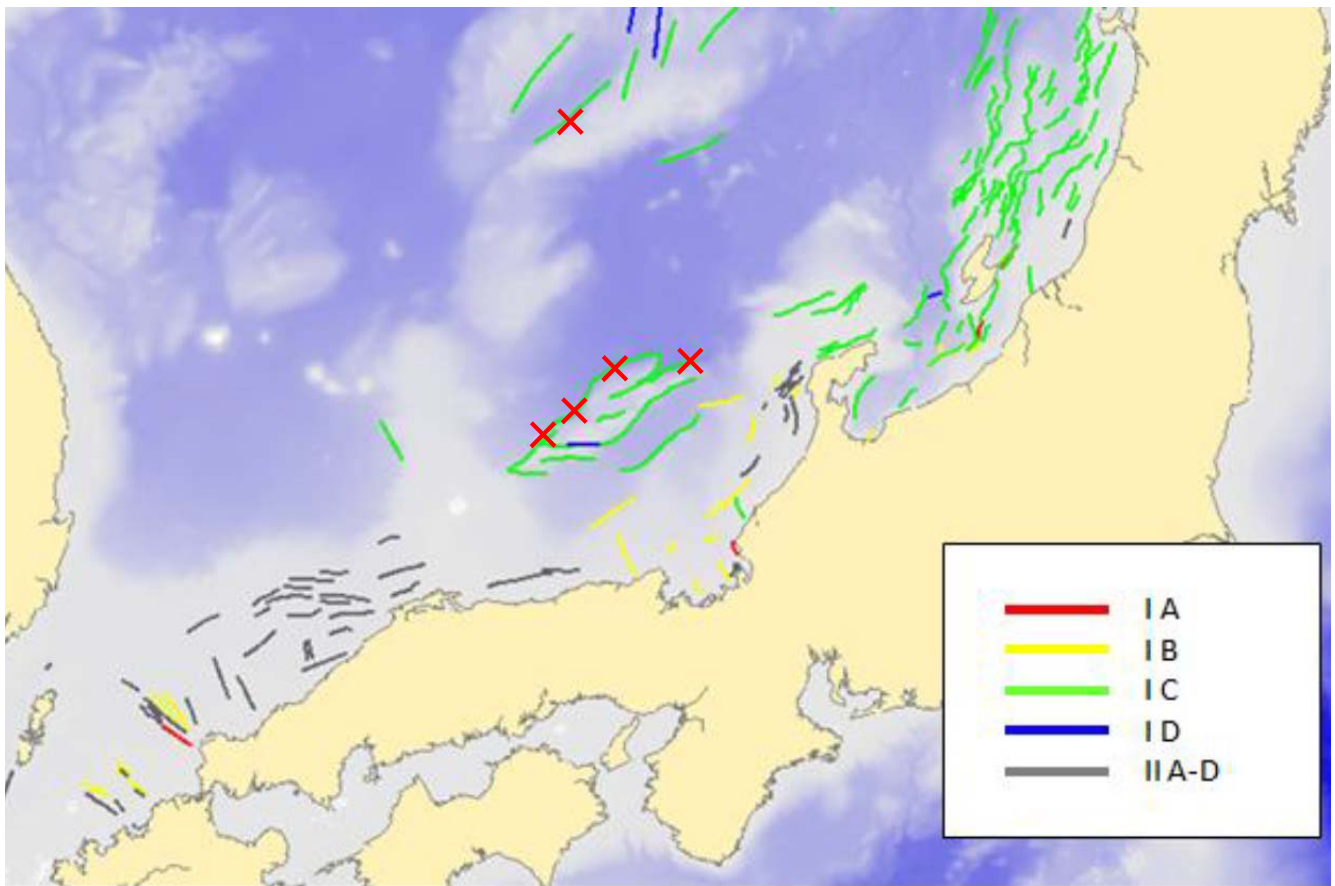
TWT

断層崖の埋積

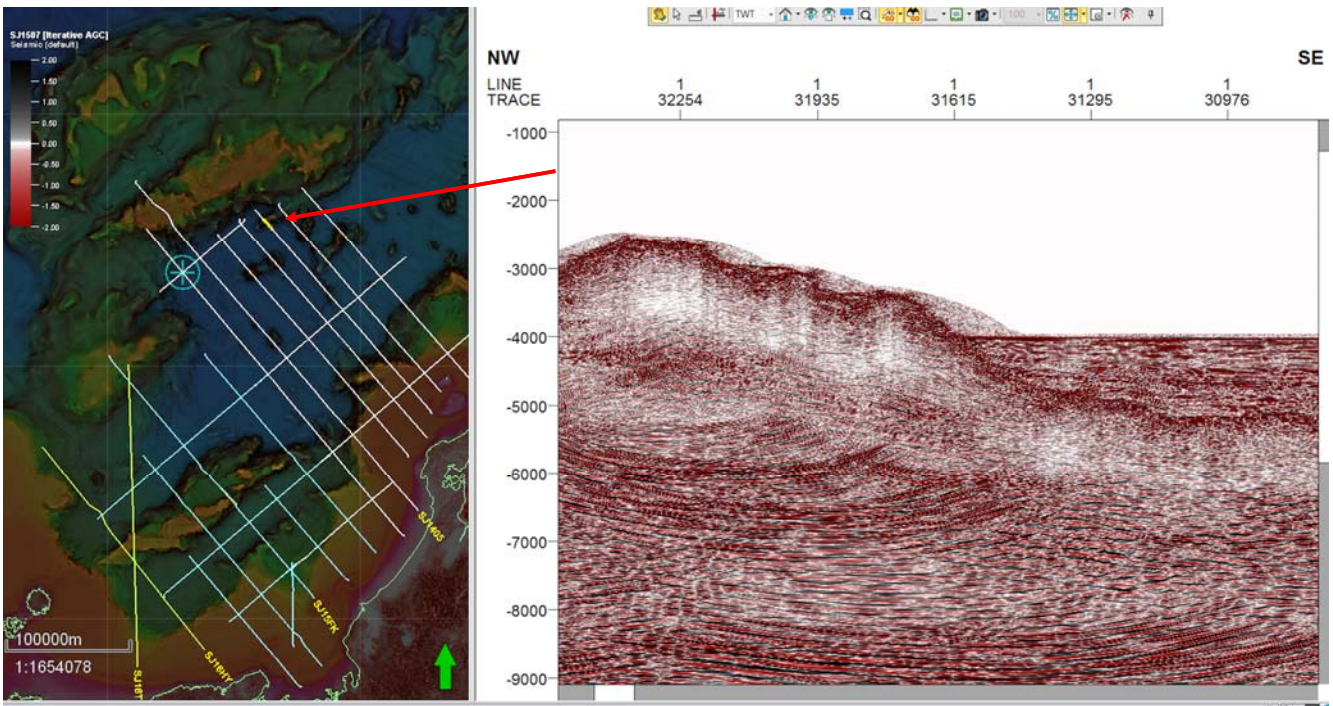


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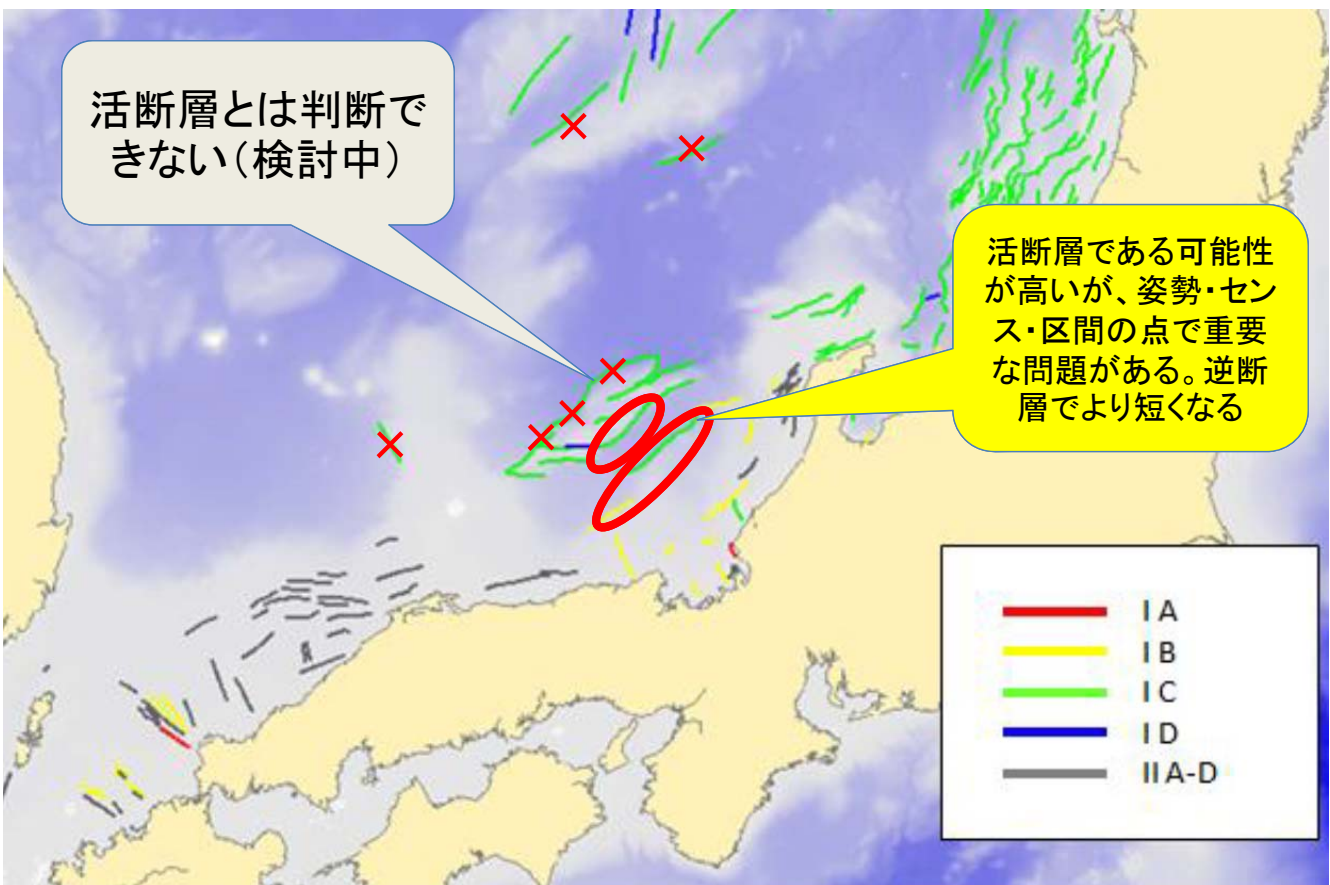
海底断層プロジェクトによる海域活断層



断層崖の埋積



海底断層プロジェクトによる海域活断層



平成29年度の予定

越前沖合の断層モデルの作成

若狭湾沿岸域の断層モデルの作成

北陸以西の断層モデルの再検討と形状モデルの修正

※地震発生層の深さ、すべり角についてはプロジェクト中に変更の可能性