台灣中油股份有限公司

觀塘工業區工業專用港水下調查工作

工作案號：LEA0700006

觀塘工業港區水下攝影調查

成果報告

執行單位：銓日儀企業有限公司

中　華　民　國　1　0　8　年　0　1　月

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第一章、前言

本案利用水下遙控無人載具（Remotely Operated Vehical 簡稱ROV）以及潛水伕攝影進行水下攝影調查，調查桃園市觀塘工業區工業專用港區域之海床特徵物，作業範圍如圖1-1。

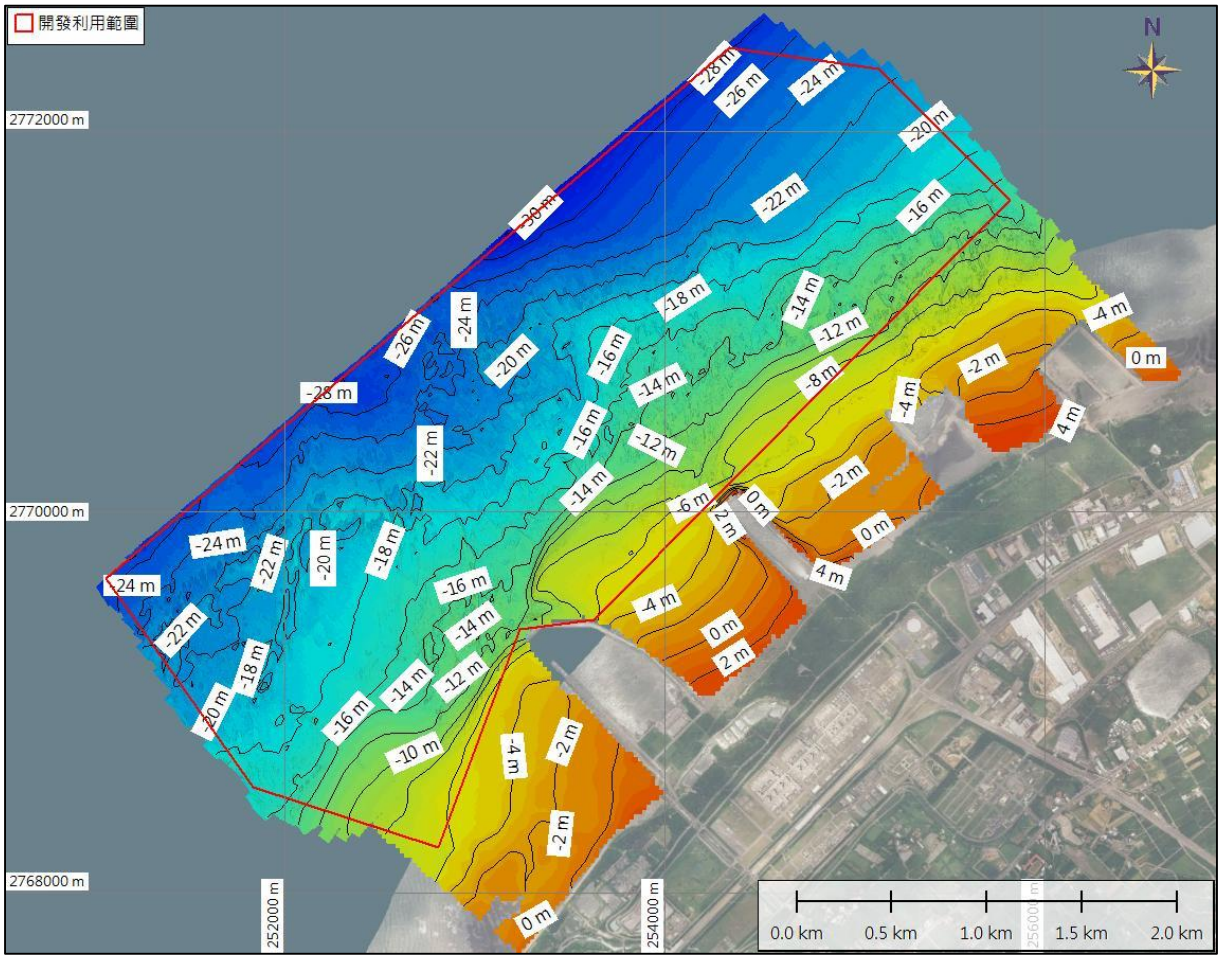


圖1-1　調查範圍

第二章、調查設備與航線規劃

2-1 調查設備

本案使用之水下遙控無人載具為SAAB Seaeye Panther（最大作業深度1,500公尺、圖2-1）以及潛水攝影機（圖2-2），並利用寶拉麗絲號（圖2-3）作為ROV工作載台。

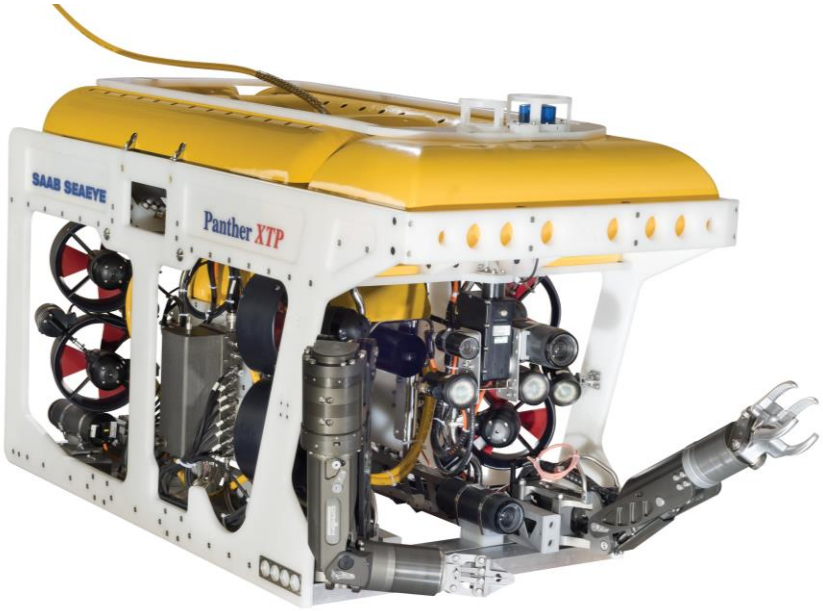


圖2- 1　水下遙控無人載具

圖2- 2　潛水攝影畫面

圖2-3　寶拉麗絲號照片

2-2 測線規劃

本案水下攝影作業設計7條測線，3條東北-西南向長線、4條西北-東南向短線（圖2-3），由於調查區域包含水深較淺處，在寶拉麗絲號航行安全有疑慮處，借助有經驗之潛水人員進行水下攝影。

圖2-4　本次水下攝影調查規劃測線

第三章、地質背景

3-1 海床地形

根據2016年本調查區域水深資料顯示（圖3-1），整體水深介於8～30公尺之間，水深較深處地形平緩，近岸區域地形變化相對較大，最大坡度約0.6度，主要為垂直岸向開口向外海的槽狀地形特徵，但受沉積物分布較少的關係，呈現不平整的形貌。

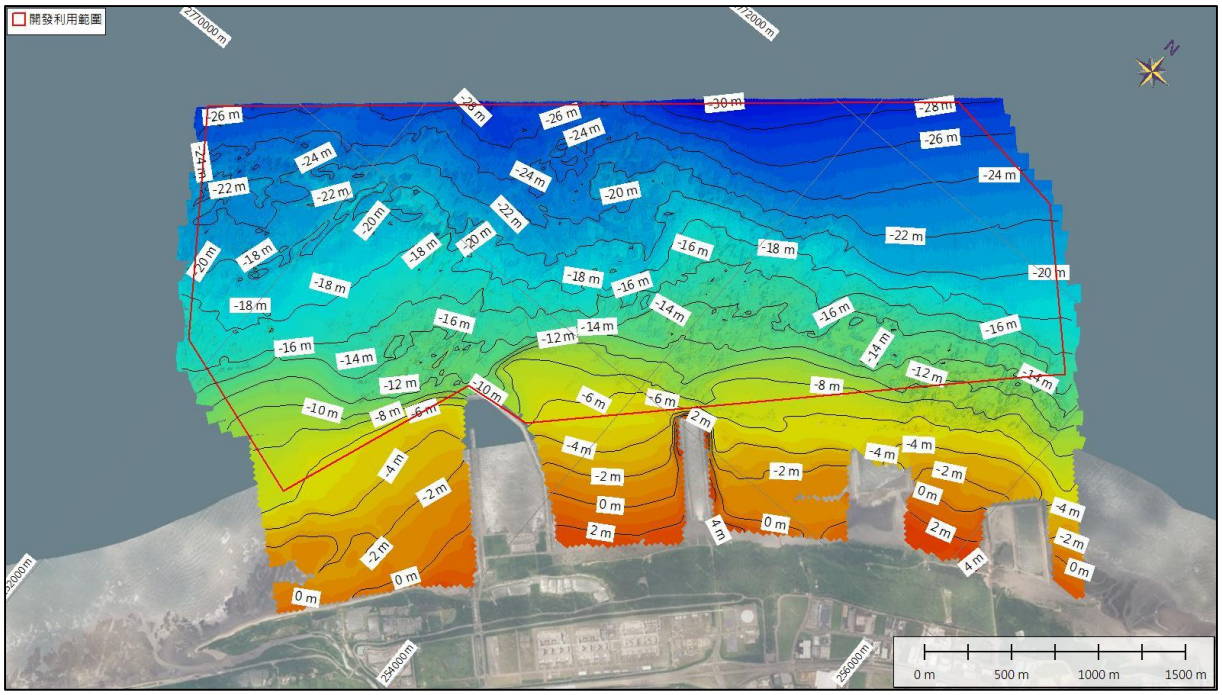


圖3- 1　2016年所進行之水深調查

3-2 海床地貌

根據2016年側掃聲納顯示（圖3-2），海床地貌主要可分為三種：

1. 硬質海床覆蓋薄層粉砂：缺乏沉積物充填修飾，故呈現較不平整的形貌伴隨強散射訊號，礁體縫隙間仍有沉積物堆積，呈現條狀反白，本區主要為薄層細質沉積物覆蓋於礁體上。
2. 粉砂質海床：以粉砂為主的細顆粒沉積物覆蓋在海床上。
3. 硬質礁石：導流堤間海床沉積物堆積而形成外溢現象，在側掃聲納圖中顯示塗白的回跡及緩和的等深線型態，解釋為細質的沉積物顆粒為主，而在近岸導流堤內側，則仍有礁體出露，顯示出岩石的紋路。

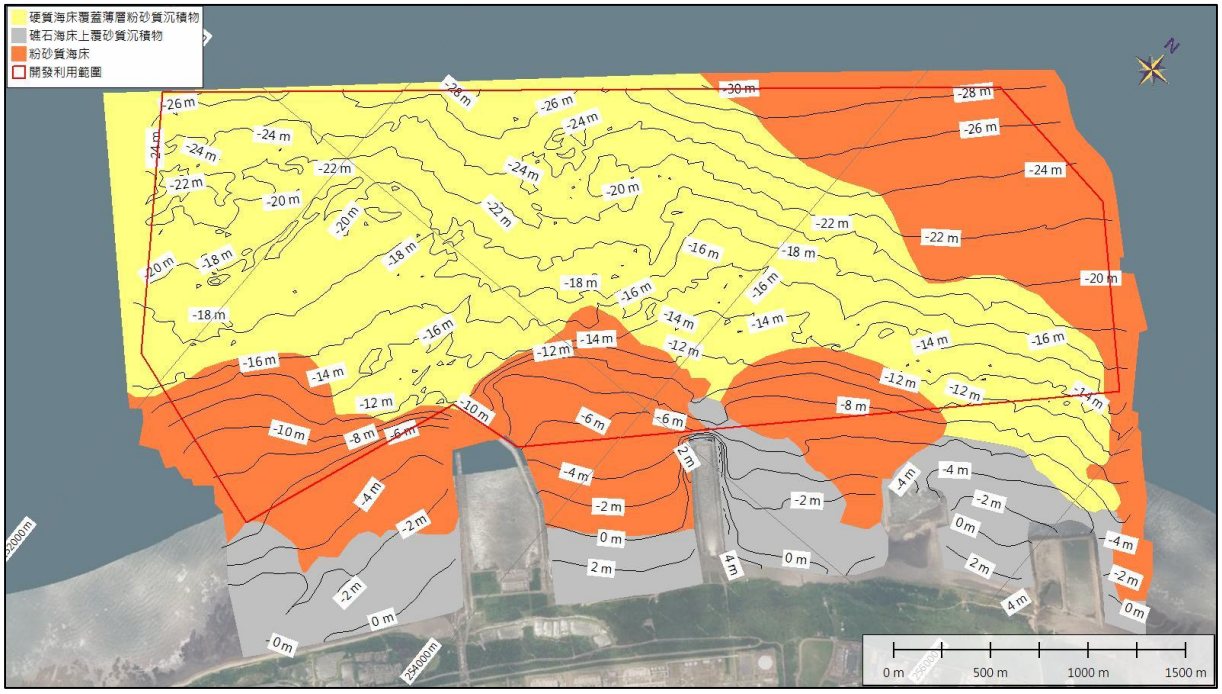


圖3- 2　2016年海床地貌分類資料

第四章、水下攝影結果

水下攝影影像之清晰度受水深、海流、海水混濁程度等影響，本章節僅節錄出影像得以清楚辨識之部分，整體來說，本案調查區域之海床為粉砂質海床，有可能因為ROV之推進器捲揚起細顆粒之底質沉積物，導致水體較為混濁。

本次所執行之水下攝影影像可分為兩種海底地貌：粉砂質海床以及硬質海床上覆生物。

4-1 粉砂質海床

由2016年所執行之側掃聲納結果可知本區域海床底質大多屬於此，而在本次水下攝影影像也再次確認上述之結果。

4-2 硬質海床上覆生物

在水下攝影影像中，亦辨識出許多硬質海床上覆生物之影像，由於粉砂質海床變動性較硬質海床大，故較少發現此現象，這些現象主要分布在硬質海床上，完整影像詳見附件一。

表4-1　硬質海床上覆生物點位

橫坐標 (TWD97)	縱坐標 (TWD97)	點位
253953.798	2770505.833	2018_Diver_L1_01
253955.480	2770503.987	2018_Diver_L1_02
253965.574	2770492.914	2018_Diver_L1_03
253973.986	2770483.686	2018_Diver_L1_04
253970.621	2770487.377	2018_Diver_L1_05
253973.985	2770485.532	2018_Diver_L1_06
253973.986	2770483.686	2018_Diver_L1_07
253979.032	2770479.995	2018_Diver_L1_08
253980.714	2770478.150	2018_Diver_L1_09
253992.490	2770465.231	2018_Diver_L1_10
254000.901	2770457.849	2018_Diver_L1_11
254014.359	2770444.931	2018_Diver_L1_12
254034.547	2770422.784	2018_Diver_L1_13
254042.957	2770417.249	2018_Diver_L1_14
254046.322	2770411.712	2018_Diver_L1_15
254054.733	2770404.330	2018_Diver_L1_16
254058.098	2770402.485	2018_Diver_L1_17
254061.463	2770396.948	2018_Diver_L1_18
254064.827	2770393.257	2018_Diver_L1_19
254071.556	2770387.721	2018_Diver_L1_20
254074.921	2770384.030	2018_Diver_L1_21
254076.603	2770382.184	2018_Diver_L1_22
254079.968	2770378.493	2018_Diver_L1_23
254091.744	2770365.574	2018_Diver_L1_24
254111.931	2770347.120	2018_Diver_L1_25
254320.310	2770854.846	2018_Diver_L2_01
254323.674	2770853.001	2018_Diver_L2_02
254332.085	2770845.619	2018_Diver_L2_03
254333.767	2770843.774	2018_Diver_L2_04
254342.178	2770834.546	2018_Diver_L2_05
254345.542	2770832.701	2018_Diver_L2_06
254352.272	2770825.319	2018_Diver_L2_07

橫坐標 (TWD97)	縱坐標 (TWD97)	點位
254364.047	2770814.247	2018_Diver_L2_08
254367.412	2770810.556	2018_Diver_L2_09
254382.552	2770795.792	2018_Diver_L2_10
254384.234	2770793.947	2018_Diver_L2_11
254389.281	2770788.410	2018_Diver_L2_12
254402.738	2770777.338	2018_Diver_L2_13
254419.562	2770758.883	2018_Diver_L2_14
254438.066	2770742.275	2018_Diver_L2_15
254453.206	2770727.511	2018_Diver_L2_16
254454.889	2770725.666	2018_Diver_L2_17
254890.362	2770986.107	2018_Diver_L3_01
254892.044	2770986.107	2018_Diver_L3_02
254905.502	2770973.190	2018_Diver_L3_03
254915.596	2770962.117	2018_Diver_L3_04
255303.942	2771285.320	2018_Diver_L4_01
255307.307	2771281.629	2018_Diver_L4_02
255308.990	2771279.784	2018_Diver_L4_03
255310.672	2771277.939	2018_Diver_L4_04
255319.084	2771268.712	2018_Diver_L4_05
255329.177	2771259.485	2018_Diver_L4_06
255337.589	2771250.258	2018_Diver_L4_07
255347.684	2771239.186	2018_Diver_L4_08
255349.365	2771239.187	2018_Diver_L4_09
255351.048	2771237.341	2018_Diver_L4_10
255366.189	2771220.733	2018_Diver_L4_11
255372.918	2771215.197	2018_Diver_L4_12
255376.283	2771209.661	2018_Diver_L4_13
254718.864	2770886.360	2018_Diver_L5_01
254710.458	2770878.973	2018_Diver_L5_02
254707.096	2770875.280	2018_Diver_L5_03
254745.762	2770912.214	2018_Diver_L5_04
254797.877	2770963.921	2018_Diver_L5_05
254816.369	2770982.388	2018_Diver_L5_06
254823.093	2770989.775	2018_Diver_L5_07
254831.499	2770997.162	2018_Diver_L5_08
254844.947	2771011.935	2018_Diver_L5_09
254849.991	2771015.629	2018_Diver_L5_10
254895.380	2771061.796	2018_Diver_L5_11
254927.321	2771093.191	2018_Diver_L5_12
254934.045	2771100.577	2018_Diver_L5_13
255150.898	2771320.336	2018_Diver_L5_14
255145.855	2771316.642	2018_Diver_L5_15
255140.811	2771312.948	2018_Diver_L5_16
255137.450	2771307.409	2018_Diver_L5_17
255135.769	2771305.562	2018_Diver_L5_18
255134.088	2771303.716	2018_Diver_L5_19
255132.407	2771301.869	2018_Diver_L5_20
255127.364	2771298.175	2018_Diver_L5_21
255120.640	2771290.788	2018_Diver_L5_22
255117.277	2771288.941	2018_Diver_L5_23
255113.916	2771283.402	2018_Diver_L5_24
255108.872	2771279.708	2018_Diver_L5_25
255105.510	2771276.014	2018_Diver_L5_26
255098.787	2771268.628	2018_Diver_L5_27

橫坐標 (TWD97)	縱坐標 (TWD97)	點位
255092.063	2771261.241	2018_Diver_L5_28
255081.976	2771252.007	2018_Diver_L5_29
255075.252	2771244.620	2018_Diver_L5_30
255068.528	2771237.234	2018_Diver_L5_31
255056.762	2771224.307	2018_Diver_L5_32
255048.356	2771216.920	2018_Diver_L5_33
255046.675	2771215.073	2018_Diver_L5_34
255036.588	2771205.839	2018_Diver_L5_35
255031.546	2771198.453	2018_Diver_L5_36
255021.460	2771189.219	2018_Diver_L5_37
255013.055	2771179.986	2018_Diver_L5_38
255006.331	2771172.599	2018_Diver_L5_39
254996.244	2771163.365	2018_Diver_L5_40
254979.433	2771146.745	2018_Diver_L5_41
254959.261	2771124.585	2018_Diver_L5_42
255164.346	2771335.110	2018_Diver_L5_43
255203.010	2771372.045	2018_Diver_L5_44
255273.613	2771440.376	2018_Diver_L5_45
255352.621	2771514.249	2018_Diver_L5_46
253471.104	2770631.232	2018_ROV_L1_01
253472.785	2770631.233	2018_ROV_L1_02
253472.785	2770633.079	2018_ROV_L1_03
253474.467	2770633.079	2018_ROV_L1_04
253479.511	2770634.926	2018_ROV_L1_05
253481.193	2770636.773	2018_ROV_L1_06
253481.192	2770638.619	2018_ROV_L1_07
253482.874	2770638.619	2018_ROV_L1_08
253494.644	2770646.007	2018_ROV_L1_09
253498.008	2770646.007	2018_ROV_L1_10
253501.371	2770647.854	2018_ROV_L1_11
253501.370	2770649.700	2018_ROV_L1_12
253508.096	2770653.394	2018_ROV_L1_13
253511.459	2770653.395	2018_ROV_L1_14
253513.141	2770655.242	2018_ROV_L1_15
253514.822	2770657.088	2018_ROV_L1_16
253516.502	2770662.627	2018_ROV_L1_17
253518.184	2770662.627	2018_ROV_L1_18
253521.546	2770668.166	2018_ROV_L1_19
253529.952	2770679.244	2018_ROV_L1_20
253526.580	2770710.626	2018_ROV_L1_21
253531.632	2770684.783	2018_ROV_L1_22
253531.631	2770688.475	2018_ROV_L1_23
253534.994	2770690.322	2018_ROV_L1_24
253538.358	2770690.323	2018_ROV_L1_25
253540.038	2770694.015	2018_ROV_L1_26
253546.764	2770699.555	2018_ROV_L1_27
253555.171	2770706.942	2018_ROV_L1_28
253555.170	2770708.788	2018_ROV_L1_29
253553.489	2770706.941	2018_ROV_L1_30
253566.941	2770714.329	2018_ROV_L1_31
253570.303	2770718.022	2018_ROV_L1_32
253587.118	2770729.102	2018_ROV_L1_33
253590.480	2770732.795	2018_ROV_L1_34
253593.842	2770738.334	2018_ROV_L1_35

橫坐標 (TWD97)	縱坐標 (TWD97)	點位
253597.205	2770742.027	2018_ROV_L1_36
253603.929	2770751.259	2018_ROV_L1_37
253629.150	2770769.726	2018_ROV_L1_38
253679.585	2770832.505	2018_ROV_L1_39
253682.948	2770834.352	2018_ROV_L1_40
253686.309	2770839.891	2018_ROV_L1_41
253687.991	2770839.892	2018_ROV_L1_42
253691.354	2770843.585	2018_ROV_L1_43
253694.717	2770845.432	2018_ROV_L1_44
253698.079	2770847.279	2018_ROV_L1_45
253726.662	2770871.285	2018_ROV_L1_46
253728.343	2770874.978	2018_ROV_L1_47
253746.835	2770897.135	2018_ROV_L1_48
253773.734	2770926.679	2018_ROV_L1_49
253824.173	2770970.998	2018_ROV_L1_50
253846.028	2770995.003	2018_ROV_L1_51
253847.709	2770996.849	2018_ROV_L1_52
253926.727	2771072.560	2018_ROV_L1_53
253983.886	2771135.342	2018_ROV_L1_54
253985.567	2771137.188	2018_ROV_L1_55
254041.047	2771190.740	2018_ROV_L1_56
254061.221	2771211.052	2018_ROV_L1_57
254145.278	2771297.842	2018_ROV_L1_58
254168.812	2771327.385	2018_ROV_L1_59
255093.560	2771754.135	2018_ROV_L2_01
255090.199	2771750.442	2018_ROV_L2_02
254799.383	2771464.200	2018_ROV_L2_03
254626.234	2771286.920	2018_ROV_L2_04
254580.843	2771246.291	2018_ROV_L2_05
254424.494	2771105.941	2018_ROV_L2_06
254397.603	2771057.935	2018_ROV_L2_07
253471.104	2770631.232	2018_ROV_L2_08
253472.785	2770633.079	2018_ROV_L2_09
253479.511	2770634.926	2018_ROV_L2_10
253481.193	2770636.773	2018_ROV_L2_11
253482.874	2770638.619	2018_ROV_L2_12
253501.371	2770647.854	2018_ROV_L2_13
253514.822	2770657.088	2018_ROV_L2_14
253529.951	2770681.090	2018_ROV_L2_15
253531.631	2770688.475	2018_ROV_L2_16
253540.038	2770694.015	2018_ROV_L2_17
253556.852	2770708.788	2018_ROV_L2_18
253563.577	2770714.328	2018_ROV_L2_19
253566.940	2770716.175	2018_ROV_L2_20
253587.118	2770729.102	2018_ROV_L2_21
253588.799	2770730.949	2018_ROV_L2_22
253602.248	2770749.413	2018_ROV_L2_23
253603.929	2770751.259	2018_ROV_L2_24
253608.973	2770756.799	2018_ROV_L2_25
253647.643	2770790.038	2018_ROV_L2_26
253679.585	2770832.505	2018_ROV_L2_27
253682.948	2770834.352	2018_ROV_L2_28
253687.991	2770839.892	2018_ROV_L2_29
253698.079	2770847.279	2018_ROV_L2_30

橫坐標 (TWD97)	縱坐標 (TWD97)	點位
253704.805	2770850.973	2018_ROV_L2_31
253728.343	2770874.978	2018_ROV_L2_32
253746.835	2770897.135	2018_ROV_L2_33
253793.910	2770945.145	2018_ROV_L2_34
253814.086	2770959.919	2018_ROV_L2_35
253881.332	2771035.626	2018_ROV_L2_36
253904.870	2771055.939	2018_ROV_L2_37
253982.204	2771135.341	2018_ROV_L2_38
254052.814	2771203.666	2018_ROV_L2_39
254247.827	2771399.405	2018_ROV_L2_40
253891.560	2770553.812	2018_ROV_L3_01
253881.462	2770577.808	2018_ROV_L3_02
253868.006	2770585.188	2018_ROV_L3_03
253856.233	2770590.723	2018_ROV_L3_04
253847.822	2770596.258	2018_ROV_L3_05
253842.771	2770616.563	2018_ROV_L3_06
253731.747	2770723.603	2018_ROV_L3_07
253731.747	2770723.603	2018_ROV_L3_08
253652.683	2770810.346	2018_ROV_L3_09
253625.770	2770830.645	2018_ROV_L3_10
253605.586	2770845.408	2018_ROV_L3_11
253550.073	2770910.005	2018_ROV_L3_12
253543.343	2770921.079	2018_ROV_L3_13
253518.111	2770945.071	2018_ROV_L3_14
253491.200	2770961.679	2018_ROV_L3_15
253455.877	2770991.207	2018_ROV_L3_16
253371.770	2771079.796	2018_ROV_L3_17
253354.950	2771092.714	2018_ROV_L3_18
254300.128	2770858.531	2018_ROV_L4_01
254279.939	2770884.370	2018_ROV_L4_02
254136.947	2771041.239	2018_ROV_L4_03
254088.161	2771096.606	2018_ROV_L4_04
254521.953	2771344.112	2018_ROV_L4_05
254535.408	2771338.578	2018_ROV_L4_06
254960.760	2771628.555	2018_ROV_L4_07
255056.647	2771534.442	2018_ROV_L4_08
255139.076	2771456.939	2018_ROV_L4_09
255149.169	2771445.867	2018_ROV_L4_10
255251.791	2771336.989	2018_ROV_L4_11
253121.143	2771328.952	2017_ROV_001
253119.462	2771327.105	2017_ROV_002
253116.095	2771341.873	2017_ROV_003
253116.095	2771343.719	2017_ROV_004
253109.368	2771345.563	2017_ROV_005
252108.443	2770422.498	2017_ROV_006
252105.080	2770420.651	2017_ROV_007
252101.716	2770420.651	2017_ROV_008
252093.308	2770420.650	2017_ROV_009
252084.109	2770436.099	2017_ROV_010
252069.064	2770445.502	2017_ROV_011
252055.332	2770456.035	2017_ROV_012
252063.740	2770461.575	2017_ROV_013
252043.559	2770465.264	2017_ROV_014
252021.757	2770492.850	2017_ROV_015

橫坐標 (TWD97)	縱坐標 (TWD97)	點位
252012.827	2770516.946	2017_ROV_016
252001.648	2770531.003	2017_ROV_017
251996.528	2770541.603	2017_ROV_018
251969.308	2770584.608	2017_ROV_019
251948.887	2770595.513	2017_ROV_020
251929.663	2770611.811	2017_ROV_021
251908.350	2770656.946	2017_ROV_022
251897.066	2770670.737	2017_ROV_023
251887.454	2770684.945	2017_ROV_024
251869.484	2770696.229	2017_ROV_025
251839.395	2770712.527	2017_ROV_026
251812.231	2770732.169	2017_ROV_027
251790.500	2770764.348	2017_ROV_028
251770.022	2770794.855	2017_ROV_029
252293.976	2770106.708	2017_ROV_030
252383.521	2770154.484	2017_ROV_031
252389.829	2770160.260	2017_ROV_032
252401.600	2770169.492	2017_ROV_033
252410.008	2770175.032	2017_ROV_034
252435.231	2770200.881	2017_ROV_035
252480.633	2770234.118	2017_ROV_036
252504.175	2770252.582	2017_ROV_037
252512.580	2770272.890	2017_ROV_038
252544.527	2770307.971	2017_ROV_039
252551.253	2770315.356	2017_ROV_040
252557.978	2770322.742	2017_ROV_041
252603.380	2770354.133	2017_ROV_042
252620.196	2770365.213	2017_ROV_043
252628.604	2770370.752	2017_ROV_044
252631.966	2770376.291	2017_ROV_045
252680.728	2770424.298	2017_ROV_046
252710.995	2770450.148	2017_ROV_047
252737.899	2770470.460	2017_ROV_048
252744.624	2770479.692	2017_ROV_049
252749.668	2770483.385	2017_ROV_050
252765.734	2770496.131	2017_ROV_051
252800.112	2770527.700	2017_ROV_052
252801.793	2770529.546	2017_ROV_053
252801.793	2770531.392	2017_ROV_054
252810.199	2770546.162	2017_ROV_055
252848.876	2770560.939	2017_ROV_056
252852.238	2770564.632	2017_ROV_057
252855.602	2770562.786	2017_ROV_058
252870.735	2770575.712	2017_ROV_059
252872.416	2770581.250	2017_ROV_060
252882.503	2770597.867	2017_ROV_061
252927.898	2770651.411	2017_ROV_062
252974.980	2770682.804	2017_ROV_063

橫坐標 (TWD97)	縱坐標 (TWD97)	點位
252983.387	2770688.344	2017_ROV_064
252985.210	2770693.994	2017_ROV_065
252991.793	2770703.114	2017_ROV_066
252998.518	2770710.500	2017_ROV_067
253006.925	2770717.886	2017_ROV_068
253017.014	2770723.426	2017_ROV_069
253020.377	2770725.273	2017_ROV_070
253025.422	2770727.120	2017_ROV_071
253030.467	2770728.968	2017_ROV_072
253030.464	2770741.890	2017_ROV_073
253045.597	2770751.123	2017_ROV_074
253037.188	2770756.660	2017_ROV_075
253050.641	2770760.355	2017_ROV_076
253052.321	2770765.893	2017_ROV_077
253057.534	2770773.267	2017_ROV_078
253063.133	2770780.786	2017_ROV_079
253070.651	2770786.865	2017_ROV_080
253077.690	2770790.544	2017_ROV_081
253083.929	2770795.503	2017_ROV_082
253094.647	2770803.341	2017_ROV_083
253190.194	2770885.918	2017_ROV_084
253196.918	2770898.841	2017_ROV_085
253237.273	2770921.003	2017_ROV_086
253242.318	2770924.697	2017_ROV_087
253254.087	2770935.776	2017_ROV_088
253270.901	2770946.856	2017_ROV_089
253275.945	2770952.395	2017_ROV_090
253296.121	2770972.707	2017_ROV_091
253307.891	2770980.094	2017_ROV_092
253329.748	2771000.405	2017_ROV_093
253343.197	2771017.023	2017_ROV_094
253351.604	2771024.409	2017_ROV_095
253358.330	2771028.103	2017_ROV_096
253378.504	2771050.261	2017_ROV_097
253393.636	2771063.187	2017_ROV_098
253408.768	2771077.959	2017_ROV_099
253417.173	2771089.037	2017_ROV_100
253437.350	2771103.810	2017_ROV_101
253442.393	2771109.350	2017_ROV_102

第五章、結論

根據水下影像結果顯示，本調查區域中地貌主要是細顆粒粉砂質的海床、以及硬質海床上覆有生物兩種地貌，而硬質海床上覆有生物之分布情況如圖5-1所示，主要分布於側掃聲納影像所分類出來之硬質海床上覆薄層粉砂的區域，而在粉砂質海床上幾乎沒有上述之現象。

本調查團隊於本計畫區域在2017年以及2018年共進行兩次ROV調查，另外淺水區亦進行一次潛水攝影，以上三次調查皆顯示相同的結果：開發區域內主要海床表面沉積物為較細顆粒之粉砂或砂質沉積物組成，並且在硬質的海床上有發現生物發育之情況。

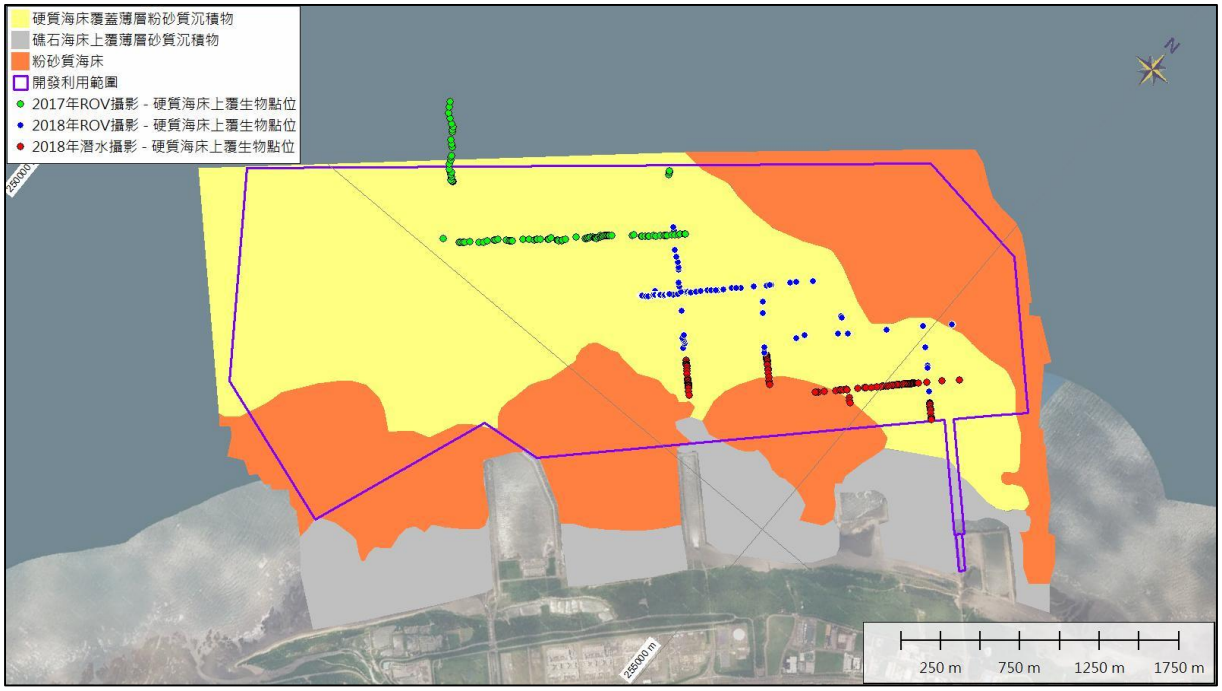
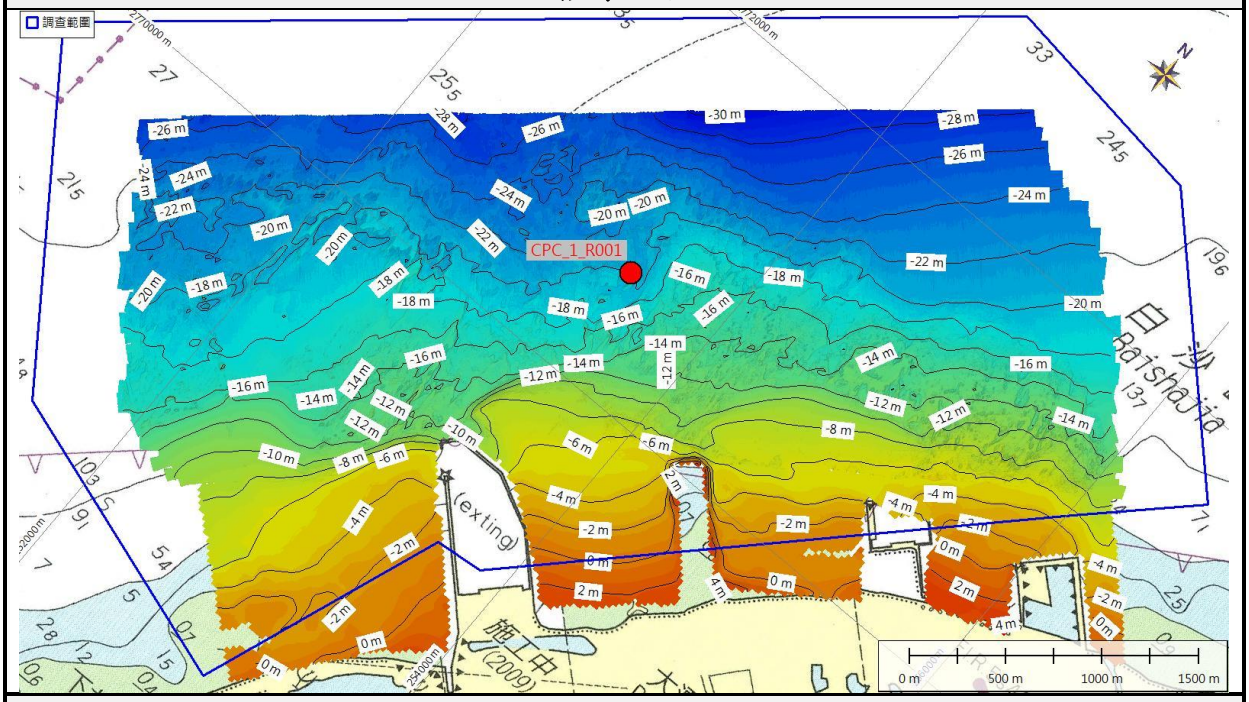


圖5-1　硬質海床上覆生物分布點位套疊海床地貌分類圖

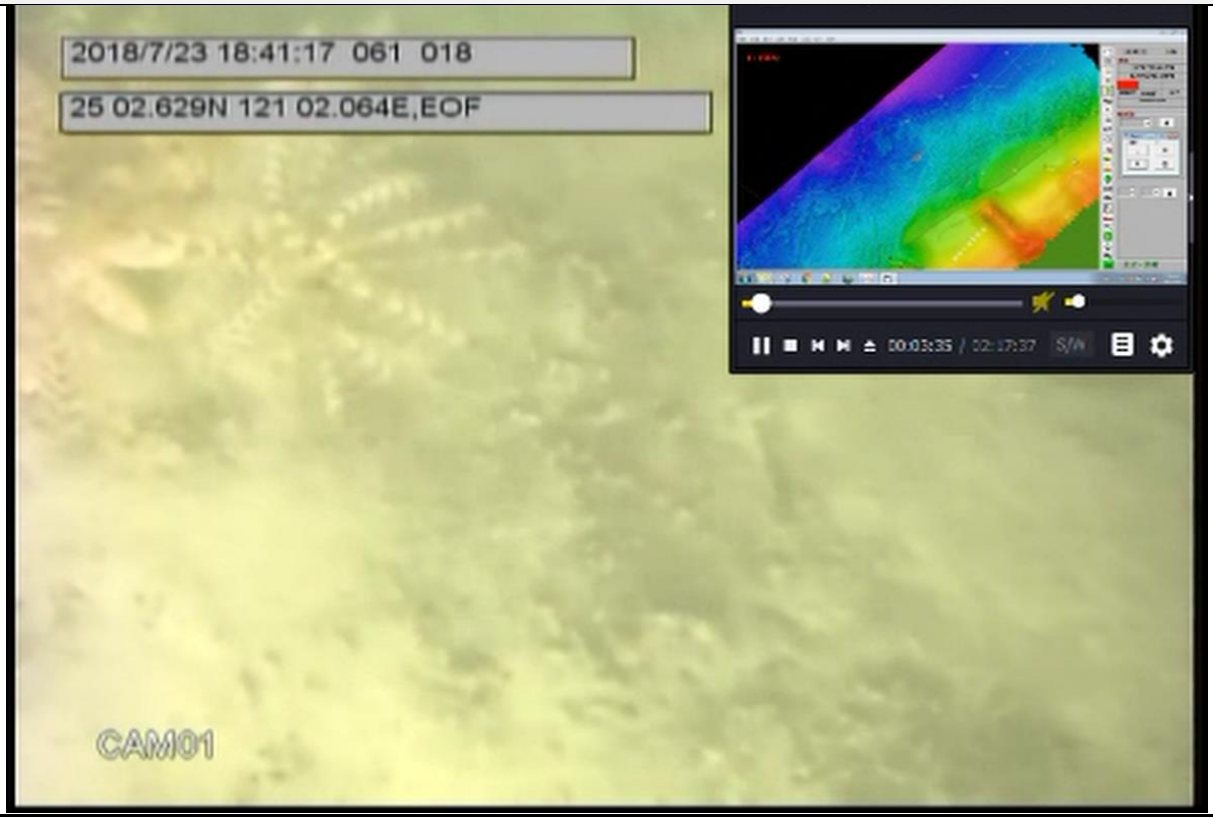
附件一、2018 水下攝影影像 – 硬質海床上覆生物

編號	經度	緯度
CPC_1_R001	121-02.064	25-02.629

影像位置

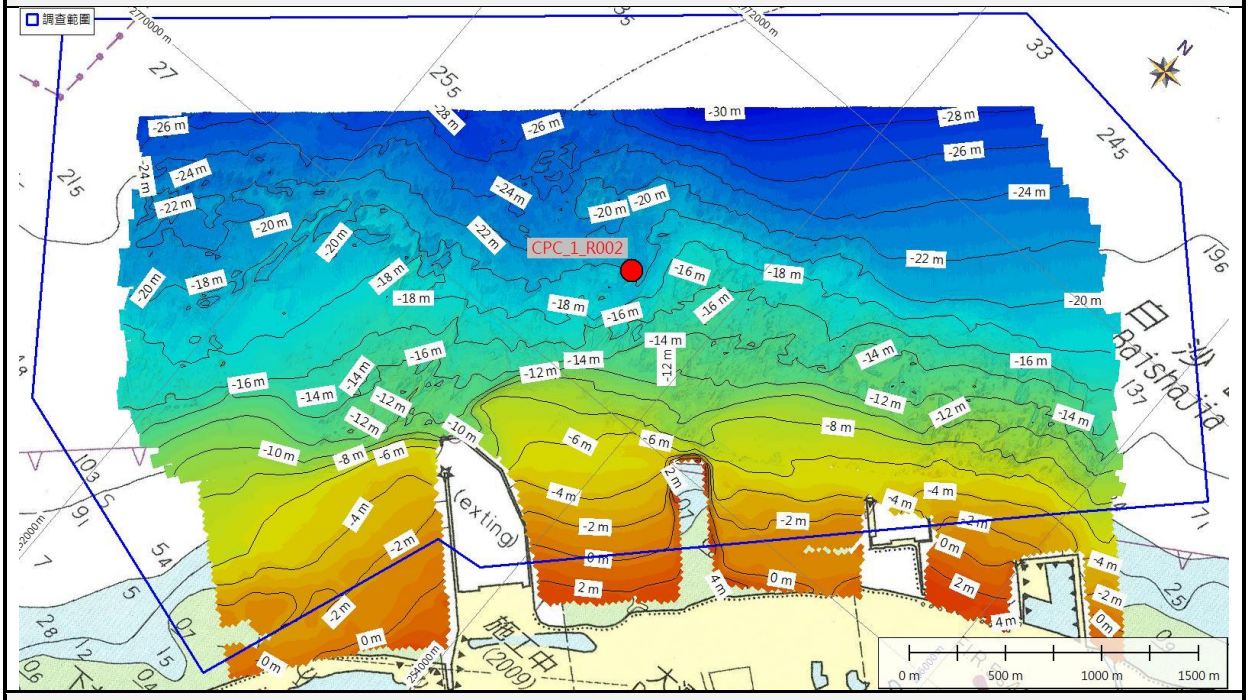


ROV影像

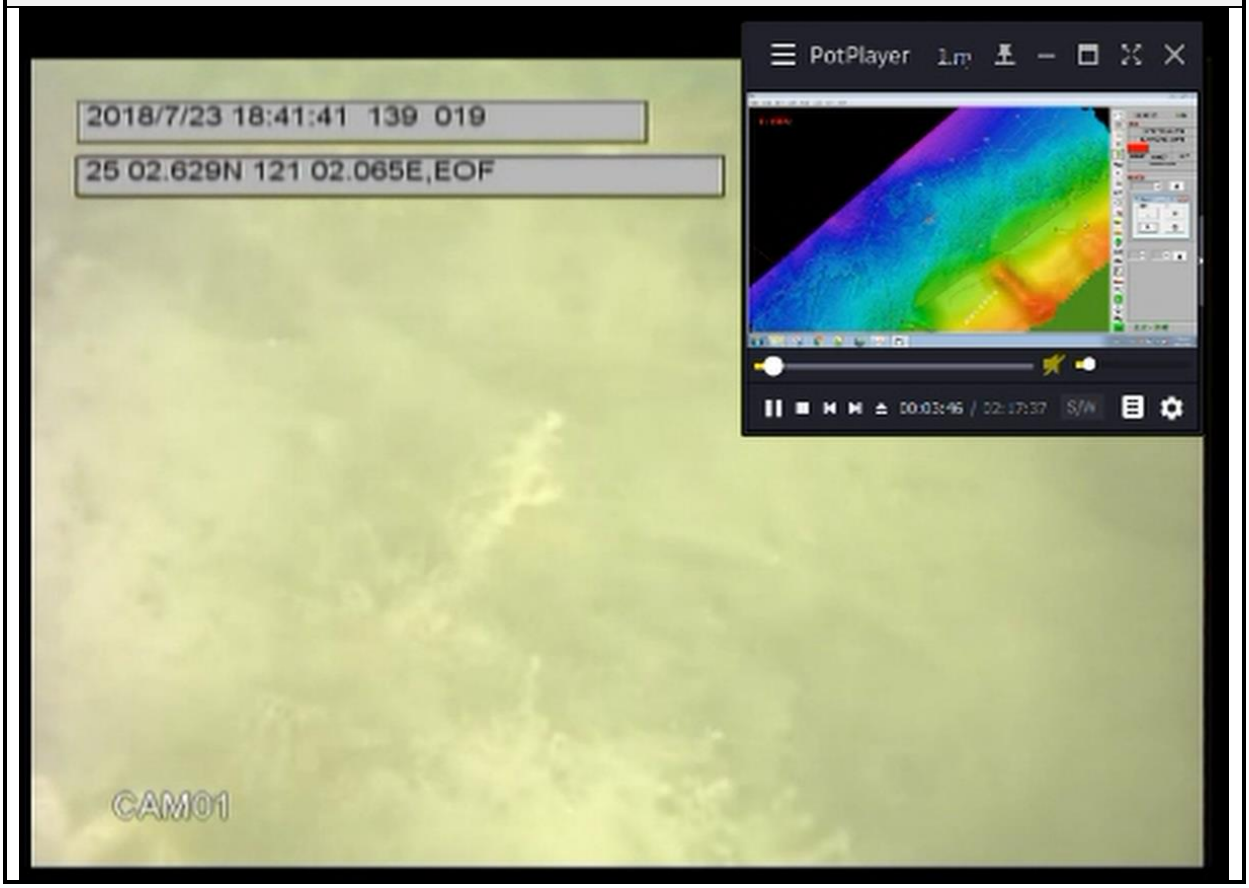


編號	經度	緯度
CPC_1_R002	25-02.629	121-02.065

影像位置

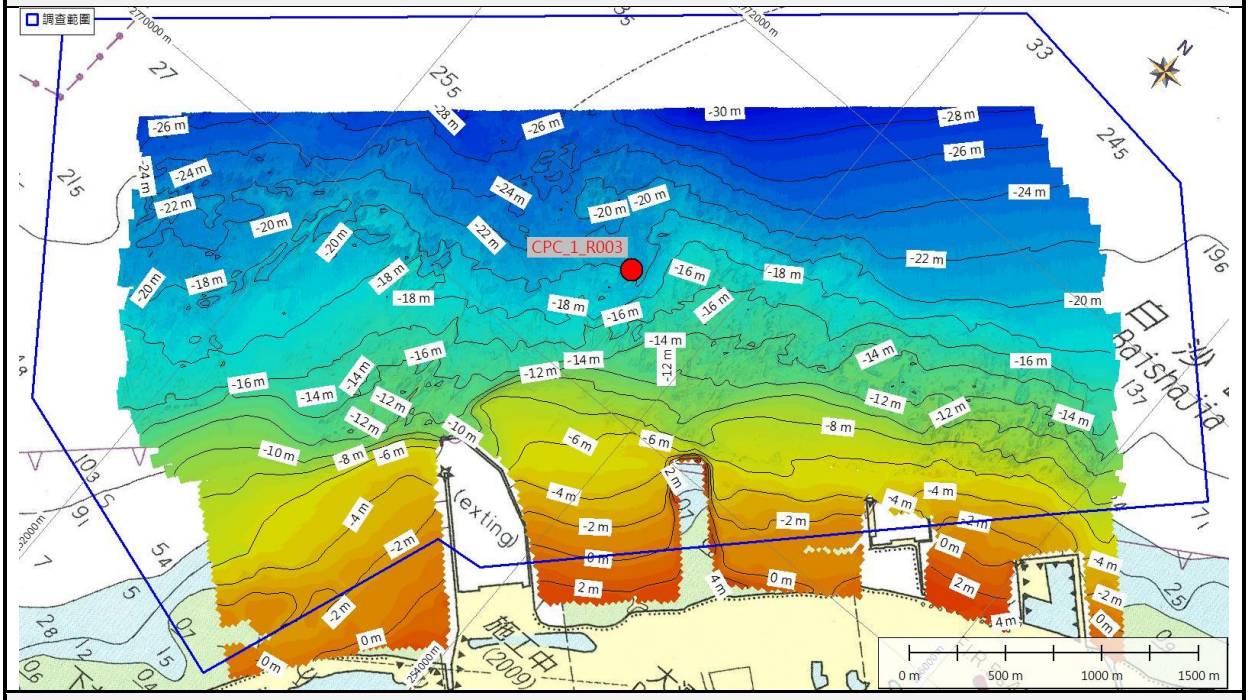


ROV影像

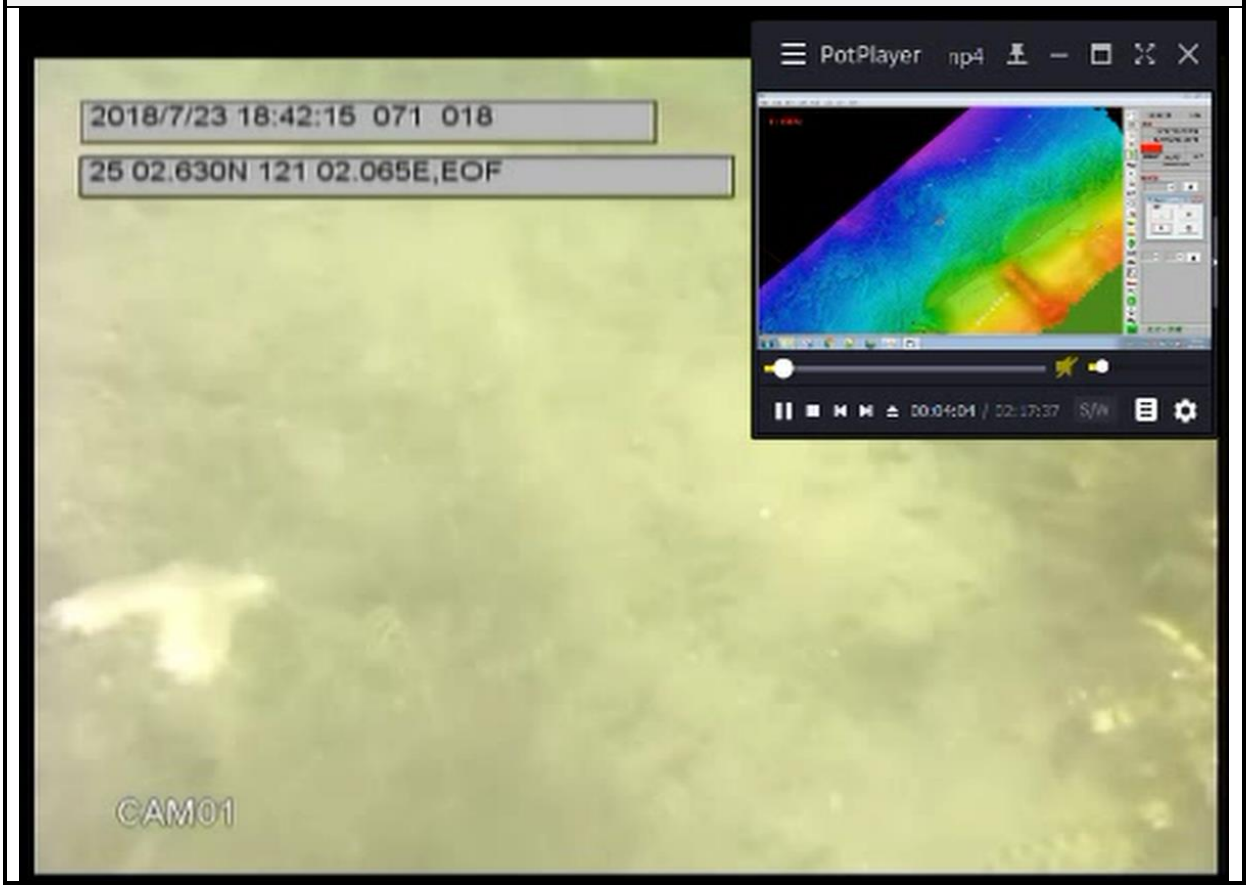


編號	經度	緯度
CPC_1_R003	121-02.065	25-02.630

影像位置

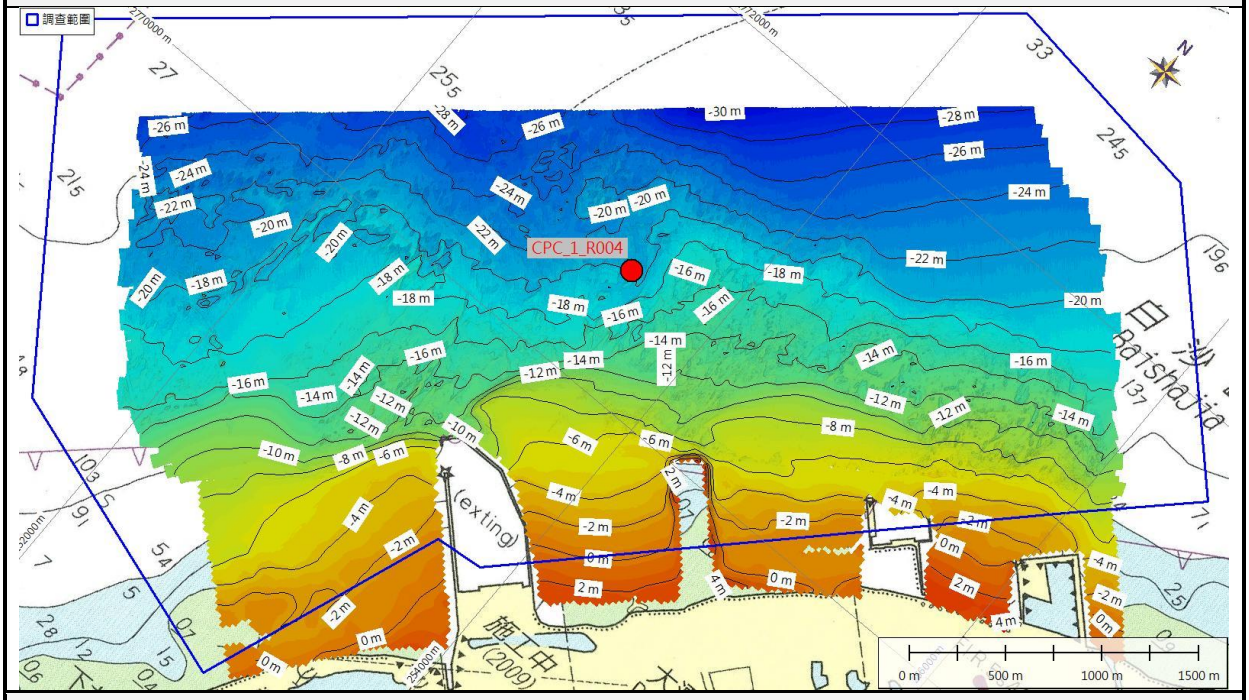


ROV影像

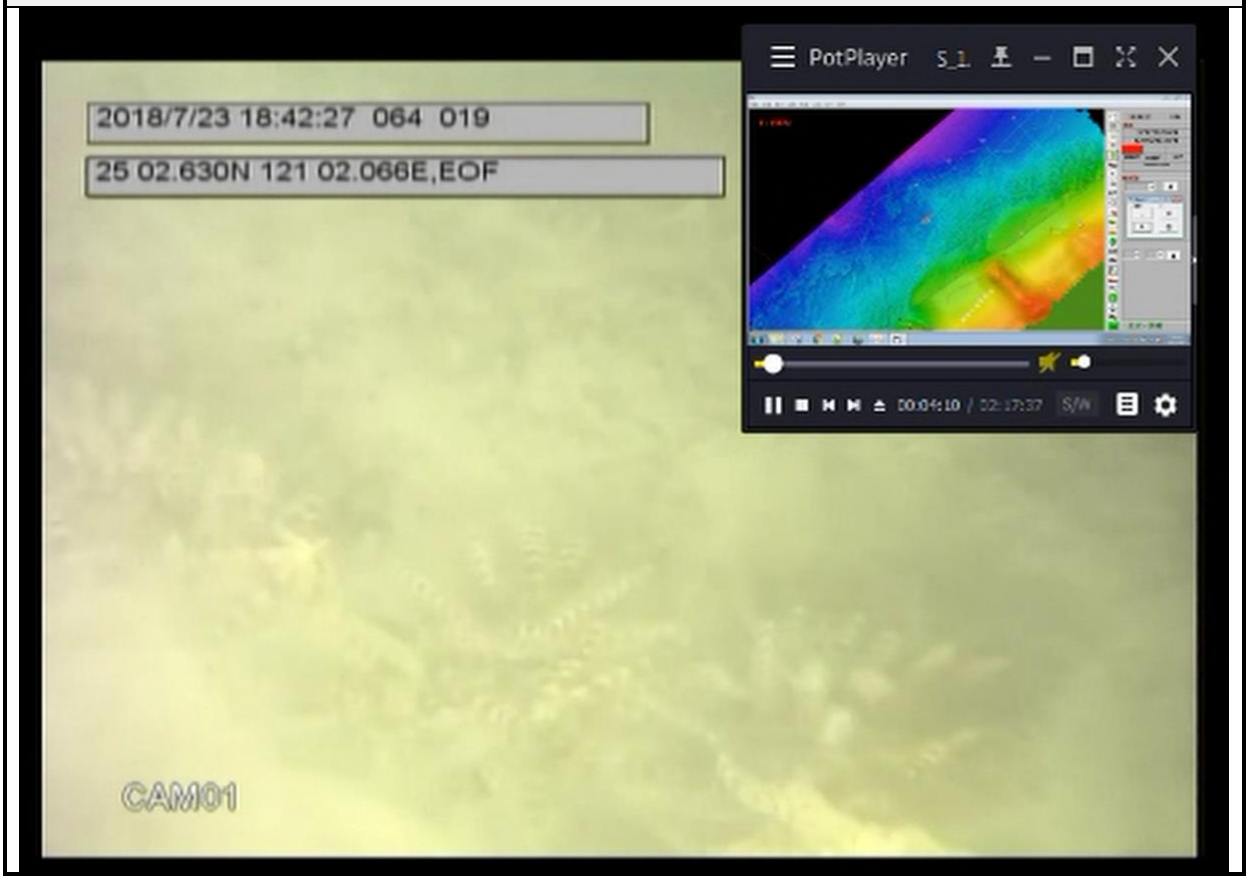


編號	經度	緯度
CPC_1_R004	121-02.066	25-02.630

影像位置

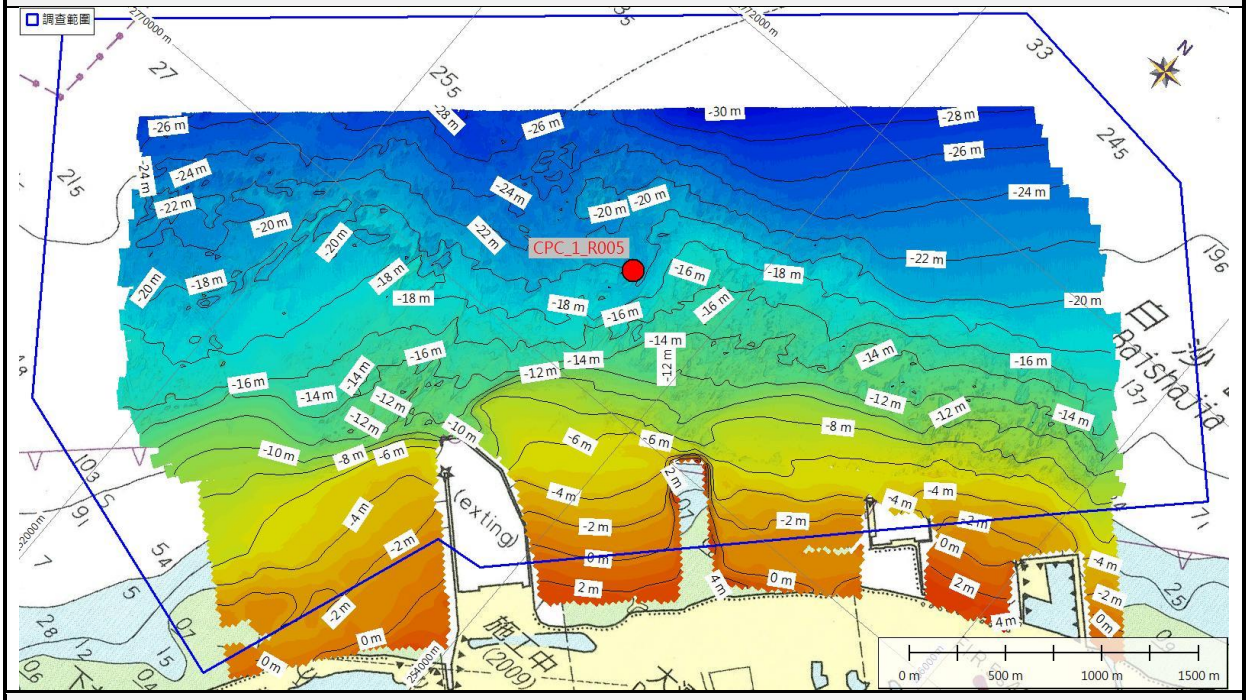


ROV影像

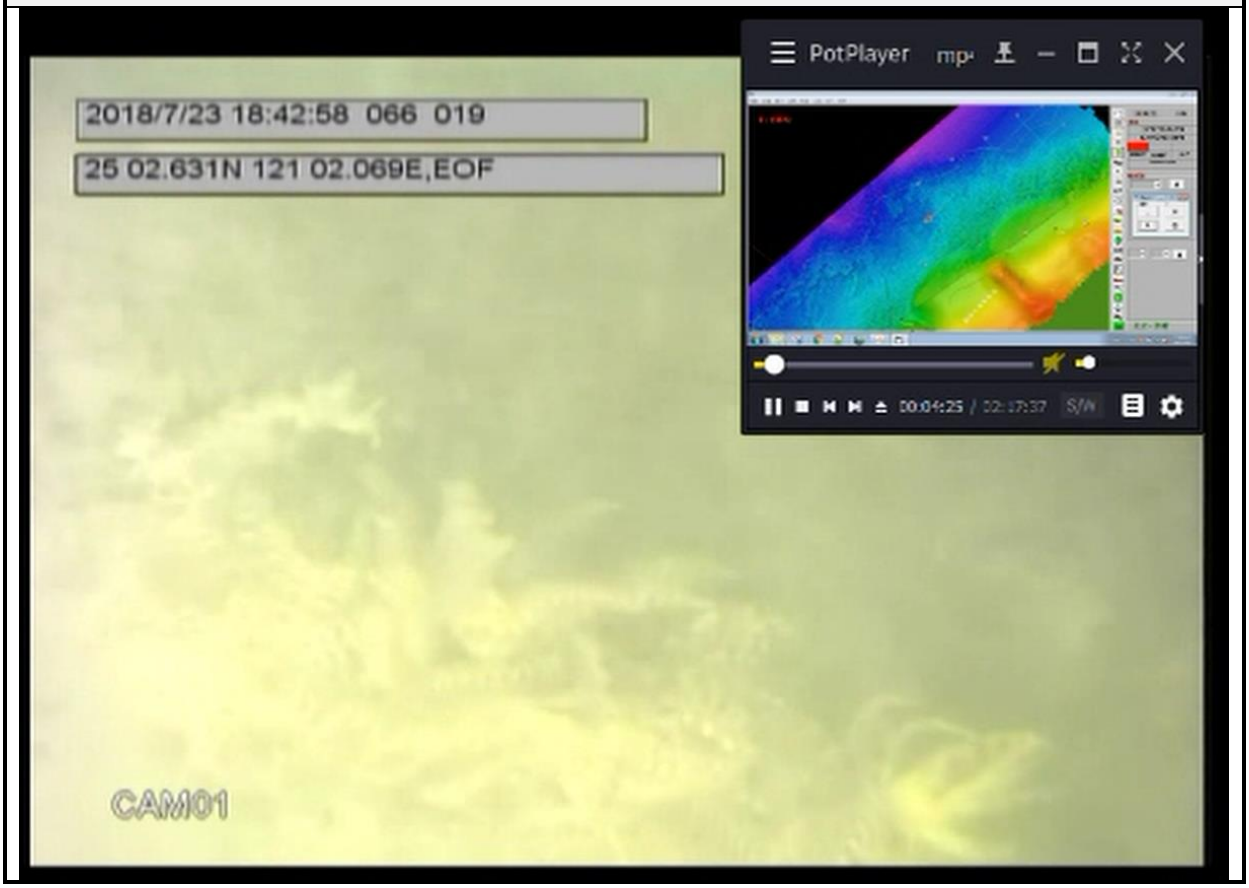


編號	經度	緯度
CPC_1_R005	121-02.069	25-02.631

影像位置

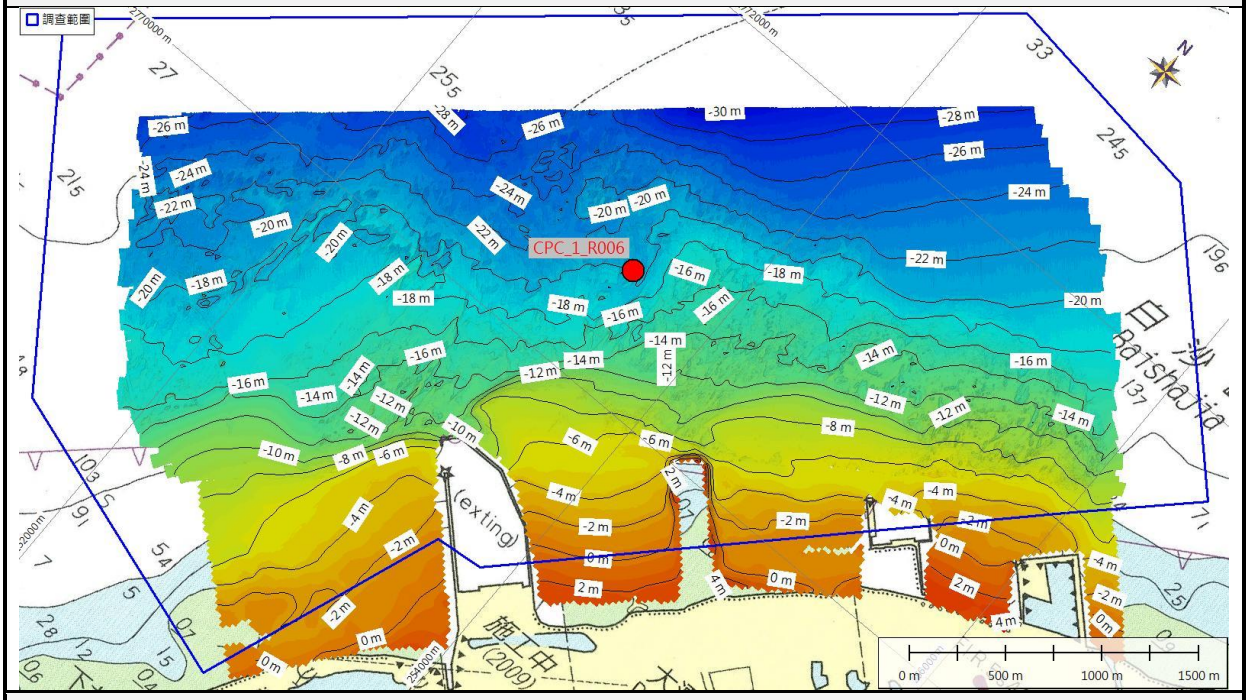


ROV影像

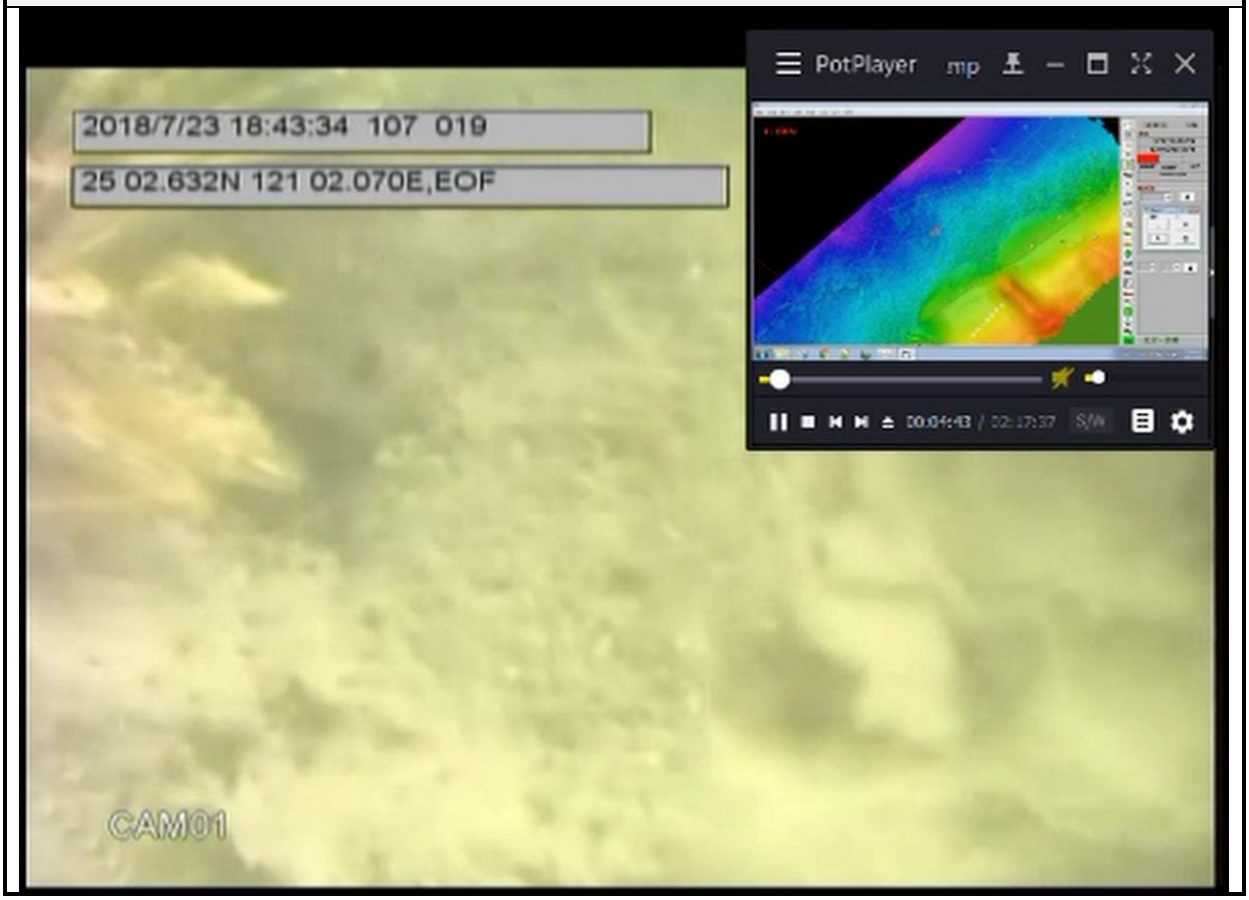


編號	經度	緯度
CPC_1_R006	121-02.070	25-02.632

影像位置

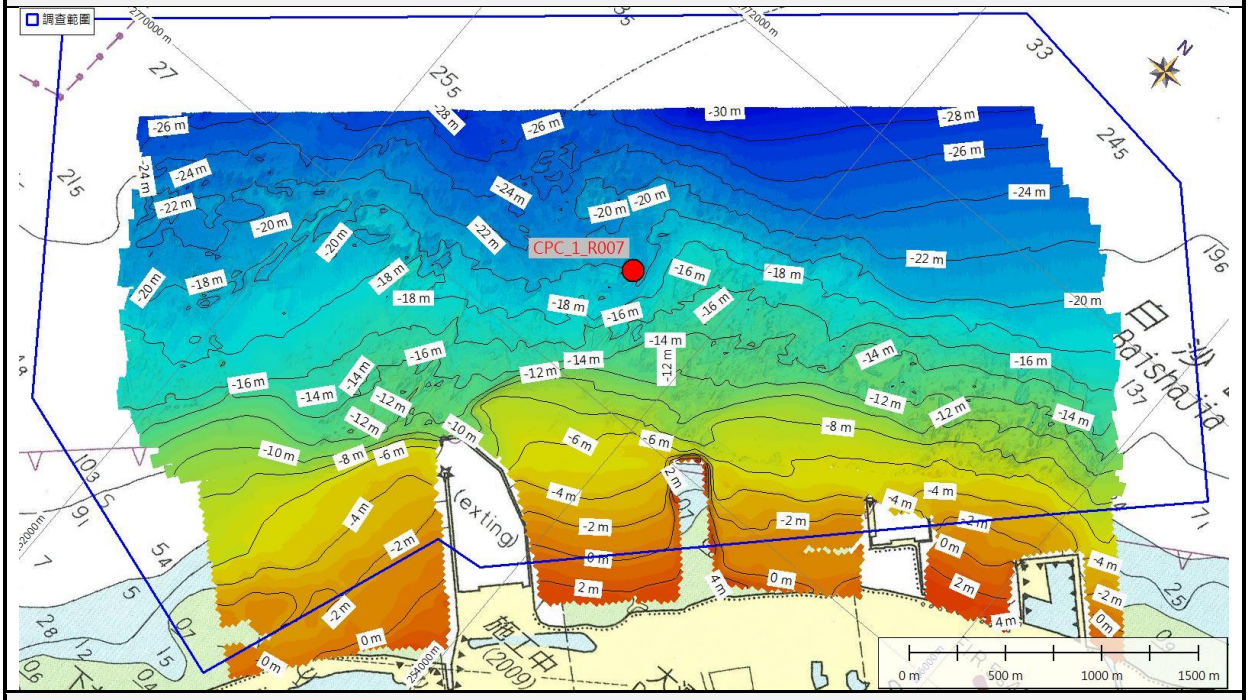


ROV影像

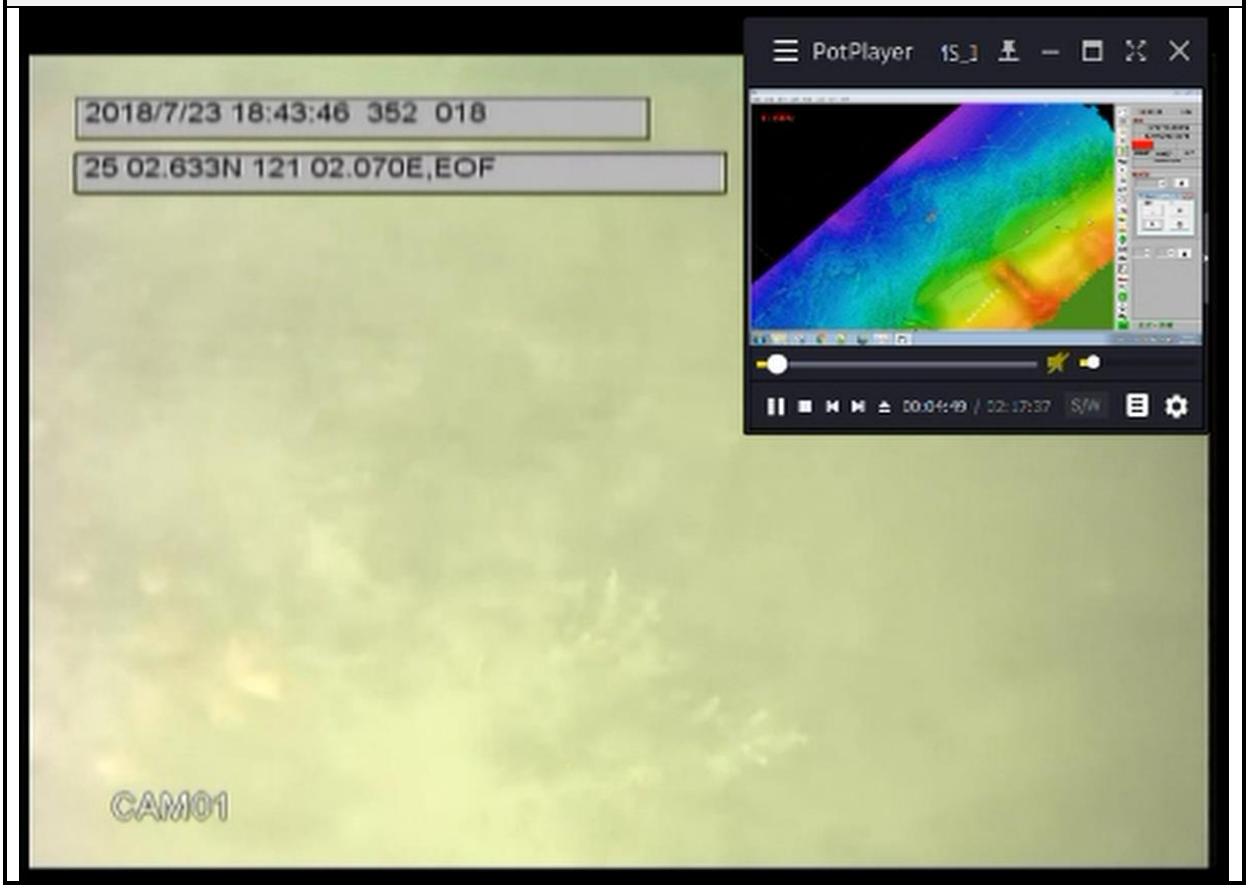


編號	經度	緯度
CPC_1_R007	121-02.070	25-02.633

影像位置

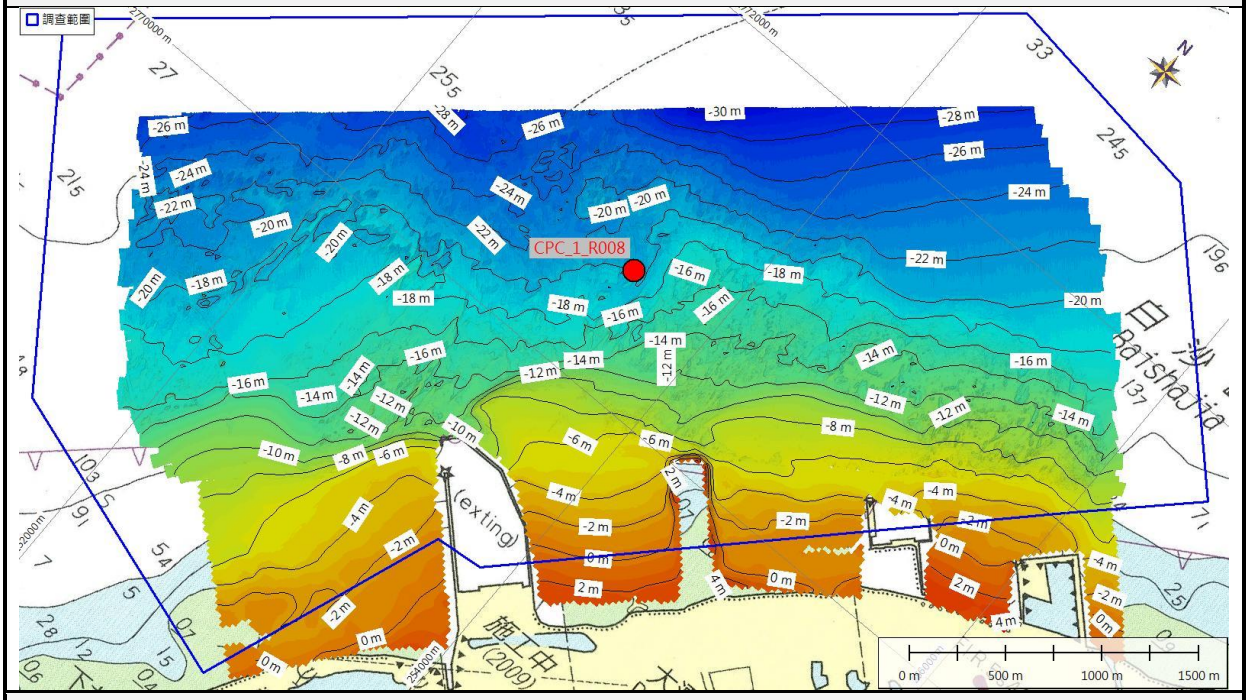


ROV影像

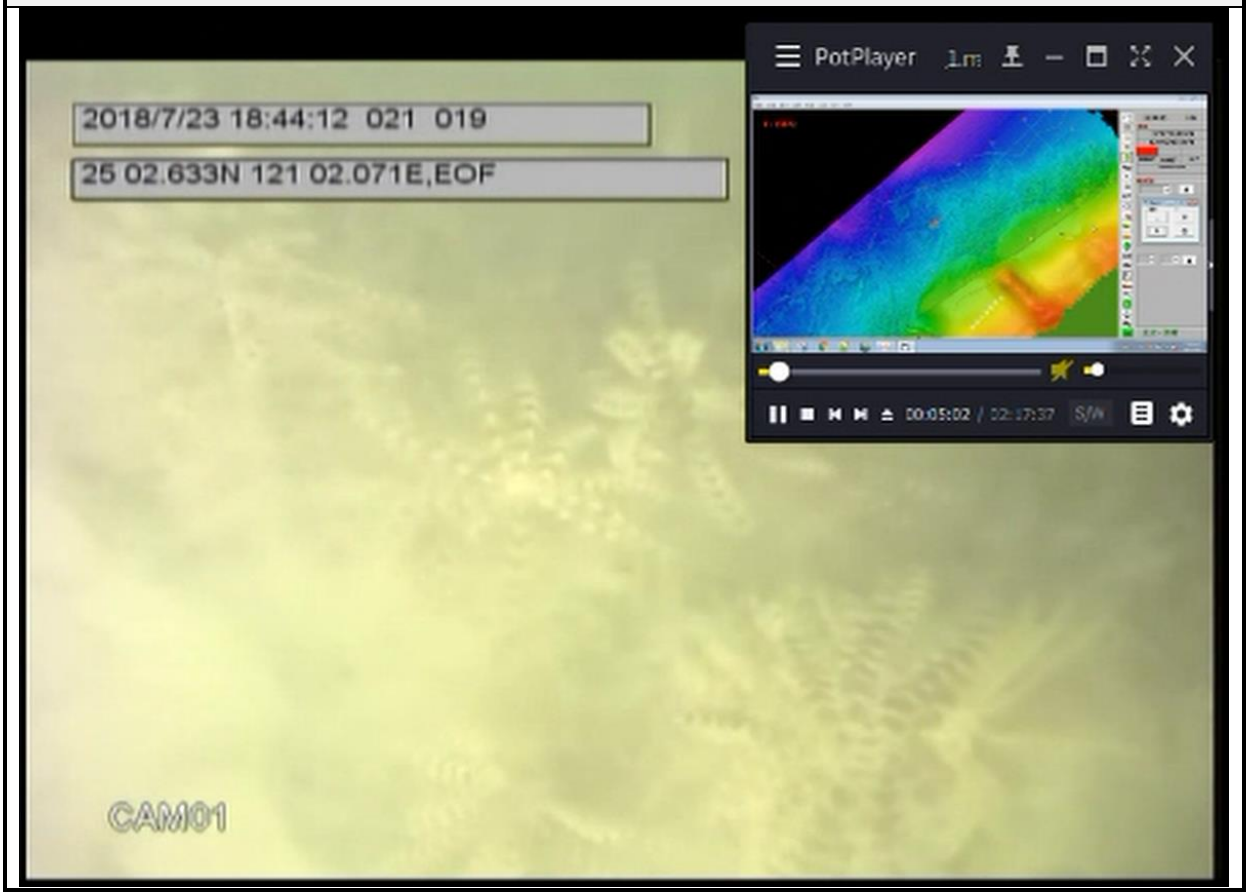


編號	經度	緯度
CPC_1_R008	121-02.071	25-02.633

影像位置

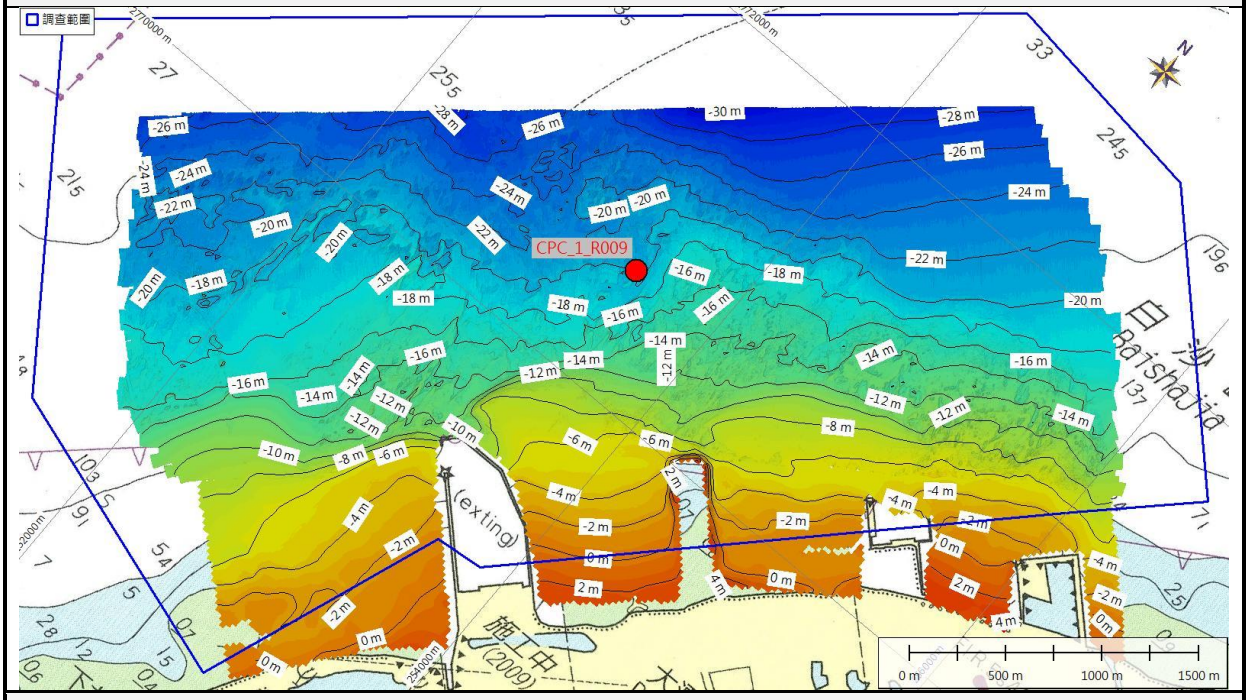


ROV影像

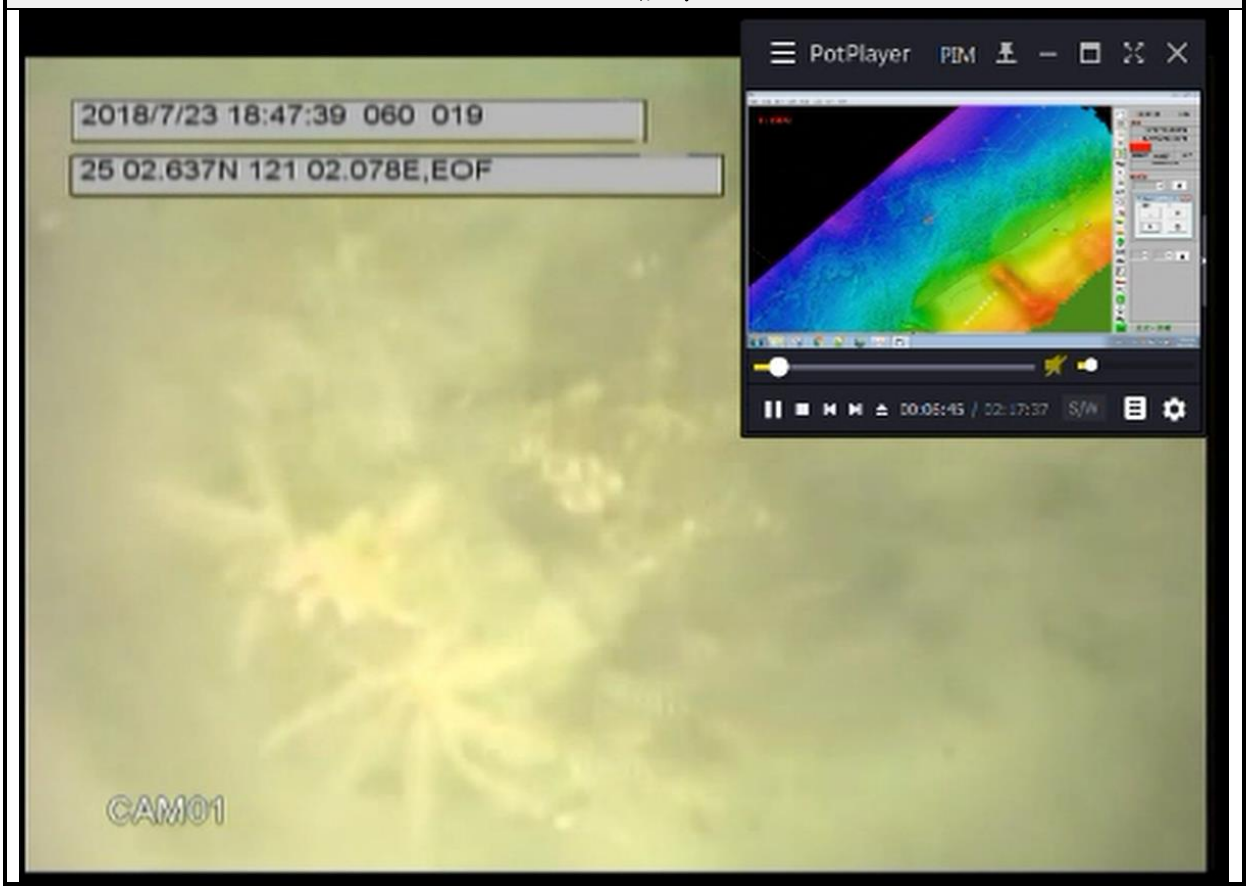


編號	經度	緯度
CPC_1_R009	121-02.078	25-02.637

影像位置

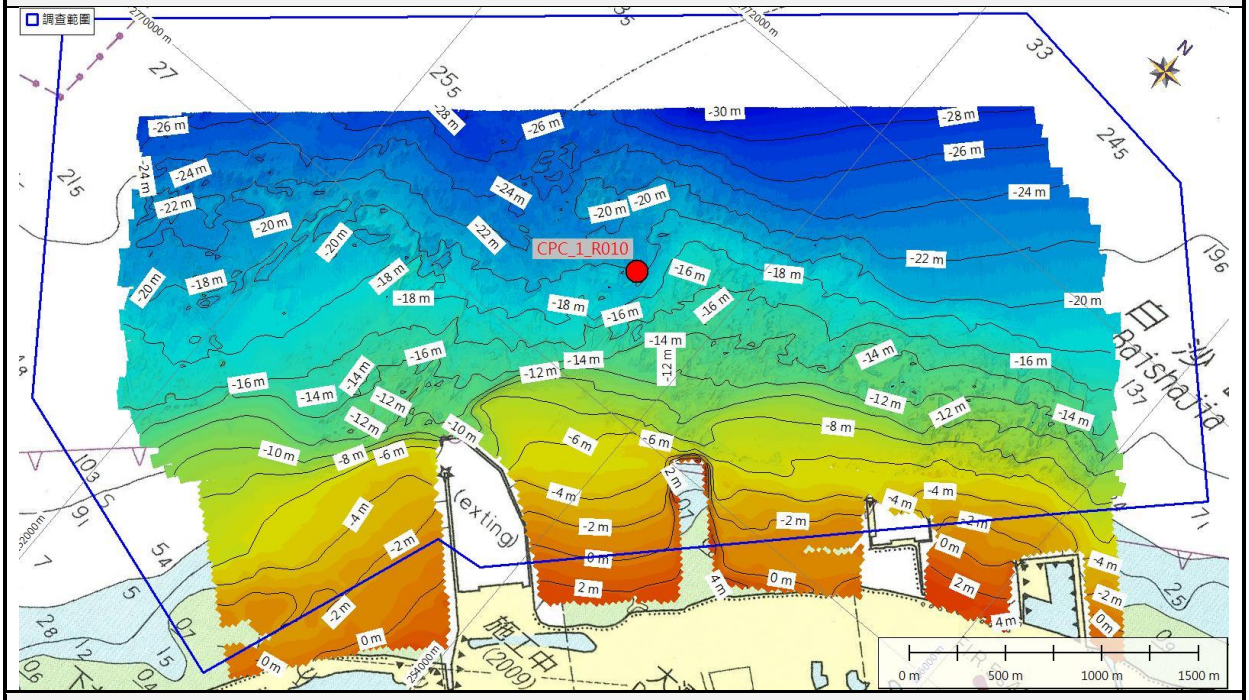


ROV影像

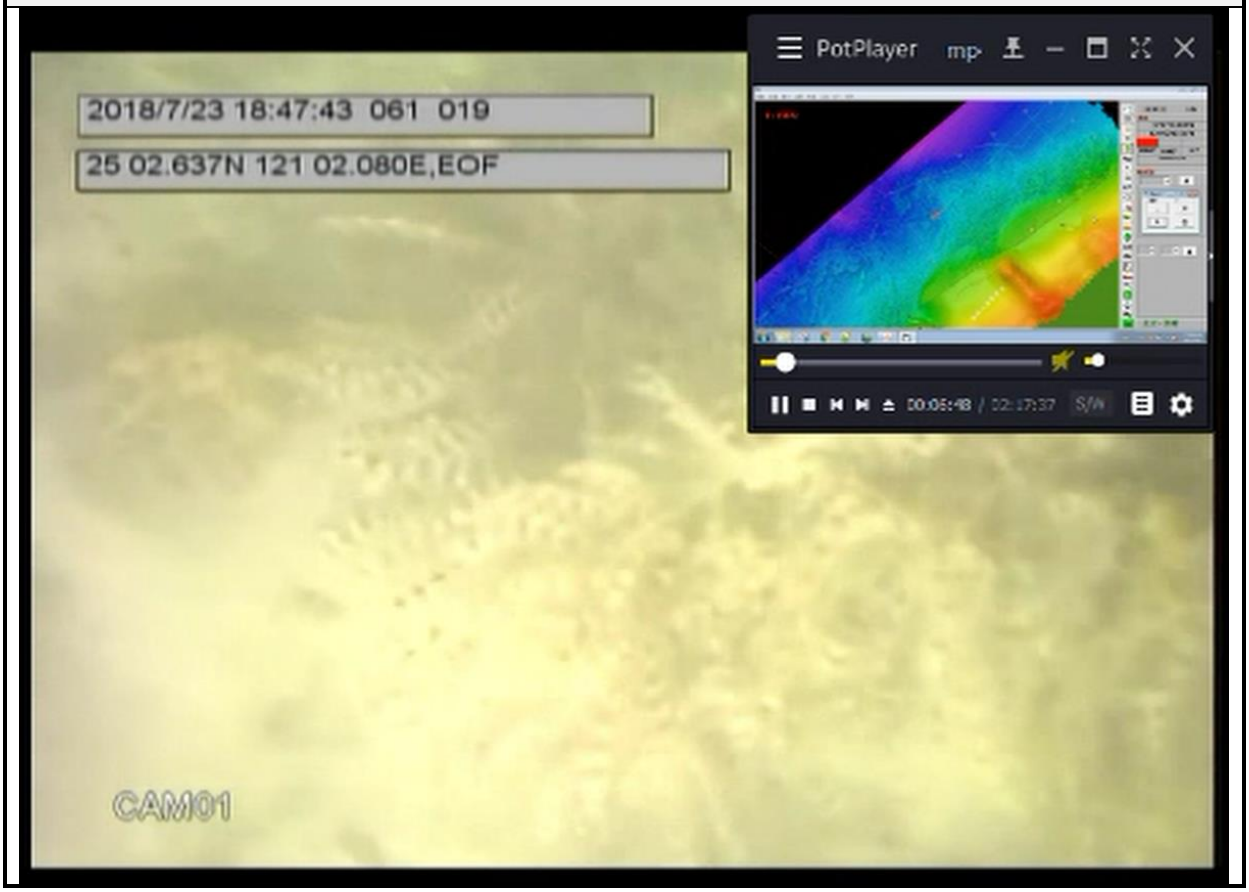


編號	經度	緯度
CPC_1_R010	121-02.080	25-02.637

影像位置

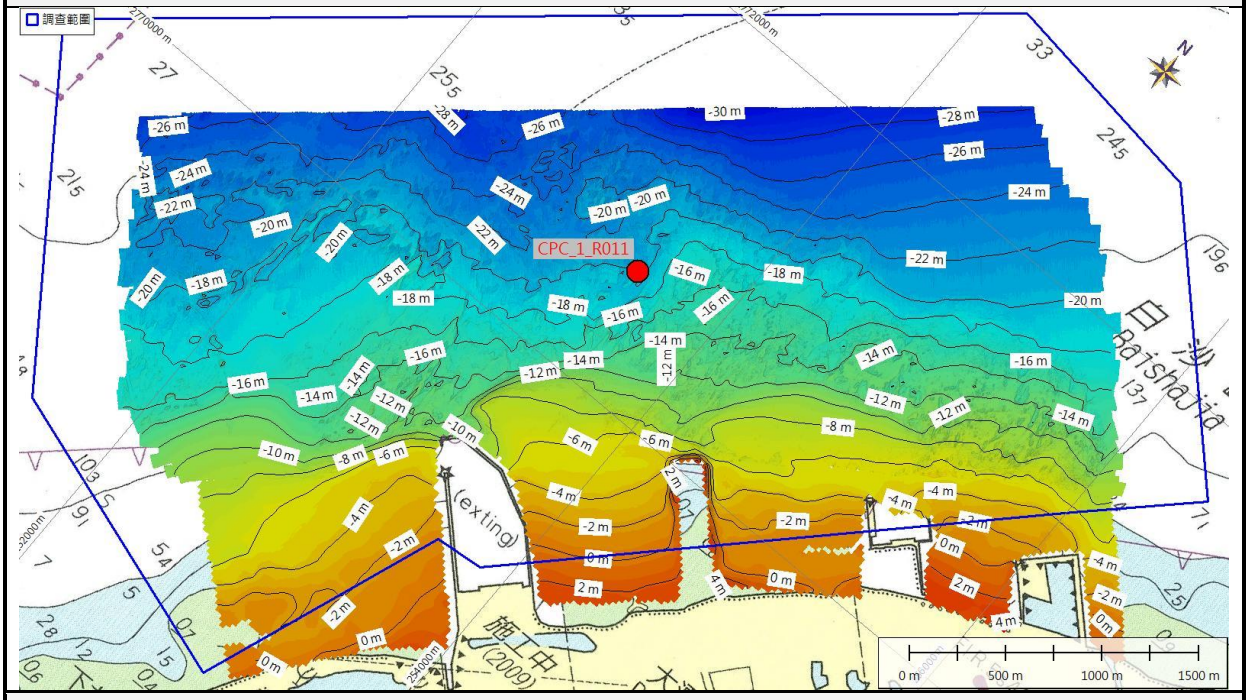


ROV影像

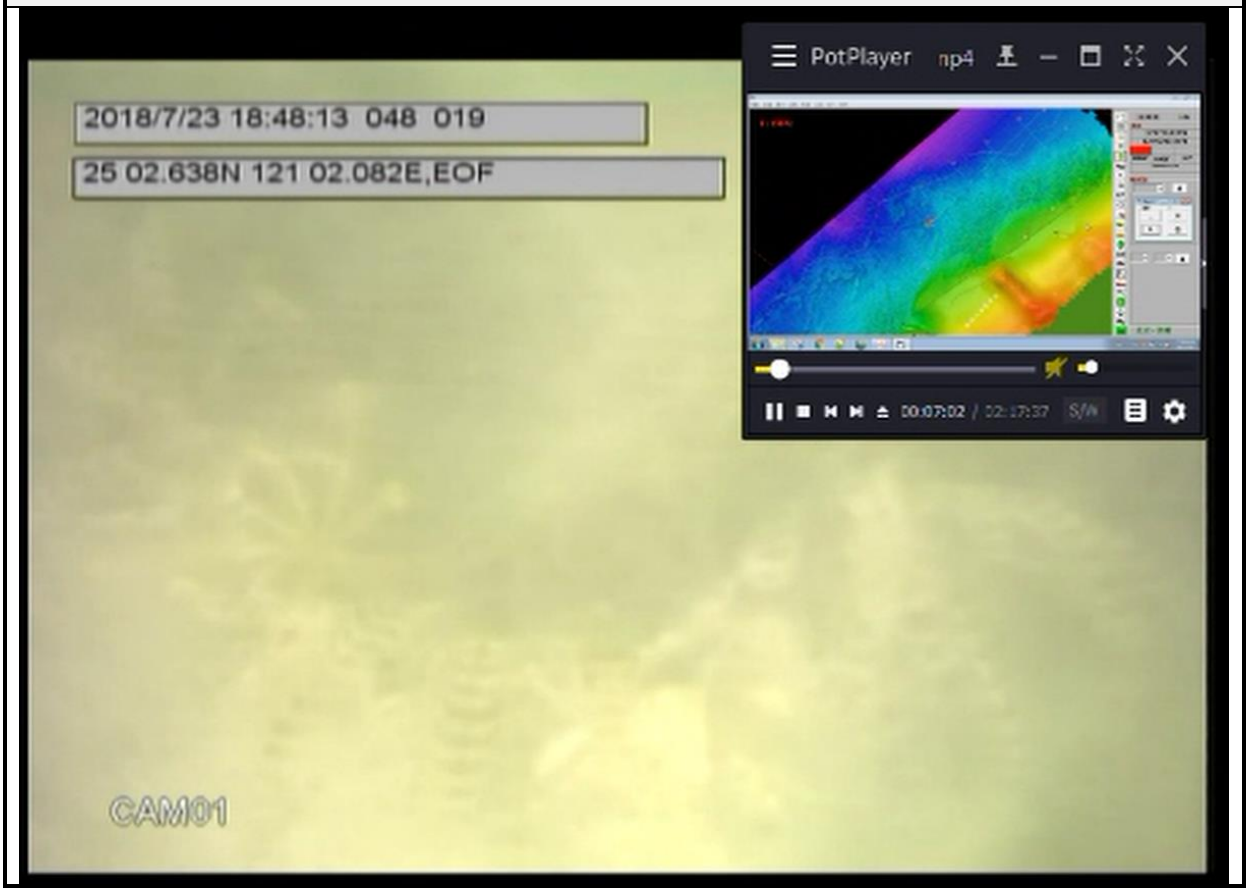


編號	經度	緯度
CPC_1_R011	121-02.082	25-02.638

影像位置

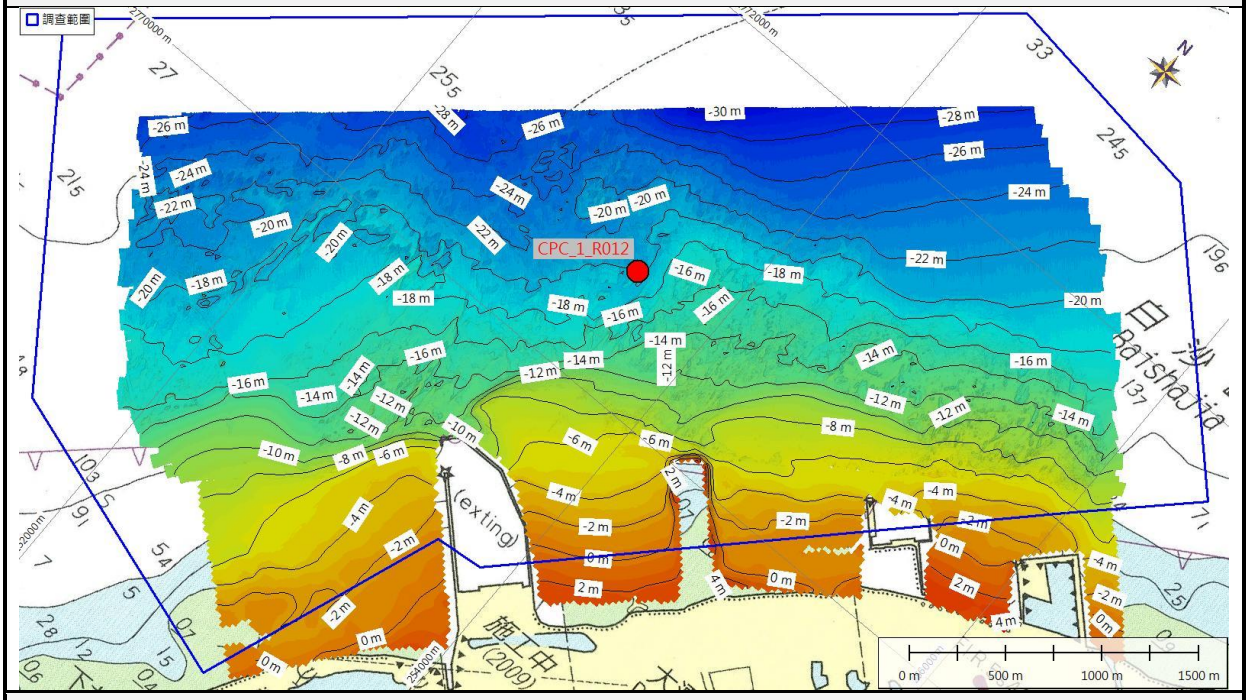


ROV影像

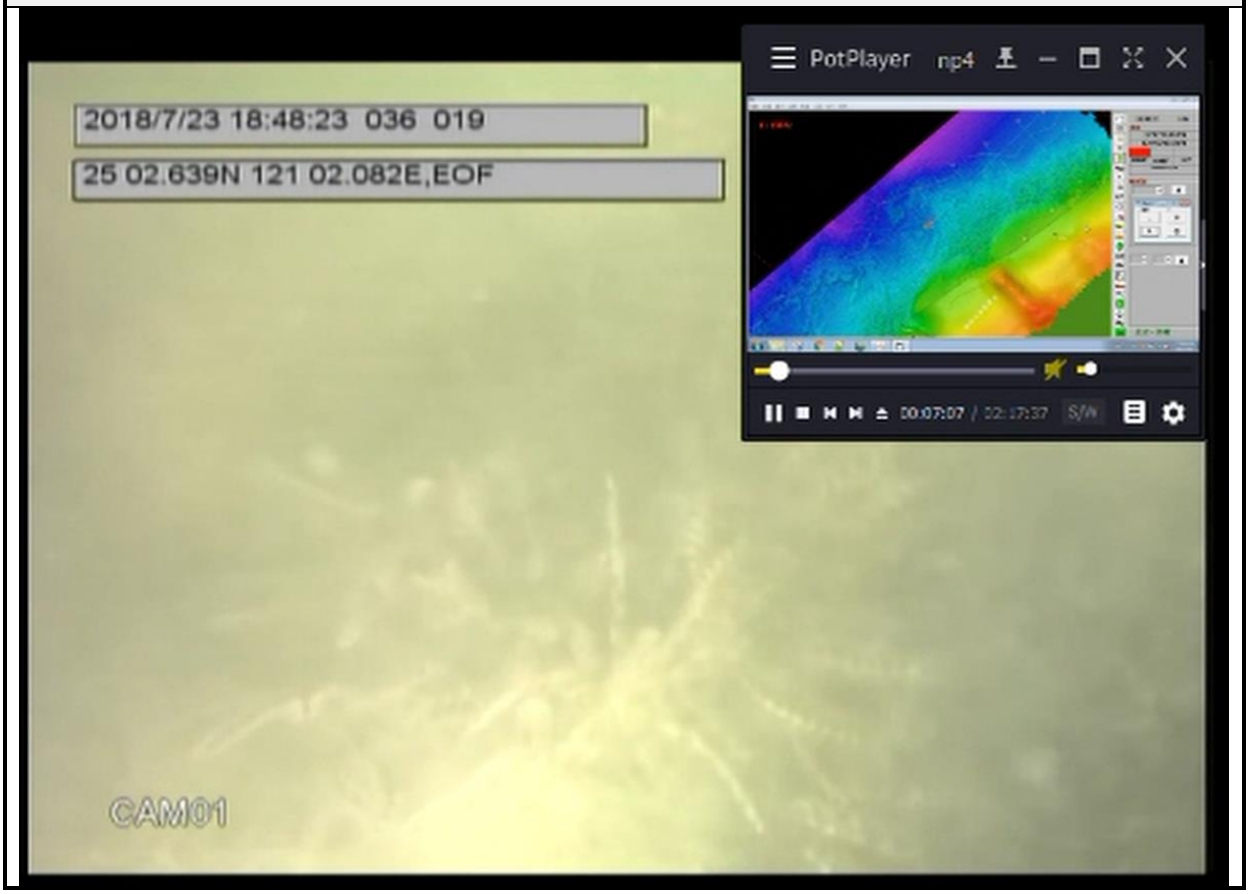


編號	經度	緯度
CPC_1_R012	121-02.082	25-02.639

影像位置

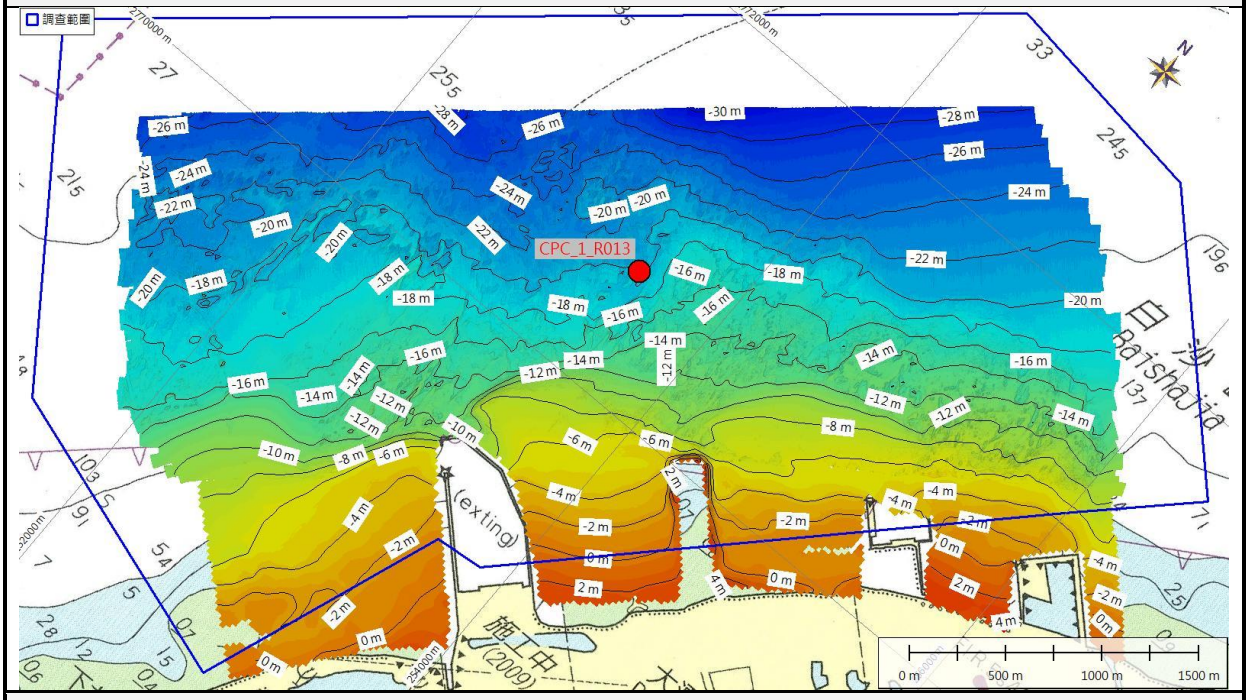


ROV影像

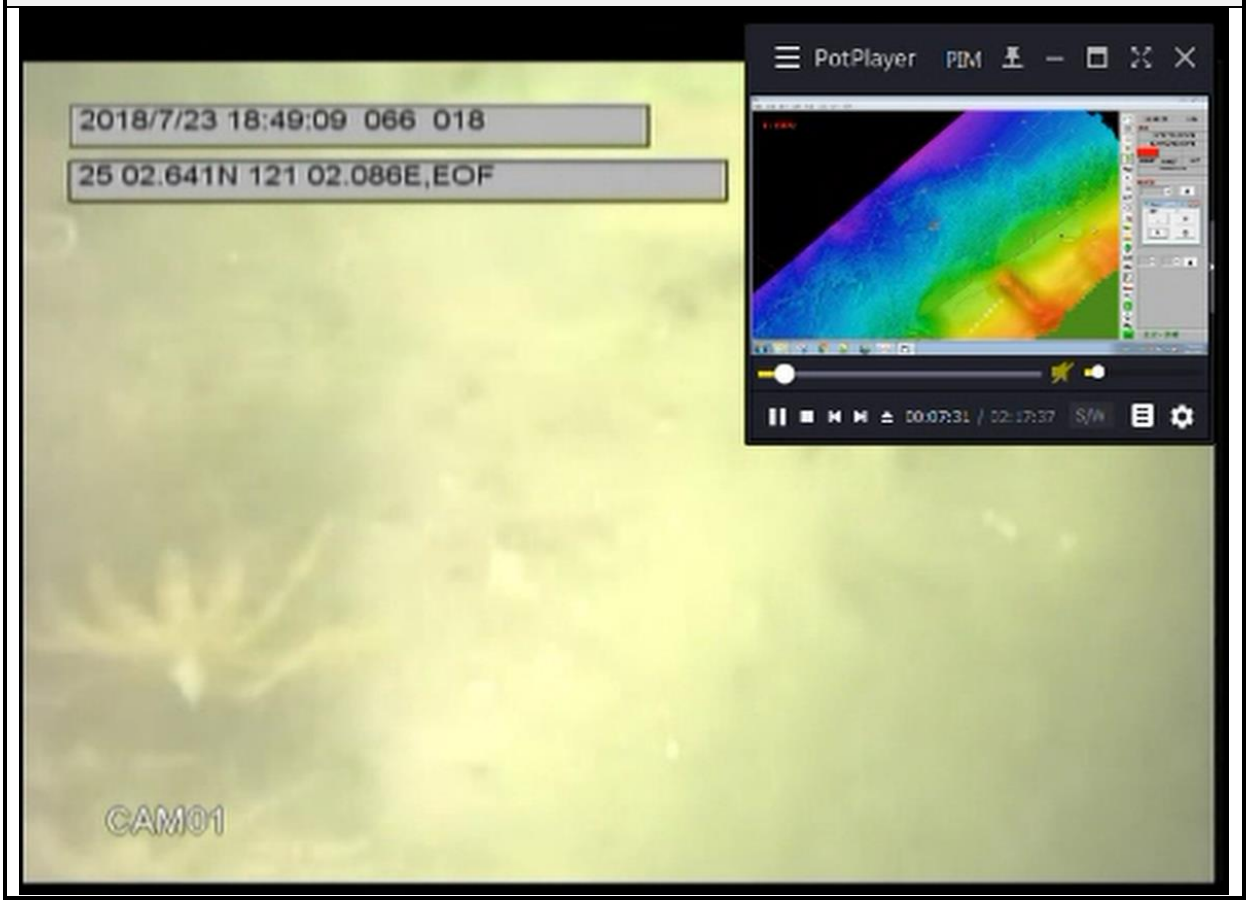


編號	經度	緯度
CPC_1_R013	121-02.086	25-02.641

影像位置

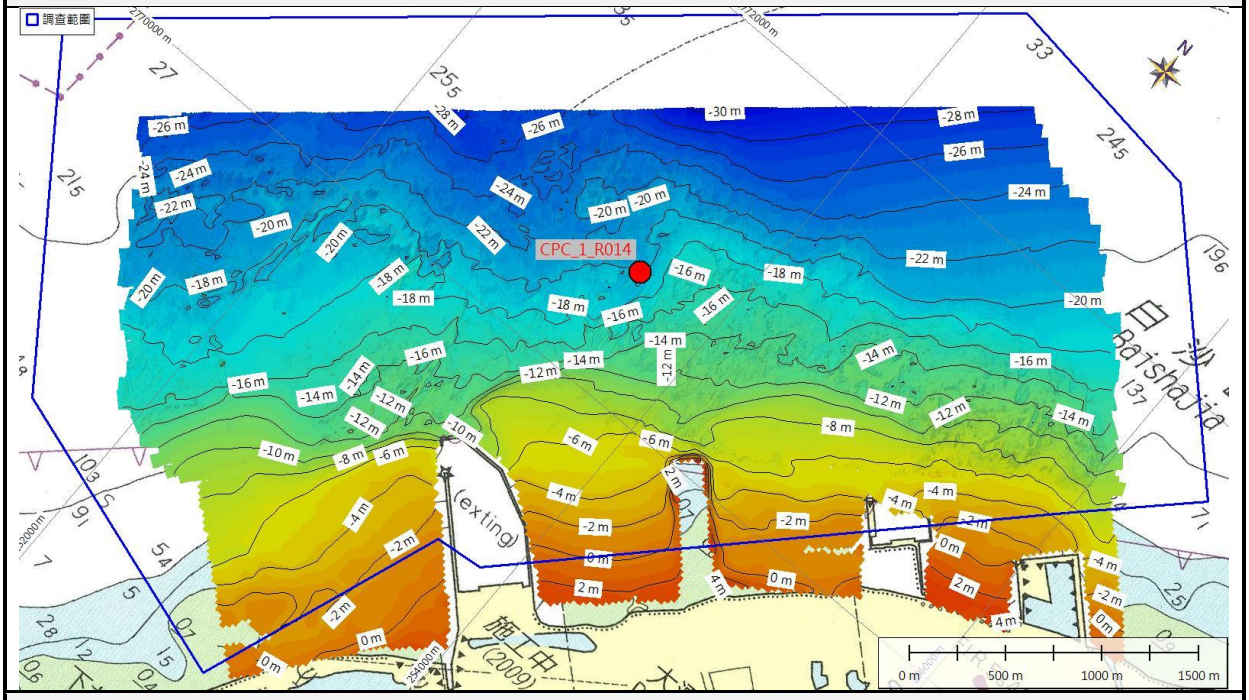


ROV影像

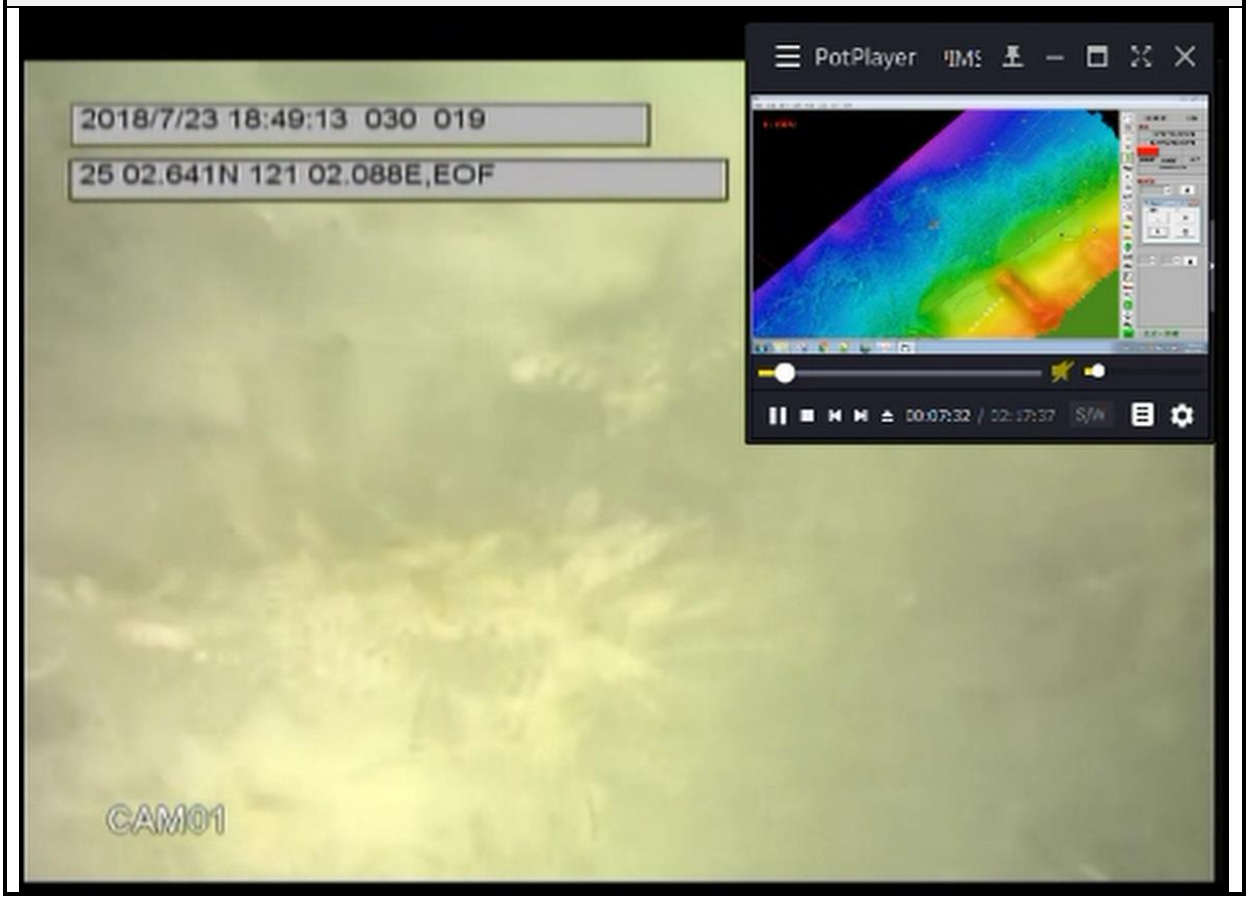


編號	經度	緯度
CPC_1_R014	121-02.088	25-02.641

影像位置

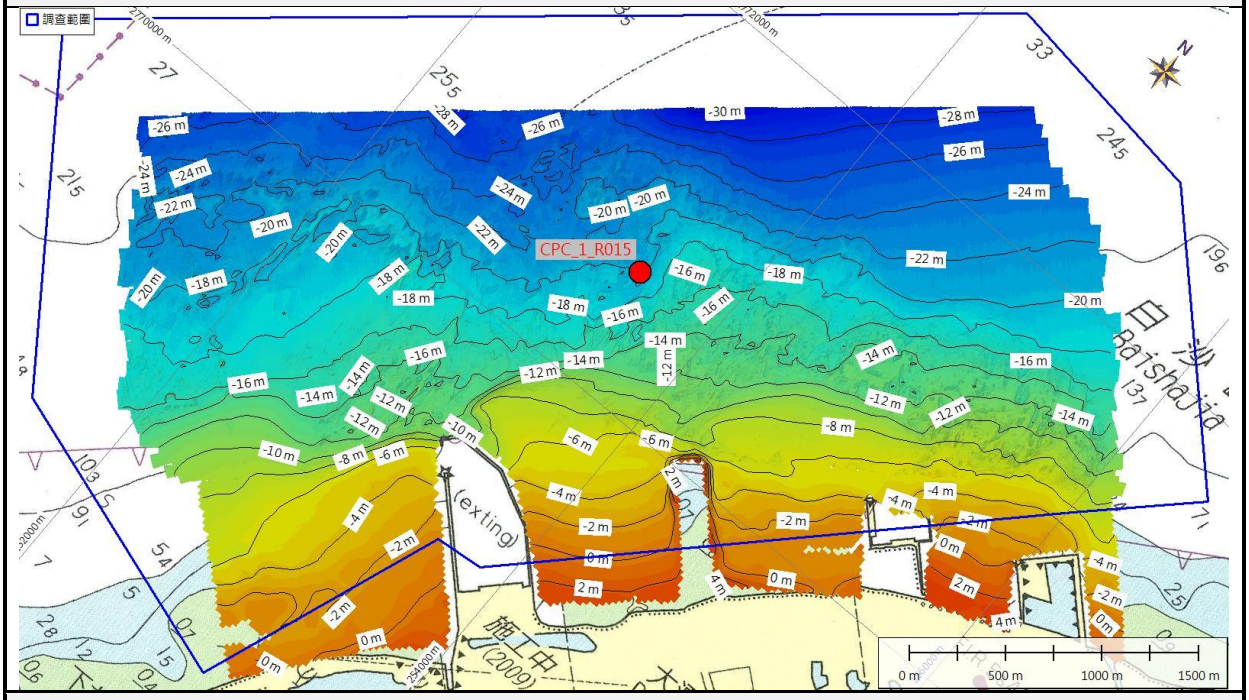


ROV影像

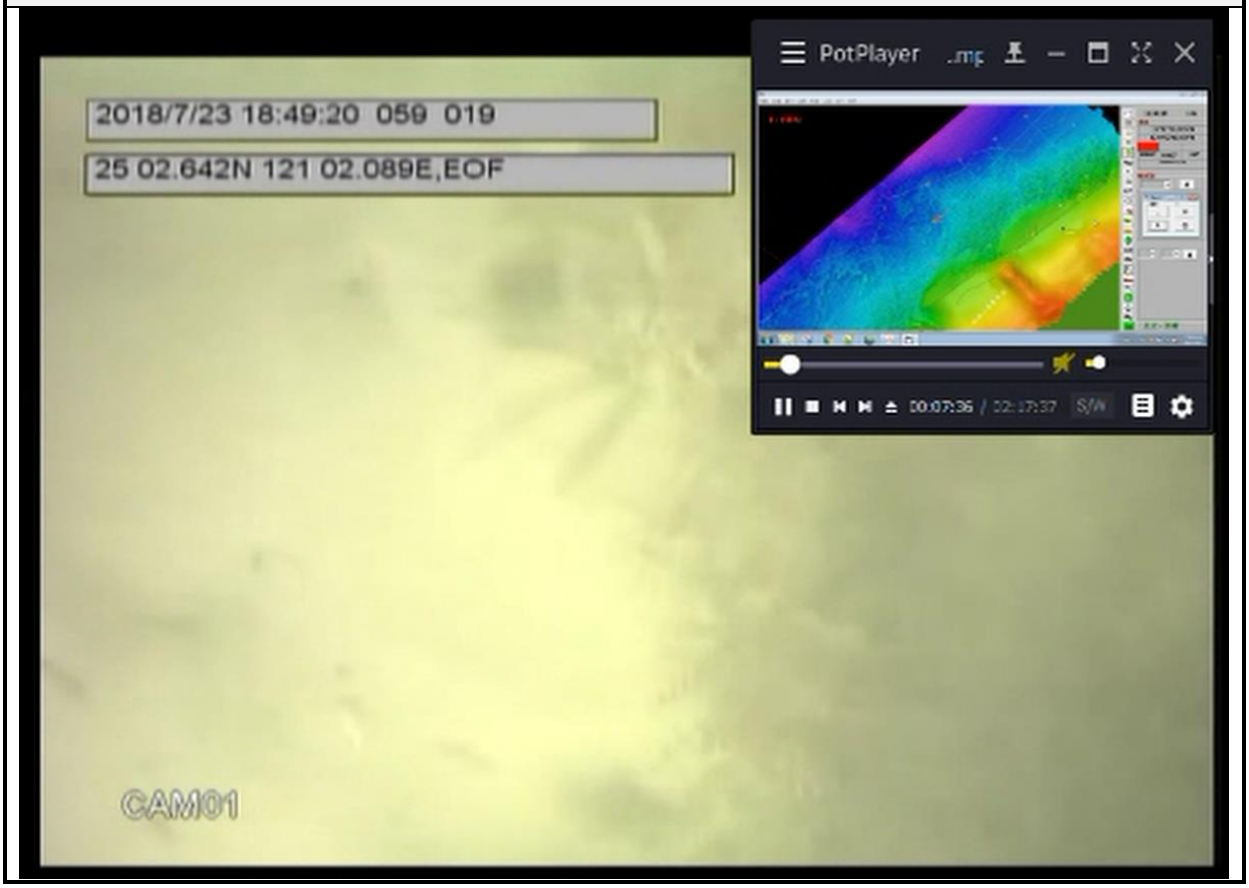


編號	經度	緯度
CPC_1_R015	121-02.089	25-02.642

影像位置

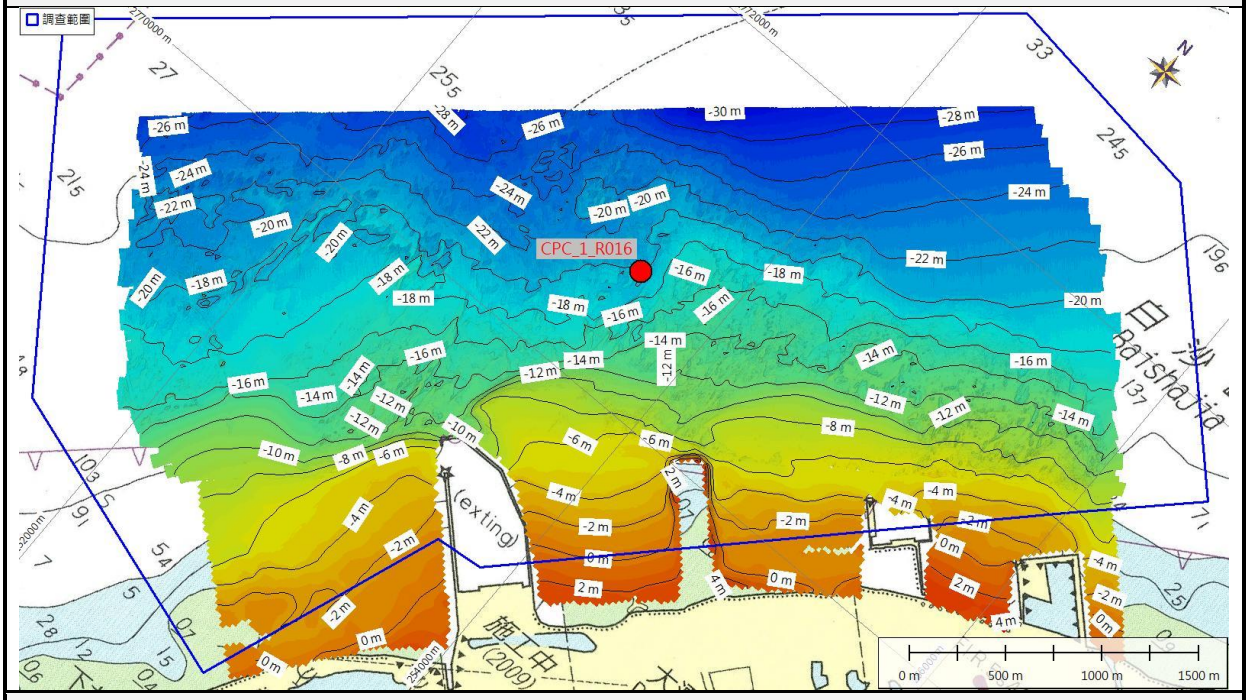


ROV影像

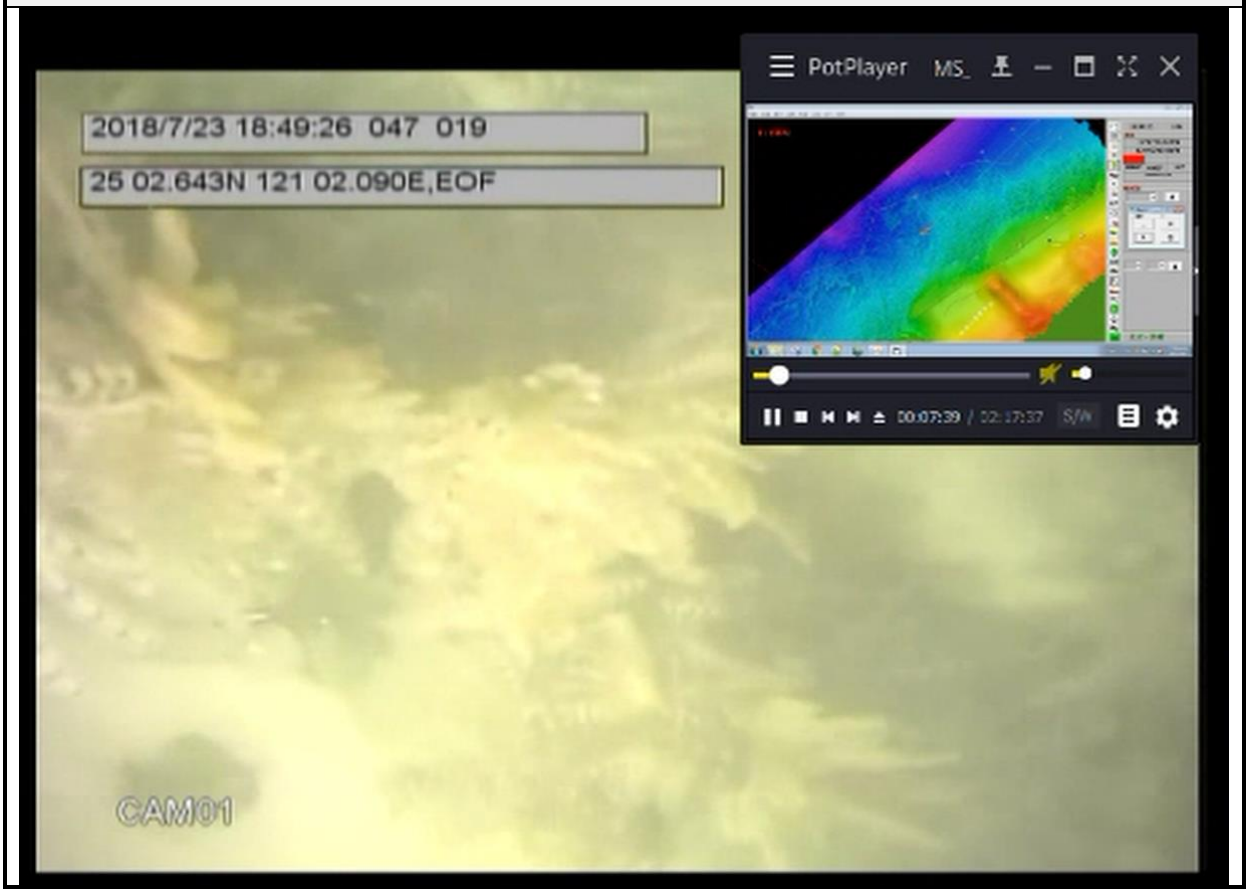


編號	經度	緯度
CPC_1_R016	121-02.090	25-02.643

影像位置

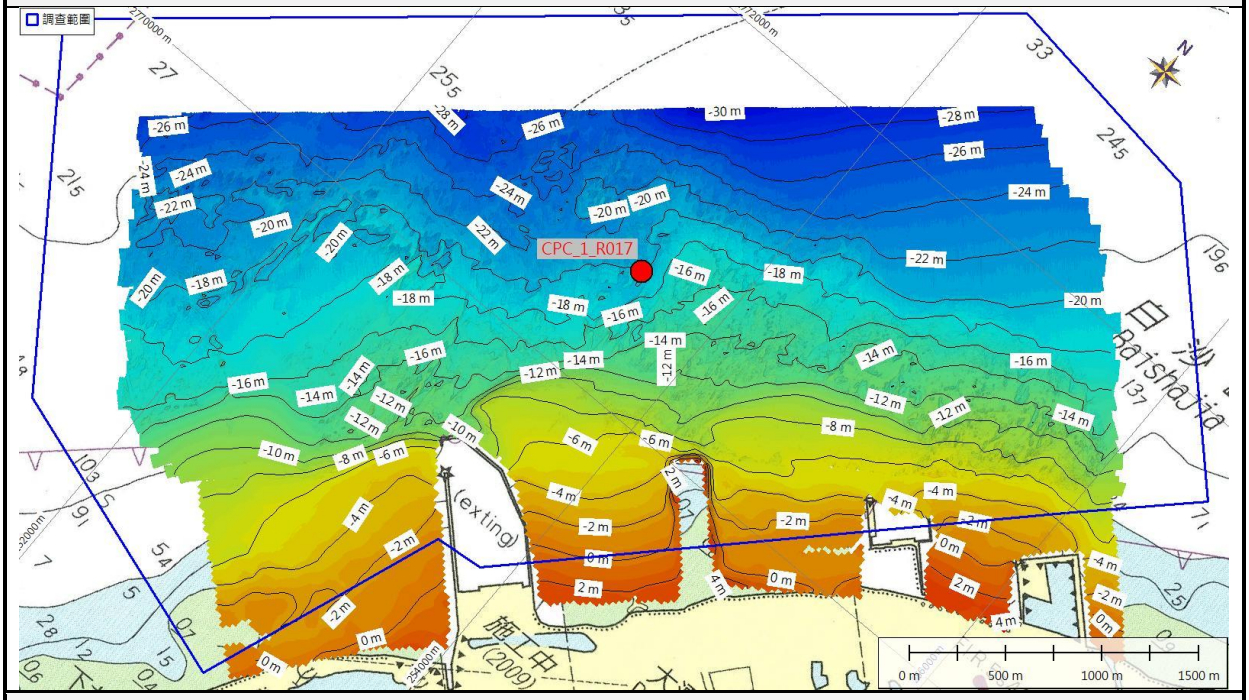


ROV影像

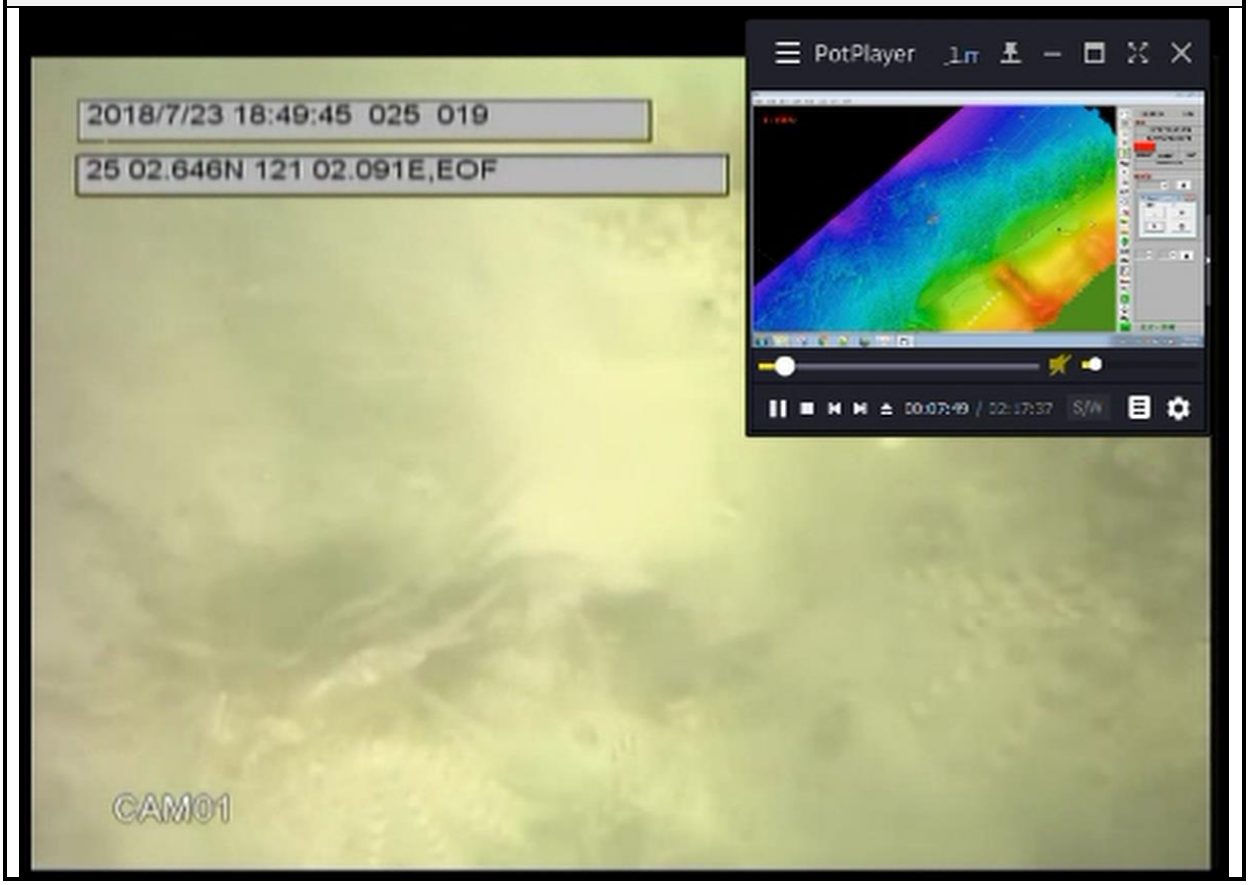


編號	經度	緯度
CPC_1_R017	121-02.091	25-02.646

影像位置

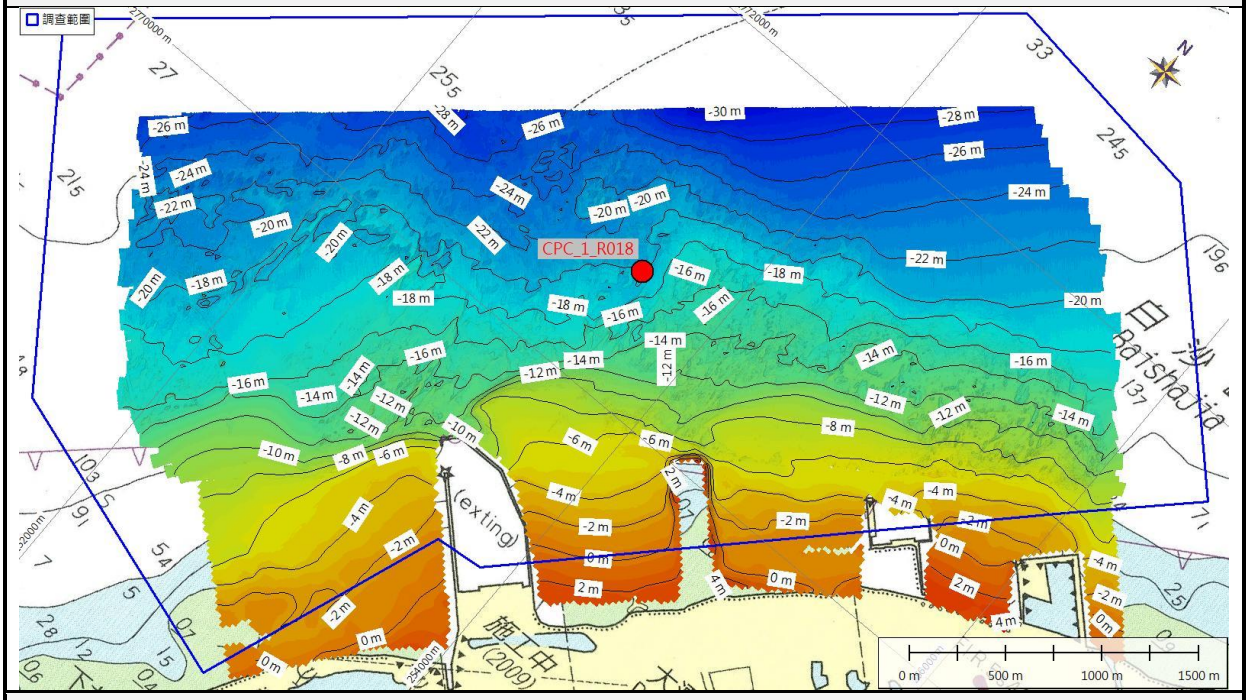


ROV影像

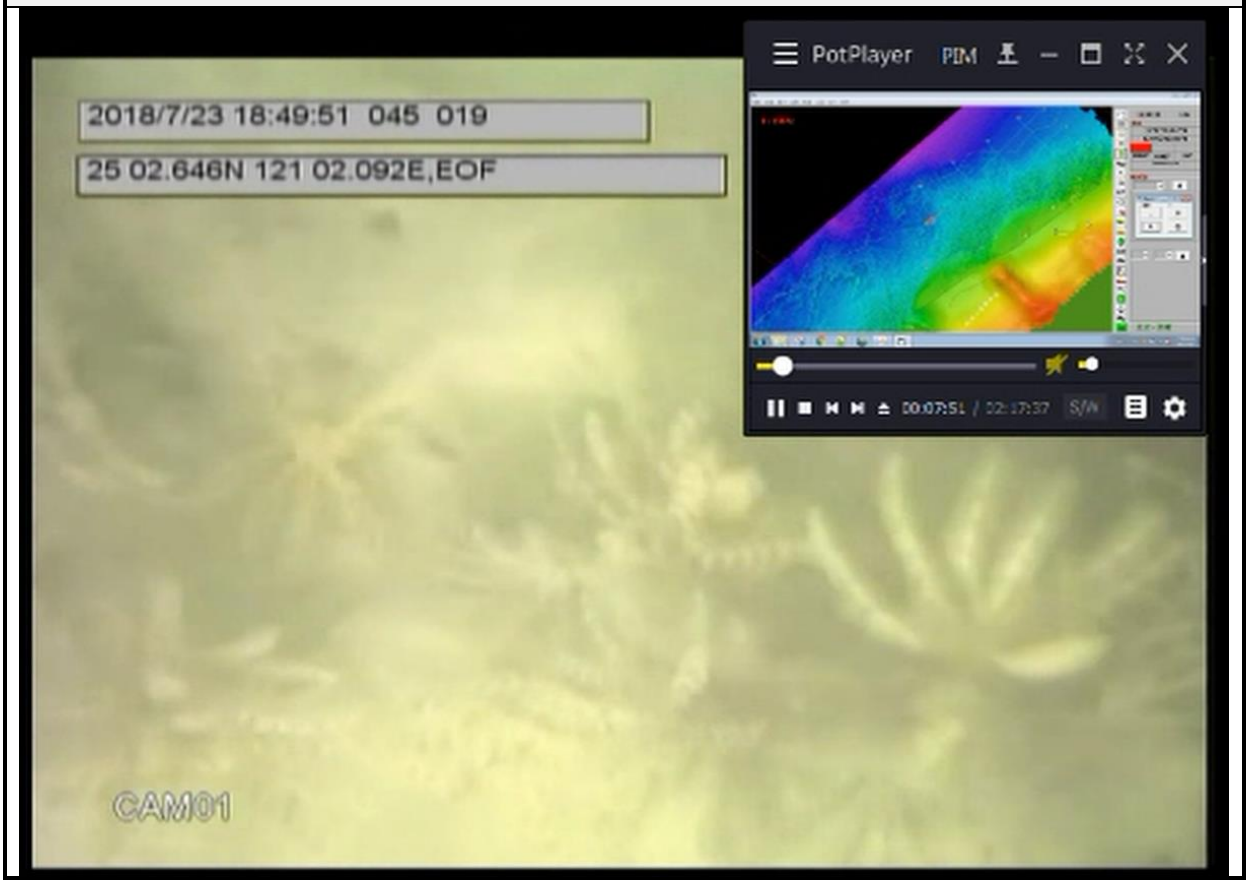


編號	經度	緯度
CPC_1_R018	121-02.092	25-02.646

影像位置

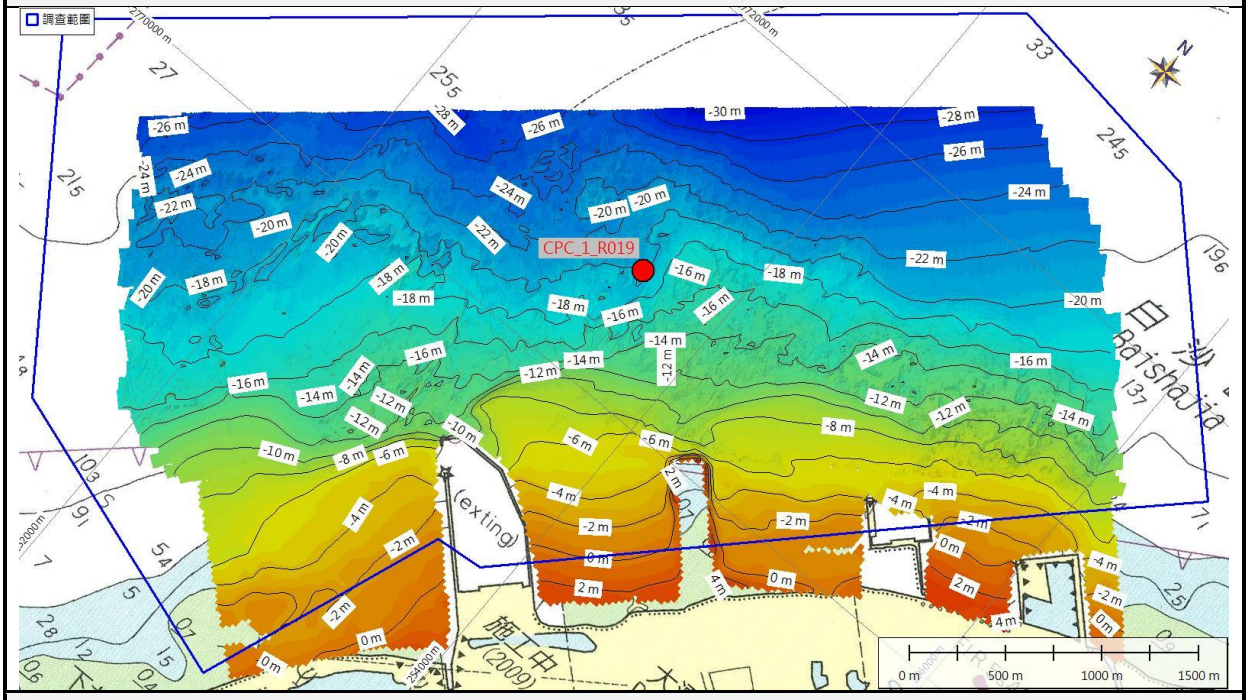


ROV影像

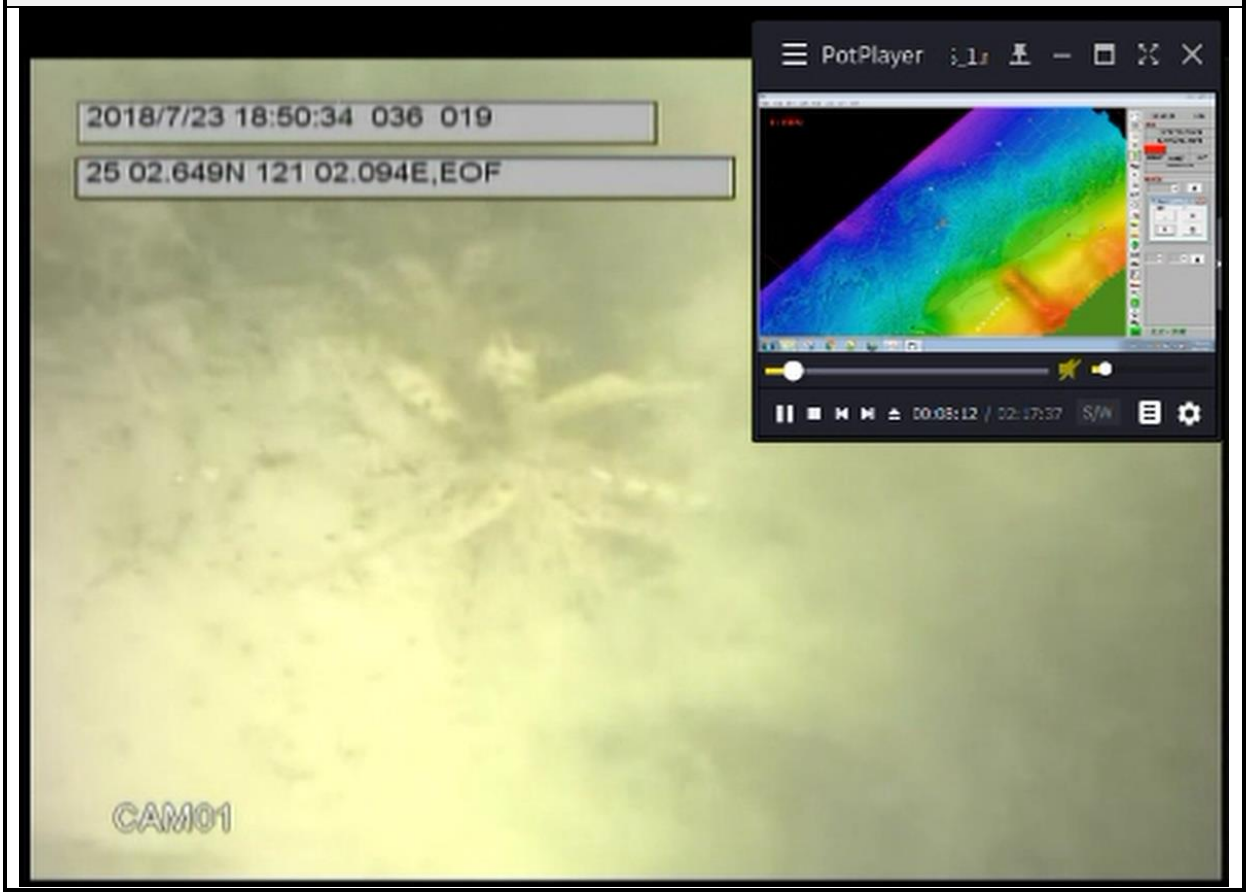


編號	經度	緯度
CPC_1_R019	121-02.094	25-02.649

影像位置

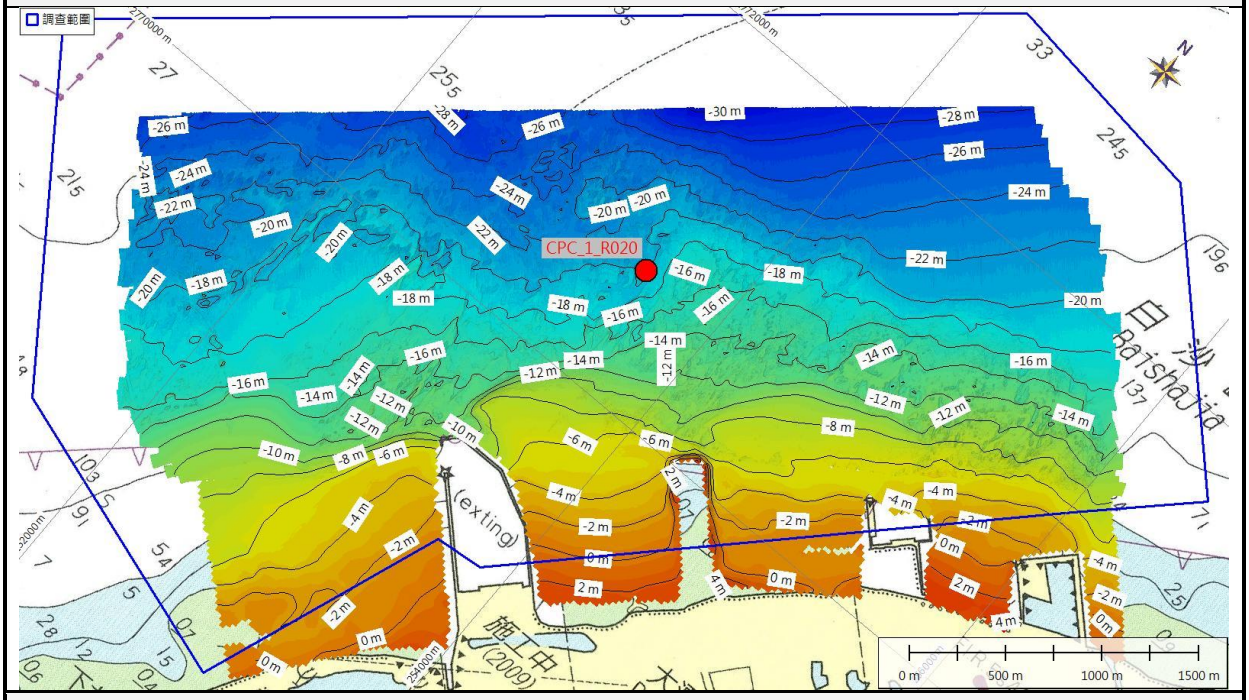


ROV影像

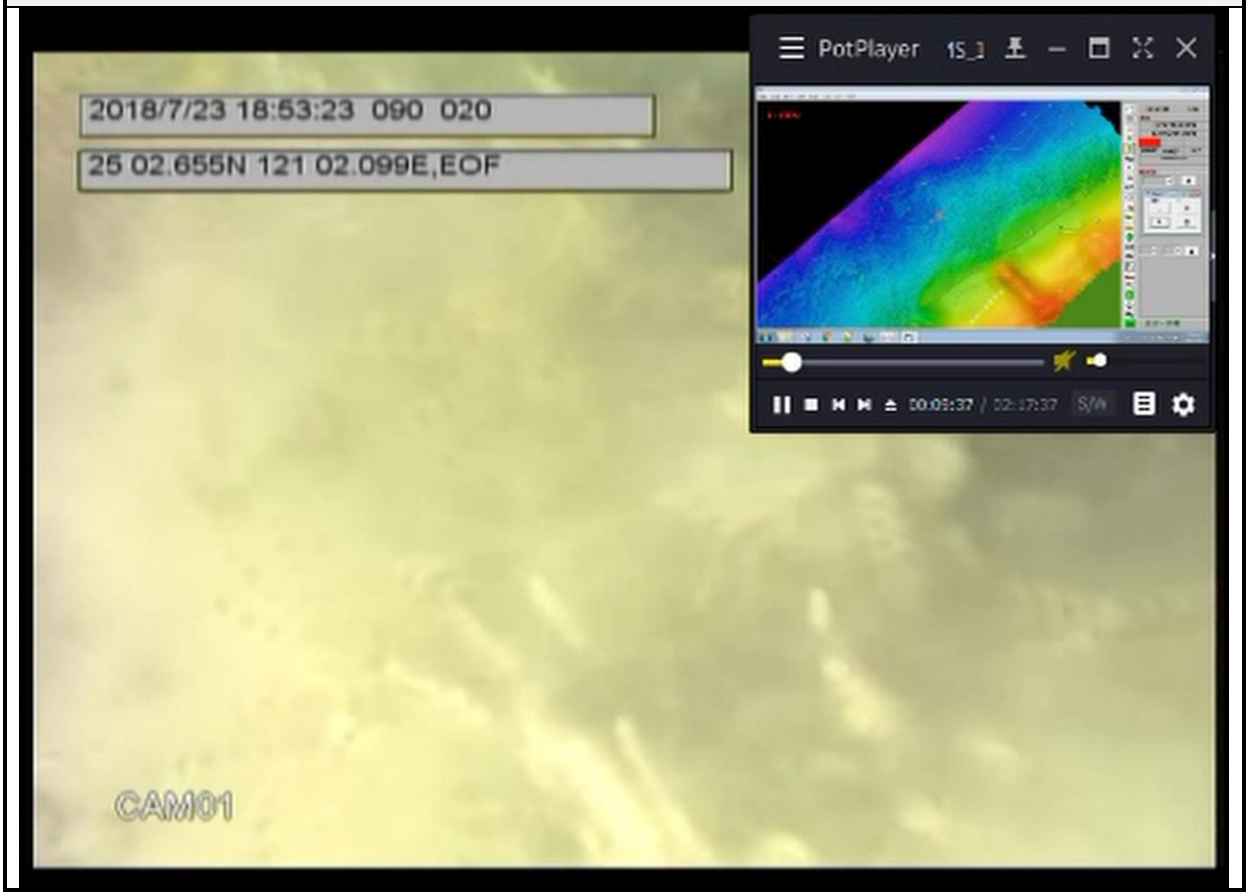


編號	經度	緯度
CPC_1_R020	121-02.099	25-02.655

影像位置

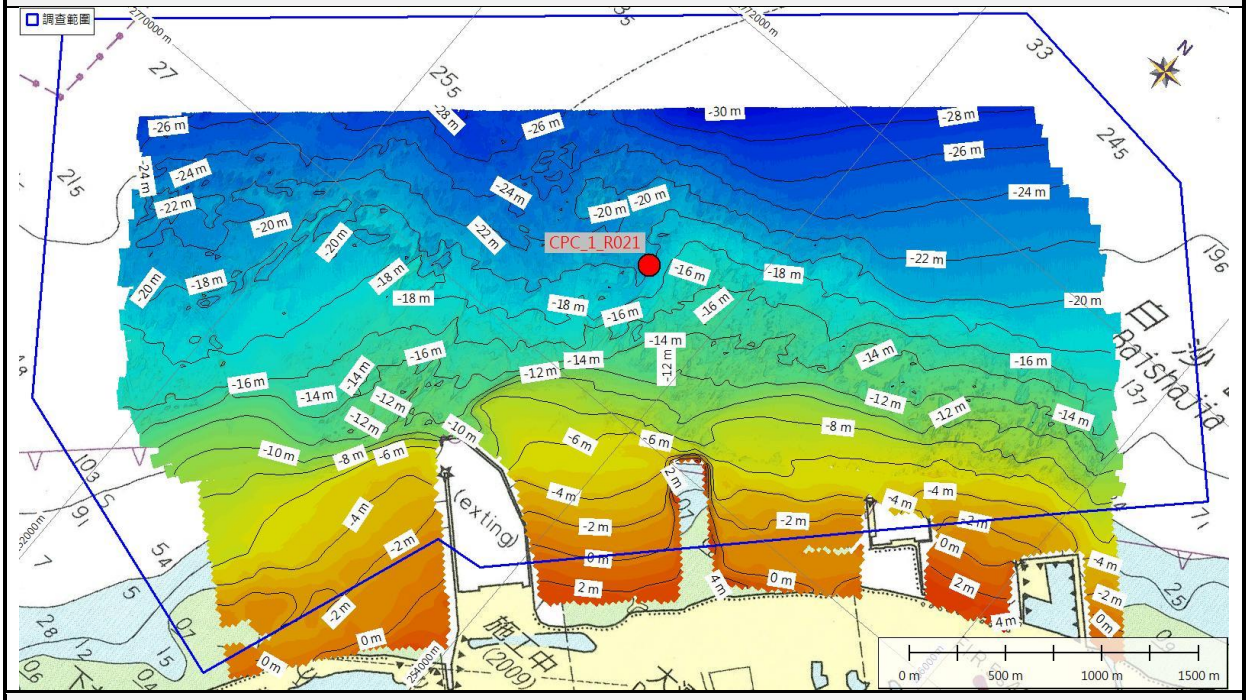


ROV影像

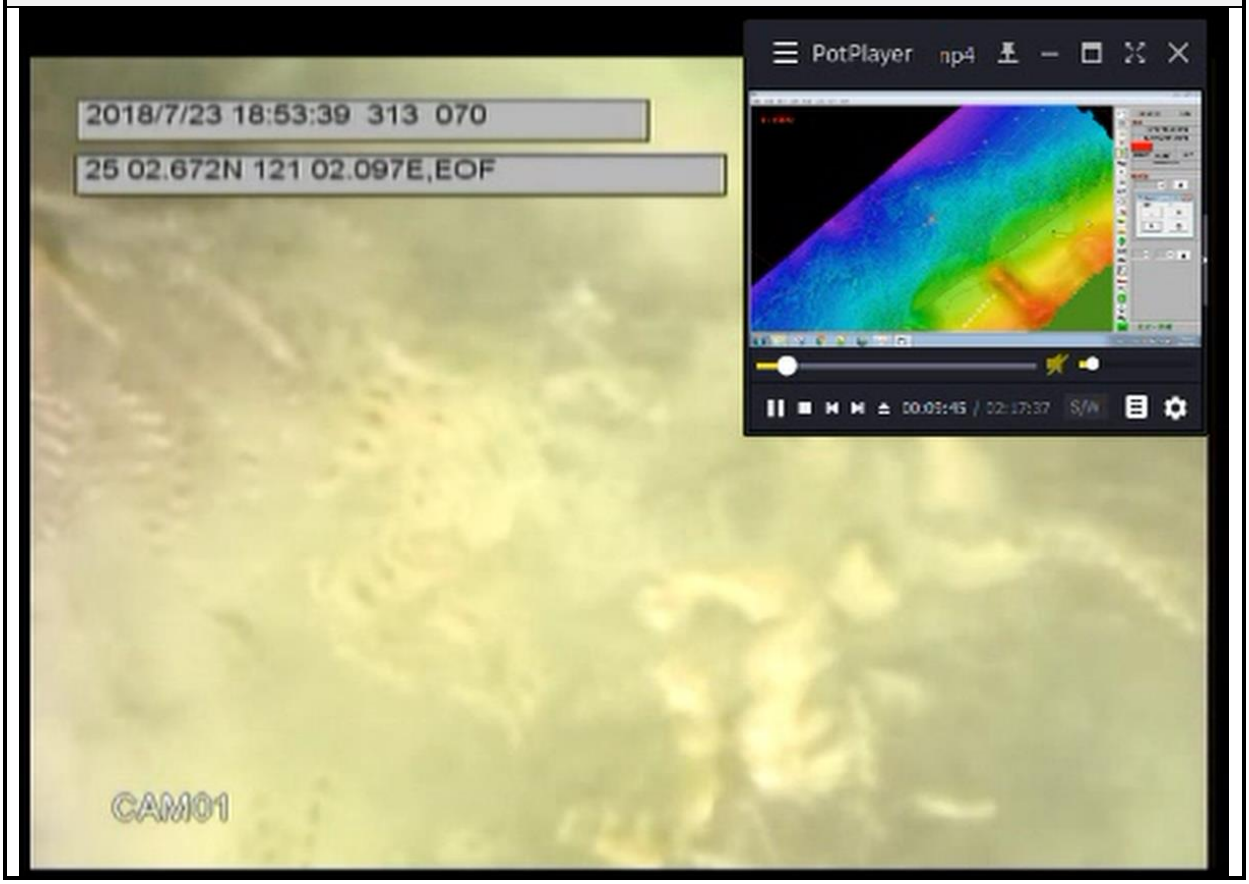


編號	經度	緯度
CPC_1_R021	121-02.097	25-02.672

影像位置

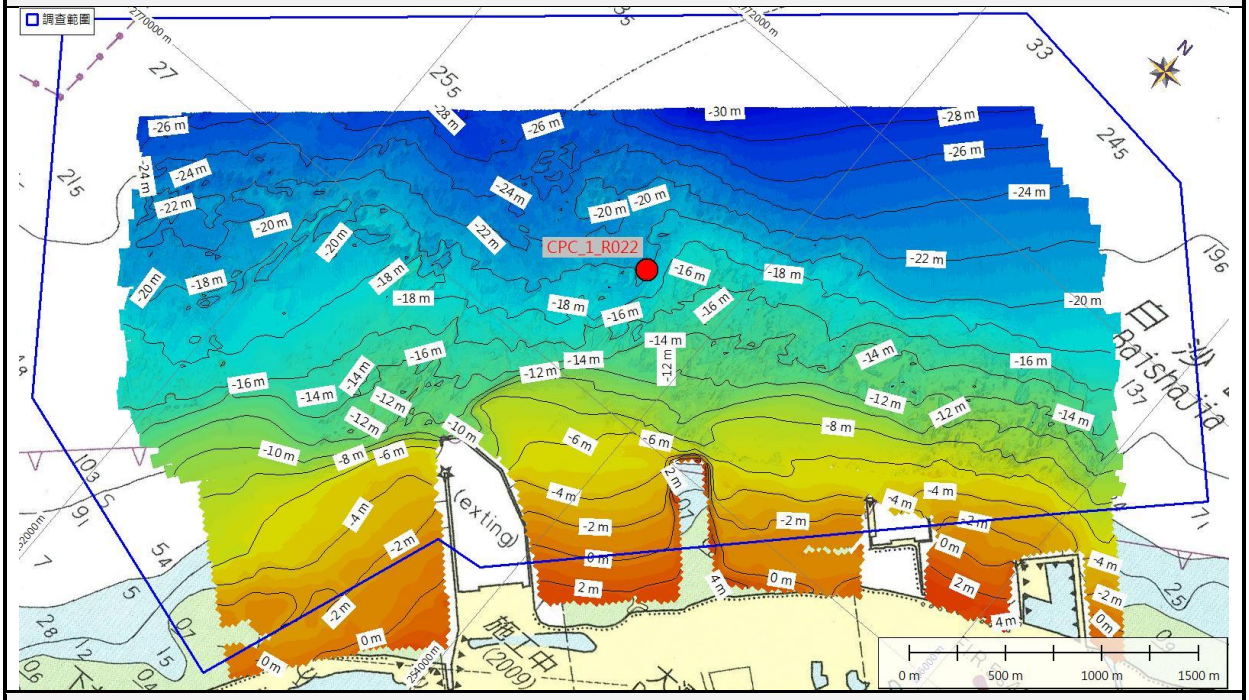


ROV影像

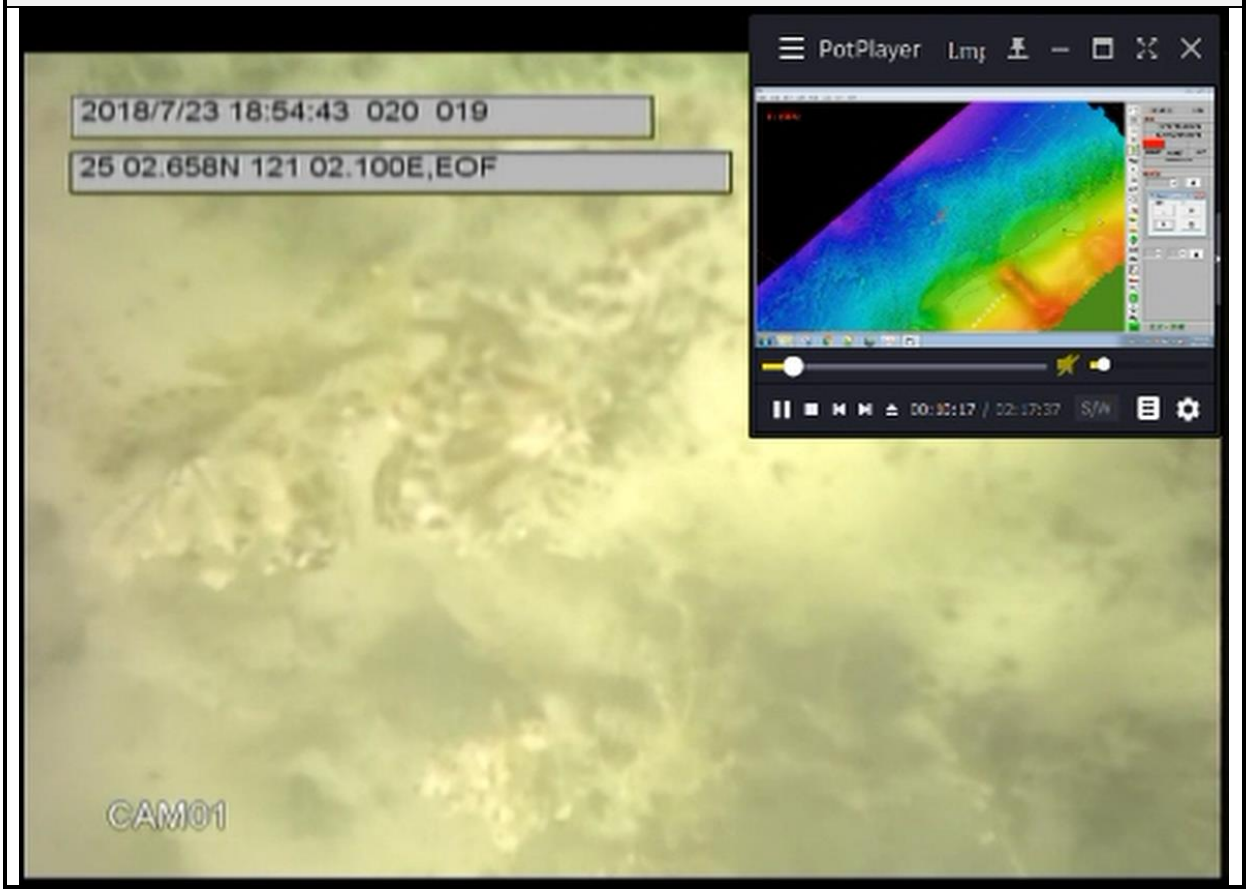


編號	經度	緯度
CPC_1_R022	121-02.100	25-02.658

影像位置

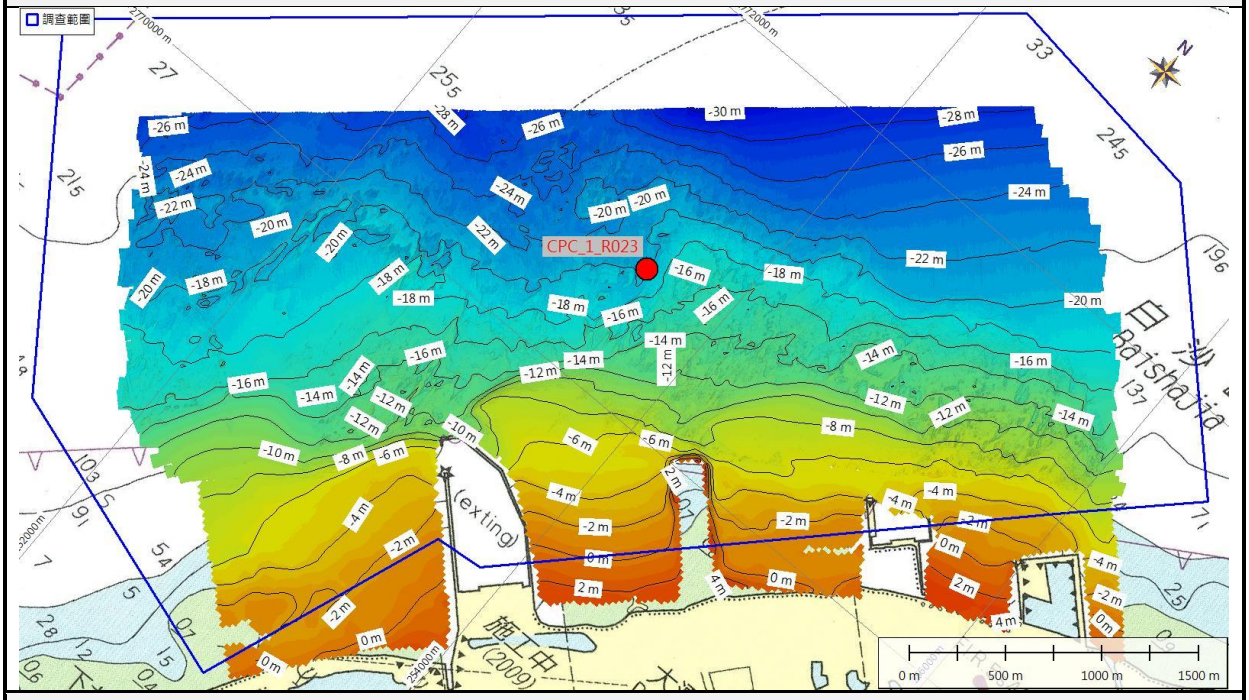


ROV影像

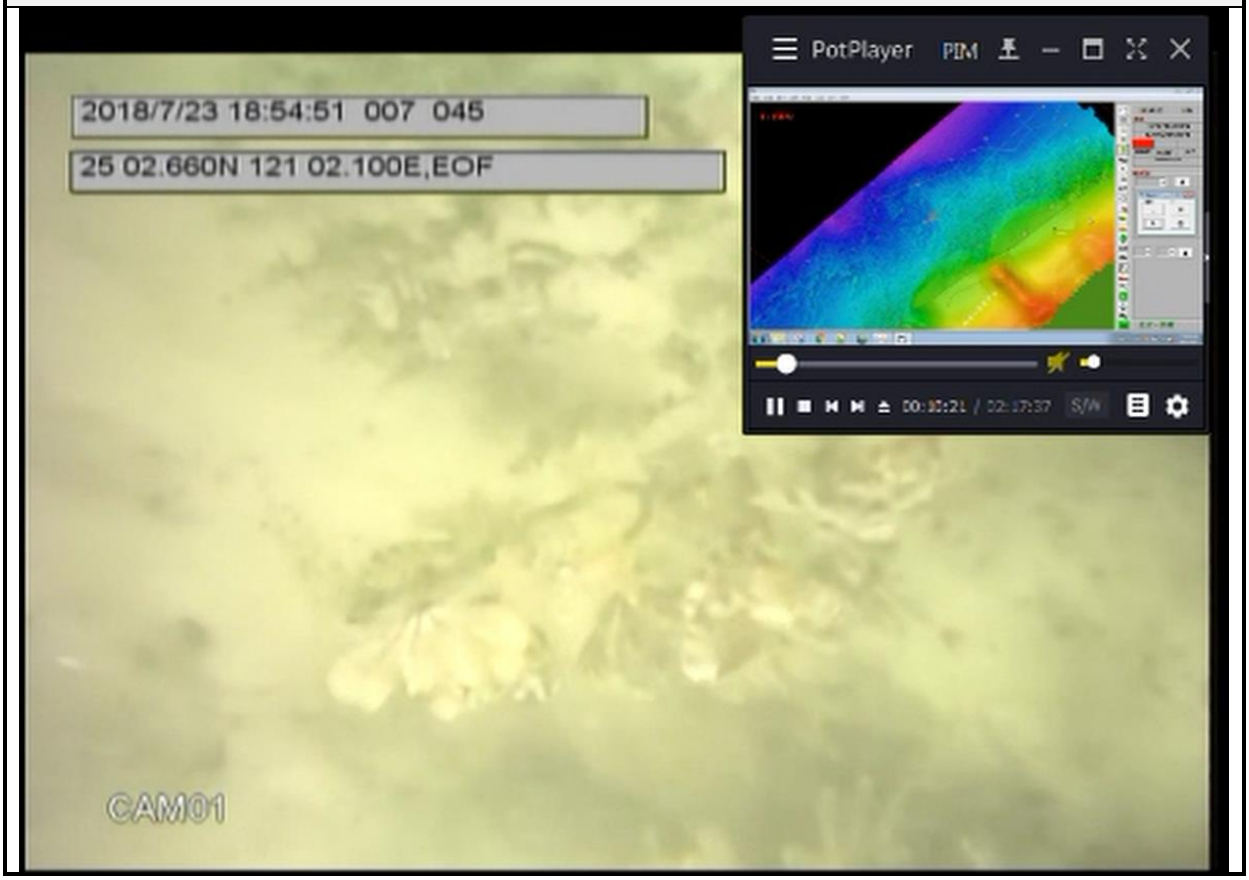


編號	經度	緯度
CPC_1_R023	121-02.100	25-02.660

影像位置

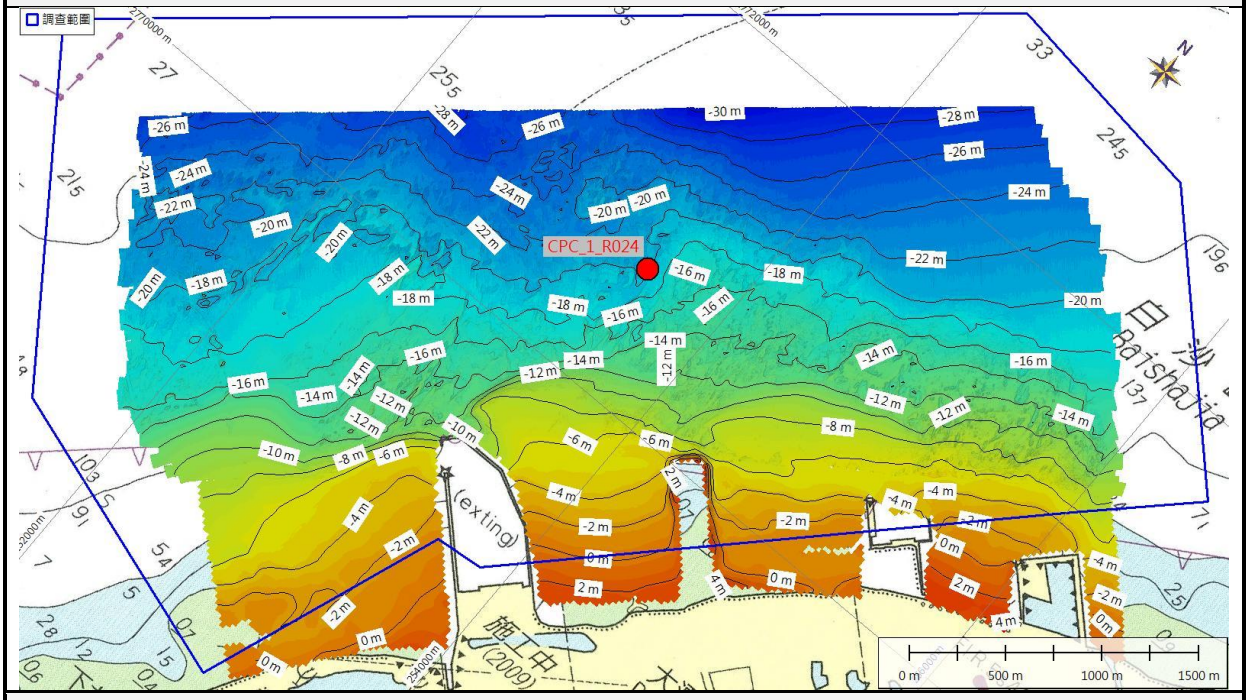


ROV影像

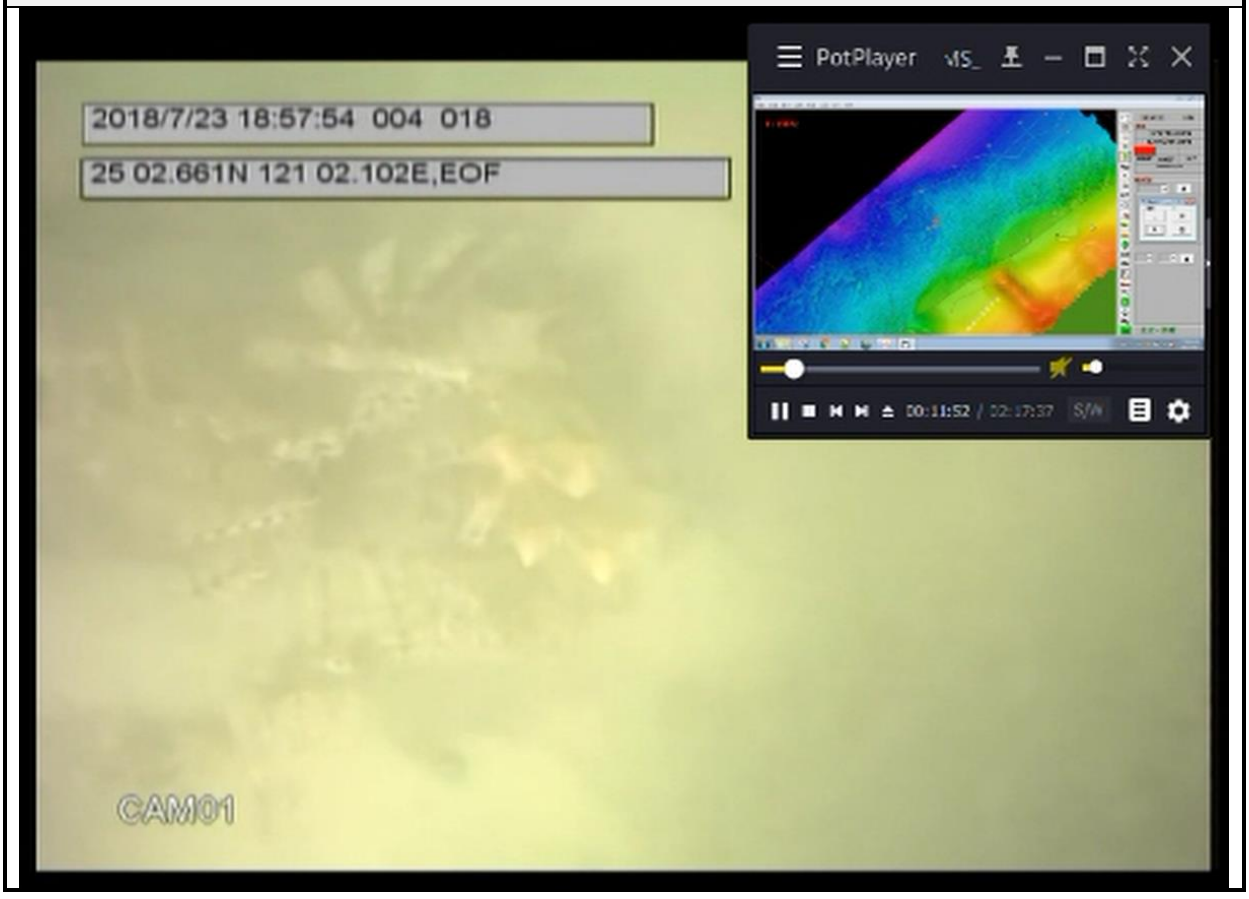


編號	經度	緯度
CPC_1_R024	121-02.102	25-02.661

影像位置

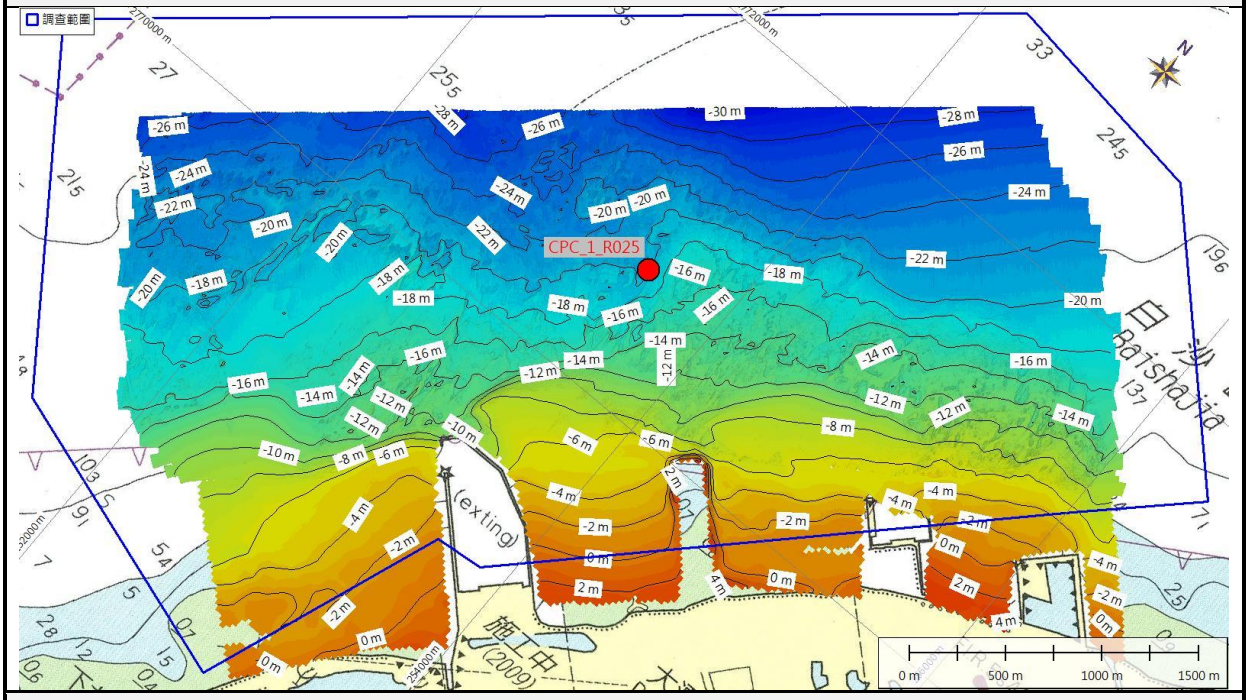


ROV影像

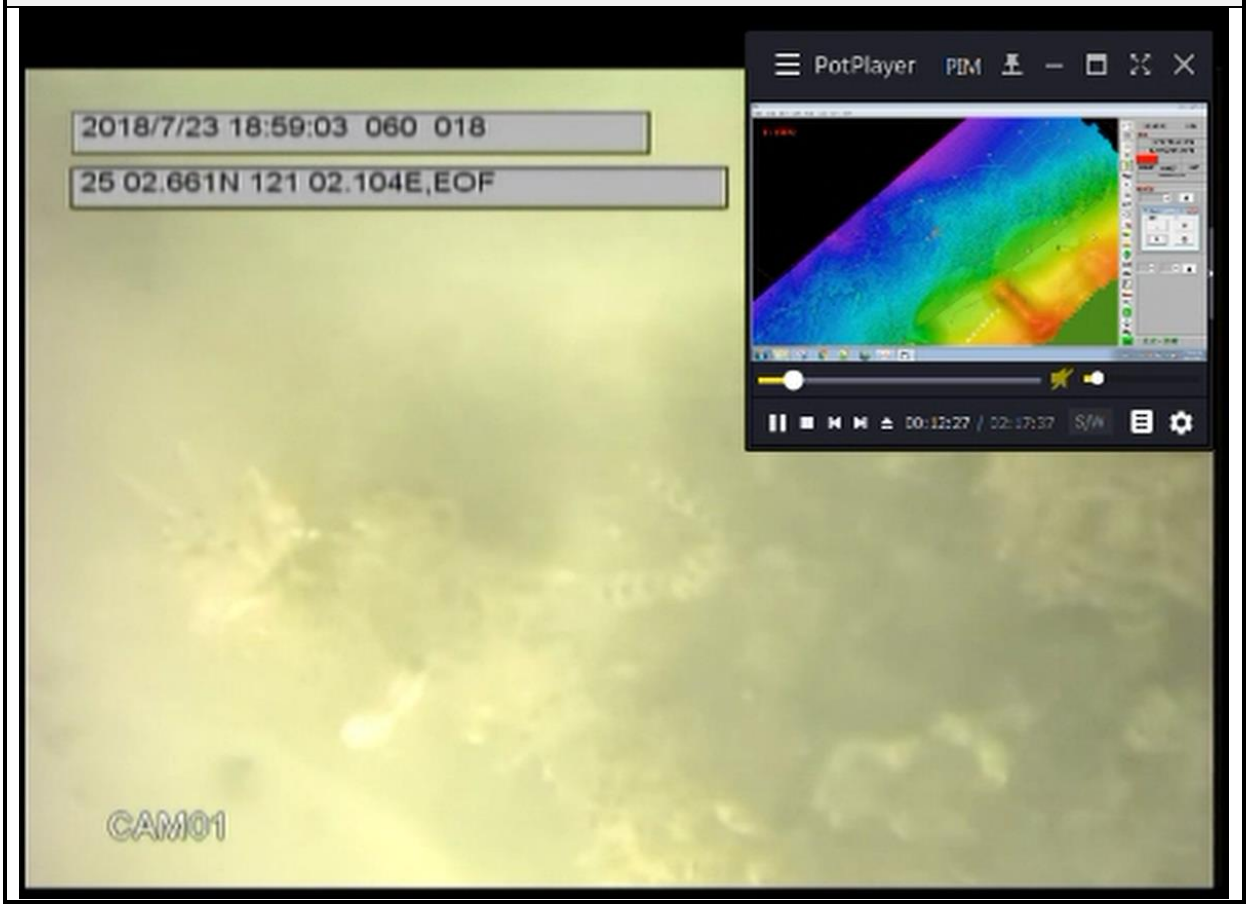


編號	經度	緯度
CPC_1_R025	121-02.104	25-02.661

影像位置

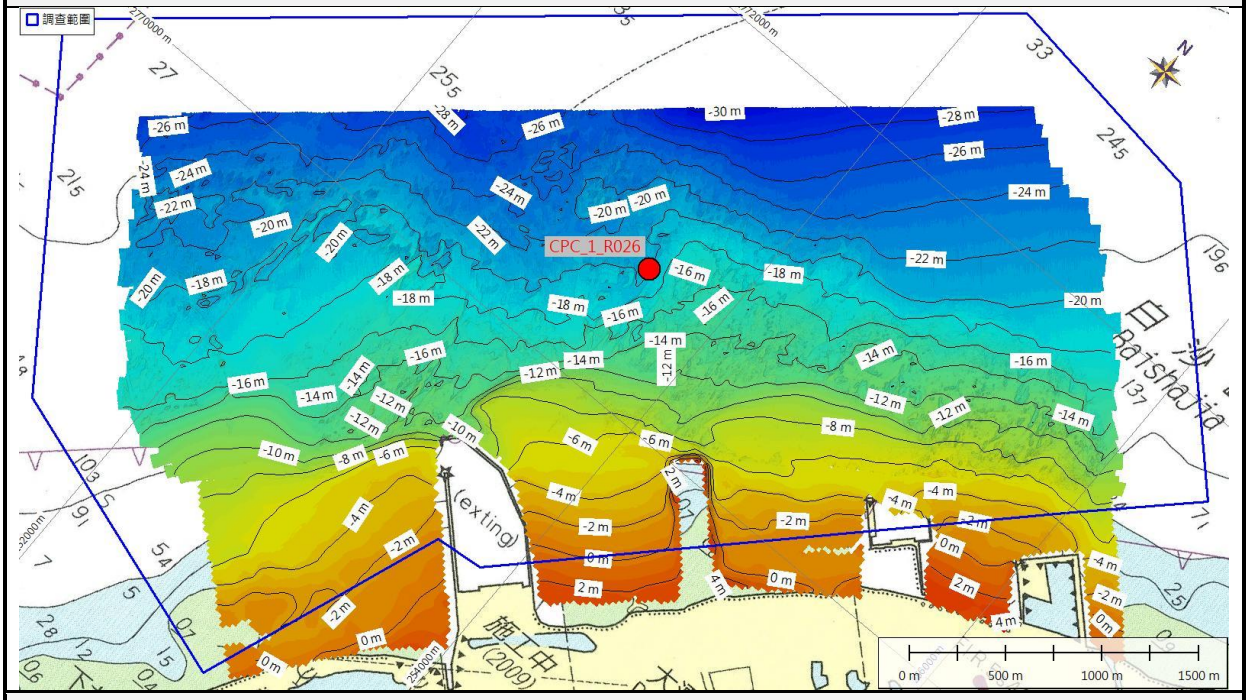


ROV影像

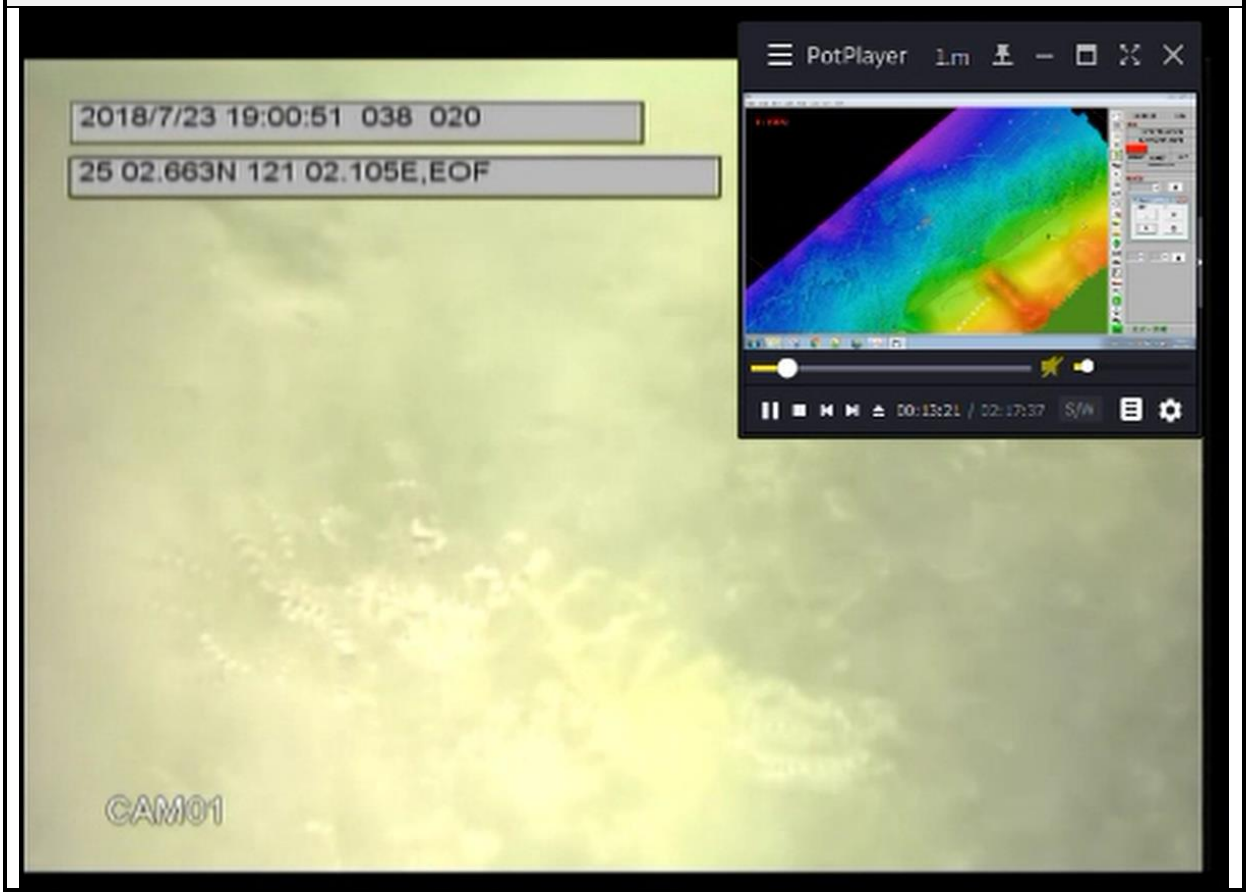


編號	經度	緯度
CPC_1_R026	121-02.105	25-02.663

影像位置

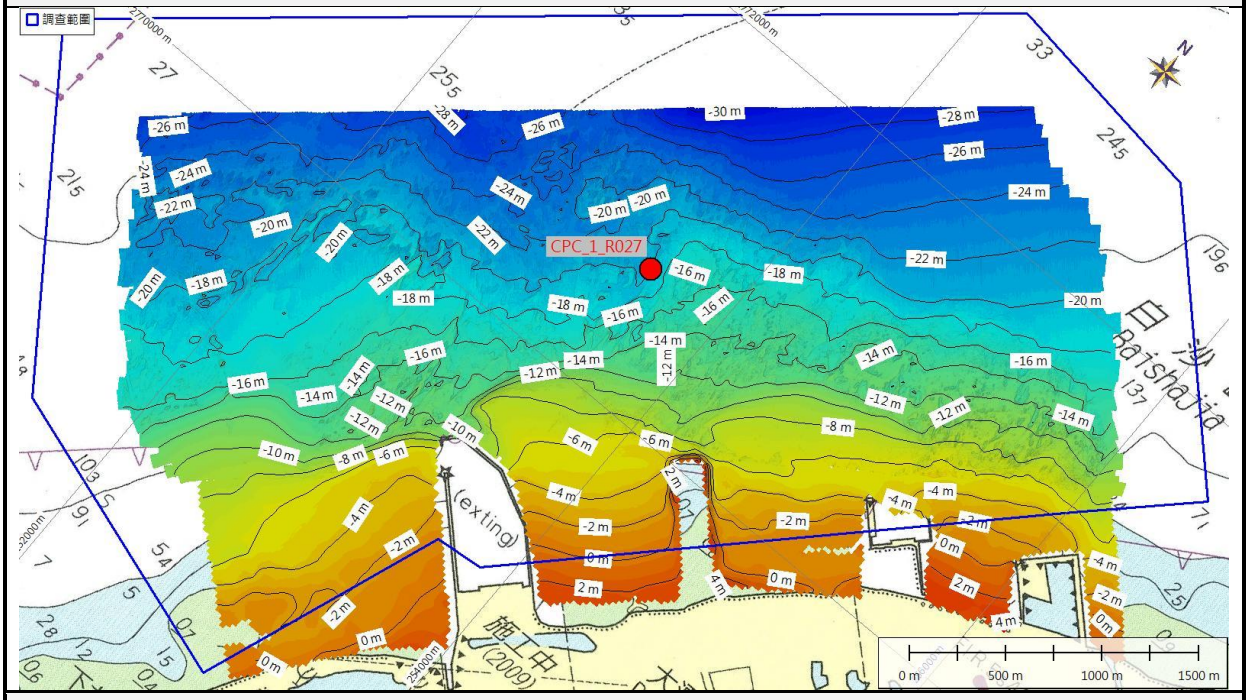


ROV影像

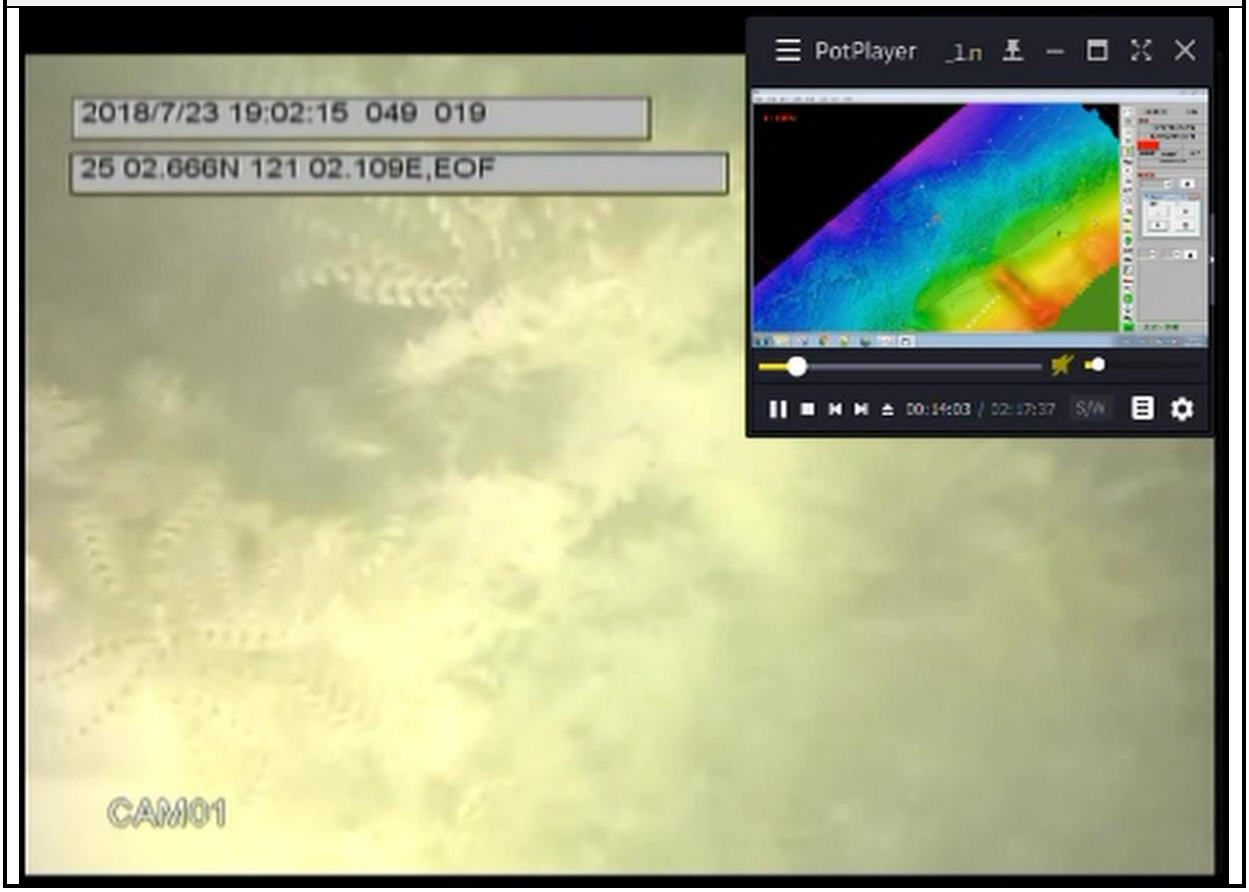


編號	經度	緯度
CPC_1_R027	121-02.109	25-02.666

影像位置

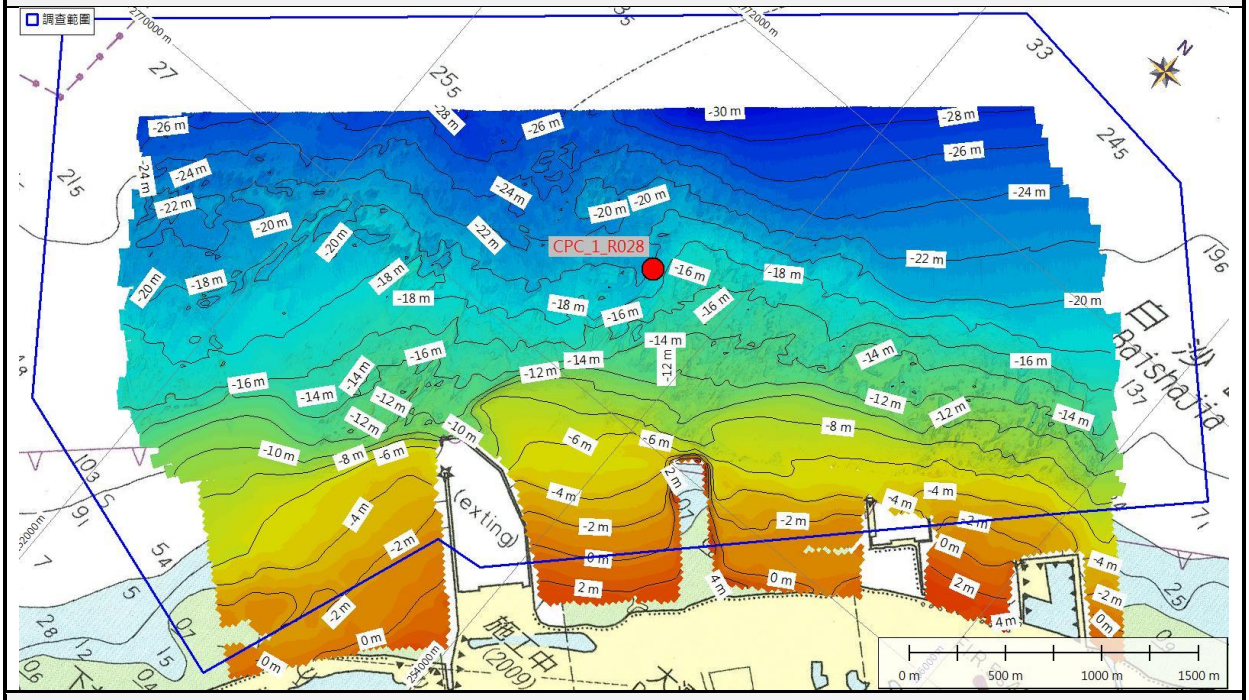


ROV影像

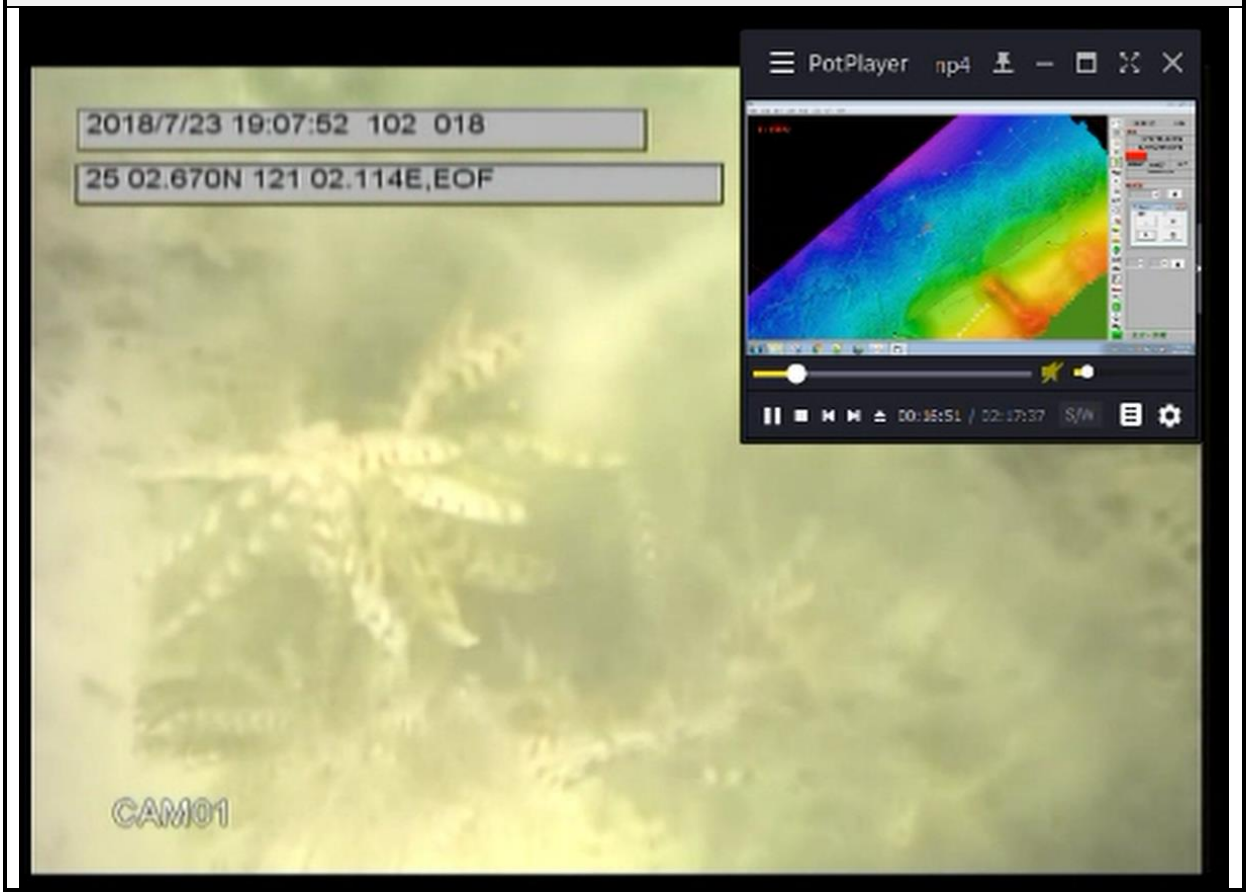


編號	經度	緯度
CPC_1_R028	121-02.114	25-02.670

影像位置

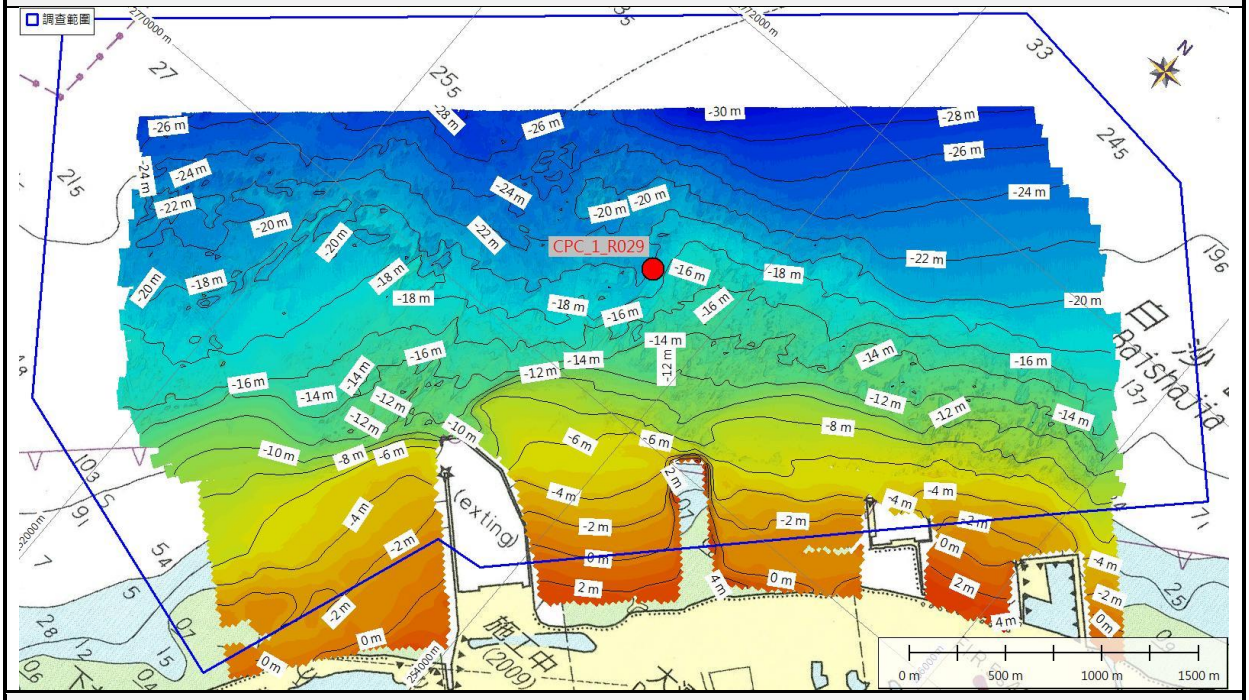


ROV影像

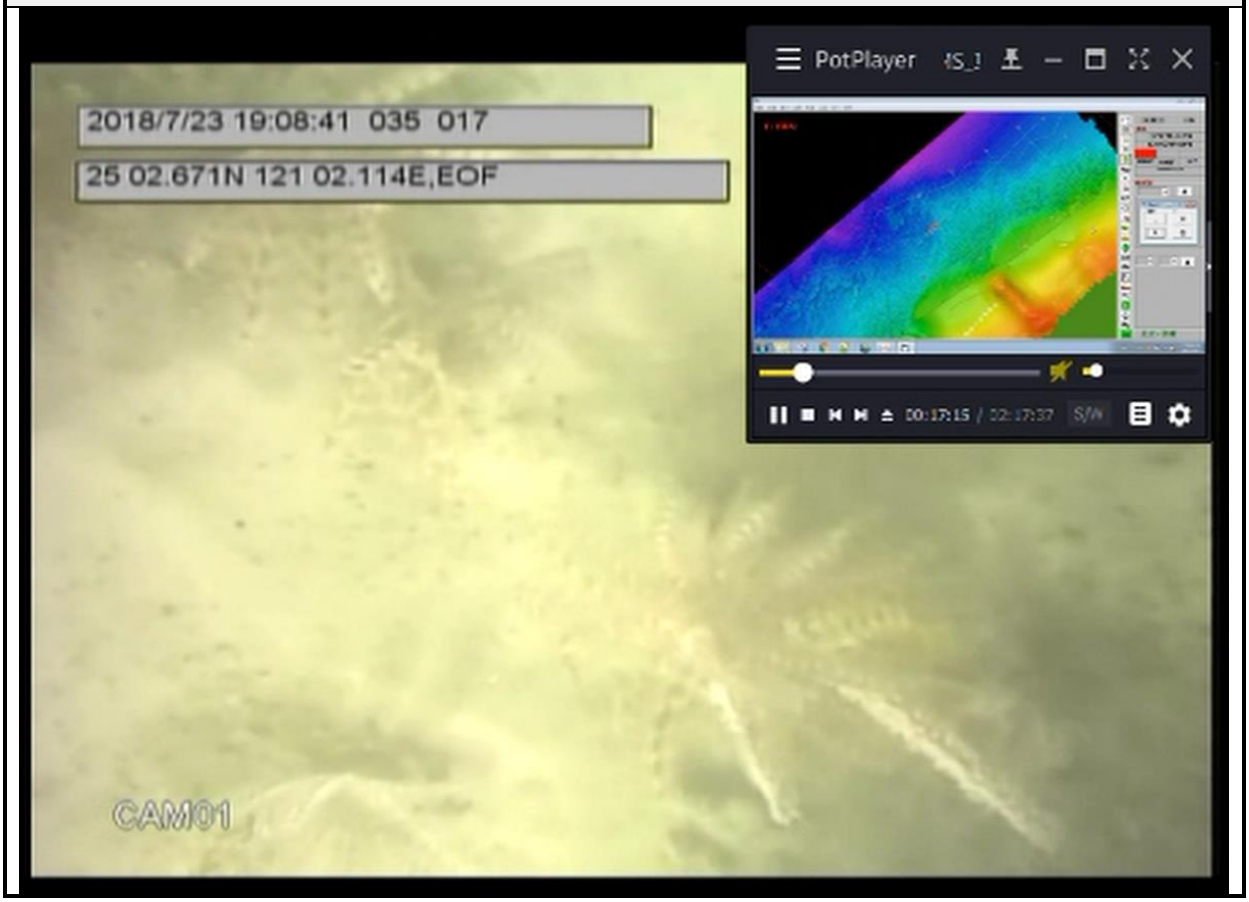


編號	經度	緯度
CPC_1_R029	121-02.114	25-02.671

影像位置

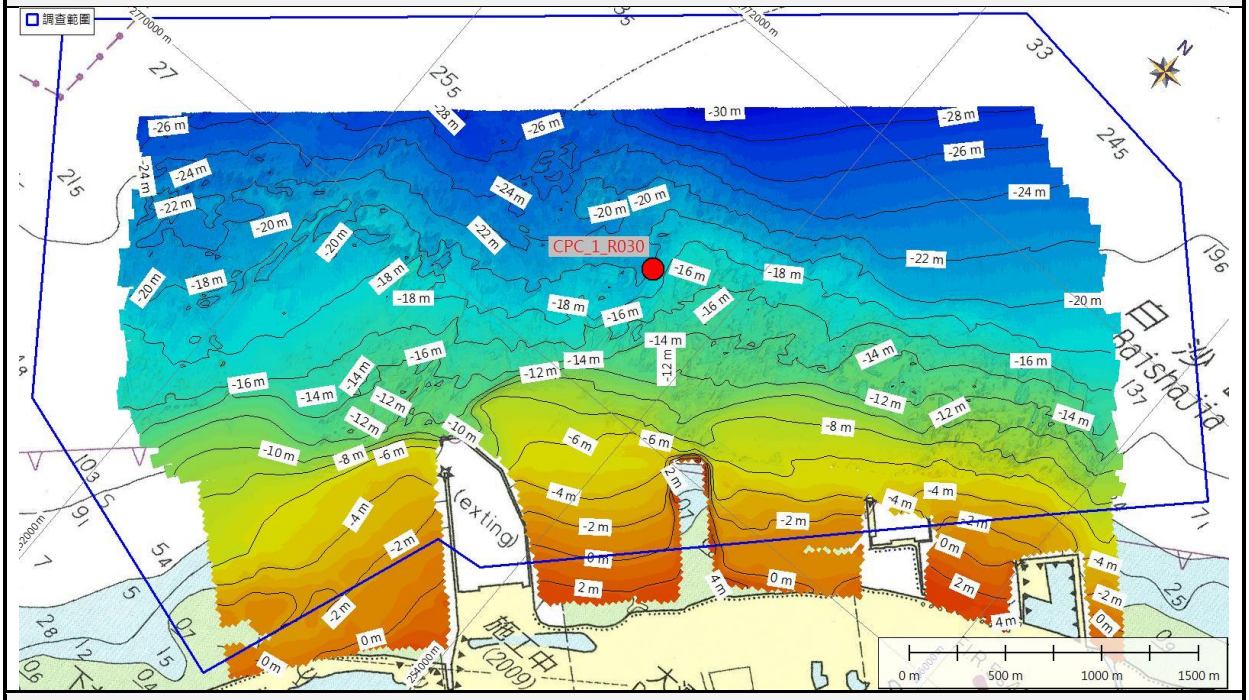


ROV影像

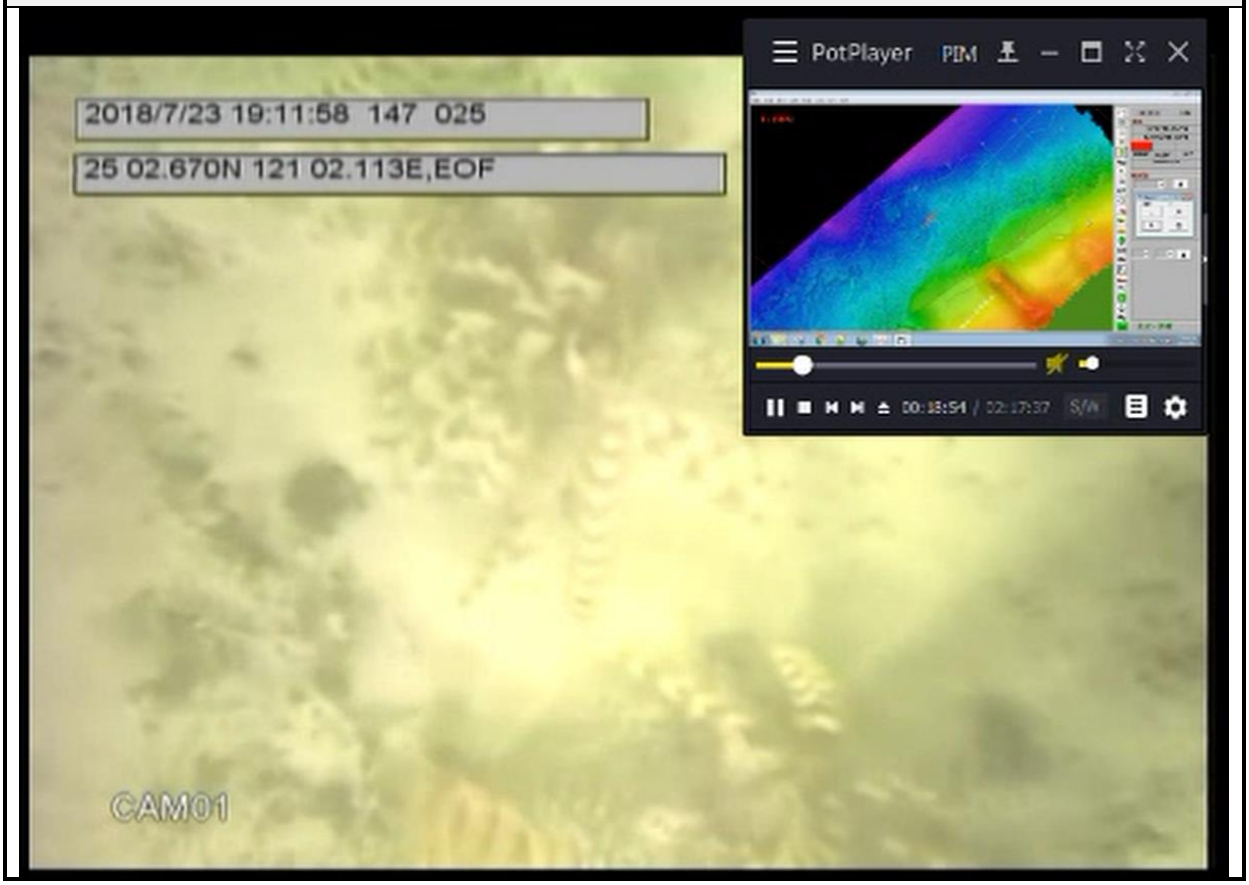


編號	經度	緯度
CPC_1_R030	121-02.113	25-02.670

影像位置

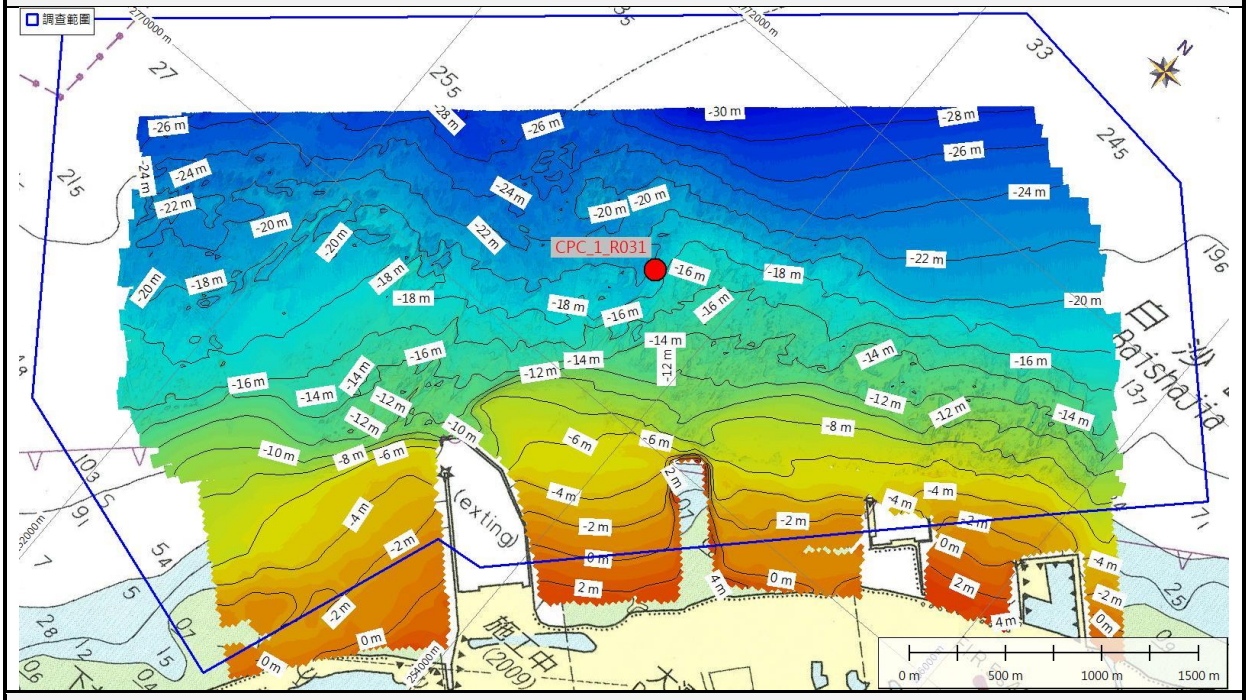


ROV影像

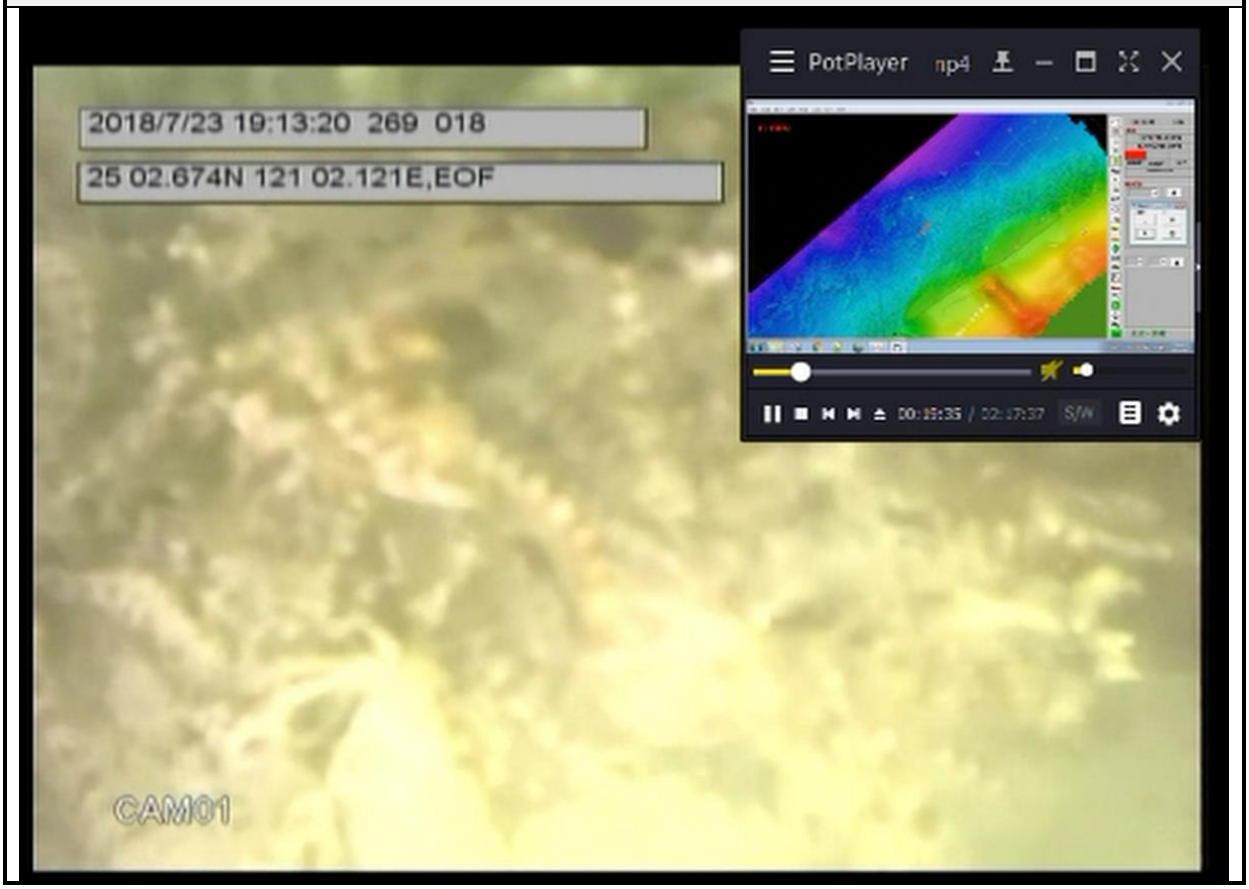


編號	經度	緯度
CPC_1_R031	121-02.121	25-02.674

影像位置

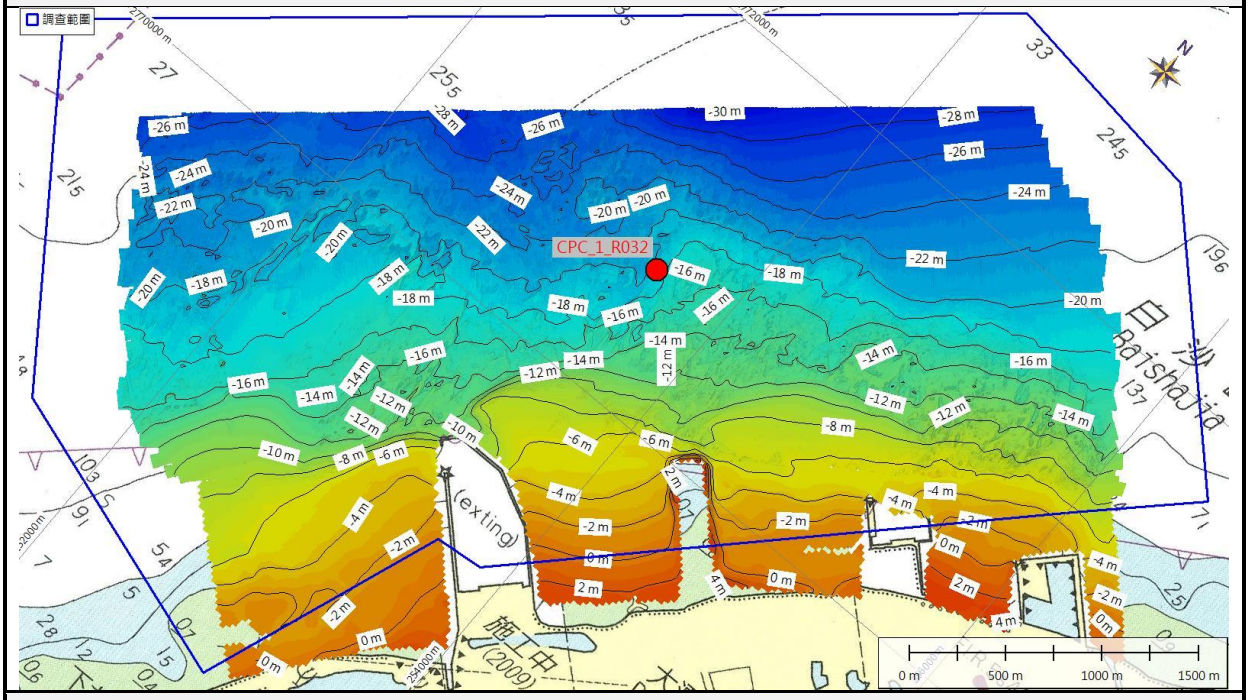


ROV影像

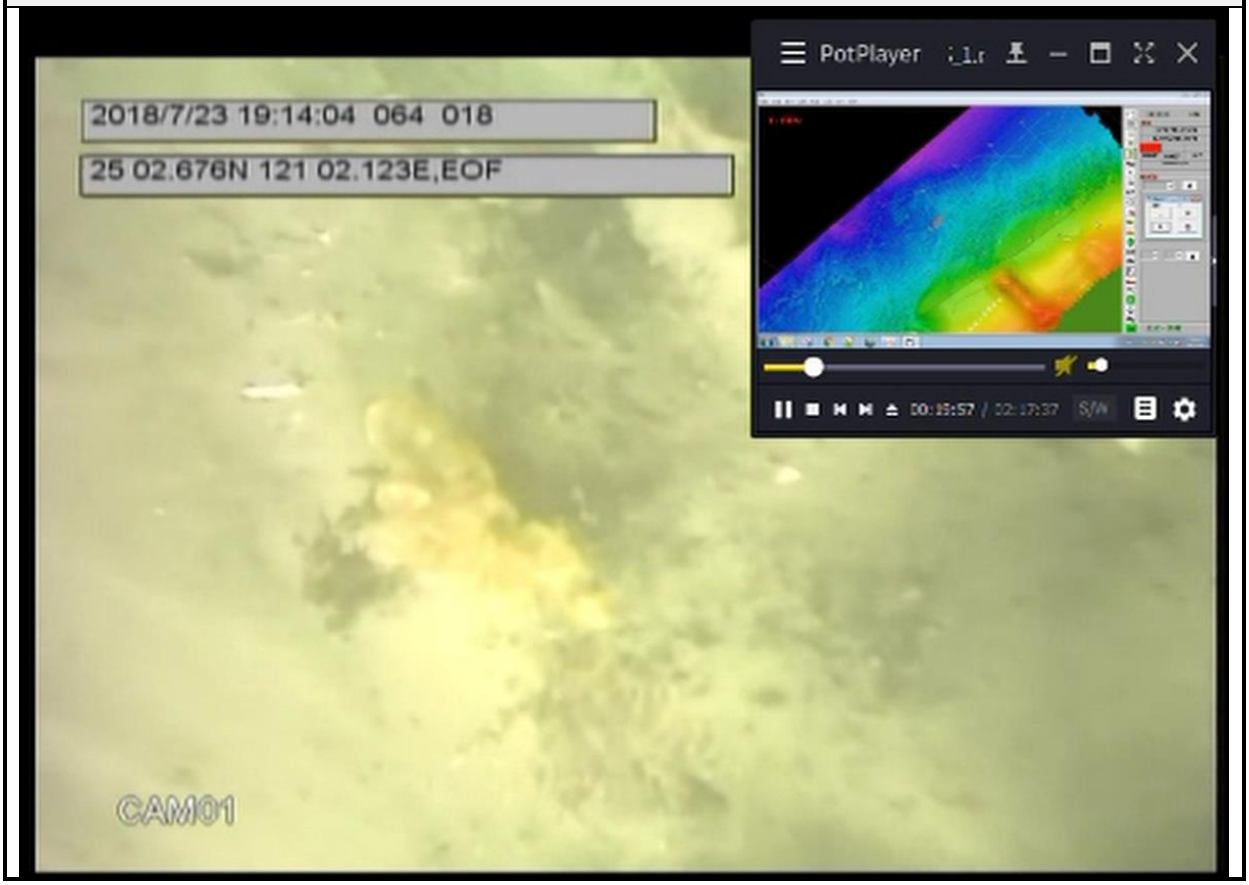


編號	經度	緯度
CPC_1_R032	121-02.123	25-02.676

影像位置

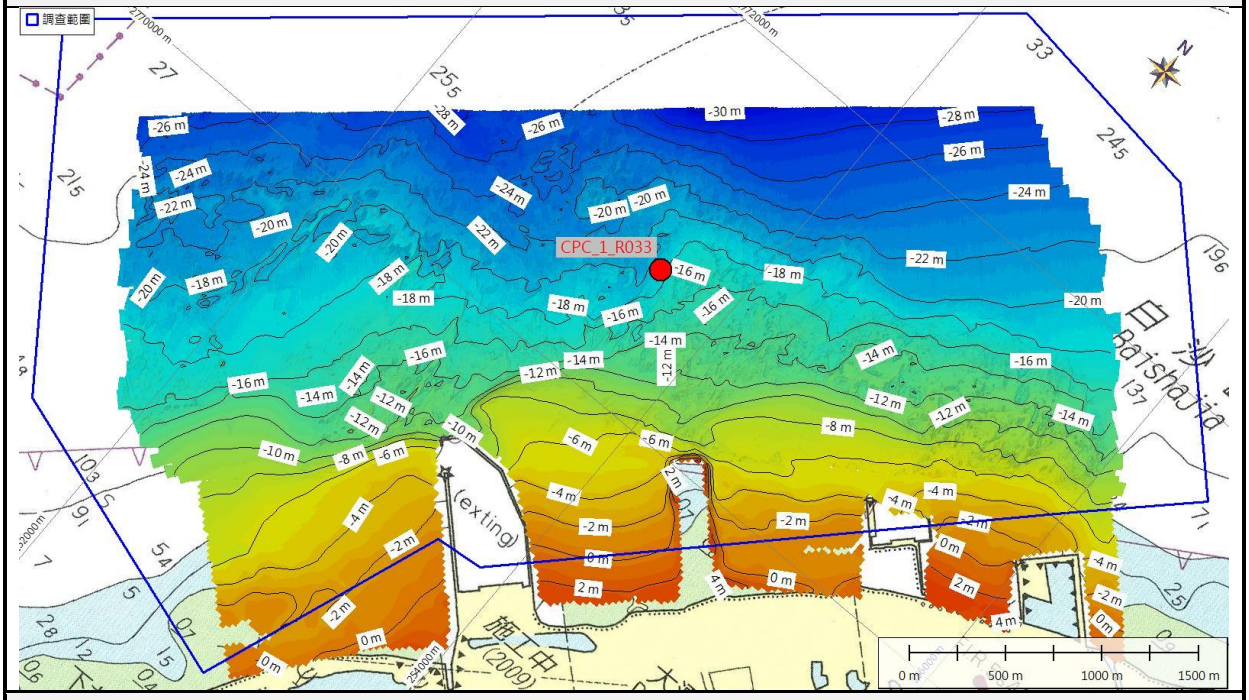


ROV影像

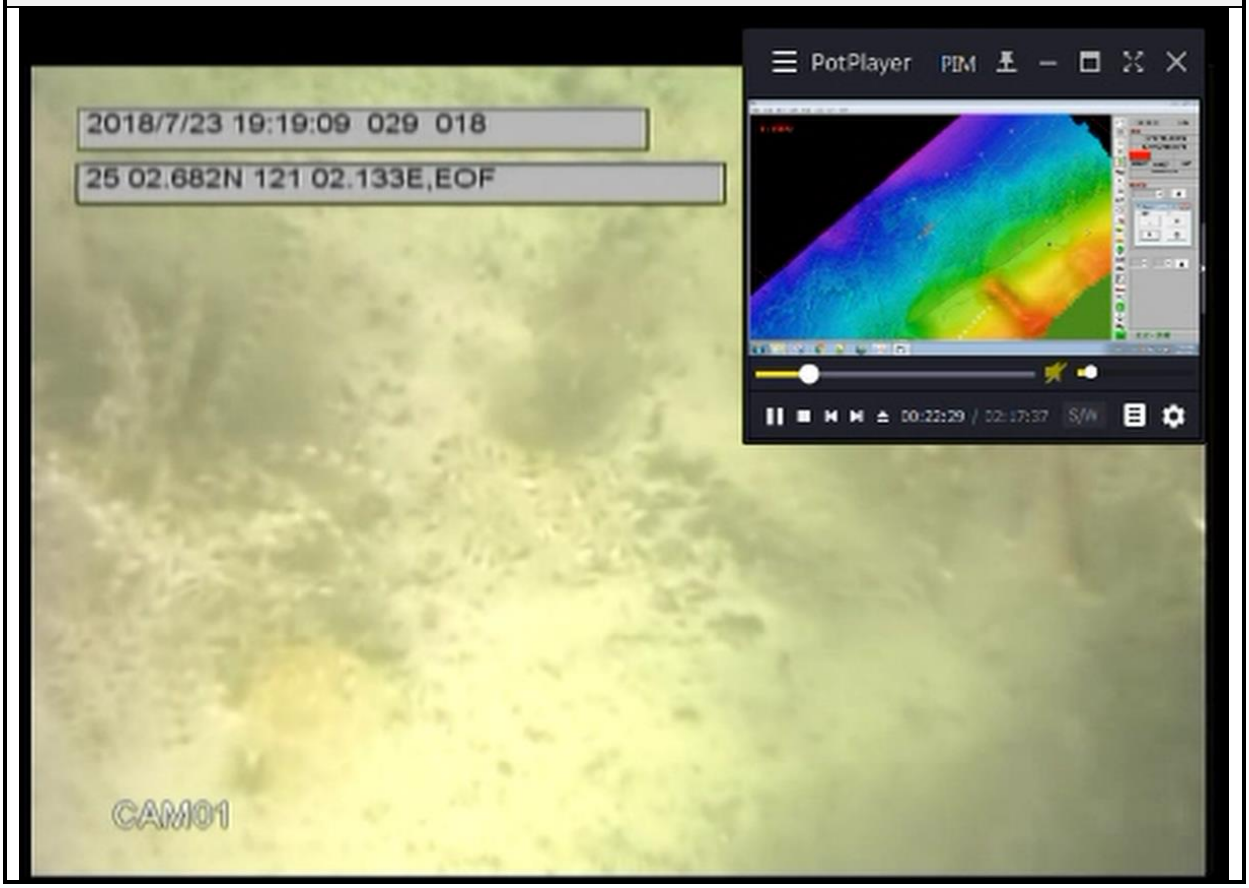


編號	經度	緯度
CPC_1_R033	121-02.133	25-02.682

影像位置

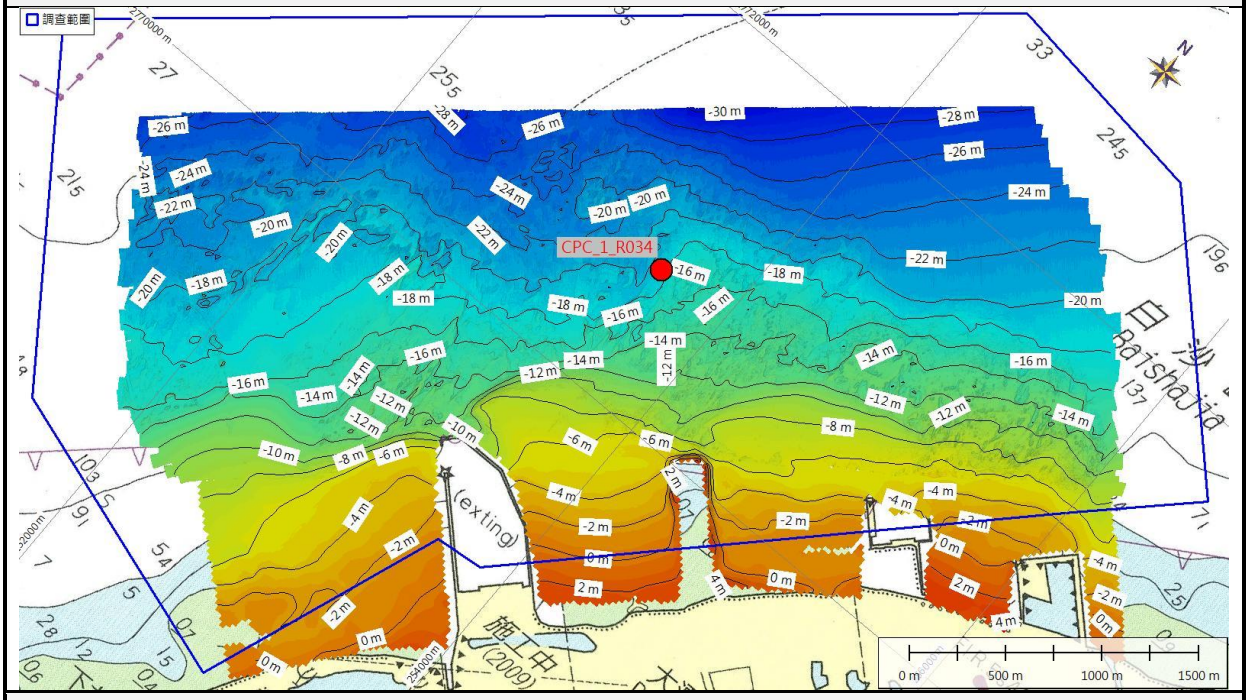


ROV影像

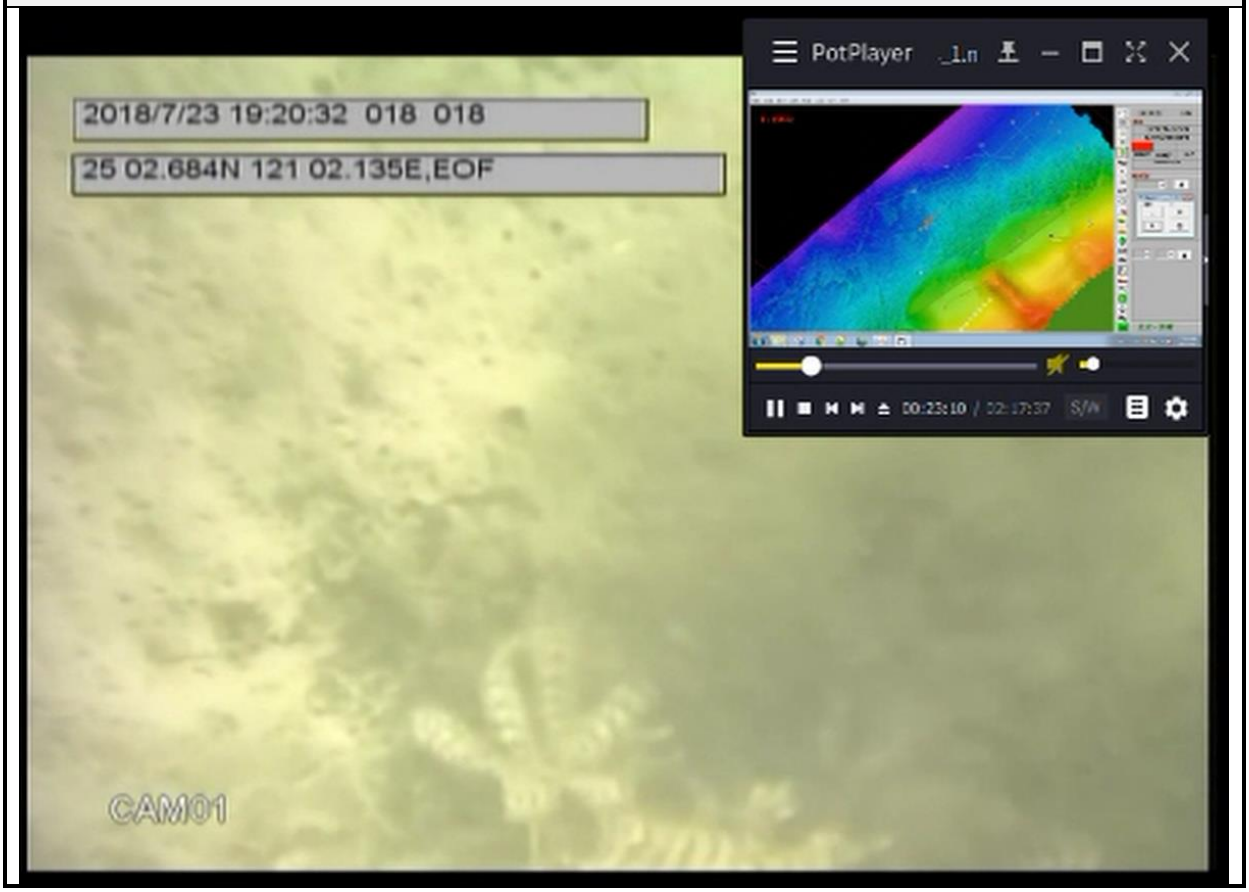


編號	經度	緯度
CPC_1_R034	121-02.135	25-02.684

影像位置

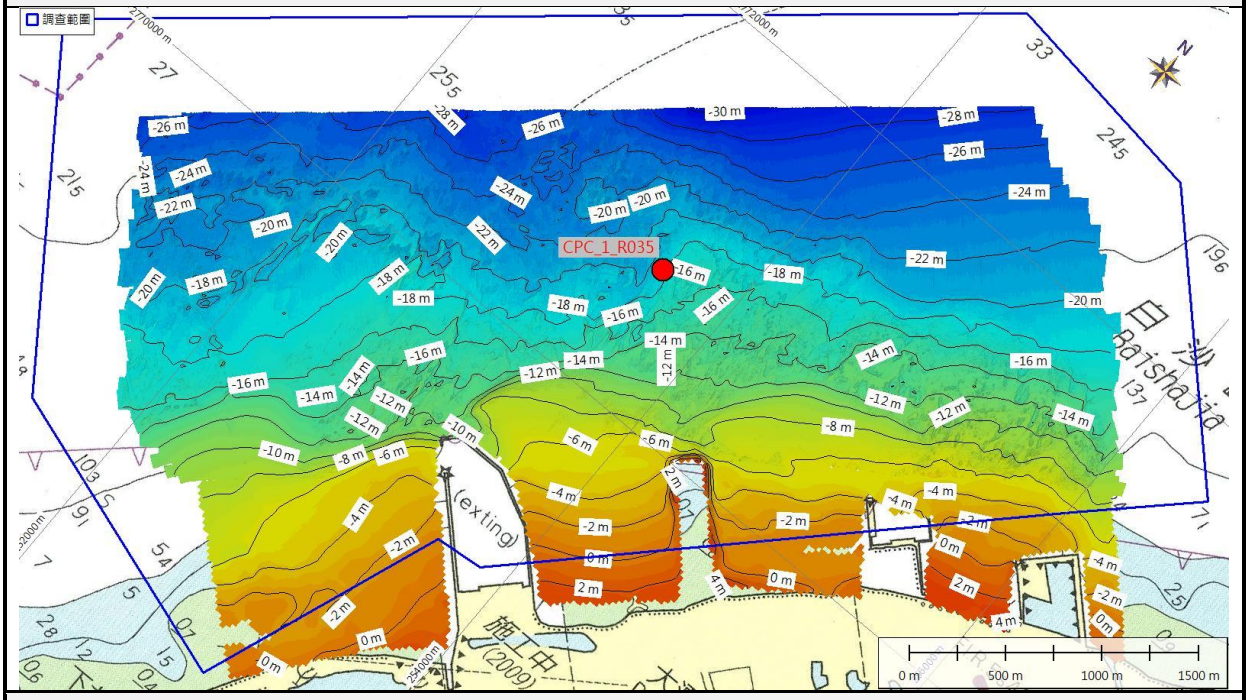


ROV影像

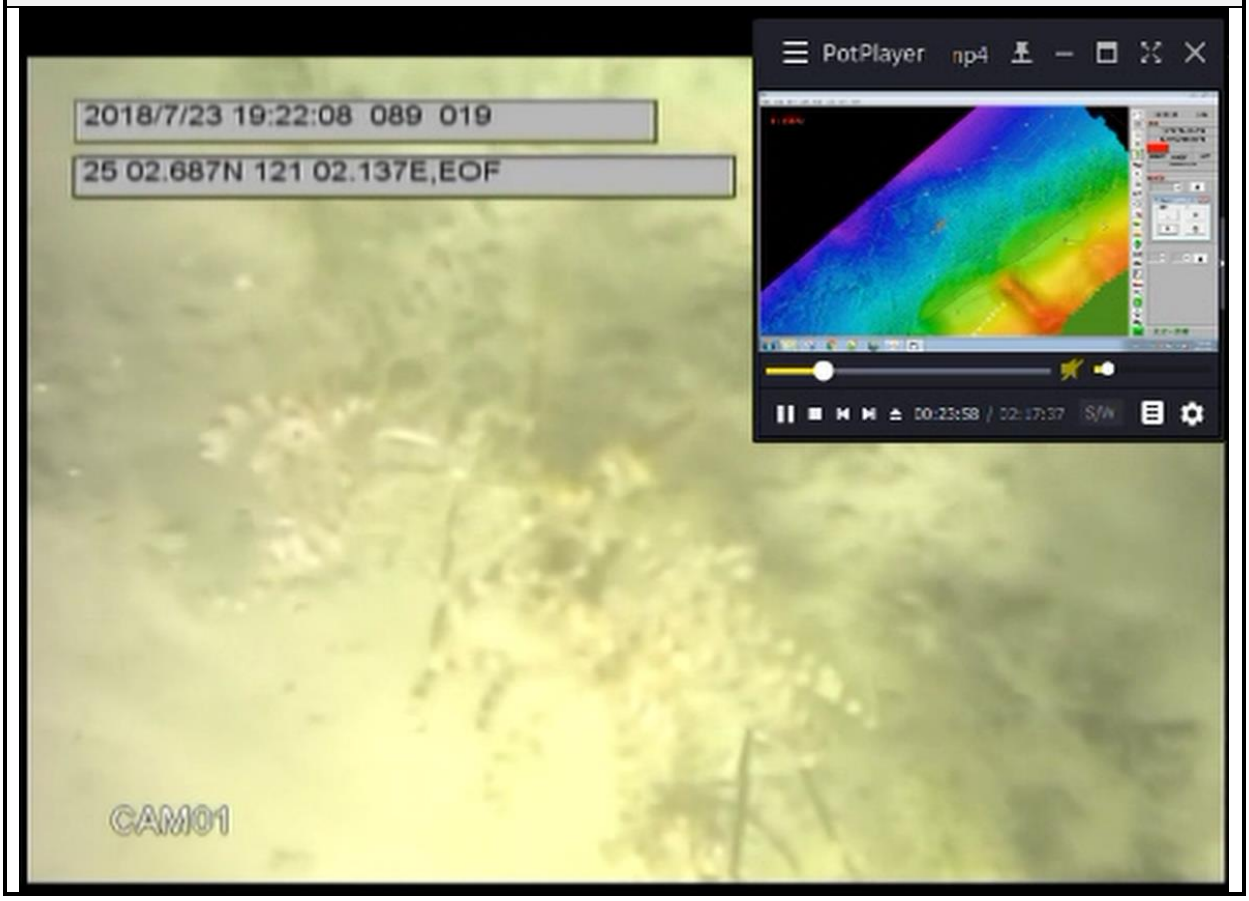


編號	經度	緯度
CPC_1_R035	121-02.137	25-02.687

影像位置

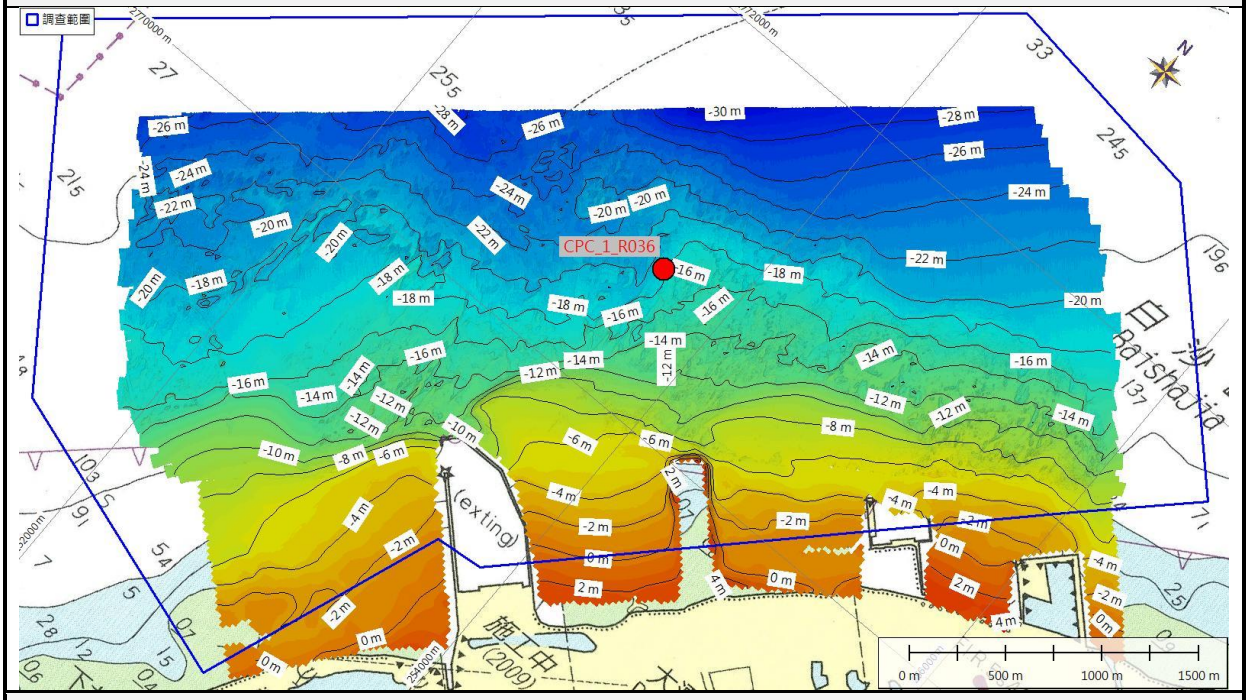


ROV影像

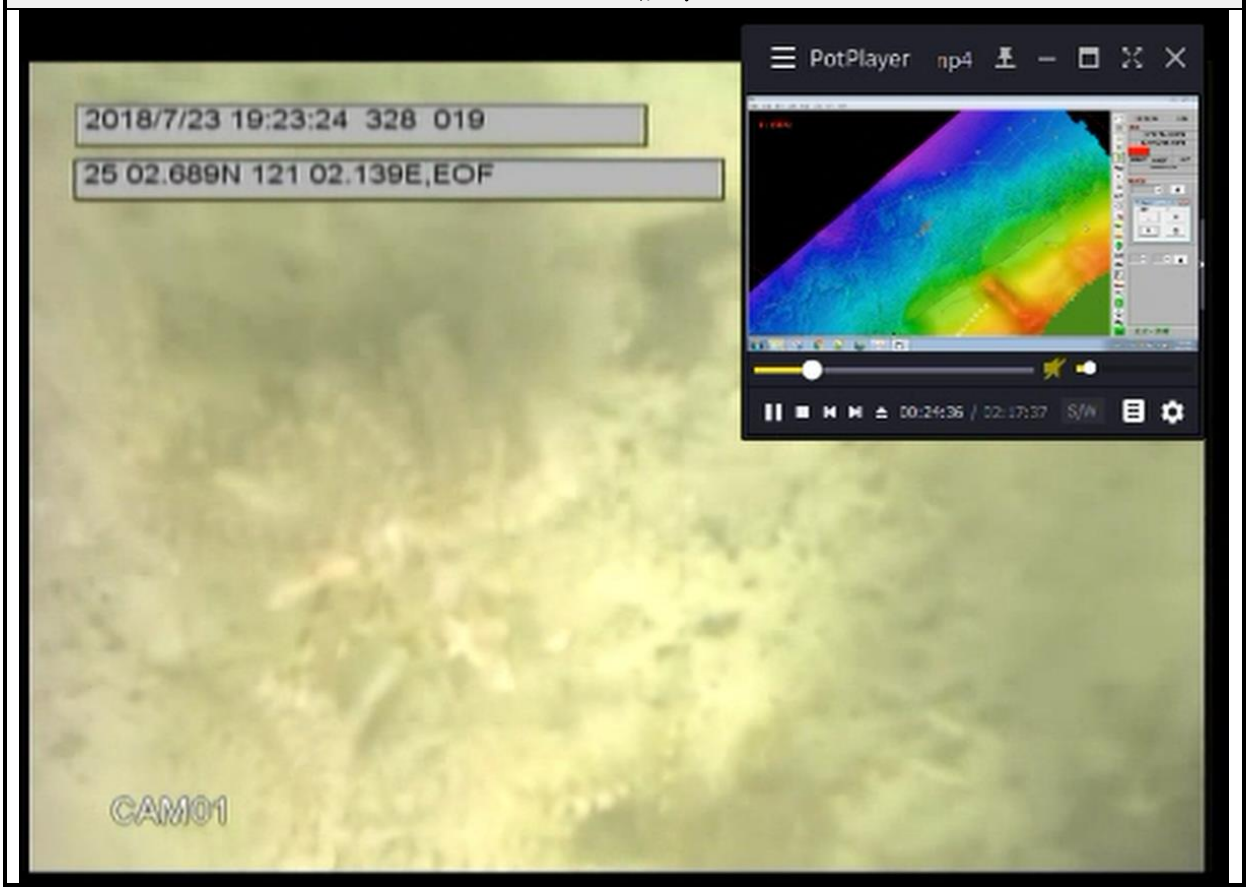


編號	經度	緯度
CPC_1_R036	121-02.139	25-02.689

影像位置

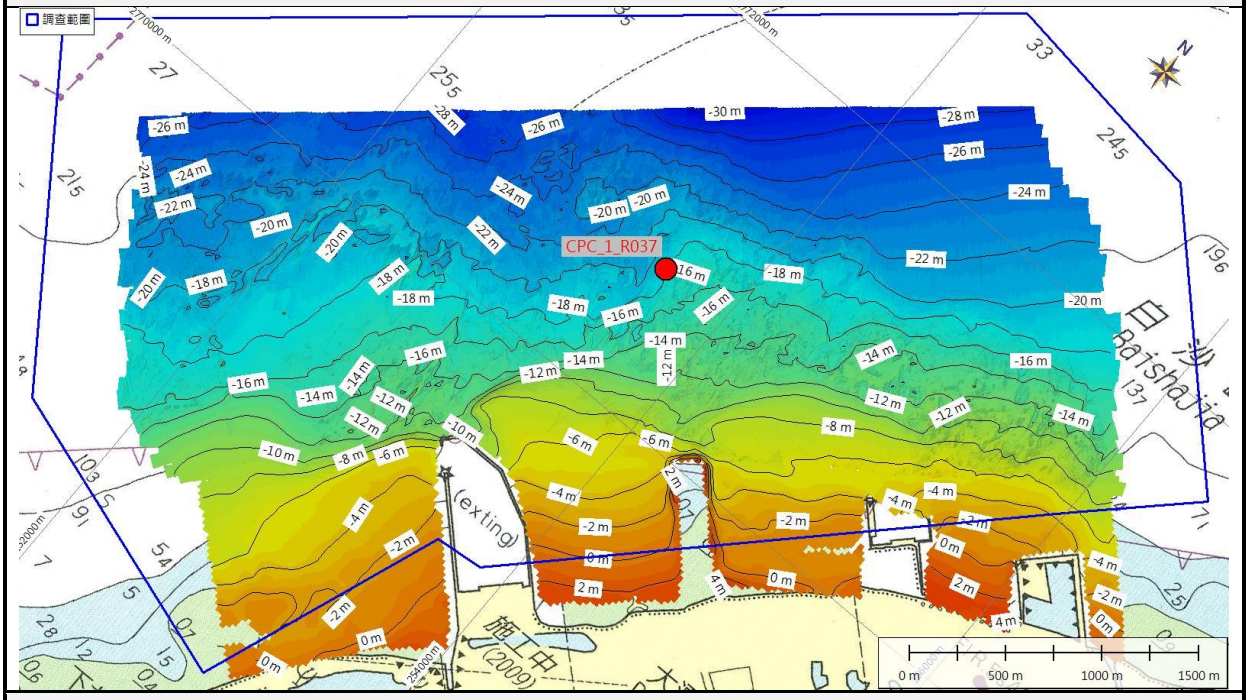


ROV影像

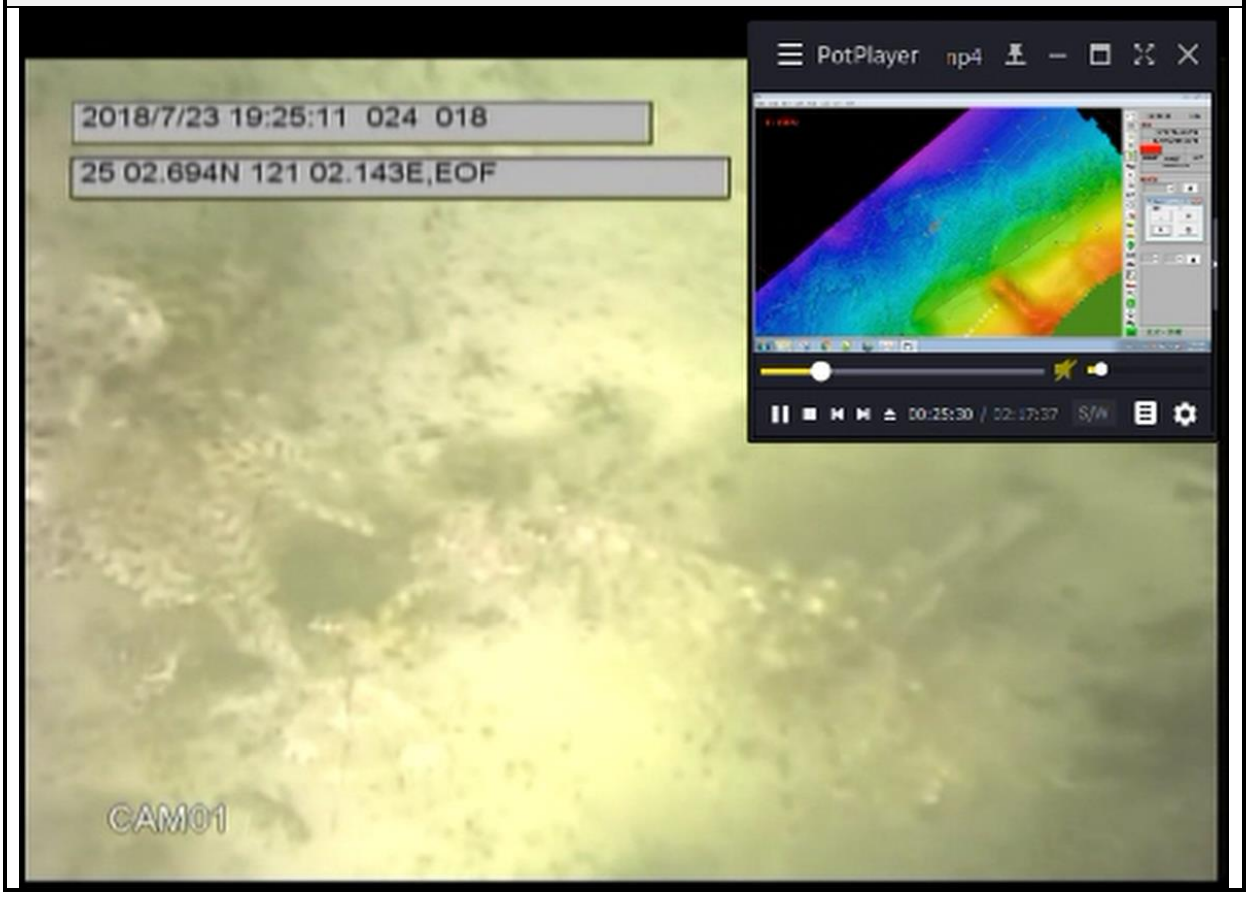


編號	經度	緯度
CPC_1_R037	121-02.143	25-02.694

影像位置

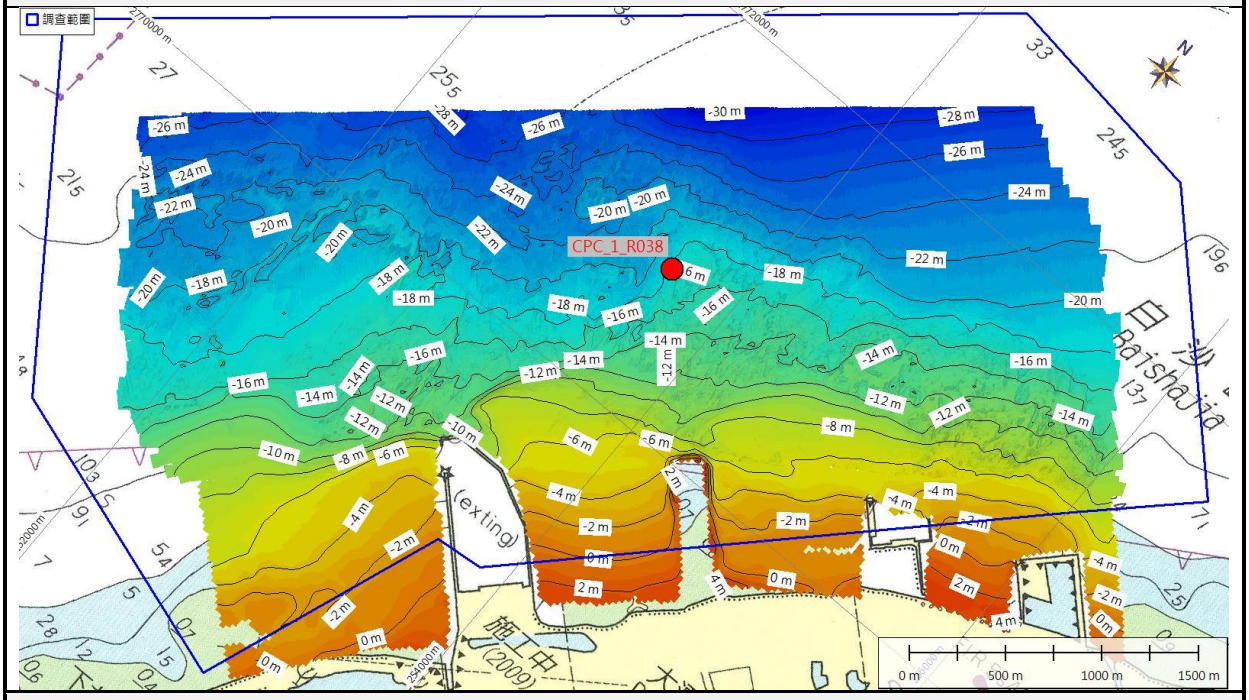


ROV影像

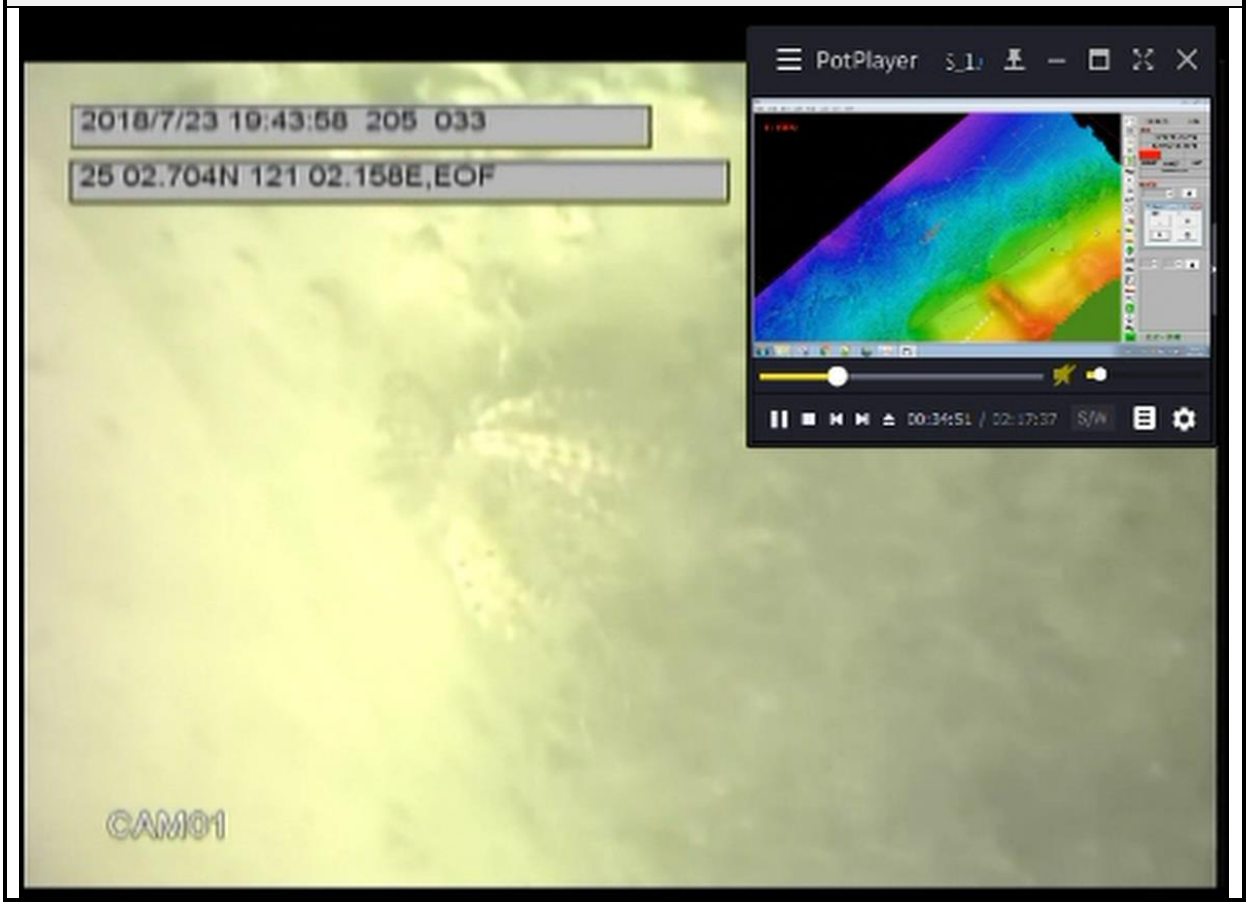


編號	經度	緯度
CPC_1_R038	121-02.158	25-02.704

影像位置

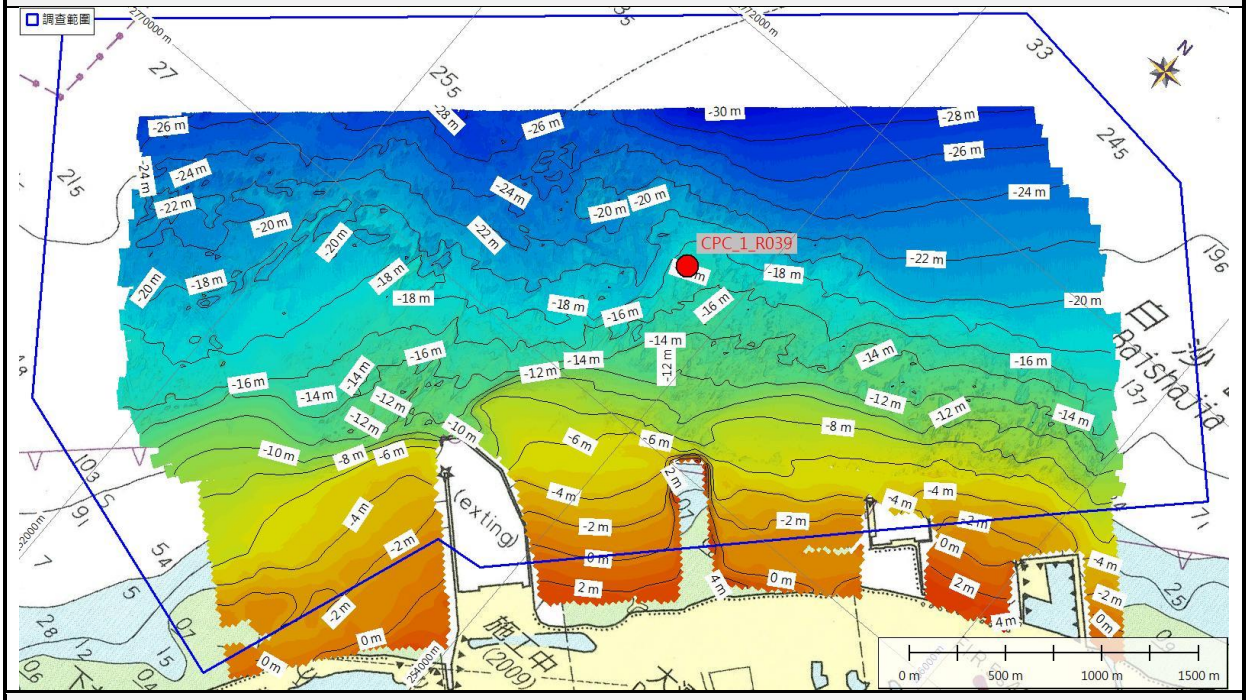


ROV影像

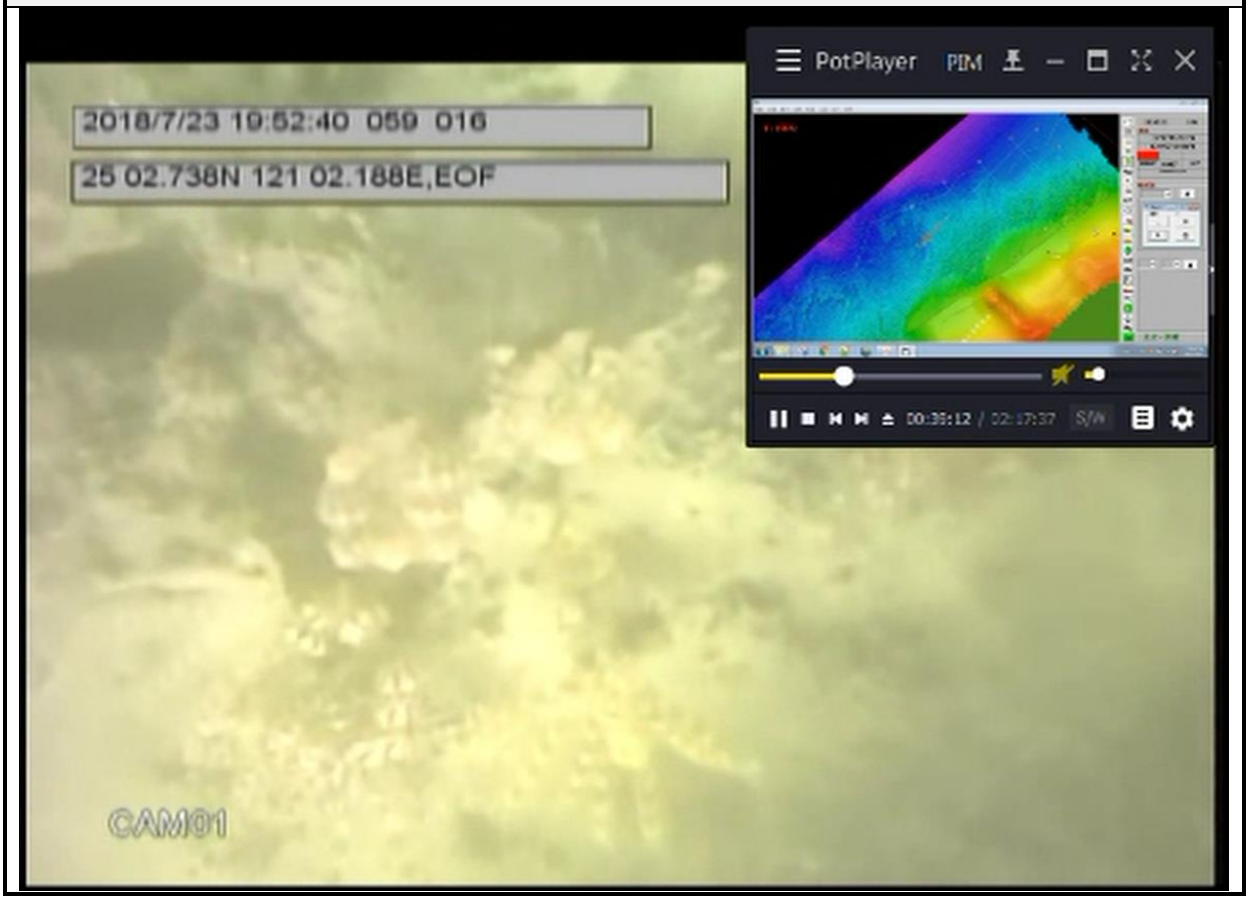


編號	經度	緯度
CPC_1_R039	121-02.188	25-02.738

影像位置

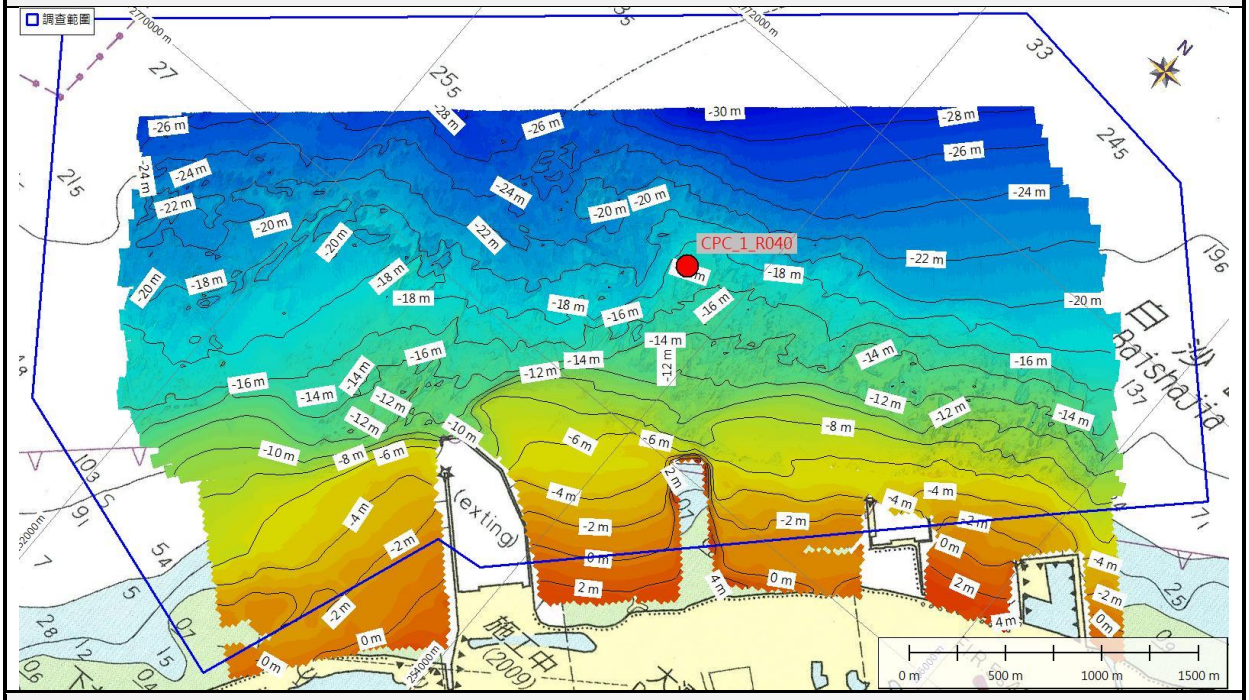


ROV影像

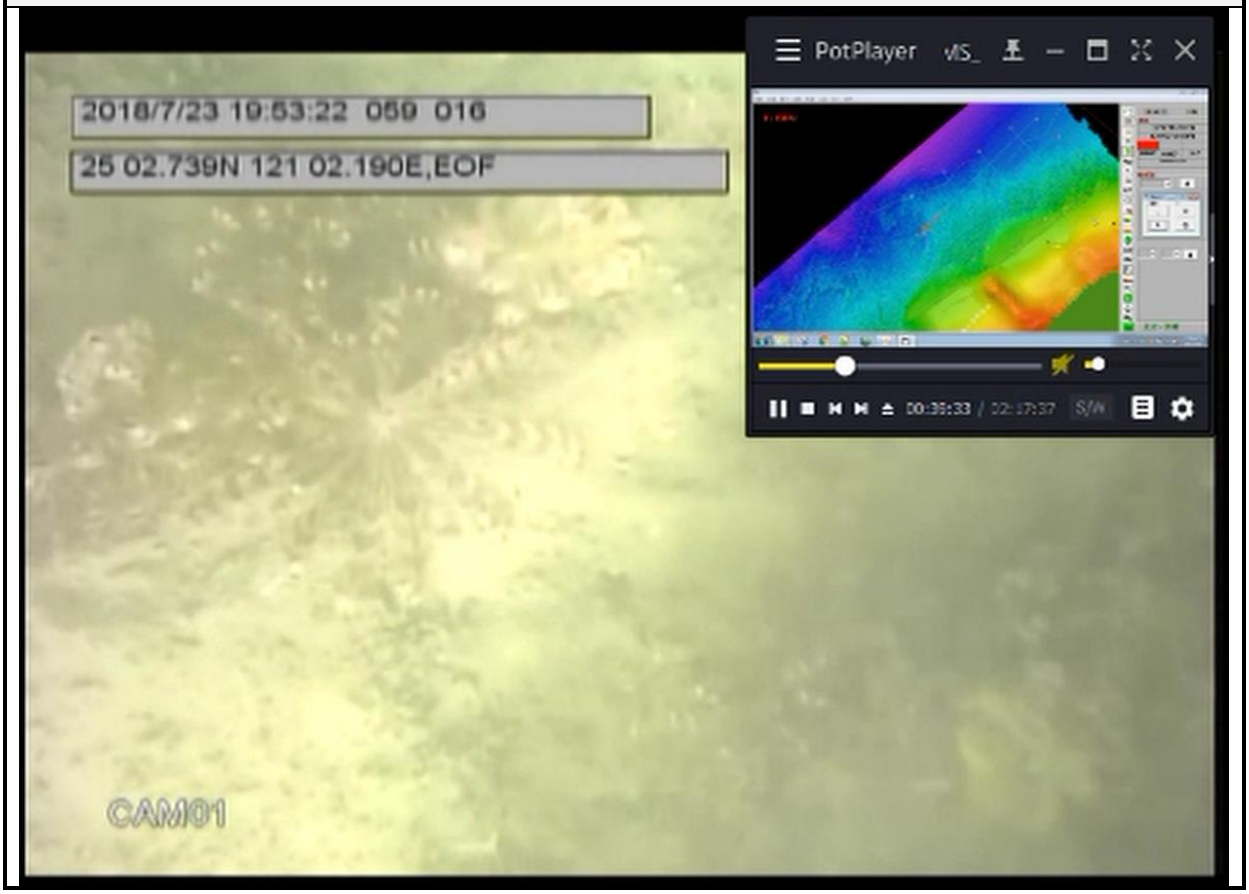


編號	經度	緯度
CPC_1_R040	121-02.190	25-02.739

影像位置

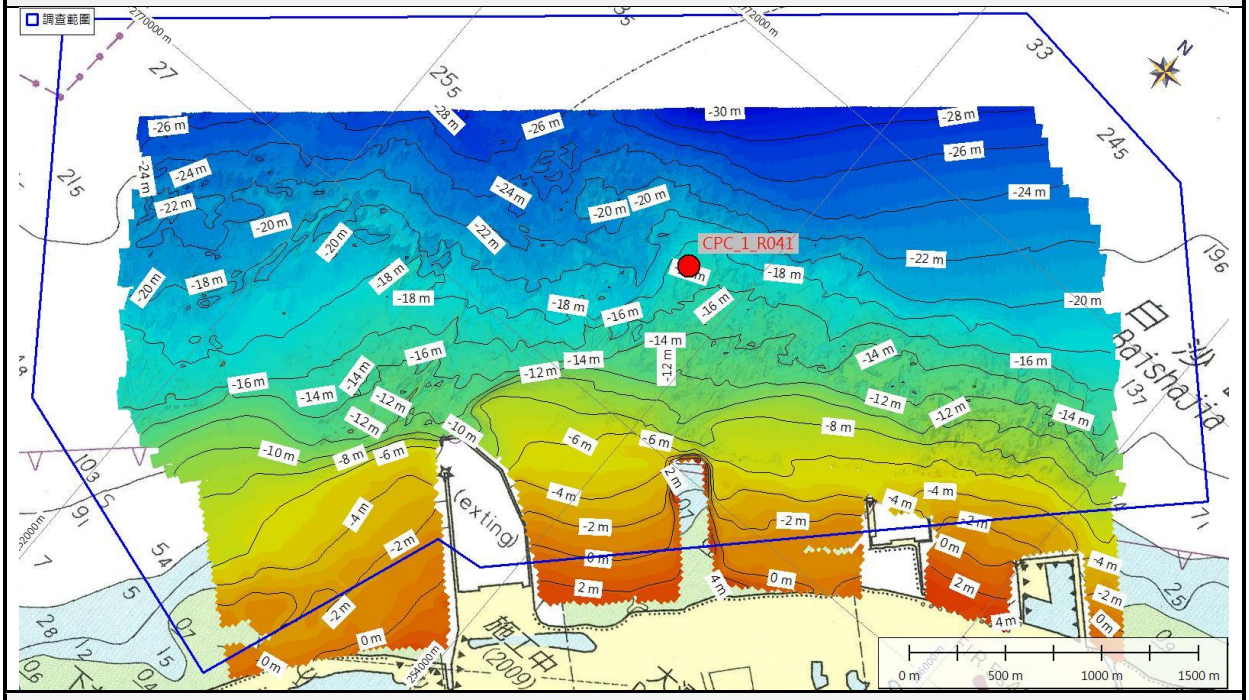


ROV影像

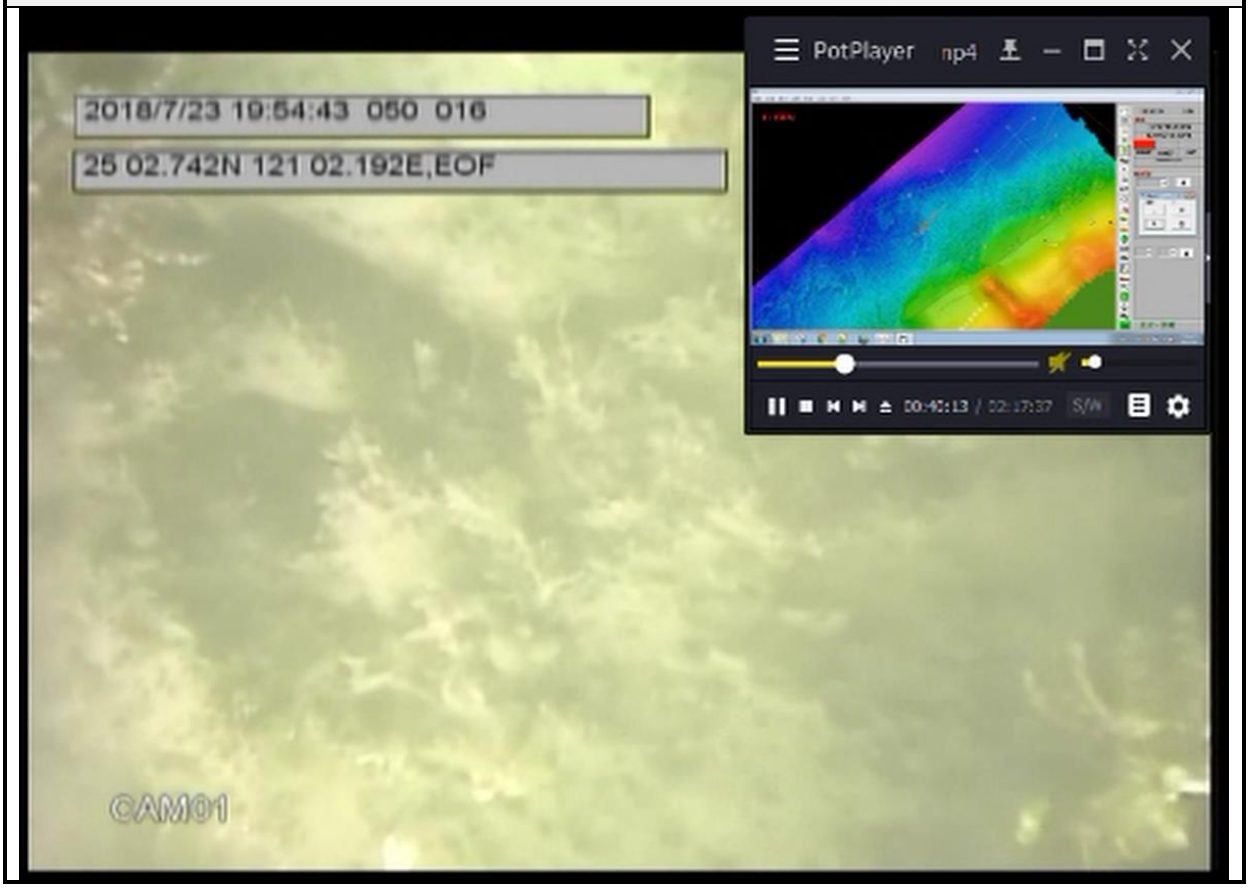


編號	經度	緯度
CPC_1_R041	121-02.192	25-02.742

影像位置

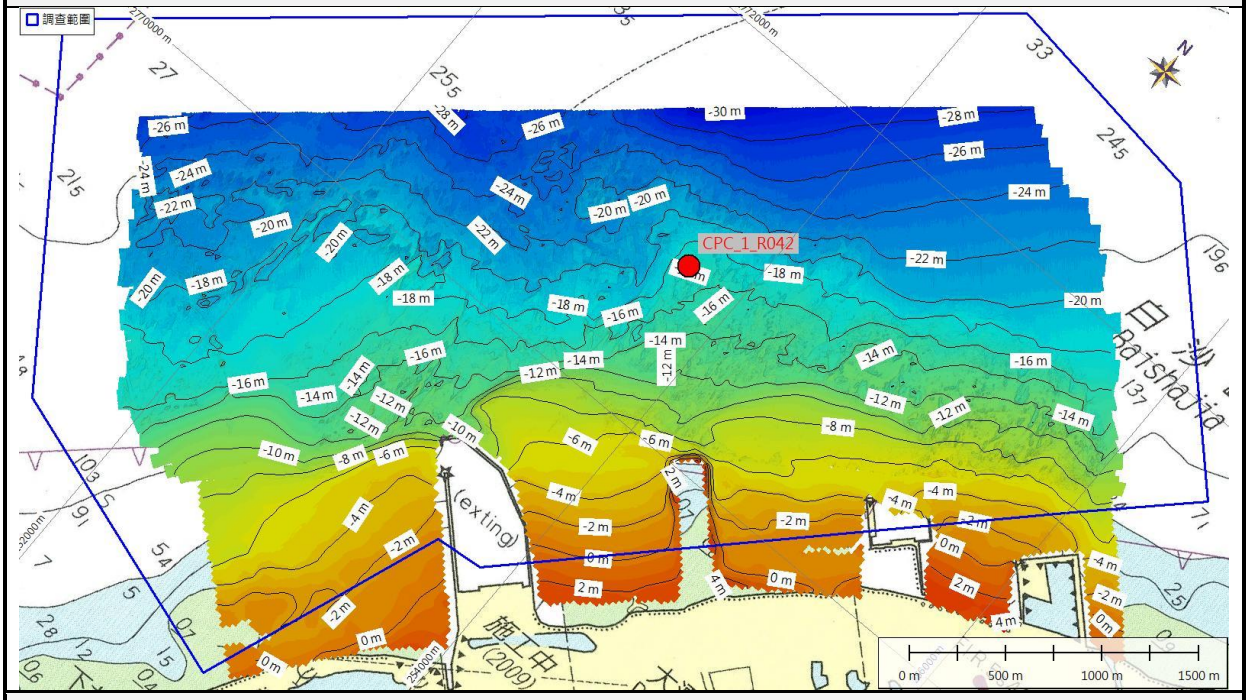


ROV影像

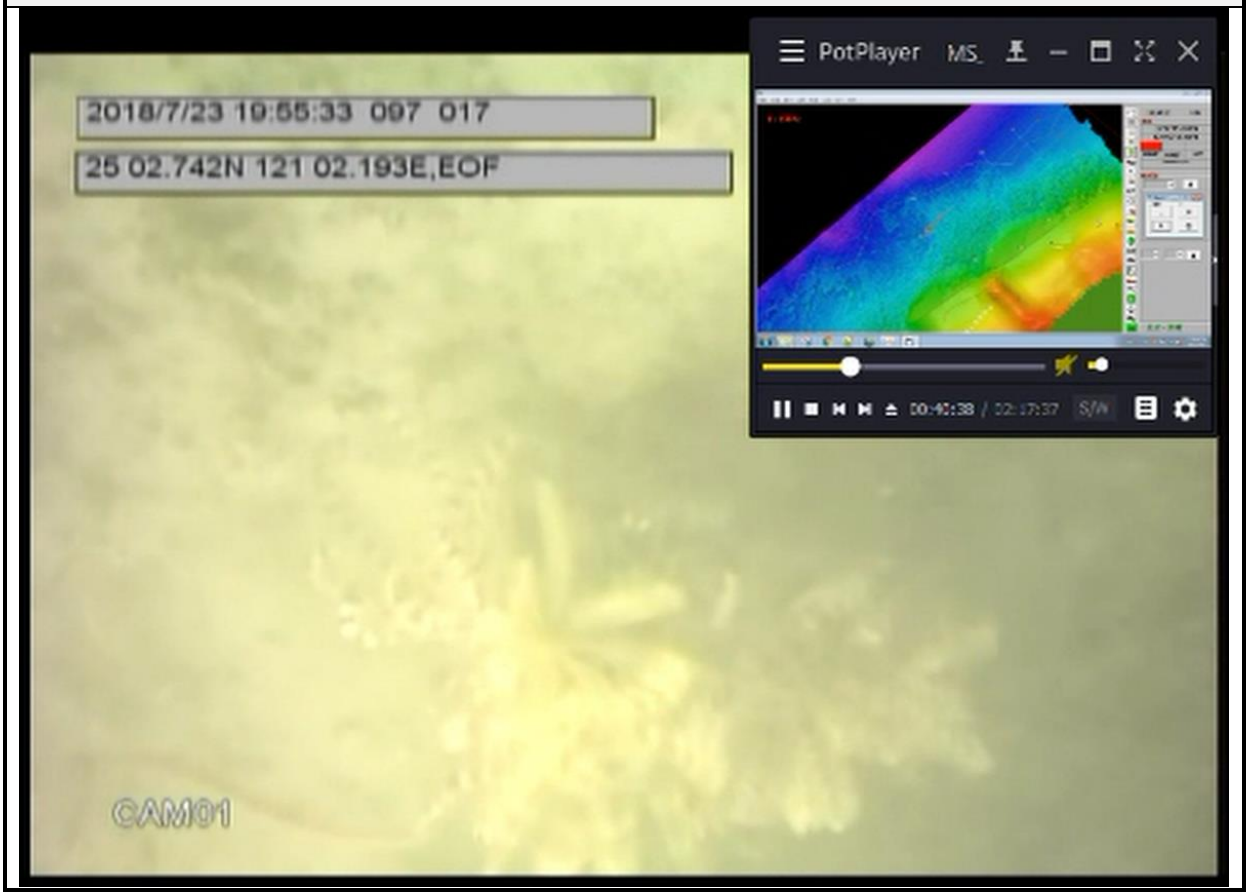


編號	經度	緯度
CPC_1_R042	121-02.193	25-02.742

影像位置

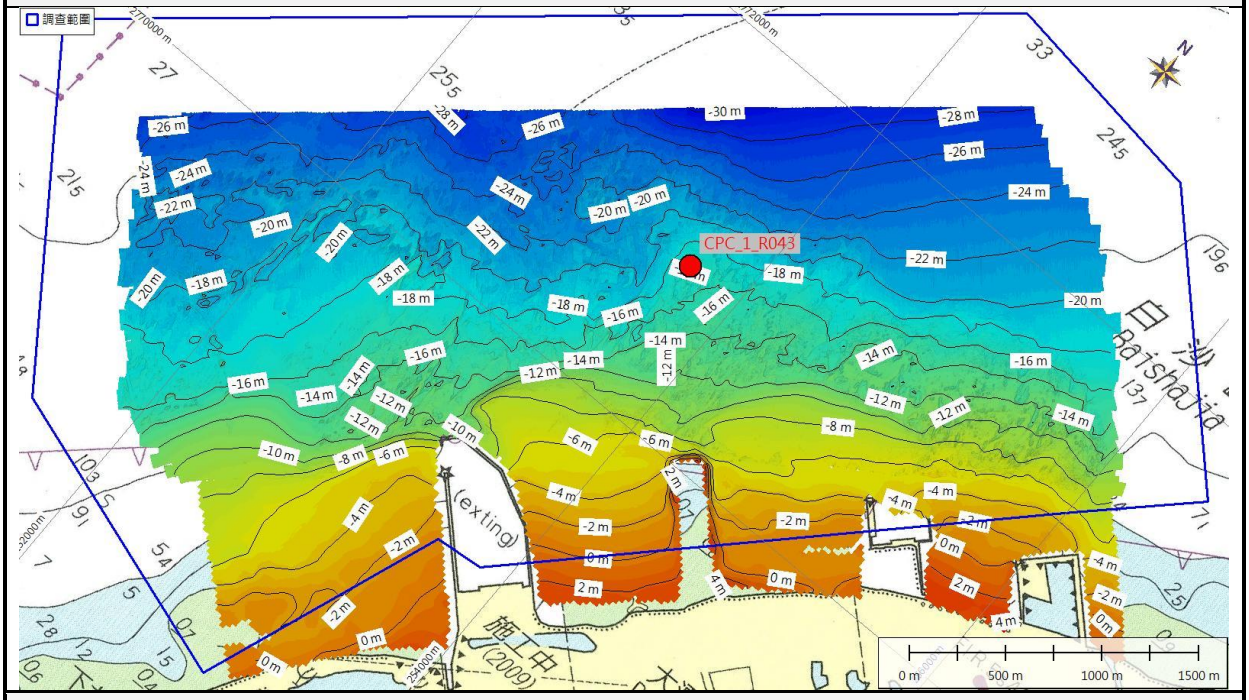


ROV影像

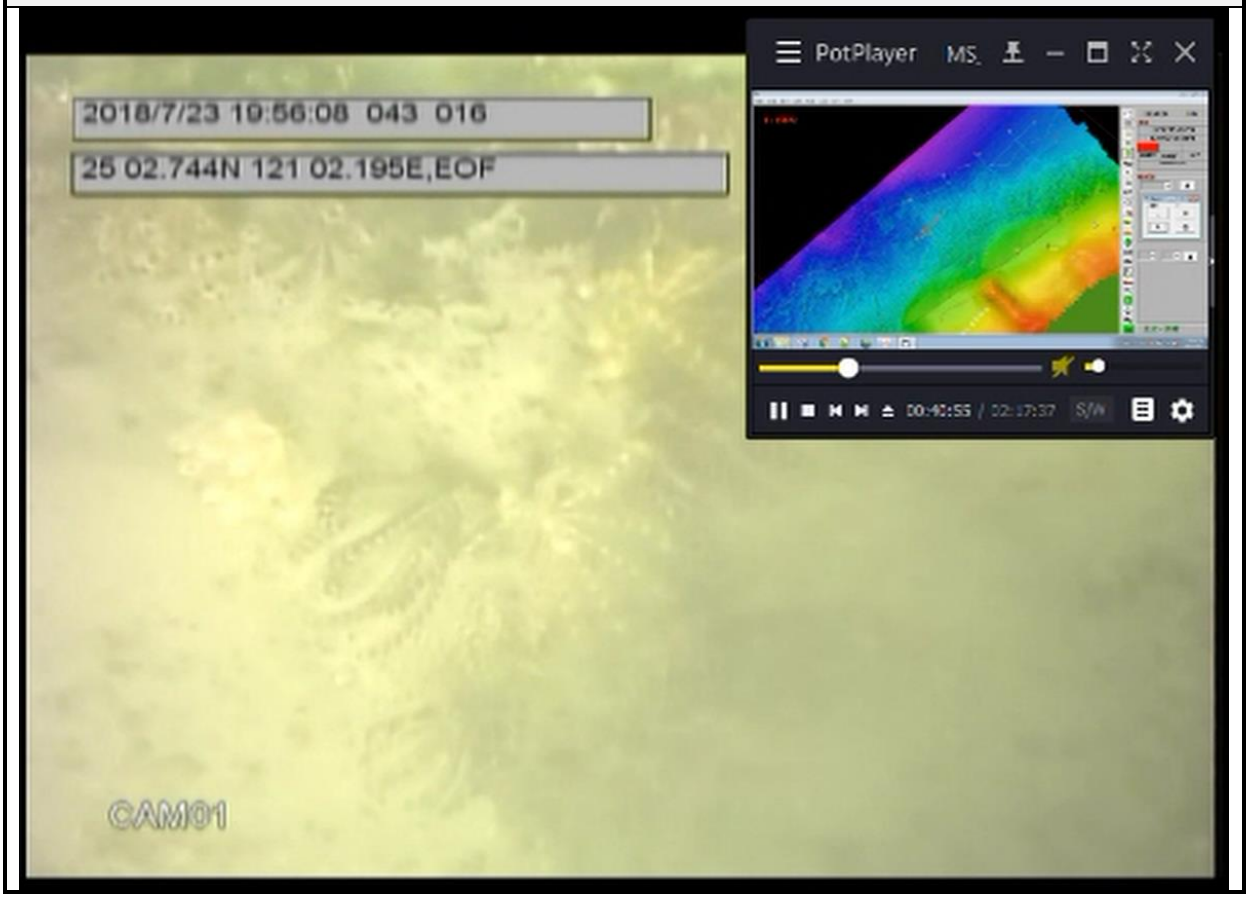


編號	經度	緯度
CPC_1_R043	121-02.195	25-02.744

影像位置

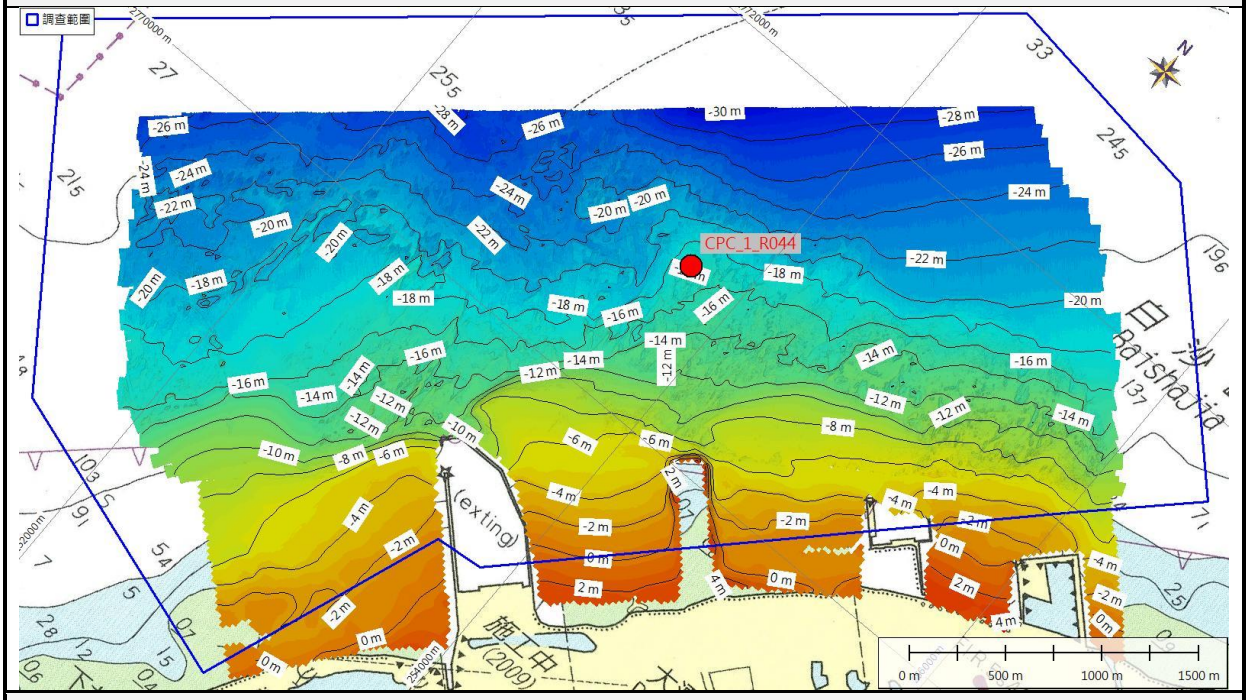


ROV影像

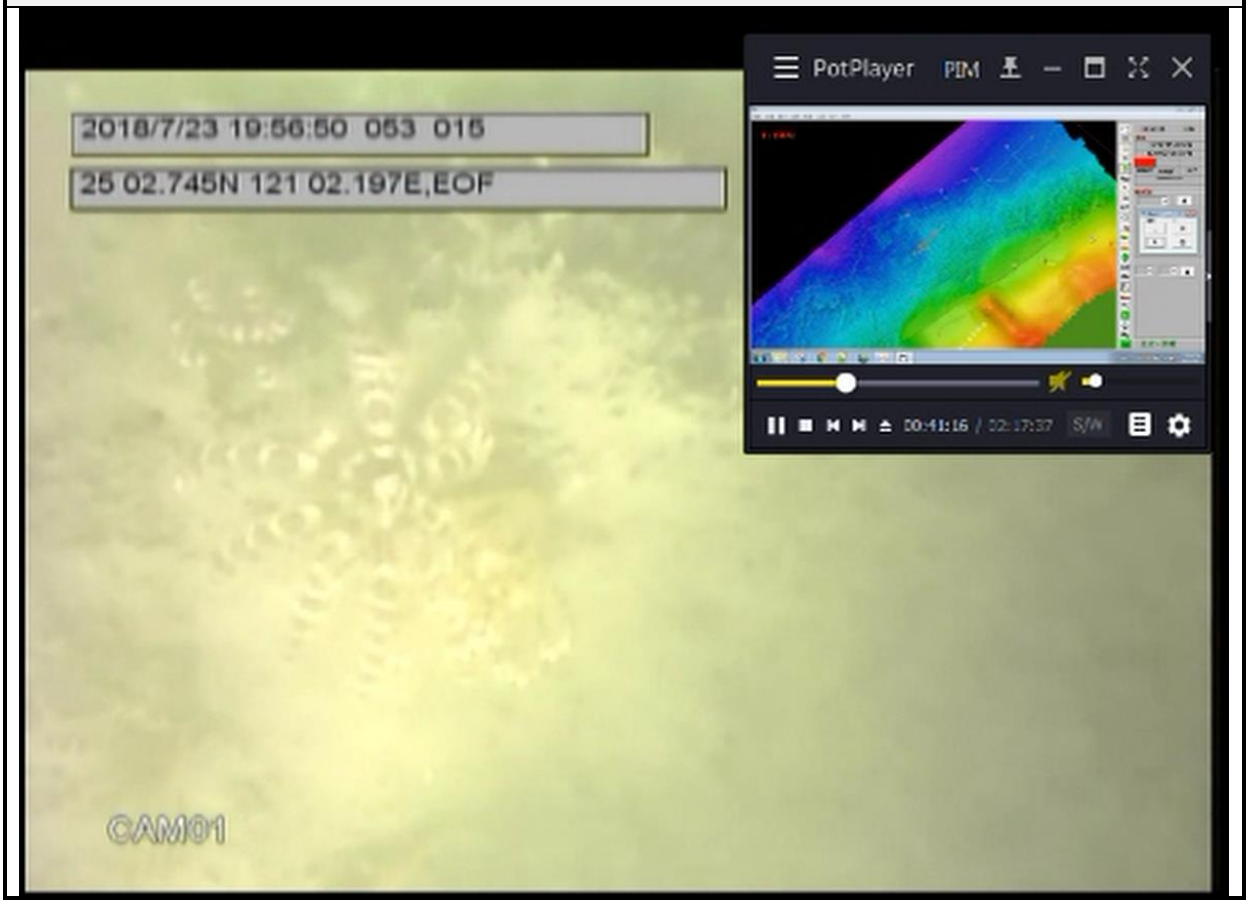


編號	經度	緯度
CPC_1_R044	121-02.197	25-02.745

影像位置

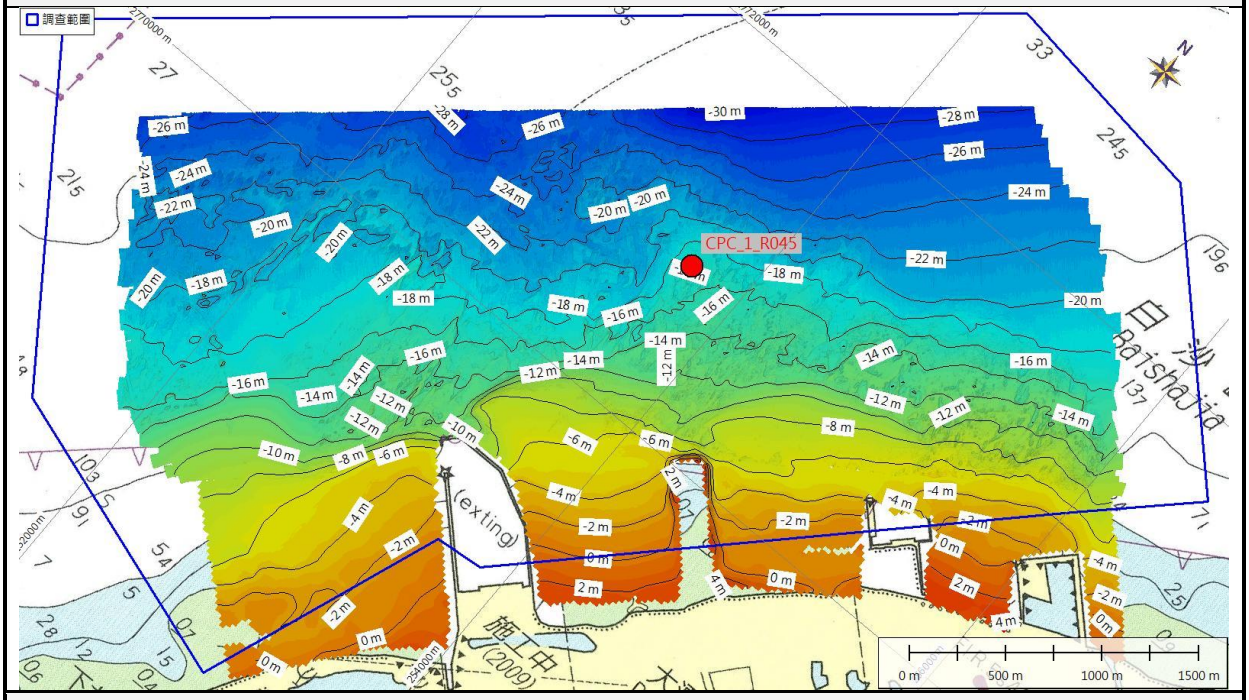


ROV影像

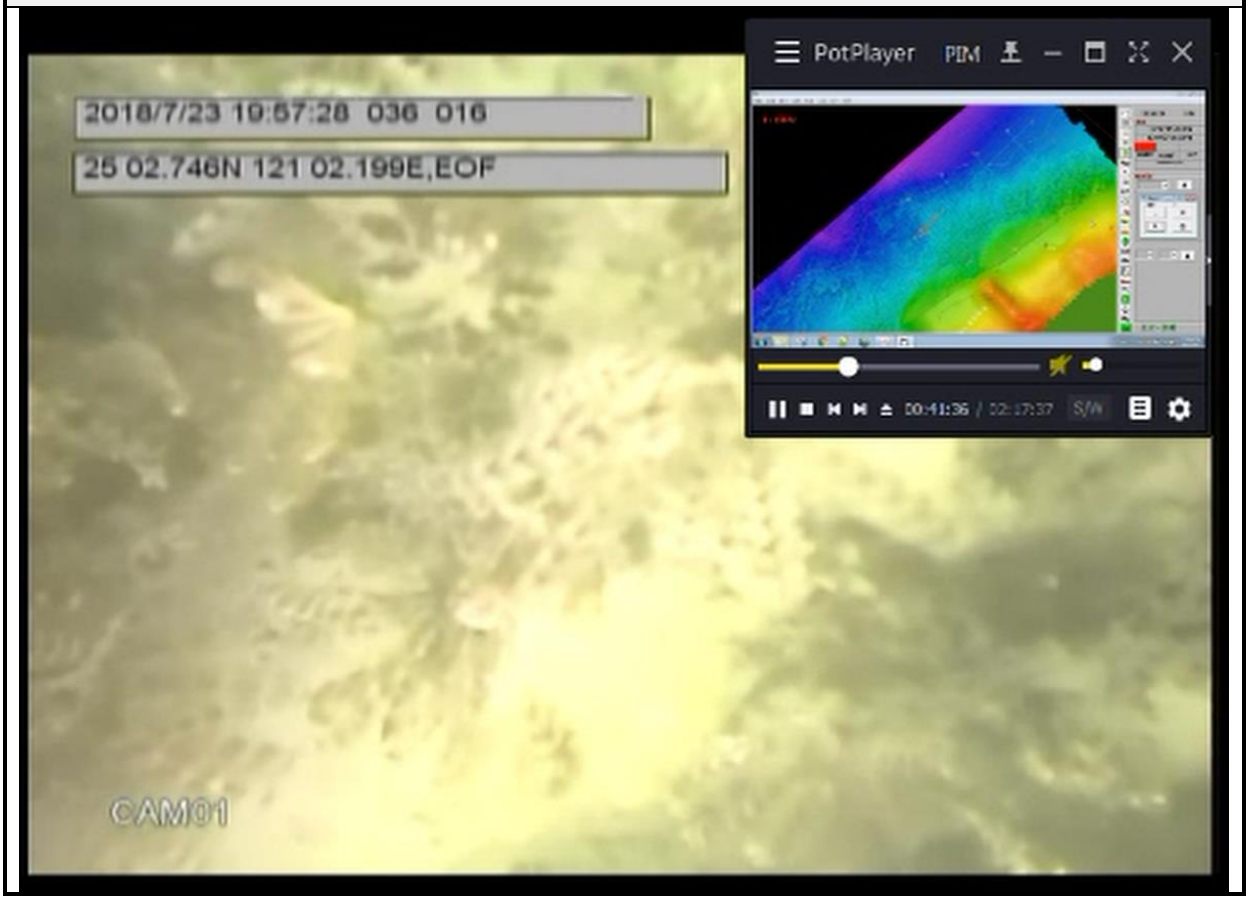


編號	經度	緯度
CPC_1_R045	121-02.199	25-02.746

影像位置

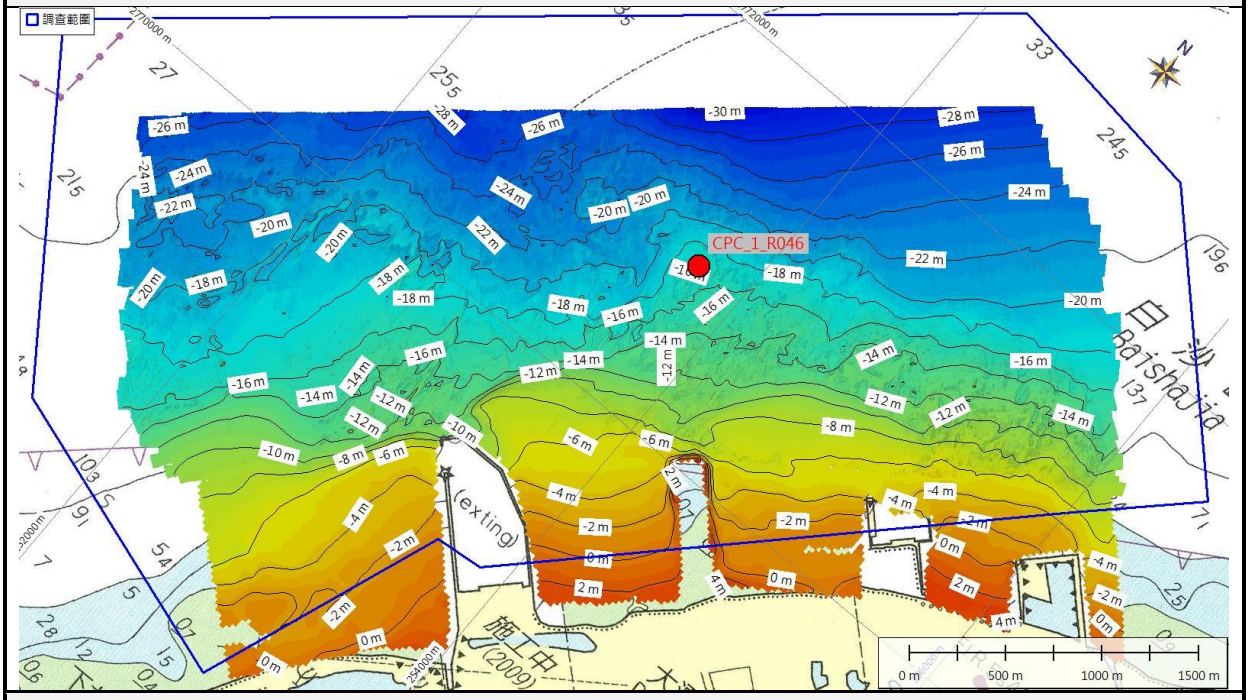


ROV影像

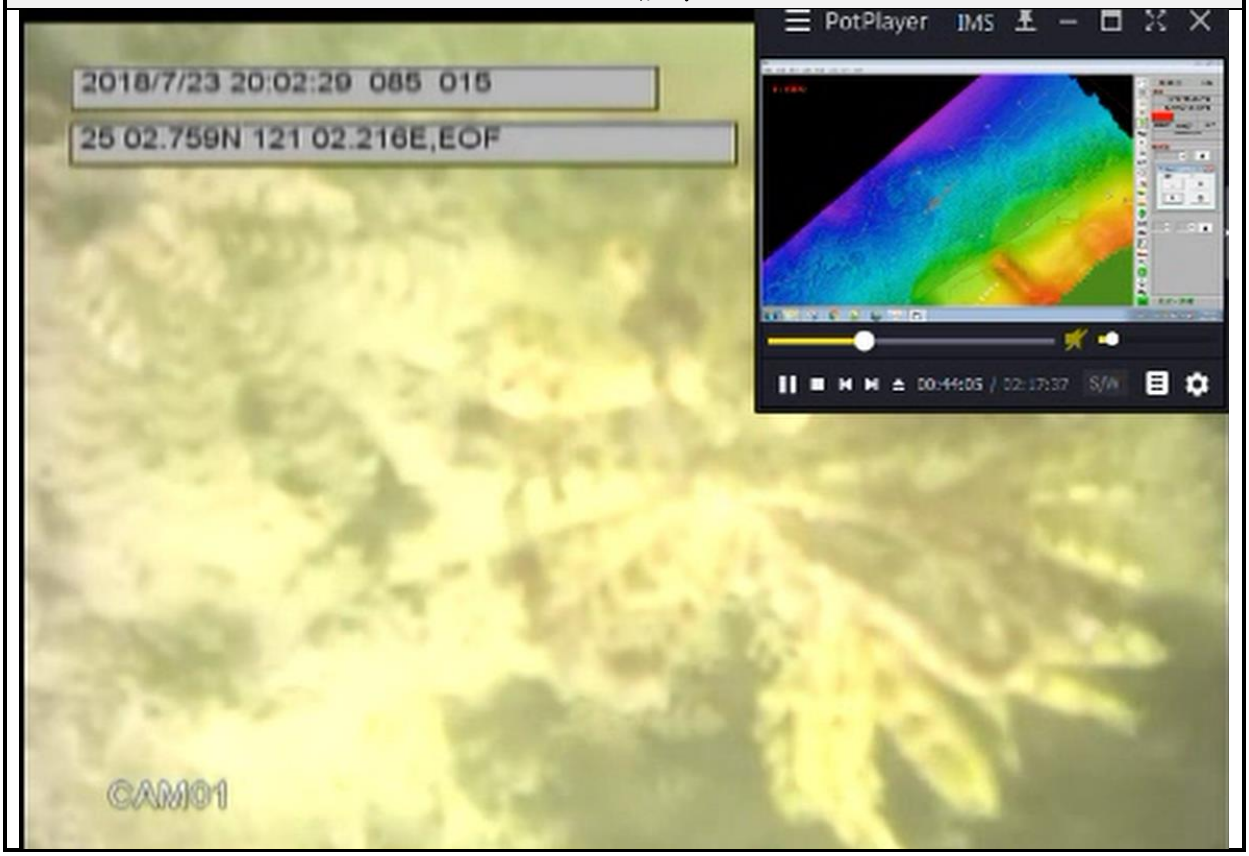


編號	經度	緯度
CPC_1_R046	121-02.216	25-02.759

影像位置

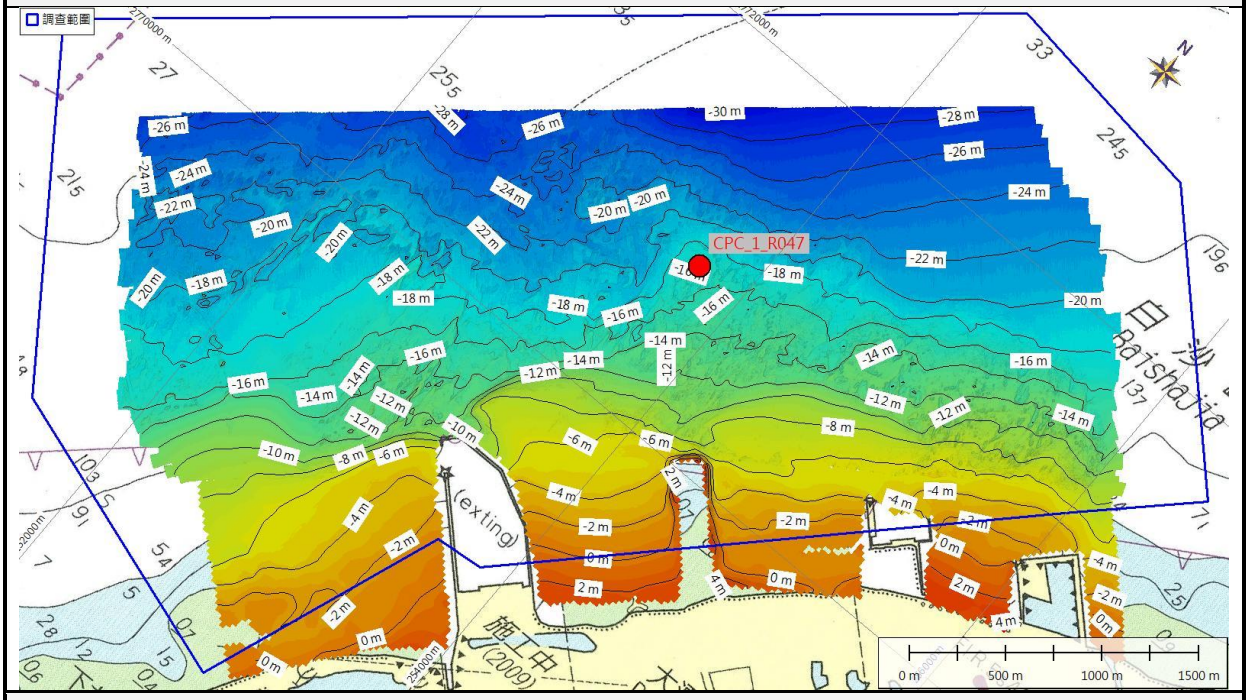


ROV影像

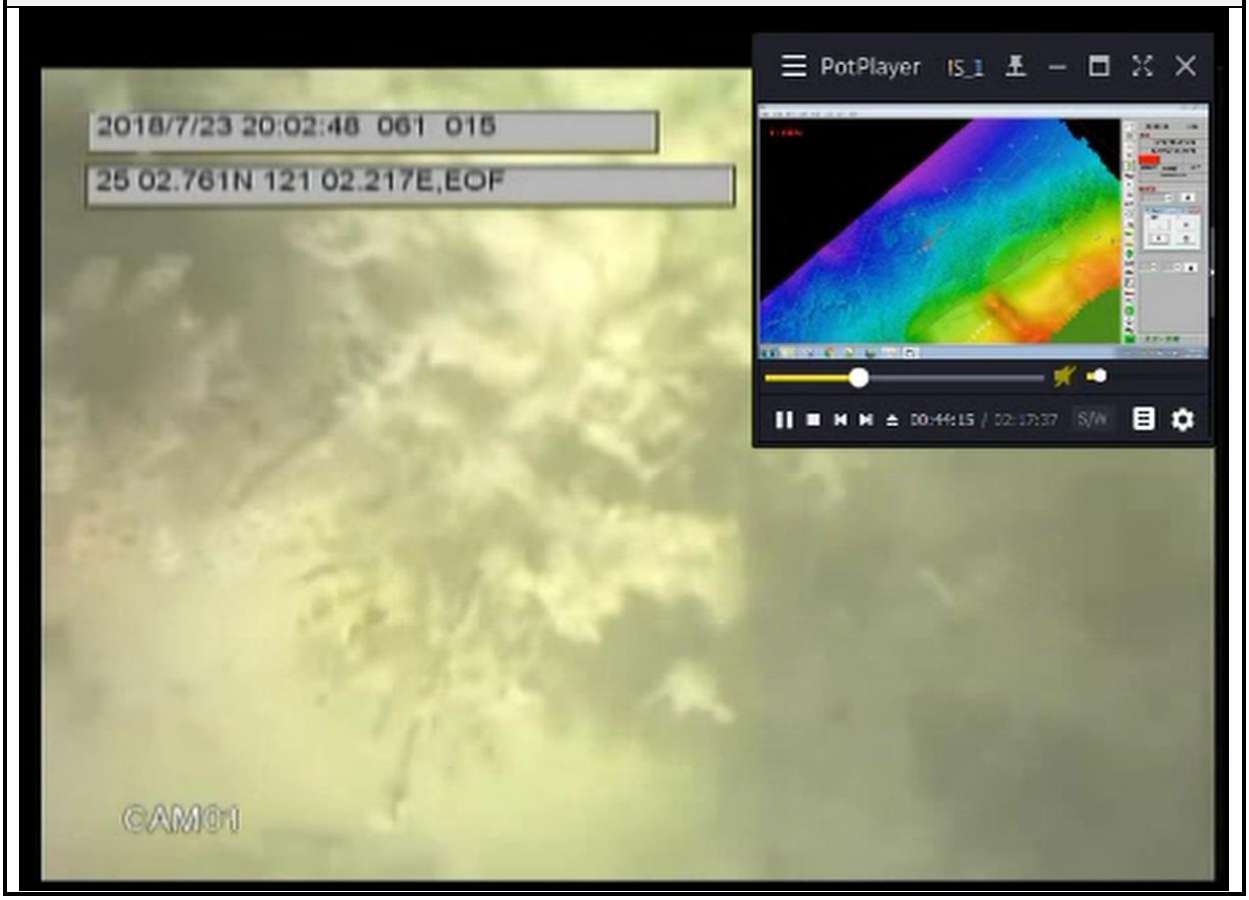


編號	經度	緯度
CPC_1_R047	121-02.217	25-02.761

影像位置

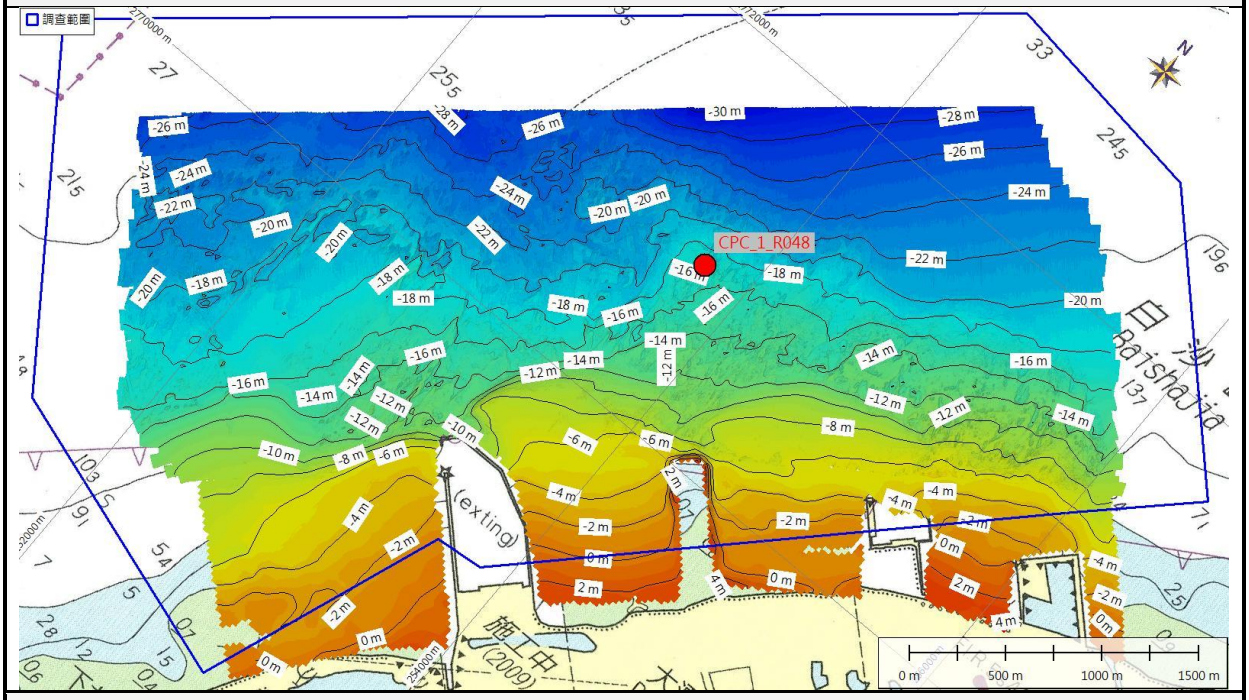


ROV影像

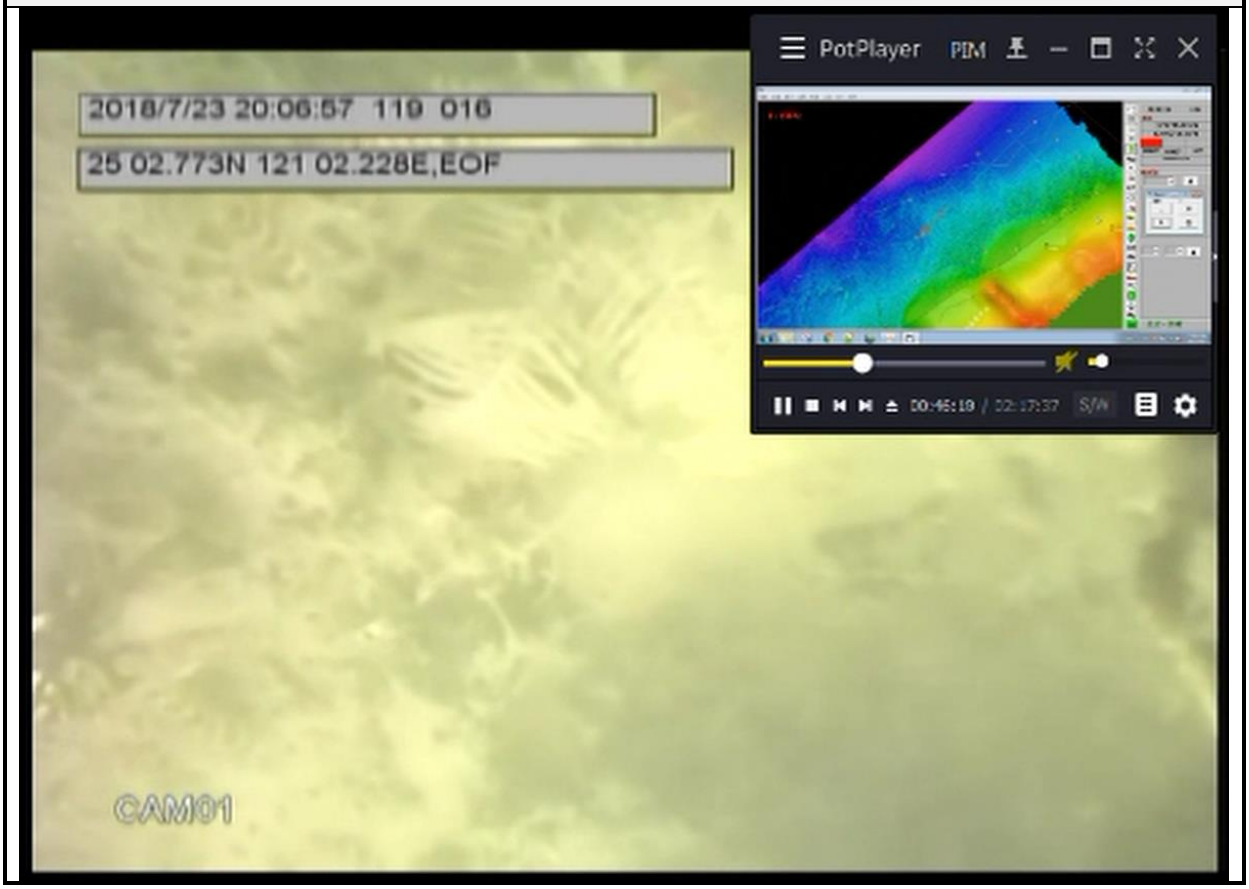


編號	經度	緯度
CPC_1_R048	121-02.228	25-02.773

影像位置

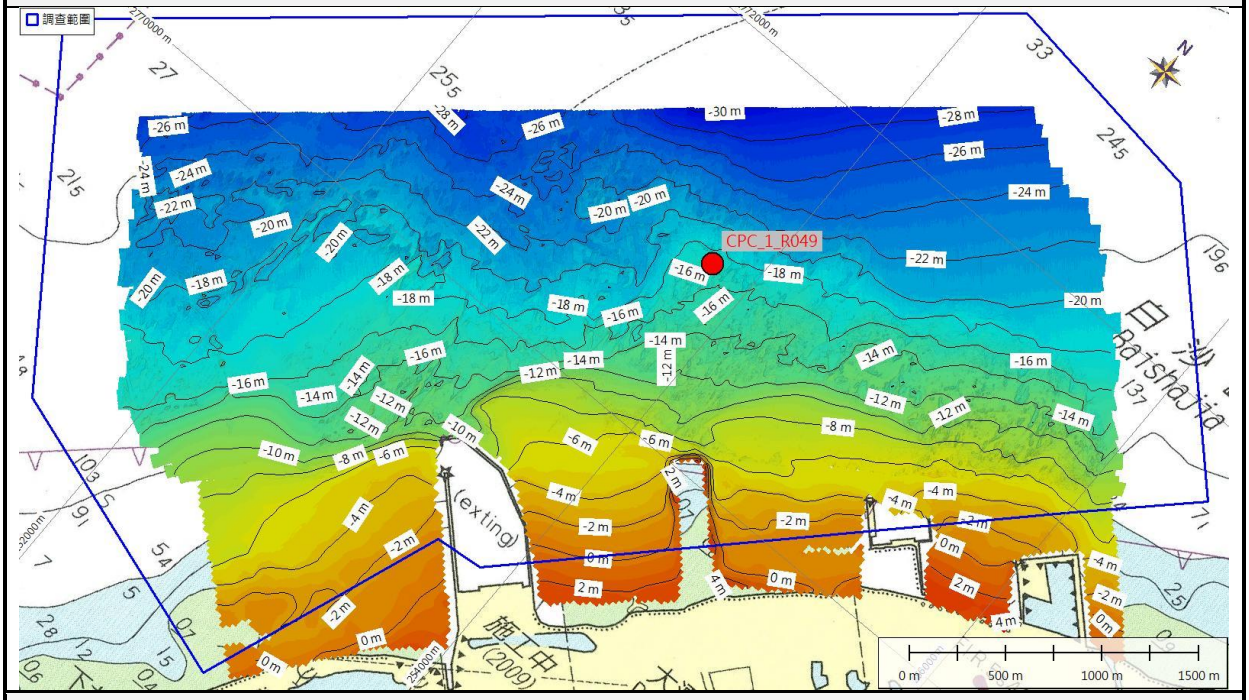


ROV影像

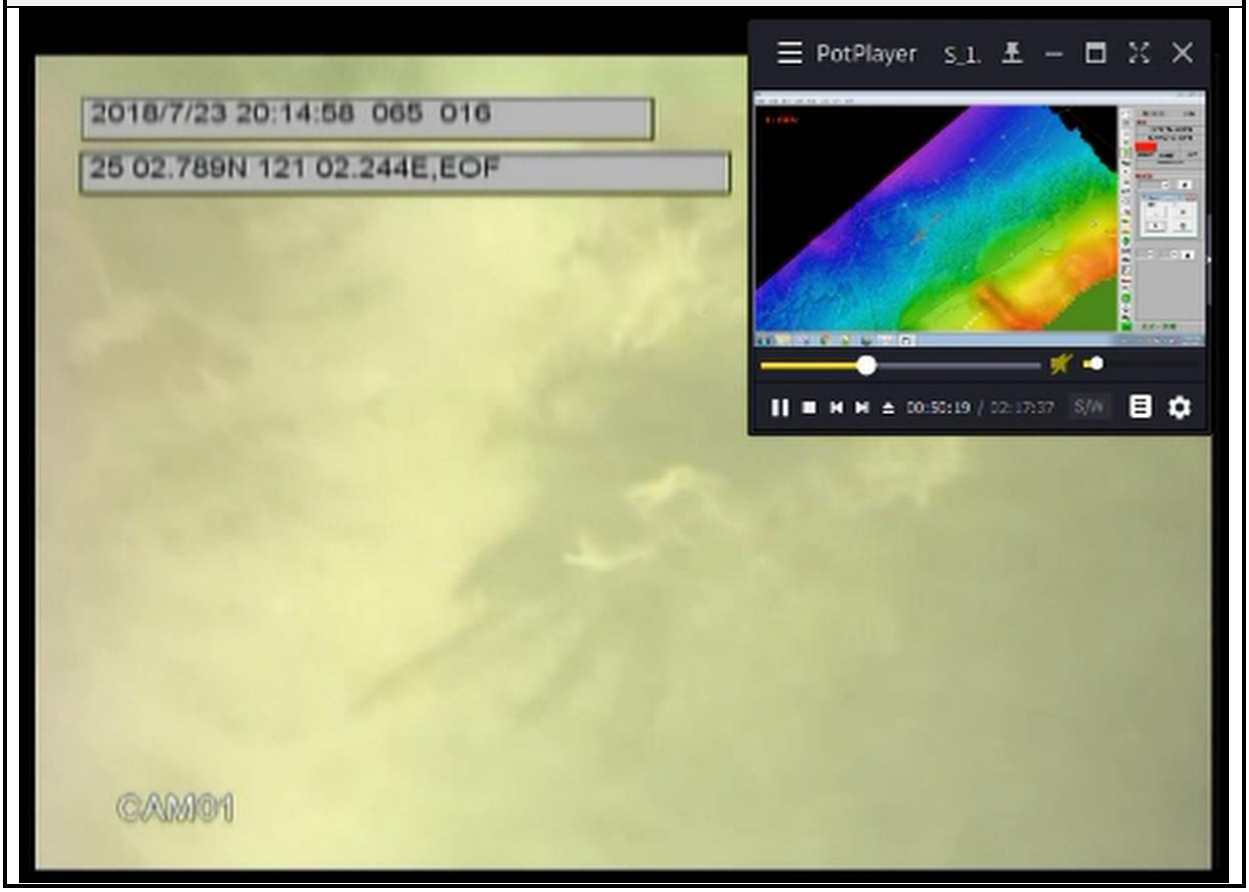


編號	經度	緯度
CPC_1_R049	121-02.244	25-02.789

影像位置

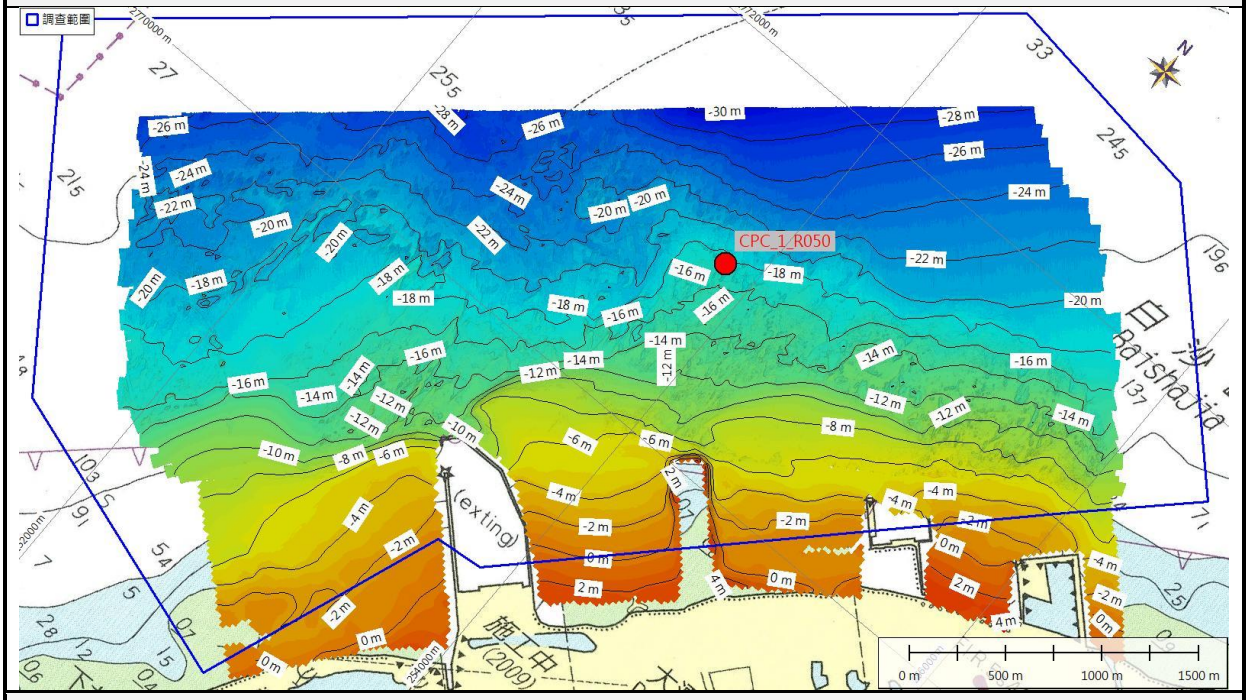


ROV影像

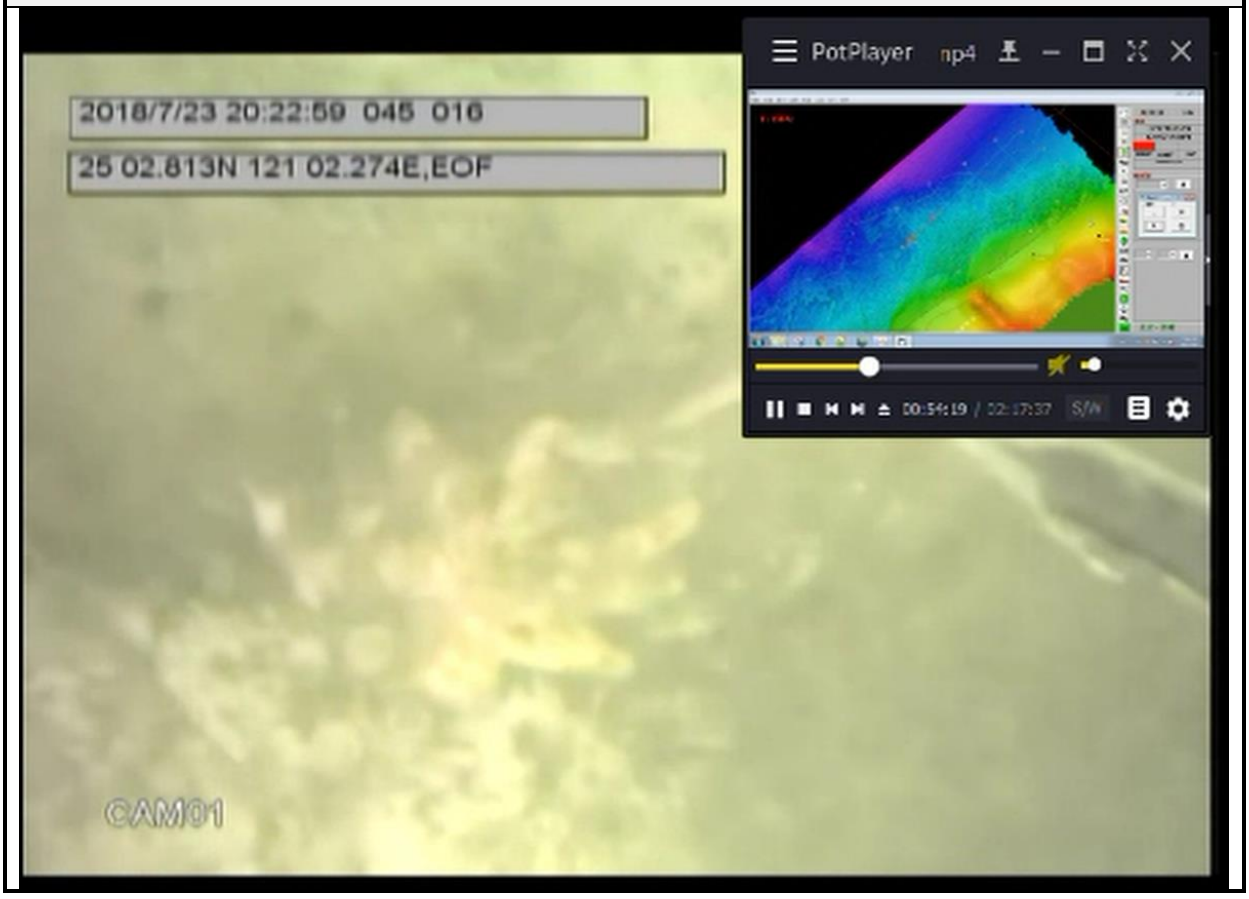


編號	經度	緯度
CPC_1_R050	121-02.274	25-02.813

影像位置

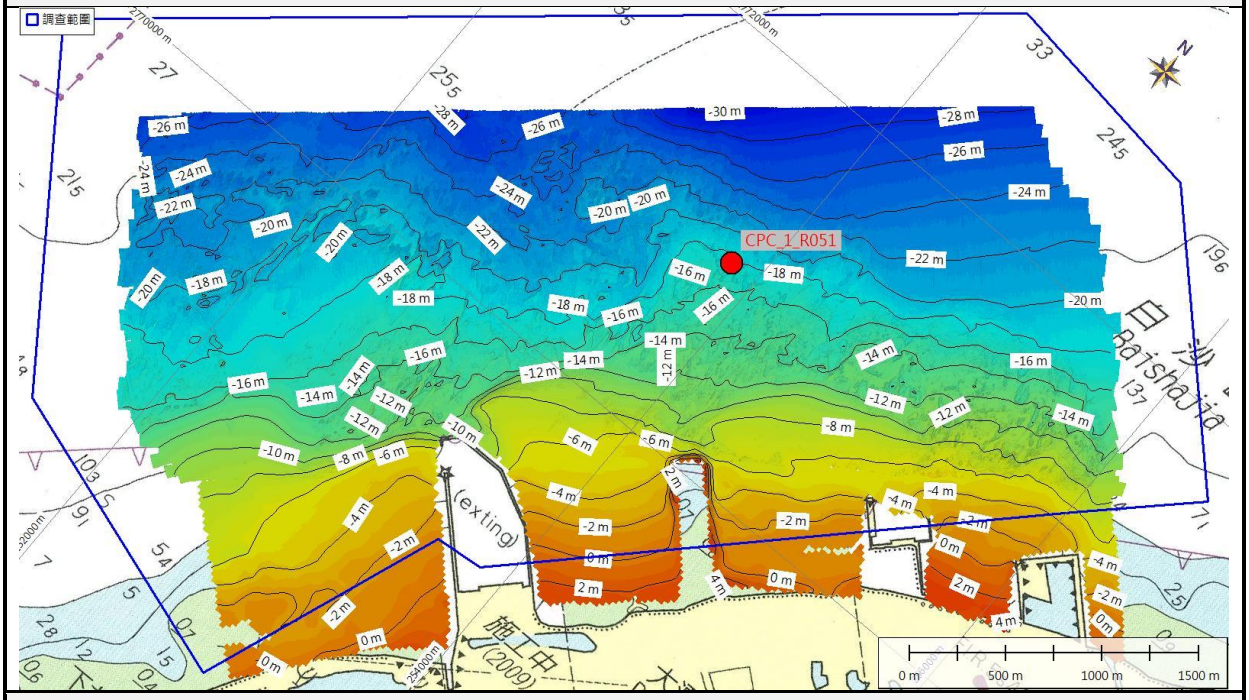


ROV影像

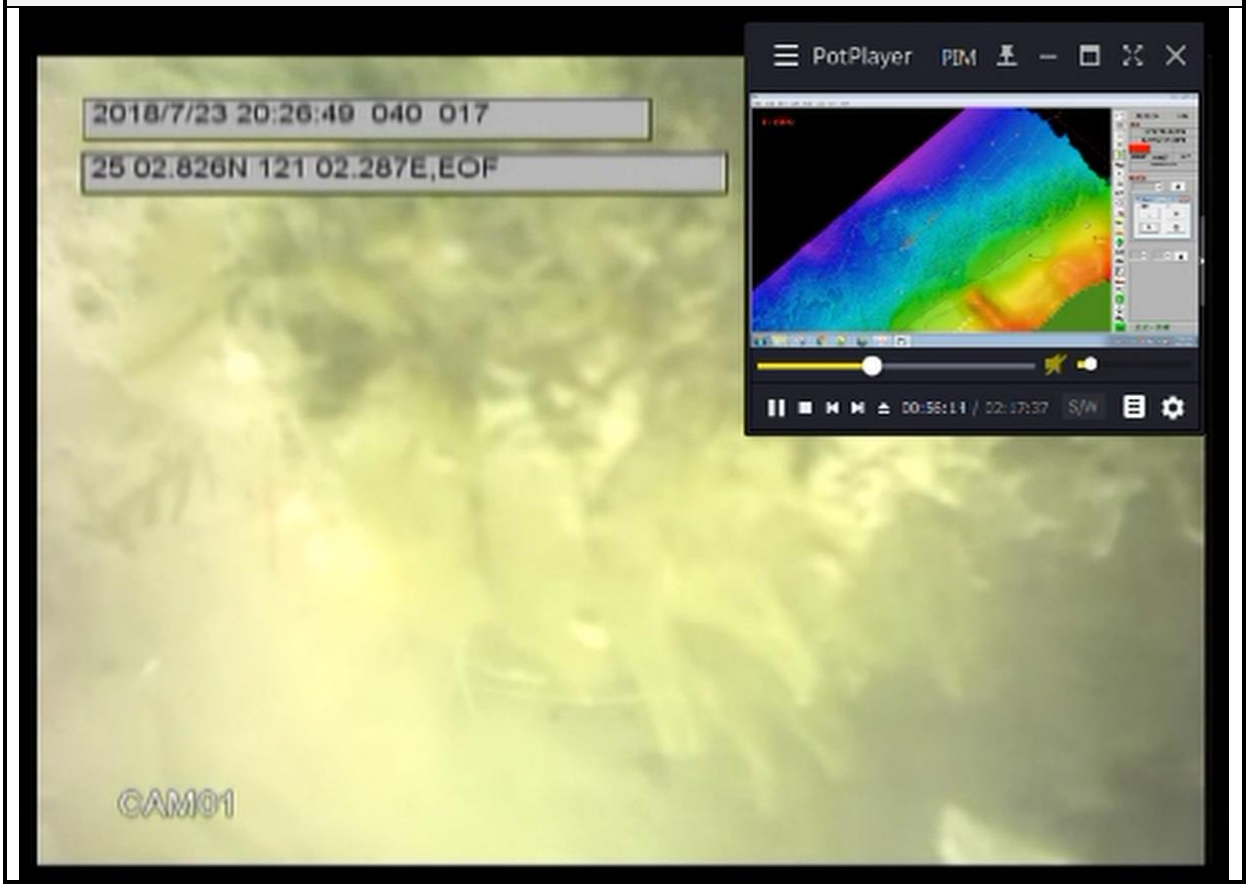


編號	經度	緯度
CPC_1_R051	121-02.287	25-02.826

影像位置

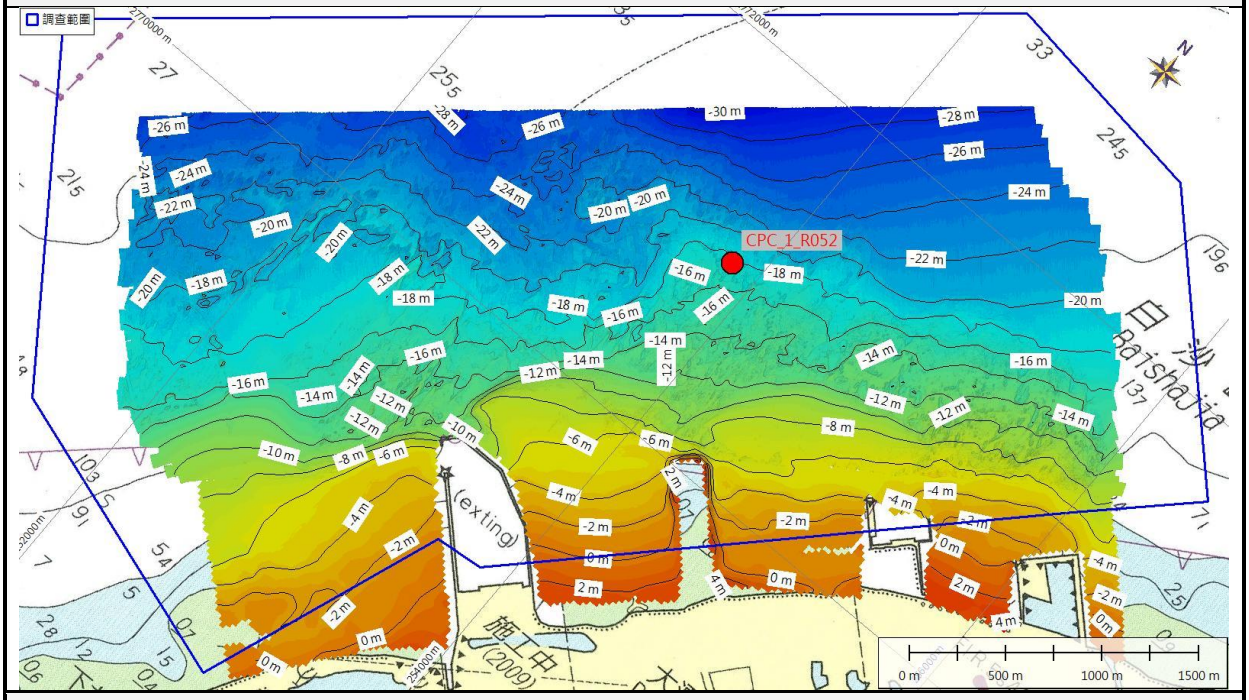


ROV影像

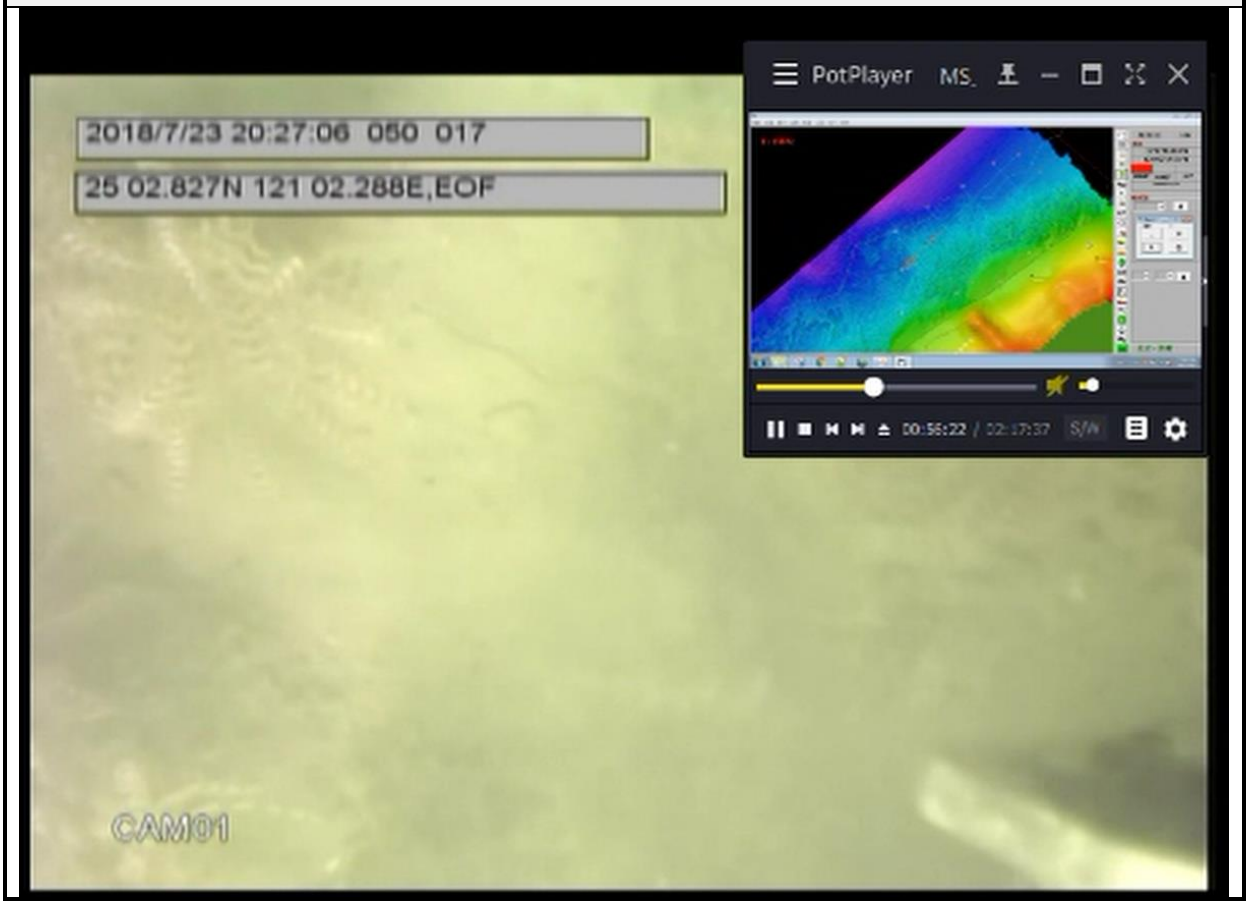


編號	經度	緯度
CPC_1_R052	121-02.288	25-02.827

影像位置

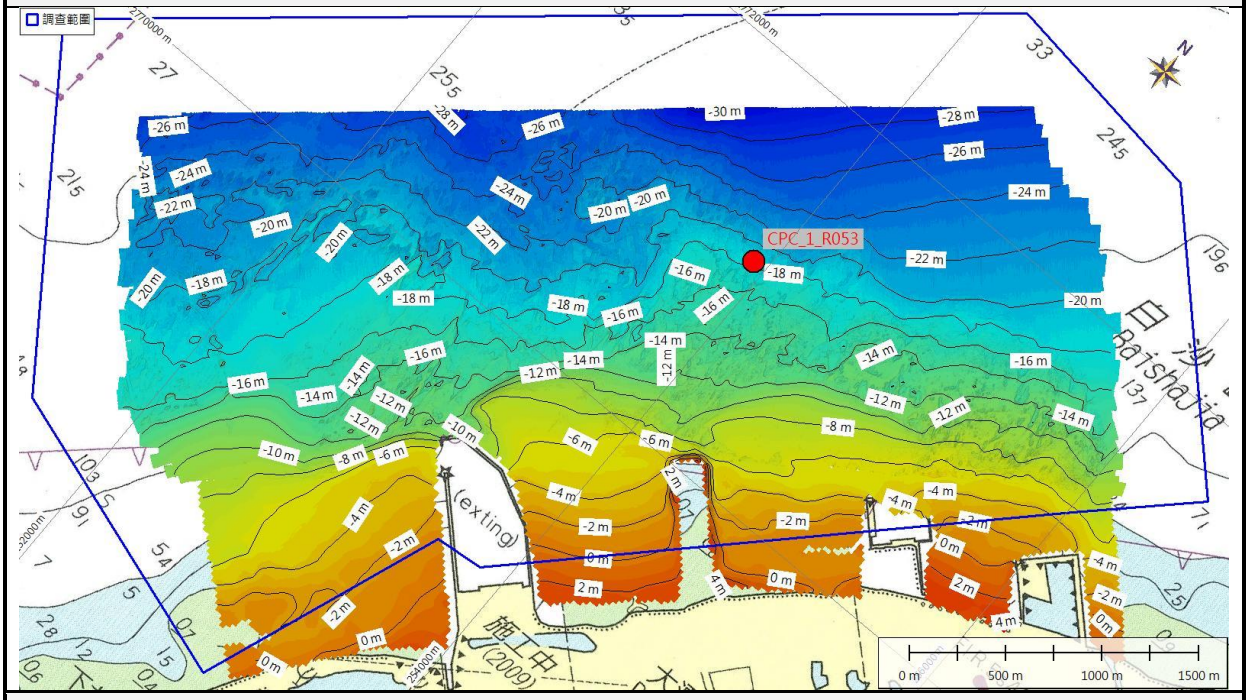


ROV影像

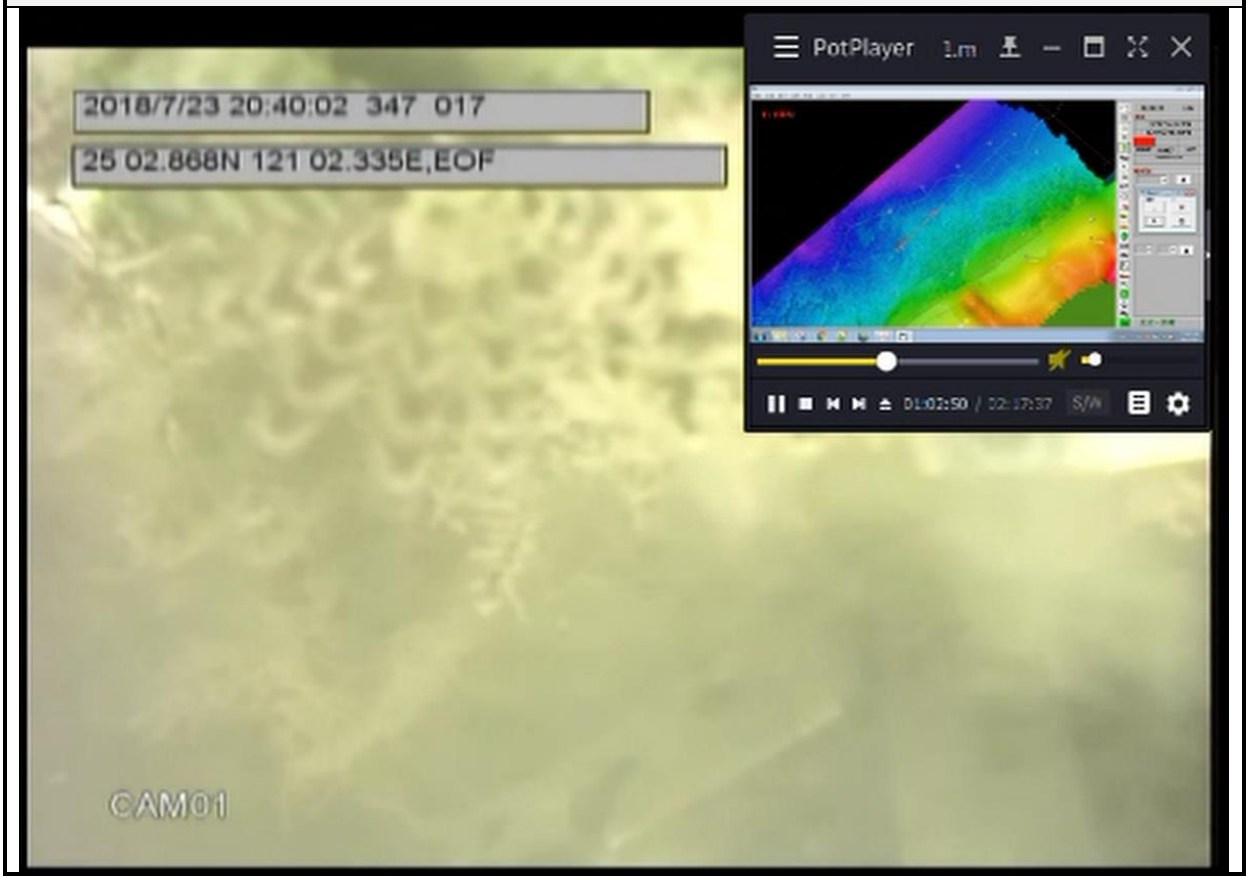


編號	經度	緯度
CPC_1_R053	121-02.335	25-02.868

影像位置

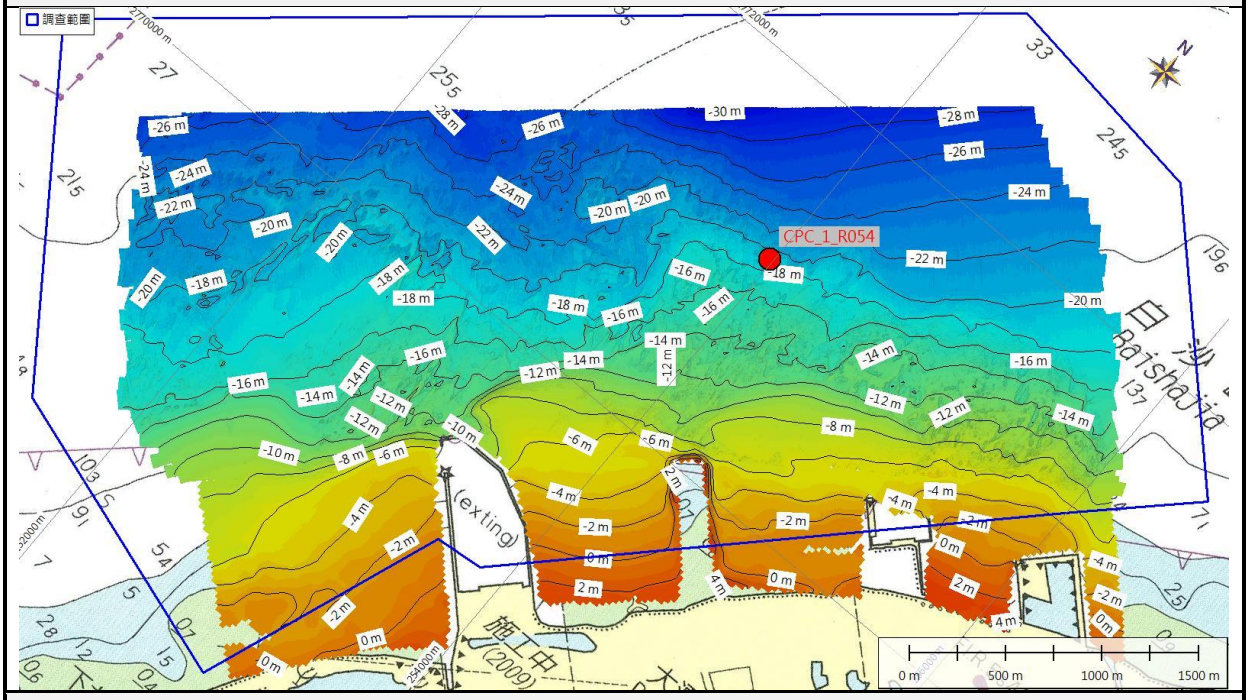


ROV影像

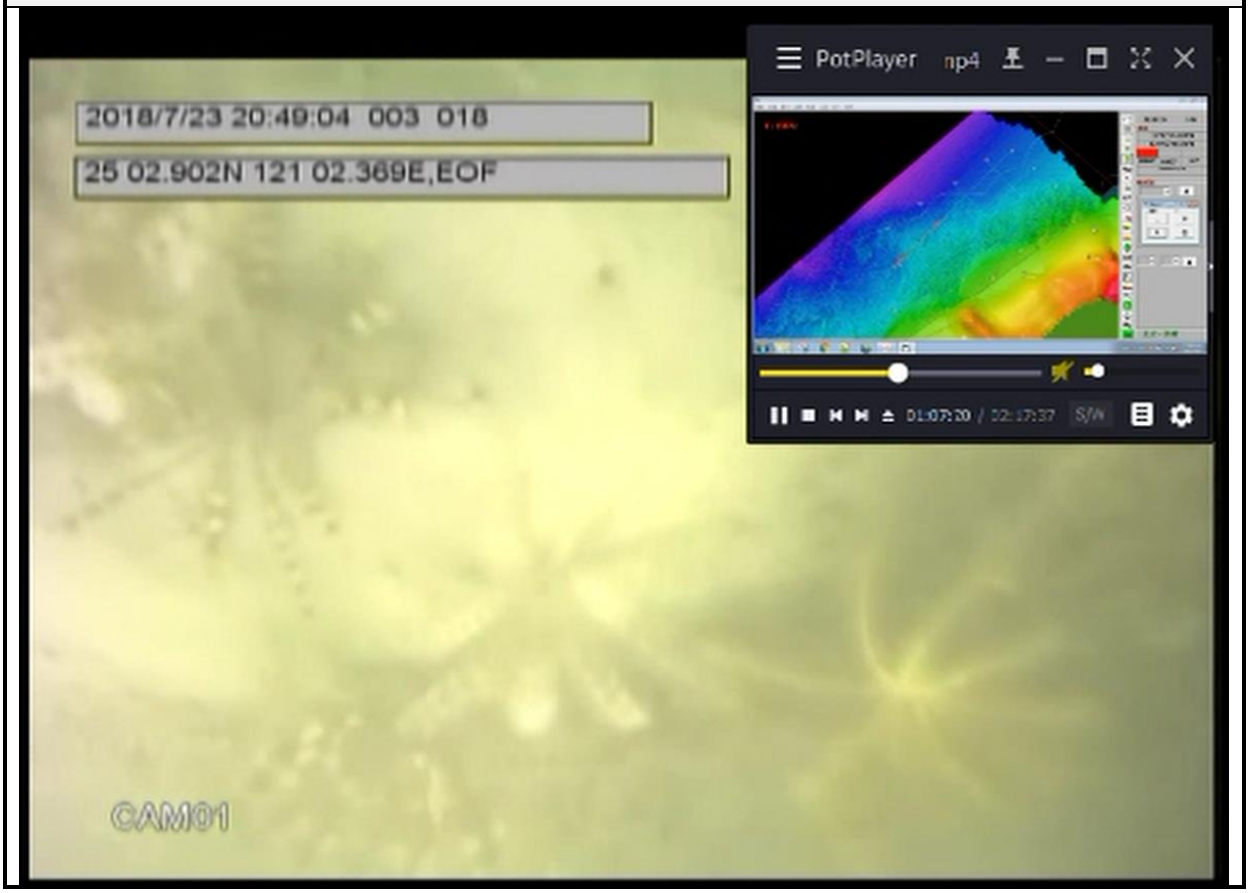


編號	經度	緯度
CPC_1_R054	121-02.369	25-02.902

影像位置

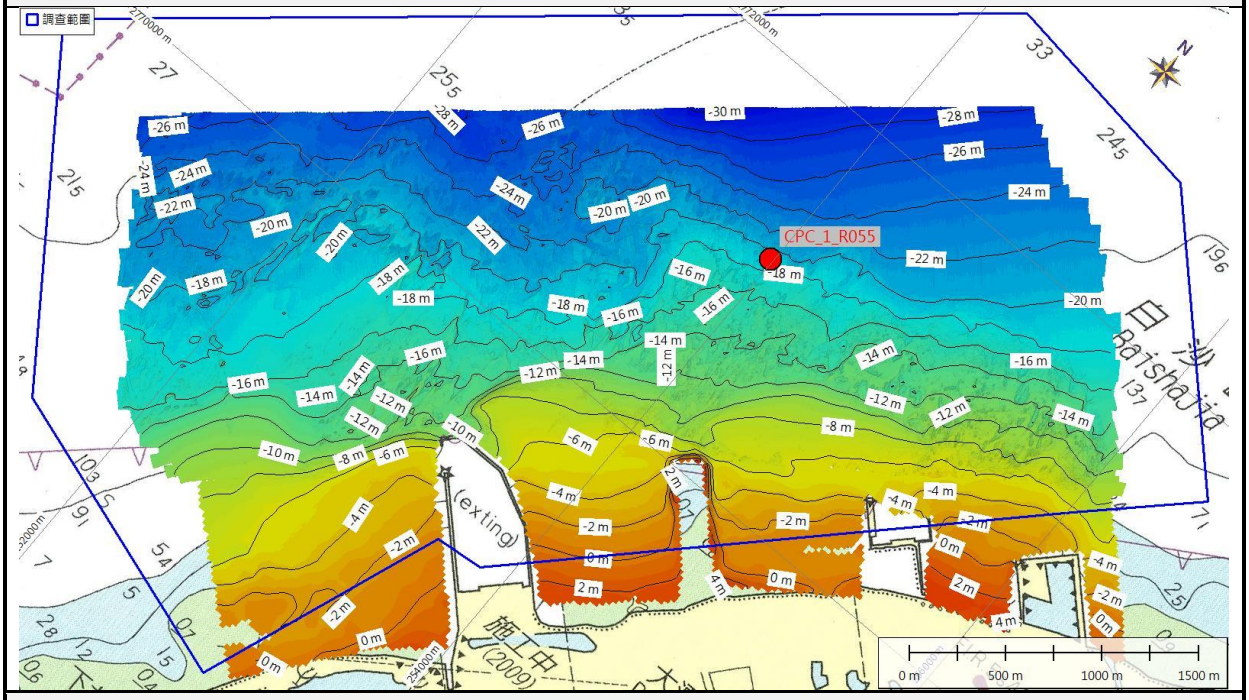


ROV影像

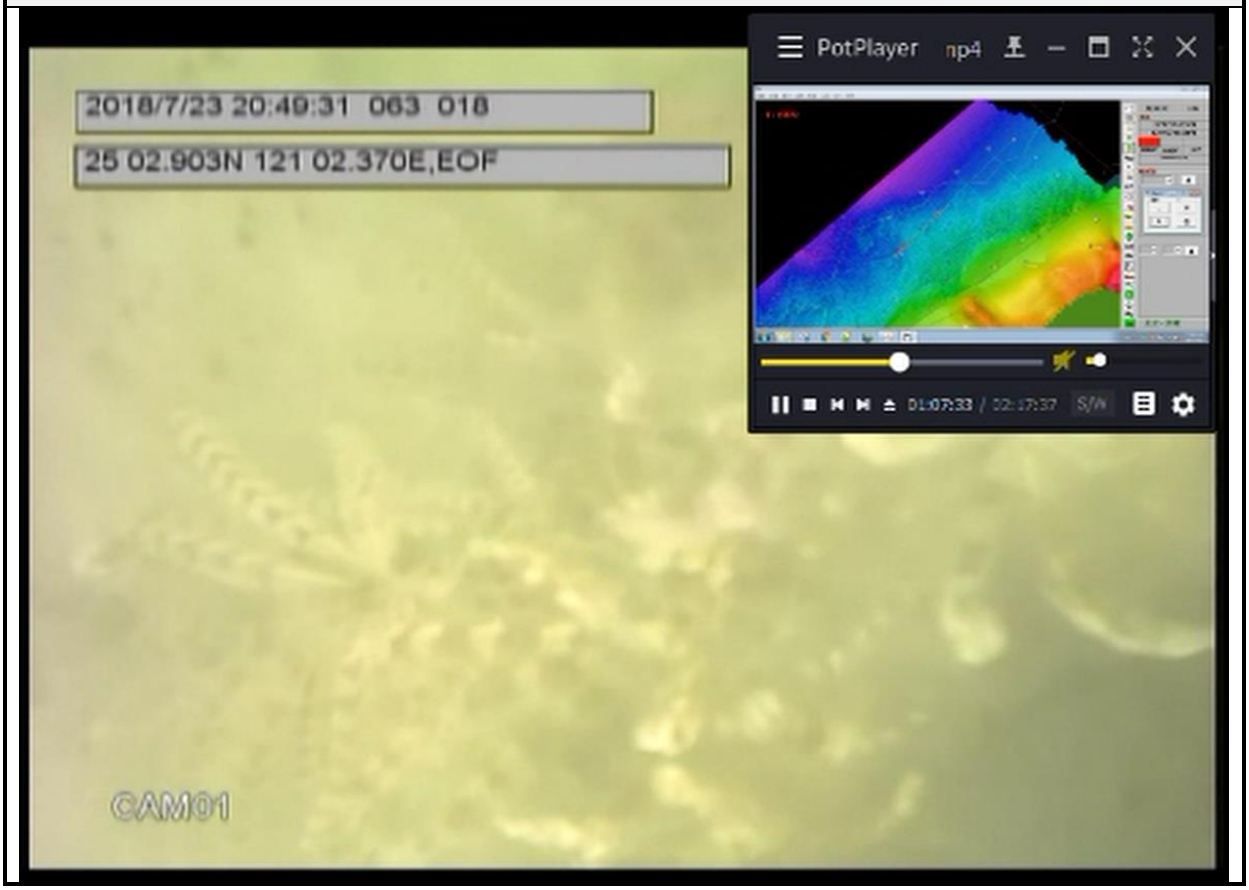


編號	經度	緯度
CPC_1_R055	121-02.370	25-02.903

影像位置

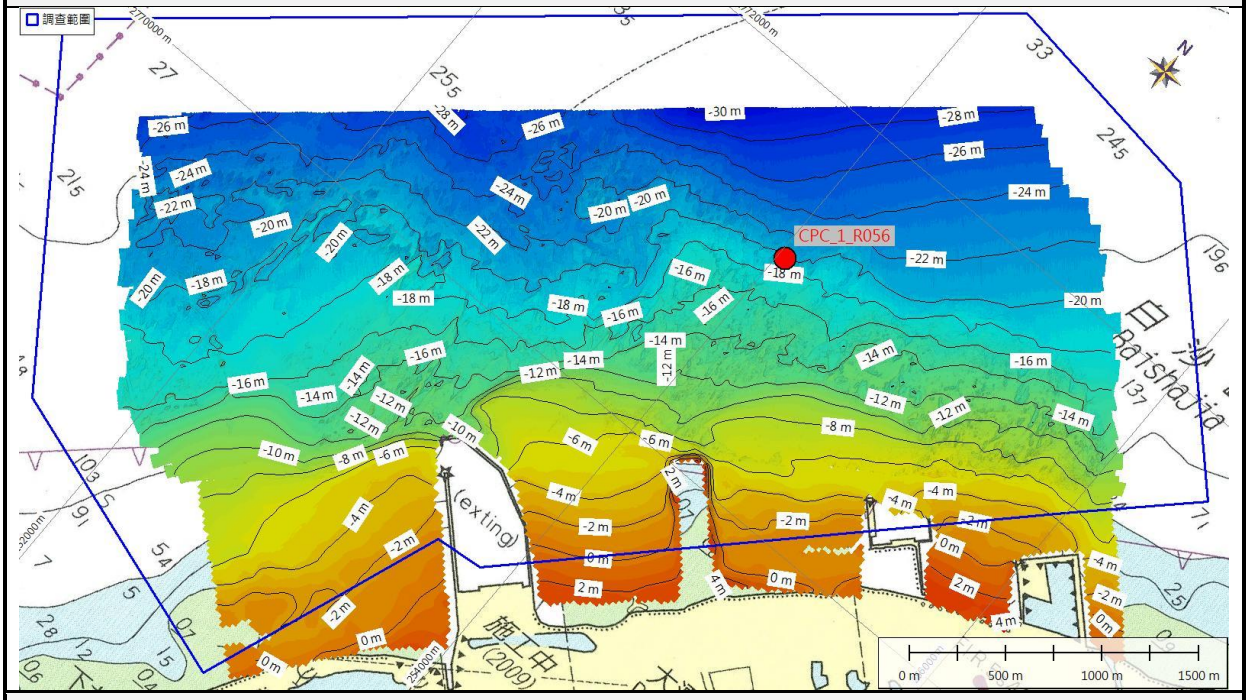


ROV影像

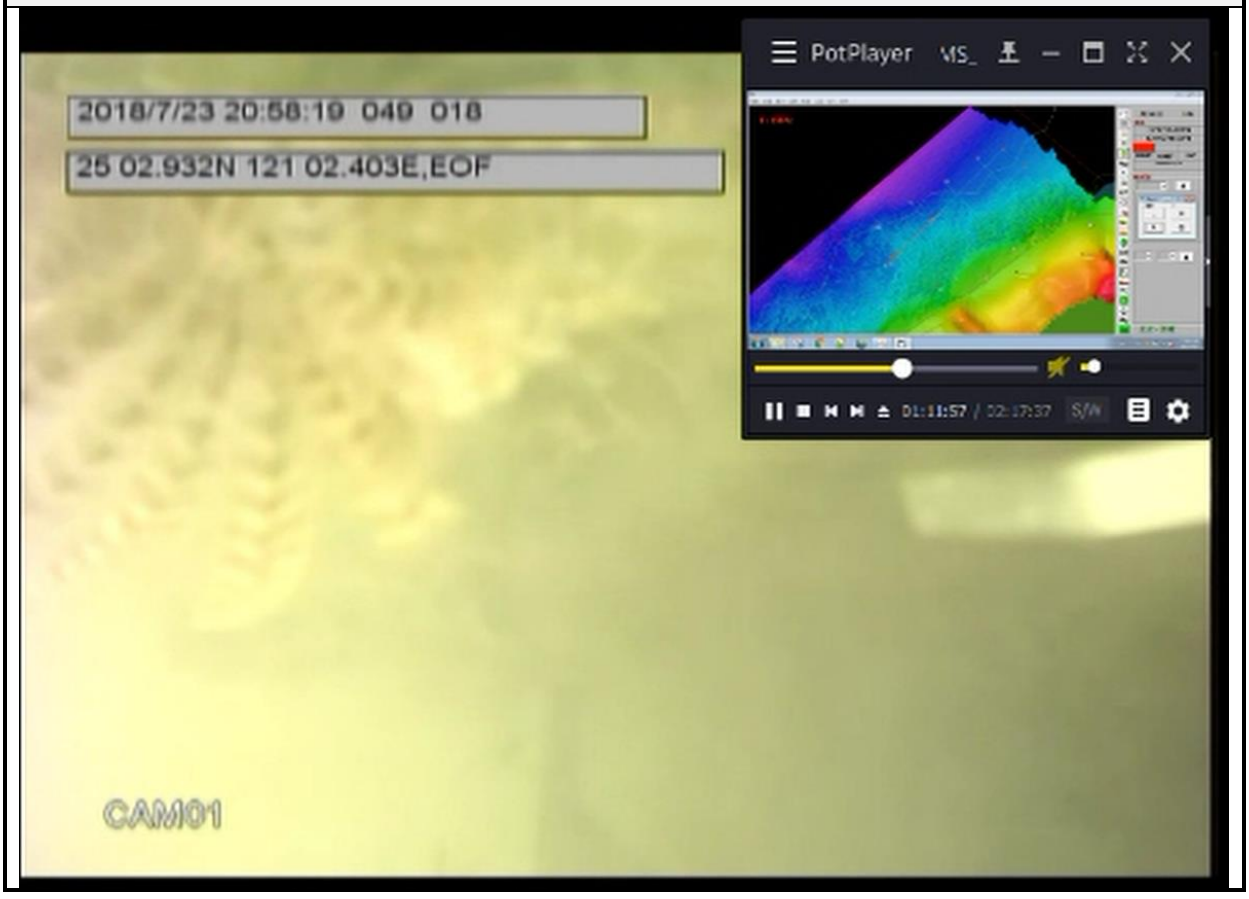


編號	經度	緯度
CPC_1_R056	121-02.403	25-02.932

影像位置

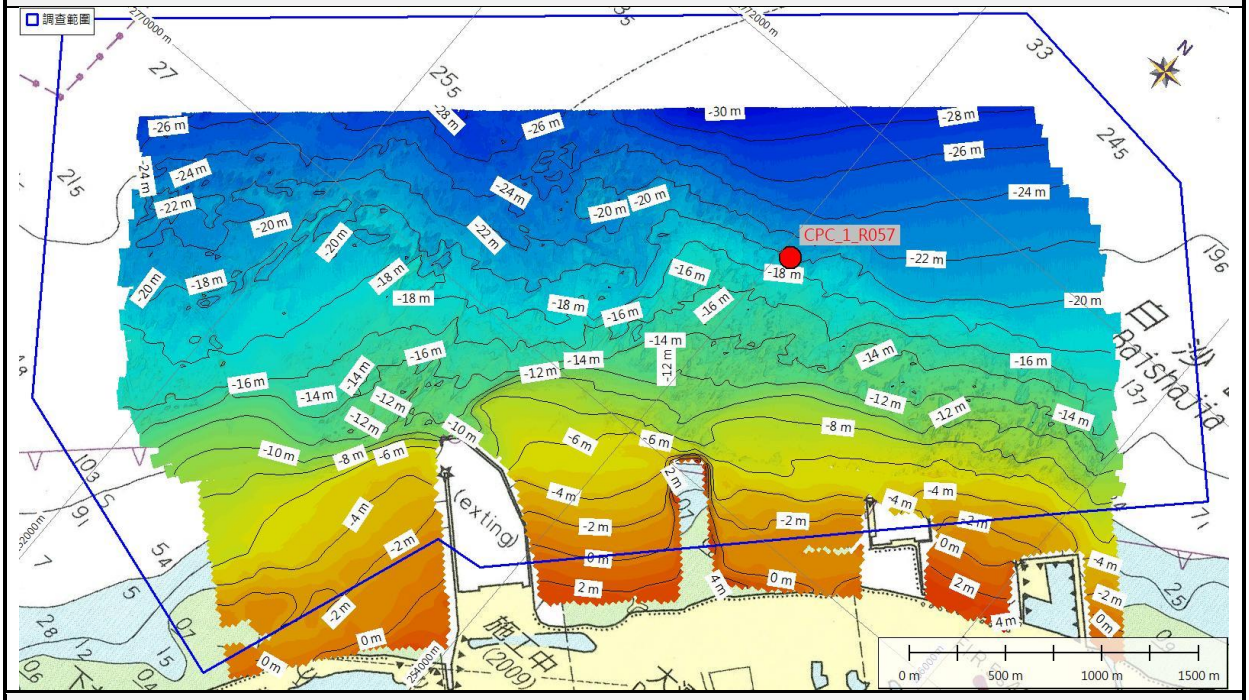
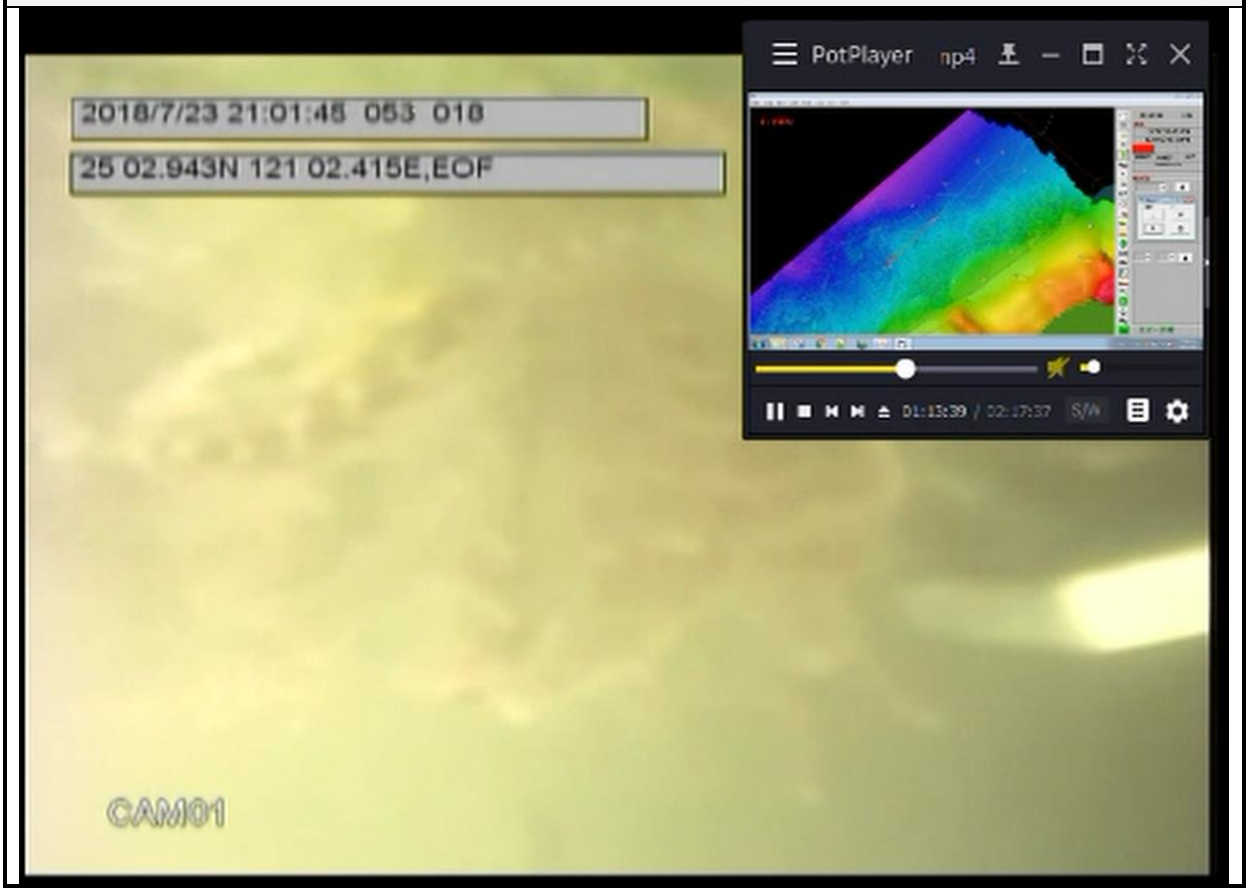


ROV影像



編號	經度	緯度
CPC_1_R057	121-02.415	25-02.943

影像位置



ROV影像