

Station Number	Station Name	Region	Start of Record	End of Record	Statis	Period of Record	Years of Available Data	Years of Missing Data	Number of gap years filled	Regression Correlation Coefficient (R²)	Sample Size	Notes
02YJ001	HARRYS RIVER BELOW HIGHWAY BRIDGE	SW	1968	2019	Active	52	48	4	3	0.57	51	Years missing (1968, 1972, 1994, 2003). Could not extend record with confidence due to R2 value being less than 0.51.
02YJ003	PINCHGUT BROOK AT OUTLET OF PINCHGUT LAKE	SW	1986	1997	Discontinued	12	11	1	0		11	Years missing (1997).
02YN002	LLOYDS RIVER BELOW KING GEORGE IV LAKE	SW	1981	2020	Active	40	40	0	0		40	
02ZK006	RATTLING BROOK BELOW BRIDGE	SE	2007	2020	Active	14	14	0	0		14	
02ZA001	LITTLE BARACHOIS BROOK NEAR ST. GEORGE'S	SW	1978	1997	Discontinued	20	17	3	1	0.95	18	Years missing (1978, 1979, 1997). Added years (1979).
02ZA002	HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY	SW	1981	2019	Active	39	37	2	0		37	Years missing (1982 and 2018)
02ZA003	LITTLE CODROY RIVER NEAR DOYLES	SW	1982	1997	Discontinued	16	14	2	1	0.83	15	Years missing (1983 and 1997). Added years (1983)
02ZB001	ISLE AUX MORTS RIVER BELOW HIGHWAY BRIDGE	SW	1962	2019	Active	58	55	3	2	0.68	57	Years missing (2003, 2018, 2019). Added years (2003 and 2019).
02ZC002	GRANDY BROOK BELOW TOP POND BROOK	SW	1982	2019	Active	38	33	5	0	0.40	33	Years missing (1982, 1983, 1991, 2004, 2016). Could not extend record with confidence due to R2 value below 0.51.
02ZD002	GREY RIVER NEAR GREY RIVER	SW	1969	2019	Active	51	37	14	5	0.88	42	Years missing (1969, 1972 - 1978, 1981, 1982, 1993, 1994, 2008, 2016). Added years (1982, 1993, 1994, 2008, 2016).
02ZE001	SALMON RIVER AT LONG POND	SW	1944	1965	Discontinued	22	16	6	0		16	Years missing (1944-1949).
02ZE004	CONNE RIVER AT OUTLET OF CONNE RIVER POND	SW	1989	2020	Active	32	32	0	0		32	
02ZF001	BAY DU NORD RIVER AT BIG FALLS	SW	1950	2020	Active	71	67	4	1	0.85	68	Years missing (1950, 1979, 1980, 2018). Added years (1979).
02ZG001	GARNISH RIVER NEAR GARNISH	SE	1958	2020	Active	63	54	9	7	0.98	61	Years missing (1958, 1990, 1991, 1994, 1996, 2009, 2011, 2014, 2018). Added years (2014, 2011, 2009, 1996, 1994, 1991, 1990)
02ZG002	TIDES BROOK BELOW FRESHWATER POND	SE	1977	1997	Discontinued	21	18	3	1	0.97	19	Years missing (1979, 1989, 1997). Added years (1979).
02ZG003	SALMONIER RIVER NEAR LAMALINE	SE	1980	2020	Active	41	38	3	2	0.82	40	Years missing (1987, 1989, 2018). Added years (1987, 1989).

Station Number	Station Name	Region	Start of Record	End of Record	Statis	Period of Record	Years of Available Data	Years of Missing Data	Number of gap years filled	Regression Correlation Coefficient (R²)	Sample Size	Notes
022M020	LEARYS BROOK AT PRINCE PHILIP DRIVE	SE	1985	2020	Active	36	33	3	0	0.42	33	Years missing (1985, 1986, 1991). Could not extend record with confidence due to R2 value below 0.51.
022K003	LITTLE BARACHOIS RIVER NEAR PLACENTIA	SW	1983	2019	Active	37	35	2	1	0.70	36	Years missing (1994, 2018). Years added (1994).
022K004	LITTLE SALMONIER RIVER NEAR NORTH HARBOUR	SW	1983	2019	Active	37	36	1	0		36	Years missing (2018).
022G004	RATTLE BROOK NEAR BOAT HARBOUR	SE	1981	2020	Active	40	38	2	2	0.87	40	Years missing (1993, 1996). Years added (1993, 1996).
022H002	COME BY CHANCE RIVER NEAR GOOBIES	SE	1961	2019	Active	59	46	13	4	0.83	50	Missing years (1961-1971, 1984, 2010, 2018). Years added (2010, 1984, 1970, 1961).
022K001	ROCKY RIVER NEAR COLINET	SE	1948	2019	Active	72	67	5	5	0.83	72	Missing years (1949, 1961, 1989, 1994, 2008). Added all missing years.
022K005	TROUT BROOK NEAR BELLEVUE	SE	1986	1997	Discontinued	12	6	6	5	0.88	11	Years missing (1987, 1989, 1990, 1991, 1994, 1997). Years added (all but 1997).
022L003	SPOUT COVE BROOK NEAR SPOUT COVE	SE	1979	1997	Discontinued	19	18	1	0		18	
022L004	SHEARSTOWN BROOK AT SHEARSTOWN	SE	1983	2019	Active	37	35	2	2	0.66	37	Years missing (1994, 1996). Added years (1994, 1996).
022L005	BIG BROOK AT LEAD COVE	SE	1985	2020	Active	36	35	1	1	0.74	36	Years missing (2014). Added years (2014).
022M009	SEAL COVE BROOK NEAR CAPPAHAYDEN	SE	1979	2019	Active	41	40	1	0		40	Years missing (2018)
022M006	NORTHEAST POND RIVER AT NORTHEAST POND	SE	1953	2019	Active	67	50	17	0	0.38	50	Years missing (1953 -1969). Could not extend record with confidence due to R2 value below 0.51.
022K002	NORTHEAST RIVER NEAR PLACENTIA	SE	1979	2019	Active	41	41	4	3	0.79	40	In the 2014 study this station did not pass the statistical tests. Missing years (2002, 2004, 2016, 2018). Added years (2002, 2004, 2016).
022M008	WATERFORD RIVER AT KILBRIDE	SE	1974	2020	Active	47	43	4	3	0.54	46	Years missing (1985, 1988, 1994, 2018). Added years (1985, 1988, 1994).
022M010	WATERFORD RIVER AT MOUNT PEARL	SE	1981	1996	Discontinued	16	15	1	0		15	Years missing (1996).
022M016	SOUTH RIVER NEAR HOLYROOD	SE	1983	2019	Active	37	36	1	0		36	Years missing (2018).
022M017	LEARY BROOK AT ST. JOHN'S	SE	1983	1998	Discontinued	16	15	1	1	0.51	16	Years missing (1998).

Station Number	Station Name	Region	Start of Record	End of Record	Statis	Period of Record	Years of Available Data	Years of Missing Data	Number of gap years filled	Regression Correlation Coefficient (R²)	Sample Size	Notes
02ZM018	VIRGINIA RIVER AT PLEASANTVILLE	SE	1984	2020	Active	37	33	4	3	0.40	36	Years missing (1994, 1998, 2014, 2018). Added years (1994, 1998, 2014).
02ZM019	VIRGINIA RIVER AT CARTWRIGHT PLACE	SE	1985	1998	Discontinued	14	14	0	0		14	
02ZM021	SOUTH BROOK AT PEARL TOWN ROAD	SE	1986	1998	Discontinued	13	13	0	0		13	
02YK002	LEWASEECHJEECH BROOK AT LITTLE GRAND LAKE	SW	1952	2020	Active	69	56	13	2	0.99	58	Years missing (1952, 1953, 1955, 1967-1972, 1980, 1981, 1986, 2008). Added years (1980, 1986).
02ZN001	NORTHWEST BROOK AT NORTHWEST POND	SE	1966	1996	Discontinued	31	28	3	2	0.60	30	Years missing (1971, 1986, 1996). Added years (1971, 1986).
02ZN002	ST. SHOTTS RIVER NEAR TREPASSEY	SE	1985	2019	Active	35	23	12	11	0.91	34	Years missing (1989 -1991, 1994, 1996, 2000, 2006, 2008, 2009, 2011, 2012, 2017). Added years all but 2017.

St. Johns – Maximum Annual Precipitation (mm)

Year	5 min	10 min	15 min	30 min	1 hr	2 hr	6 hr	12 hr	24 hr
1949	8.9	8.9	10.2	17.5	28.2	52.6	61.7	62.0	63.5
1961	3.0	4.3	5.3	6.9	8.6	13.5	25.7	35.6	38.6
1962	2.8	4.6	4.6	8.1	13.0	20.6	33.8	54.9	59.7
1963	10.2	11.2	11.7	13.7	18.5	23.6	40.9	52.3	57.9
1964	4.3	6.9	7.9	11.2	19.3	28.2	54.9	72.6	77.5
1965	5.3	7.4	9.9	13.0	17.8	19.6	32.3	51.8	59.7
1966	8.4	13.2	17.0	25.4	29.7	43.7	48.5	64.5	85.3
1967	2.3	3.8	5.3	9.9	10.9	16.3	29.5	44.4	58.4
1968	6.3	12.7	13.7	14.7	17.5	22.4	41.9	55.1	61.7
1969	5.6	7.1	8.4	8.6	11.7	19.0	30.7	34.5	48.3
1970	5.6	7.1	10.7	15.2	16.3	19.6	42.4	62.5	87.4
1971	6.3	10.4	14.5	16.0	19.0	22.1	34.3	41.1	77.7
1972	4.8	5.3	6.6	10.9	15.0	20.6	47.8	72.6	89.2
1973	5.3	6.9	7.9	10.4	16.5	30.0	49.5	65.8	67.1
1974	3.6	5.6	6.3	9.9	16.3	22.4	42.4	53.3	72.9
1975	8.1	10.4	12.2	17.8	19.0	19.6	46.5	71.9	82.3
1976	3.6	4.8	6.1	8.4	12.7	19.0	33.8	42.2	53.6
1977	3.8	5.6	7.6	11.7	17.5	23.4	38.6	40.4	41.4
1978	4.0	5.9	7.4	7.6	12.9	13.1	27.1	37.6	43.0
1979	3.2	4.2	5.9	10.2	16.2	18.1	29.3	41.9	49.2
1980	3.2	6.1	7.4	12.2	17.4	23.9	33.6	41.6	69.8
1981					15.0	22.4	46.7	72.5	82.6
1982	5.1	9.0	12.9	17.1	24.5	35.9	80.3	82.4	84.0
1983	1.6	3.2	4.8	9.6	19.2	26.5	47.3	52.8	54.7
1984	5.0	9.9	13.0	21.5	27.1	36.6	61.0	74.0	75.3
1985	5.2	7.1	9.8	11.3	14.1	18.5	36.0	54.9	82.9
1986	3.1	4.8	7.2	14.3	23.3	27.9	40.2	58.9	70.6
1987	5.1	7.3	8.6	16.2	23.5	24.2	30.6	36.6	46.8
1988	6.6	10.6	13.2	17.4	23.4	25.9	44.8	45.8	49.0
1989	2.9	4.5	6.2	8.0	10.9	19.7	43.4	51.6	51.6
1990	3.7	5.9	6.5	12.6	19.2	28.5	48.1	68.7	85.2
1991	7.8	11.4	15.9	23.3	28.8	29.5	51.2	52.2	59.7
1993	4.4	7.0	7.6	11.5	20.0	31.3	47.6	49.4	55.3
1994	6.2	9.1	10.3	12.6	12.8	14.9			67.5

1995	5.2	9.8	14.5	16.6	27.6	46.7	55.9	58.8	61.6
1996	4.8	6.2	7.4	10.2	15.4	27.2	40.2	44.0	48.4
1999	3.2	5.0	6.6	9.0	15.3	25.1	42.4	63.4	99.3
2000	3.8	6.7	8.6	13.0	21.5	29.9	43.4	58.9	70.5
2001	4.8	8.8	11.5	19.5	33.7	62.0	107.1	147.7	149.6
2003	5.5	8.6	11.3	19.3	32.4	42.2	50.4	76.1	92.4
2004	3.9	7.4	10.6	17.2	23.6	26.1	59.0	71.5	76.6
2005	5.0	7.1	8.4	13.1	21.2	28.6	65.4	82.3	98.9
2006	4.8	8.1	11.1	17.5	30.4	36.4	51.9	53.7	58.5
2007	6.3	10.3	14.6	27.2	41.1	48.1	79.2	104.2	104.9
2009	5.0	6.6	7.4	10.6	16.9	24.7	46.7	58.2	65.0
2010	4.1	7.5	10.2	14.2	21.2	36.2	62.7	75.0	113.8
2011	3.2	4.8	7.3	12.0	15.7	20.6	33.3	38.1	54.9
2013	4.4	6.6	8.5	11.3	15.9	27.2	46.3	56.1	76.3
2014			9.8	15.7	20.6	39.4	49.6	50.1	61.2
2015			6.2	7.7	9.6	14.3	25.9	39.4	66.6
2016			7.6	9.4	13.2	20.4	34.2	51.0	54.5
2017			9.9	13.5	17.5	24.1	33.0	35.2	46.9
2018			10.6	20.9	29.3	43.8	50.9	60.8	74.0
2019			5.1	7.5	12.1	19.1	32.4	40.0	64.7
2020			6.4	11.3	14.1	27.9	51.7	56.5	60.1
2021			17.9	30.1	31.3	36.2	48.4	55.5	57.1

Rubylane – Maximum Annual Precipitation (mm)

Year	5 min	10 min	15 min	30 min	1 hr	2 hr	6 hr	12 hr	24 hr
1997	4.7	4.9	6.2	8.0	12.2	21.9	46.1	61.4	68.3
1998	3.6	5.8	6.8	11.9	21.3	33.0	56.0	76.0	95.8
1999	4.0	5.8	6.7	9.4	15.3	25.4	37.1	55.4	83.2
2000	3.5	5.5	7.8	14.2	20.3	30.8	48.1	62.0	73.1
2001	5.1	8.6	11.0	18.6	32.6	55.5	95.9	133.1	135.9
2002	3.5	6.7	9.5	13.2	16.1	26.4	44.0	45.0	46.3
2004	4.1	7.4	9.6	13.1	22.5	22.6	43.8	55.2	58.7
2005	3.7	7.2	10.5	14.4	22.2	35.2	43.0	62.9	77.4
2006	2.8	5.1	6.4	8.6	12.2	19.0	36.3	42.5	53.5
2007	7.2	11.1	15.1	27.1	41.7	56.4	76.4	91.0	91.9
2008	5.0	8.0	8.3	11.4	15.6	23.2	45.9	57.8	63.1
2009	4.3	5.9	7.8	10.3	16.0	26.5	49.6	74.6	75.1
2010	5.7	7.2	8.4	11.4	21.4	34.9	56.3	65.3	111.2
2011	4.3	6.4	6.8	10.2	14.6	23.8	37.4	44.9	72.0
2013	3.6	7.0	8.4	10.3	12.8	21.9	37.1	47.7	55.5
2014	4.2	6.5	8.7	12.5	21.0	36.3	45.9	51.2	64.0
2015			6.2	7.7	9.6	14.3	25.9	39.4	66.6
2016			7.6	9.4	13.2	20.4	34.2	51.0	54.5
2017			9.9	13.5	17.5	24.1	33.0	35.2	46.9
2018			10.6	20.9	29.3	43.8	50.9	60.8	74.0
2019			5.1	7.5	12.1	19.1	32.4	40.0	64.7
2020			6.4	11.3	14.1	27.9	51.7	56.5	60.1
2021			17.9	30.1	31.3	36.2	48.4	55.5	57.1

Rubylne – IDF Curve

Duration (Minutes)	Return Period (Years)						
	2	5	10	20	25	50	100
5	50.4	61.2	68.4	74.4	78.0	85.2	91.2
10	39.6	47.4	52.8	57.0	59.4	64.8	69.6
15	33.1	43.6	50.5	57.1	59.2	65.6	72.0
30	24.6	34.9	41.7	48.3	50.4	56.7	63.1
60	18.0	25.0	29.7	34.1	35.5	39.9	44.2
120	13.9	18.7	21.9	24.9	25.9	28.9	31.8
360	7.4	9.6	11.0	12.4	12.9	14.3	15.6
720	4.7	6.2	7.2	8.2	8.5	9.4	10.3
1440	2.8	3.6	4.1	4.6	4.8	5.3	5.7

Rubylne – IDF Curve CLC

Duration (Minutes)	Return Period (Years)						
	2	5	10	20	25	50	100
5	73.2	97.2	112.8	126.4	133.2	148.8	163.2
10	54.6	71.4	82.8	92.4	97.2	108.0	118.8
15	46.0	60.4	70.0	78.3	82.4	91.2	100.4
30	33.4	43.6	50.4	56.1	59.0	65.4	71.8
60	24.1	31.5	36.5	40.6	42.7	47.4	52.0
120	16.7	21.9	25.4	28.3	29.7	33.0	36.2
360	9.2	11.7	13.4	14.8	15.5	17.1	18.7
720	5.8	7.4	8.5	9.4	9.8	10.8	11.8
1440	3.5	4.4	5.0	5.6	5.8	6.4	7.0

St. Johns – IDF Curve

Duration (Minutes)	Return Period (Years)						
	2	5	10	20	25	50	100
5	55.2	73.2	86.4	96.8	102.0	112.8	124.8
10	42.0	54.6	63.0	70.2	73.8	81.6	89.4
15	35.5	47.2	54.8	62.0	64.4	71.6	78.8
30	26.2	35.2	41.4	47.2	49.0	54.8	60.4
60	18.5	24.6	28.7	32.6	33.8	37.6	41.4
120	12.9	17.4	20.4	23.3	24.2	27.0	29.8
360	7.2	9.4	10.8	12.2	12.6	14.0	15.3
720	4.6	6.0	6.9	7.8	8.1	8.9	9.8
1440	2.8	3.5	4.0	4.4	4.6	5.0	5.5

1.0 EXTREME WATER LEVELS

1.1 Trinity Bay Total Water Levels (Hants Harbour, Winterton and Heart’s Delight-Islington)

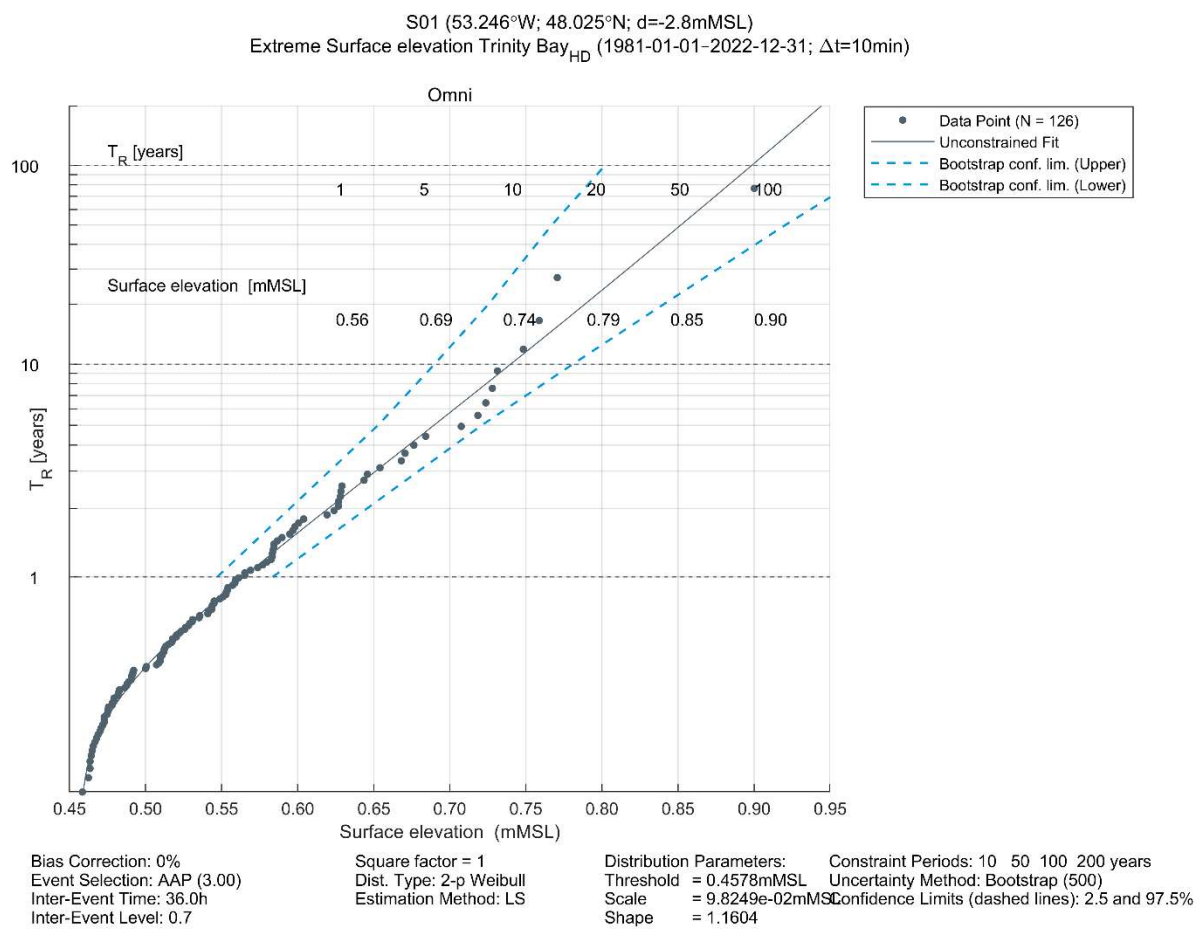


Figure 1: Total water level (m, CGVD2013) EVA at Station 01, Trinity Bay - Hants Harbour

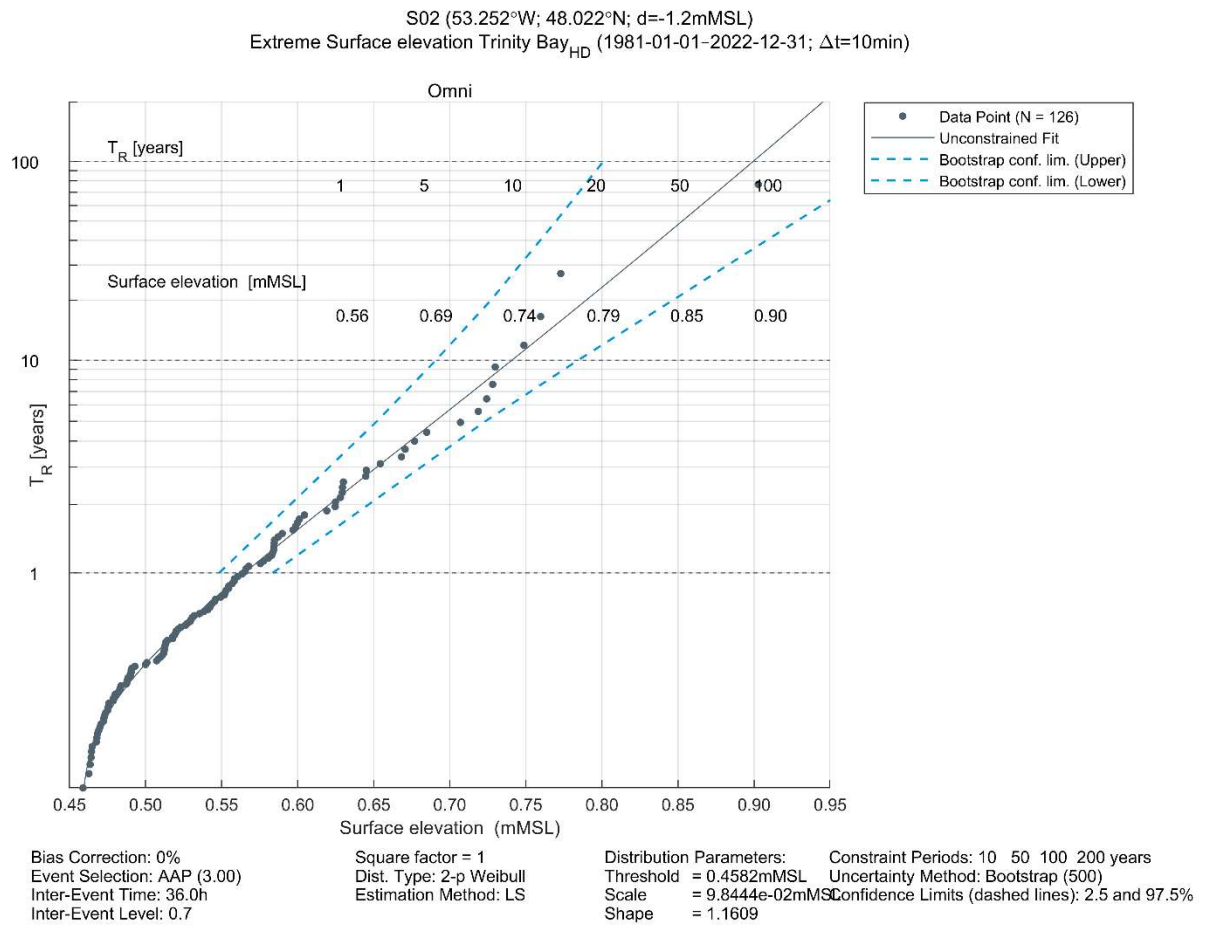


Figure 2: Total water level (m, CGVD2013) EVA at Station 02, Trinity Bay - Hants Harbour

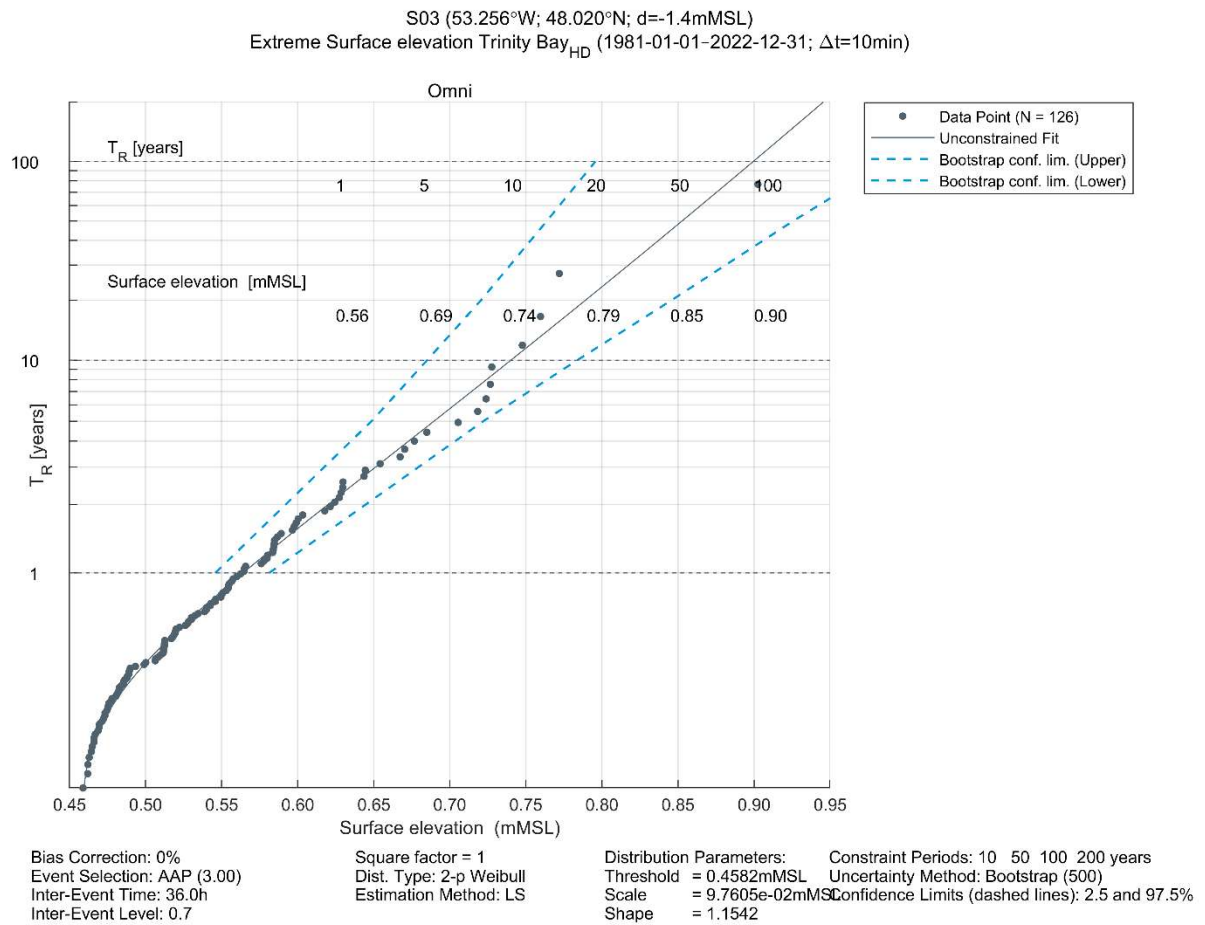


Figure 3: Total water level (m, CGVD2013) EVA at Station 03, Trinity Bay - Hants Harbour

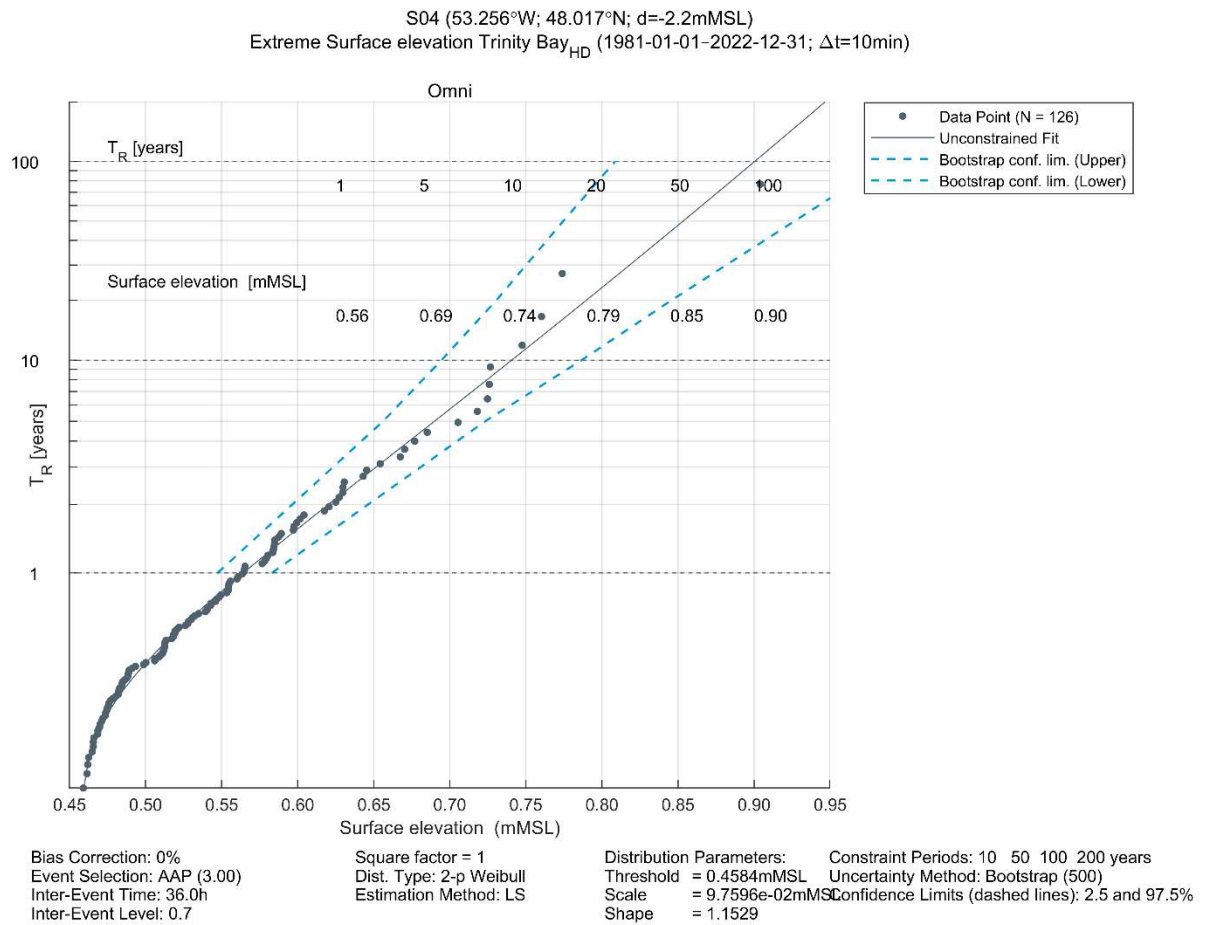


Figure 4: Total water level (m, CGVD2013) EVA at Station 04, Trinity Bay - Hants Harbour

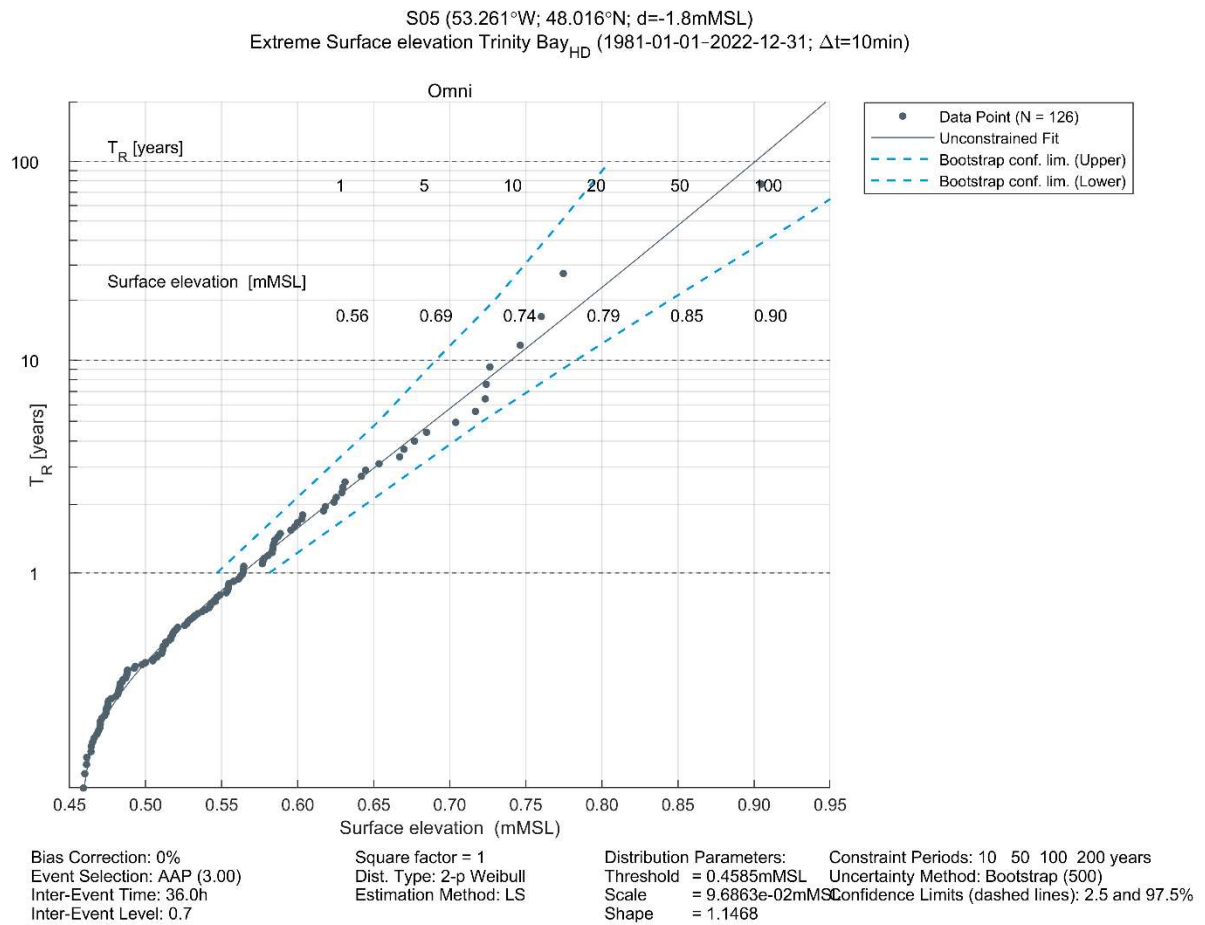


Figure 5: Total water level (m, CGVD2013) EVA at Station 05, Trinity Bay - Hants Harbour

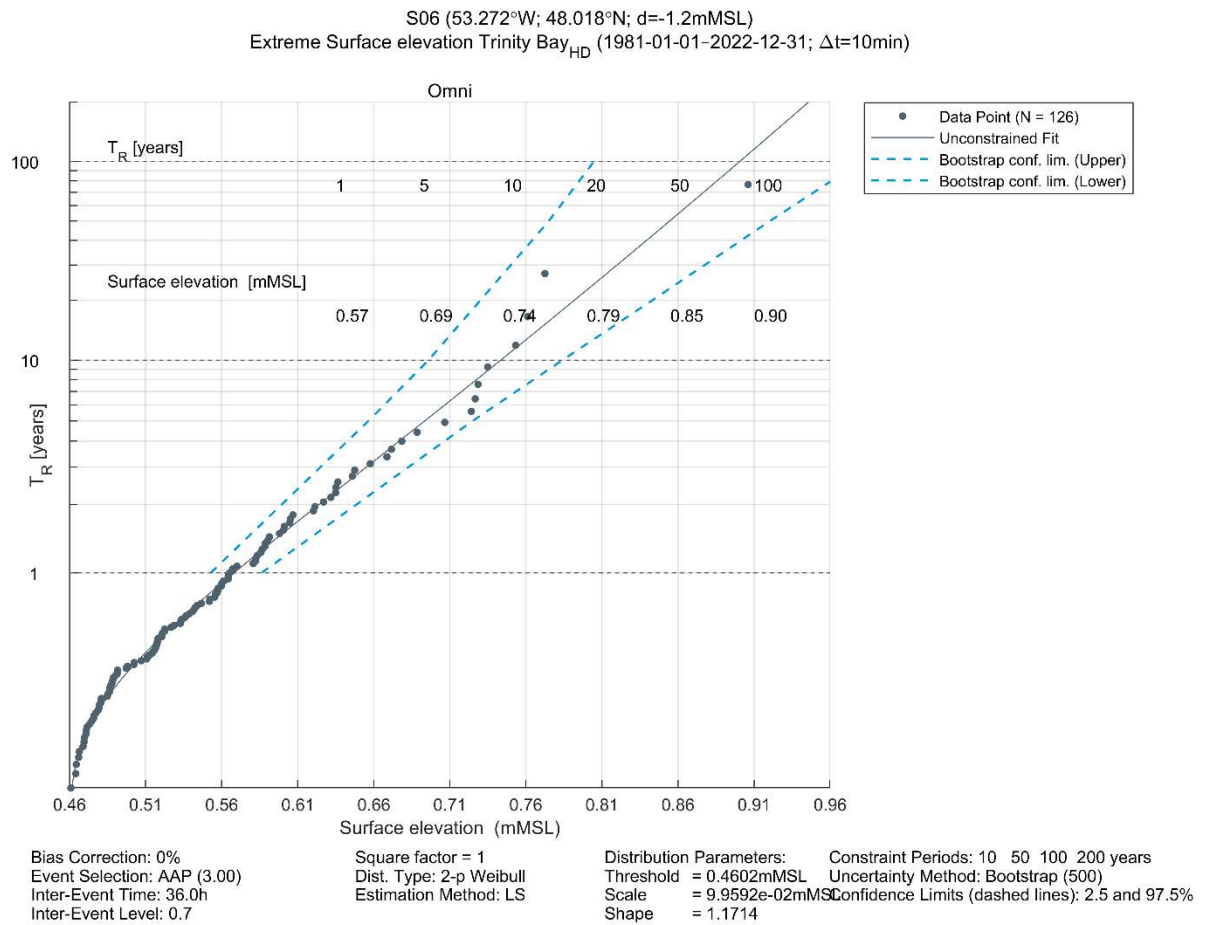


Figure 6: Total water level (m, CGVD2013) EVA at Station 06, Trinity Bay - Hants Harbour

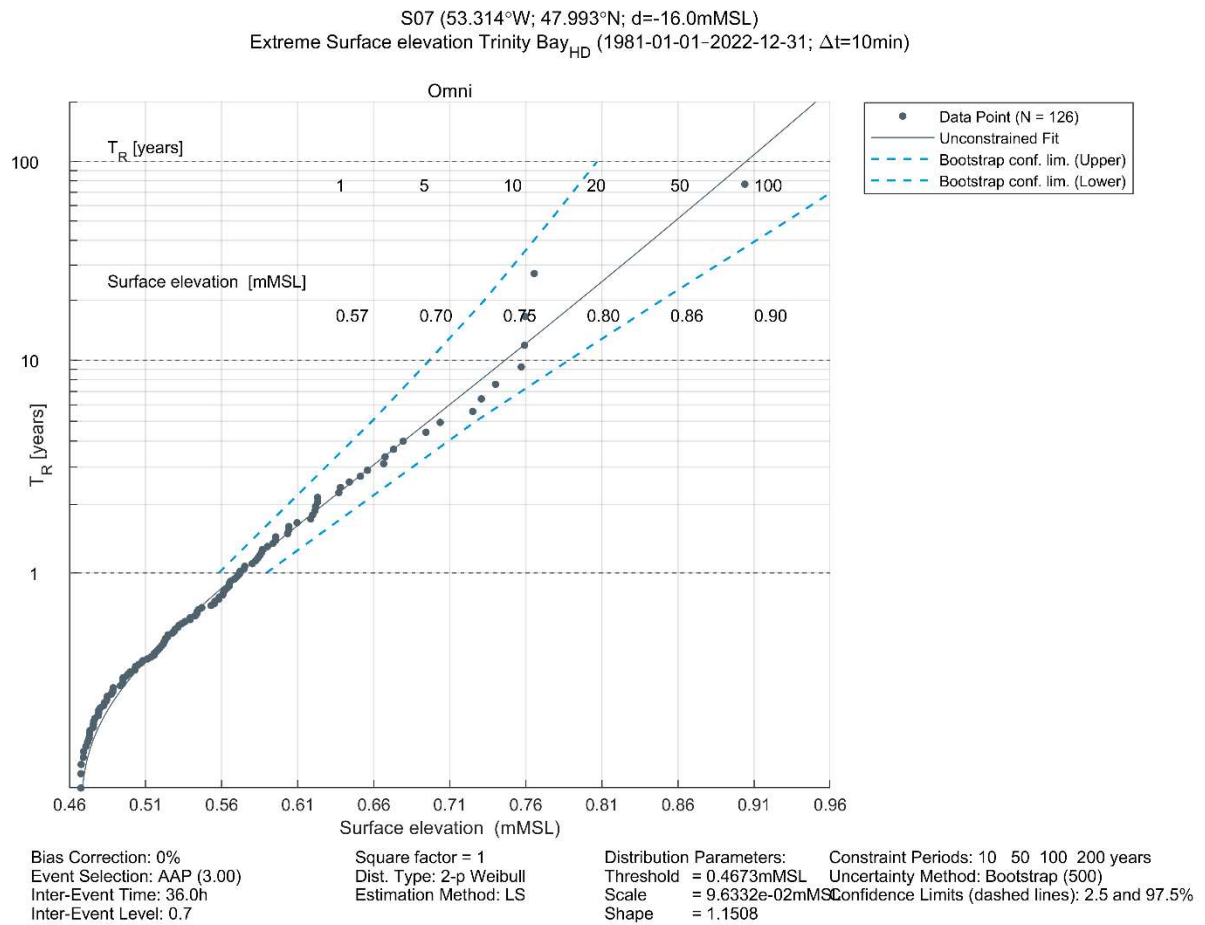


Figure 7: Total water level (m, CGVD2013) EVA at Station 07, Trinity Bay - Winterton

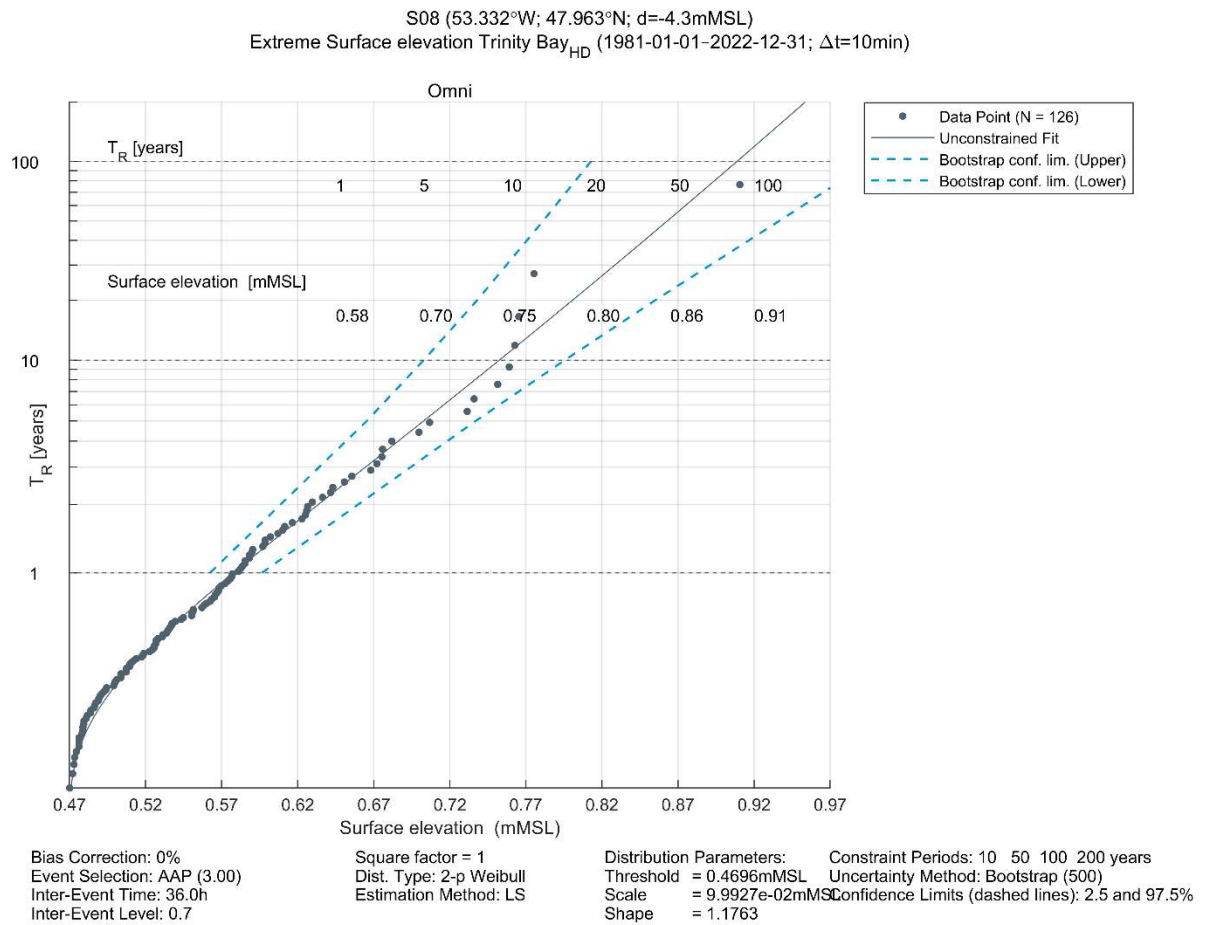


Figure 8: Total water level (m, CGVD2013) EVA at Station 08, Trinity Bay - Winterton

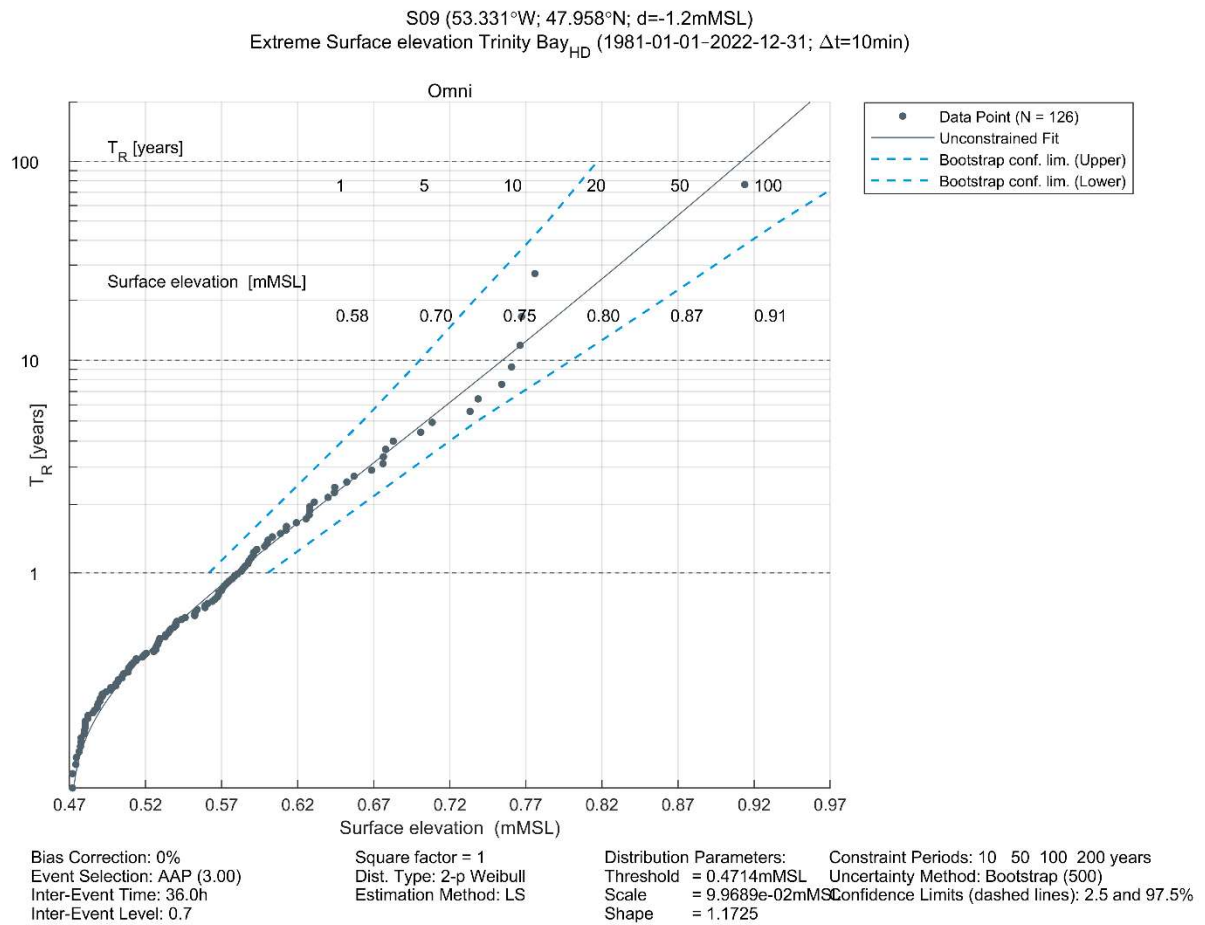


Figure 9: Total water level (m, CGVD2013) EVA at Station 09, Trinity Bay – Winterton

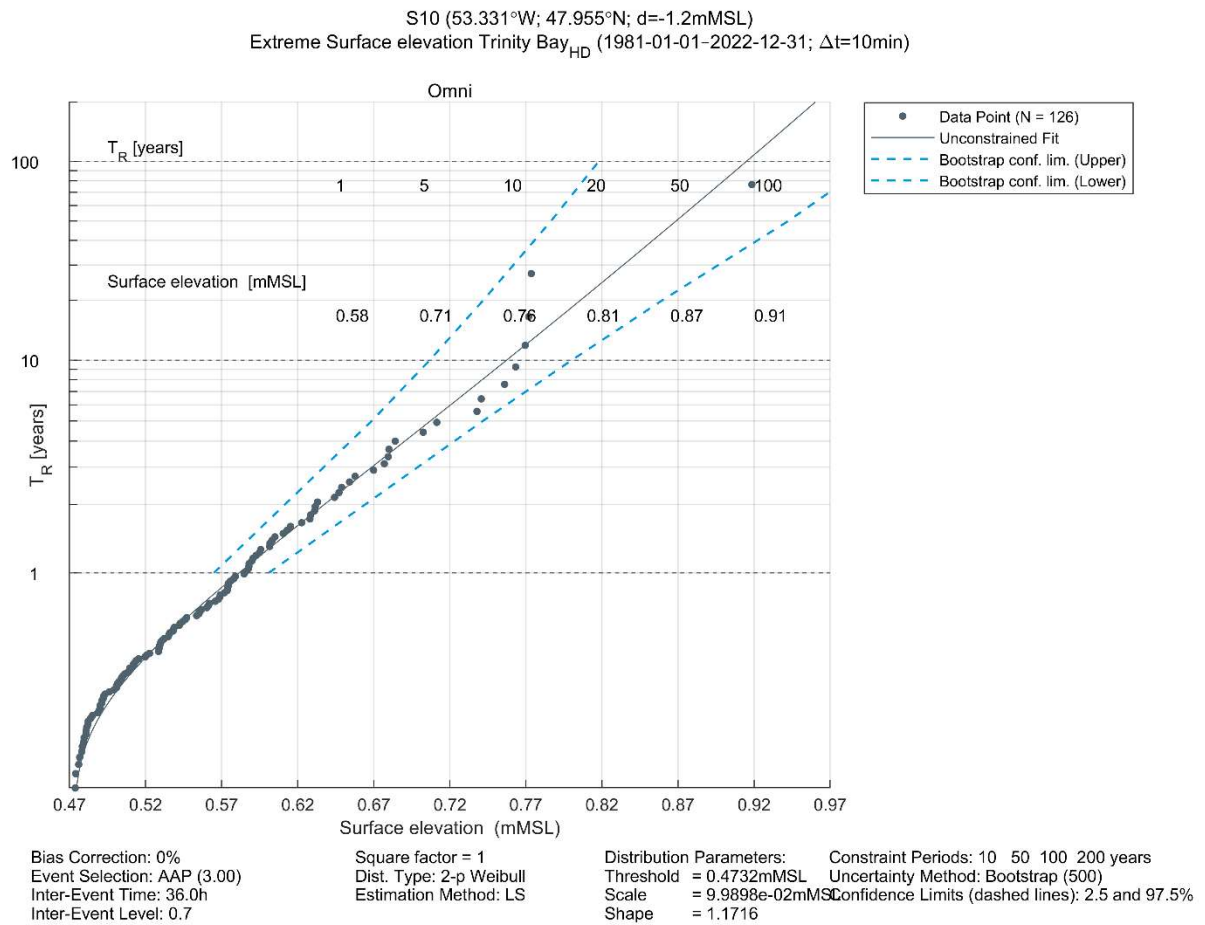


Figure 10: Total water level (m, CGVD2013) EVA at Station 10, Trinity Bay - Winterton

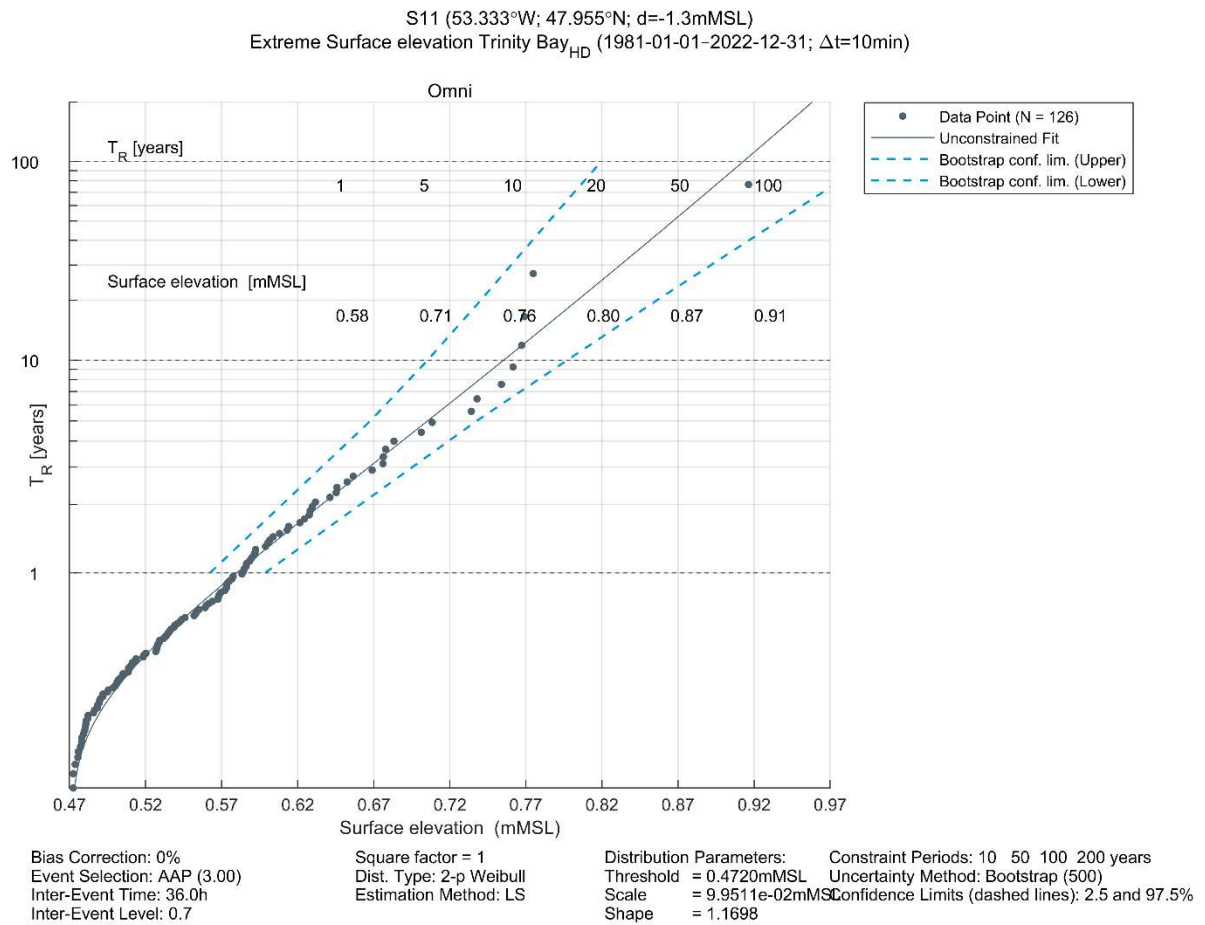


Figure 11: Total water level (m, CGVD2013) EVA at Station 11, Trinity Bay - Winterton

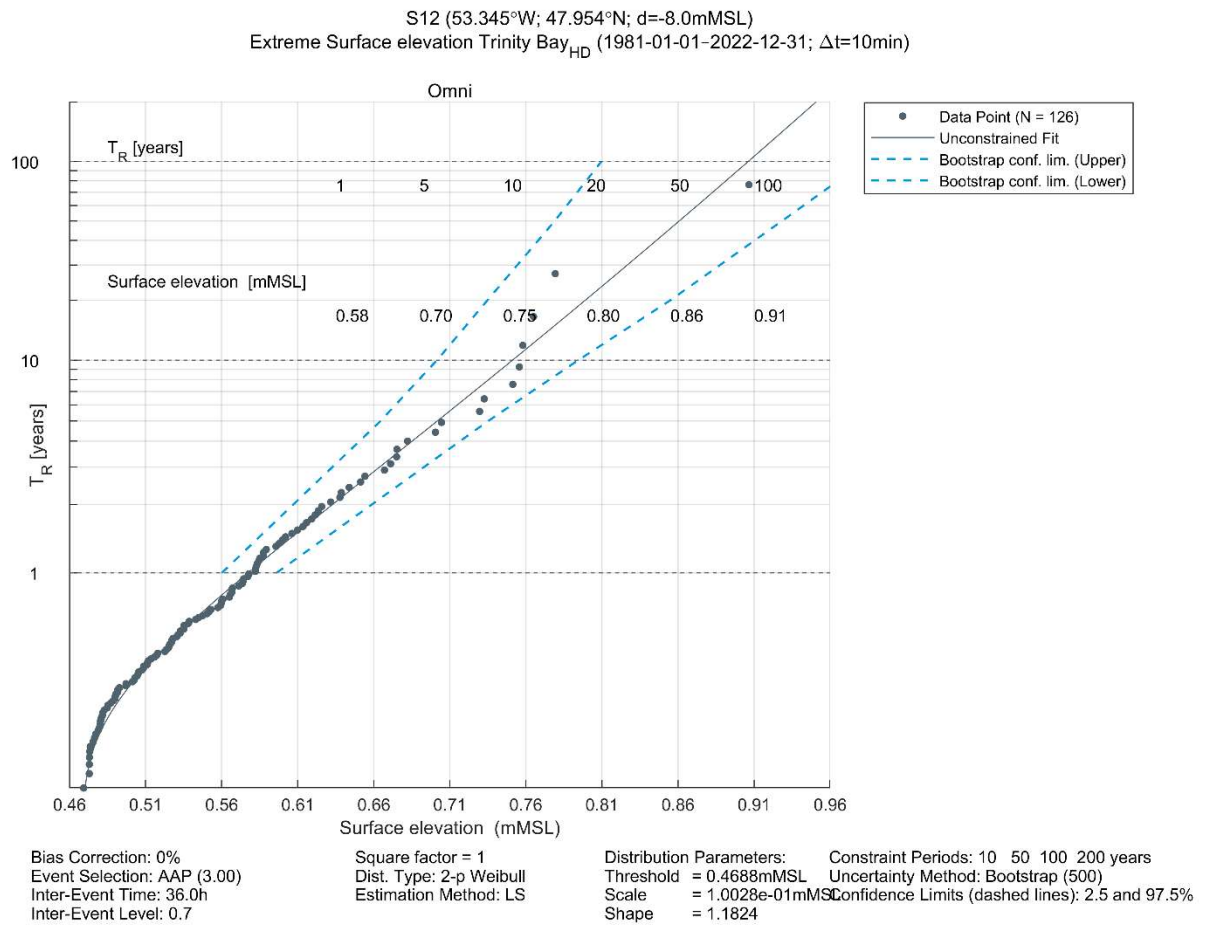


Figure 12: Total water level (m, CGVD2013) EVA at Station 12, Trinity Bay - Winterton

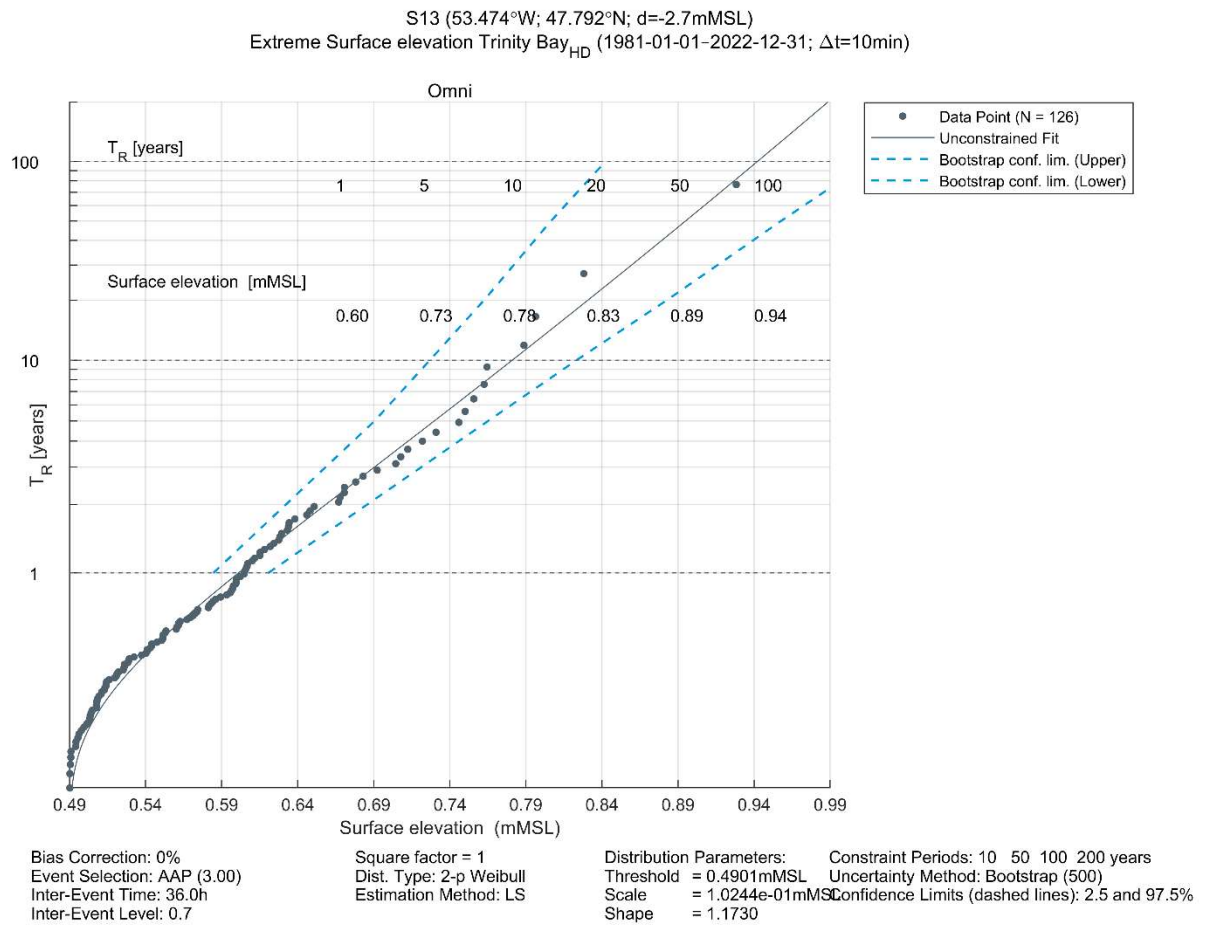


Figure 13: Total water level (m, CGVD2013) EVA at Station 13, Trinity Bay – Heart's Delight-Islington

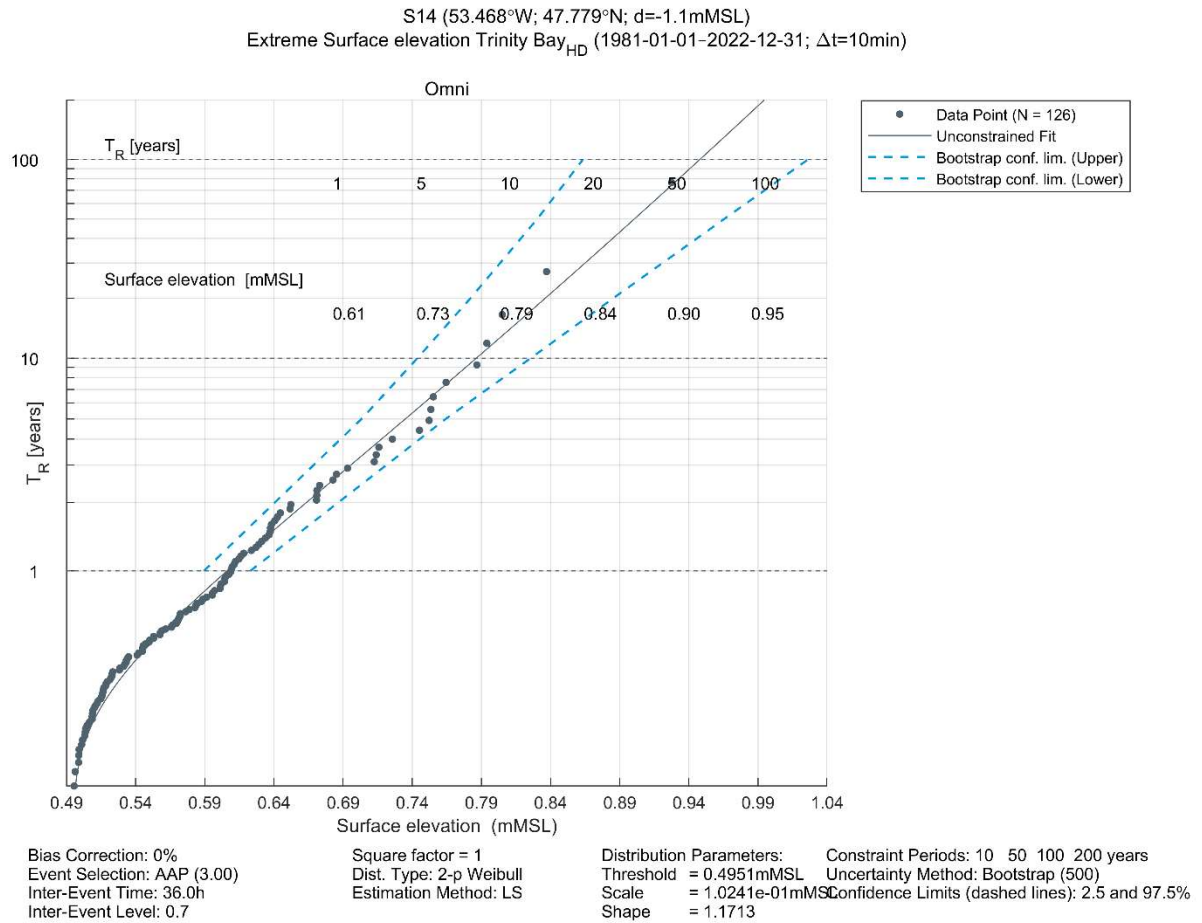


Figure 14: Total water level (m, CGVD2013) EVA at Station 14, Trinity Bay – Heart's Delight-Islington

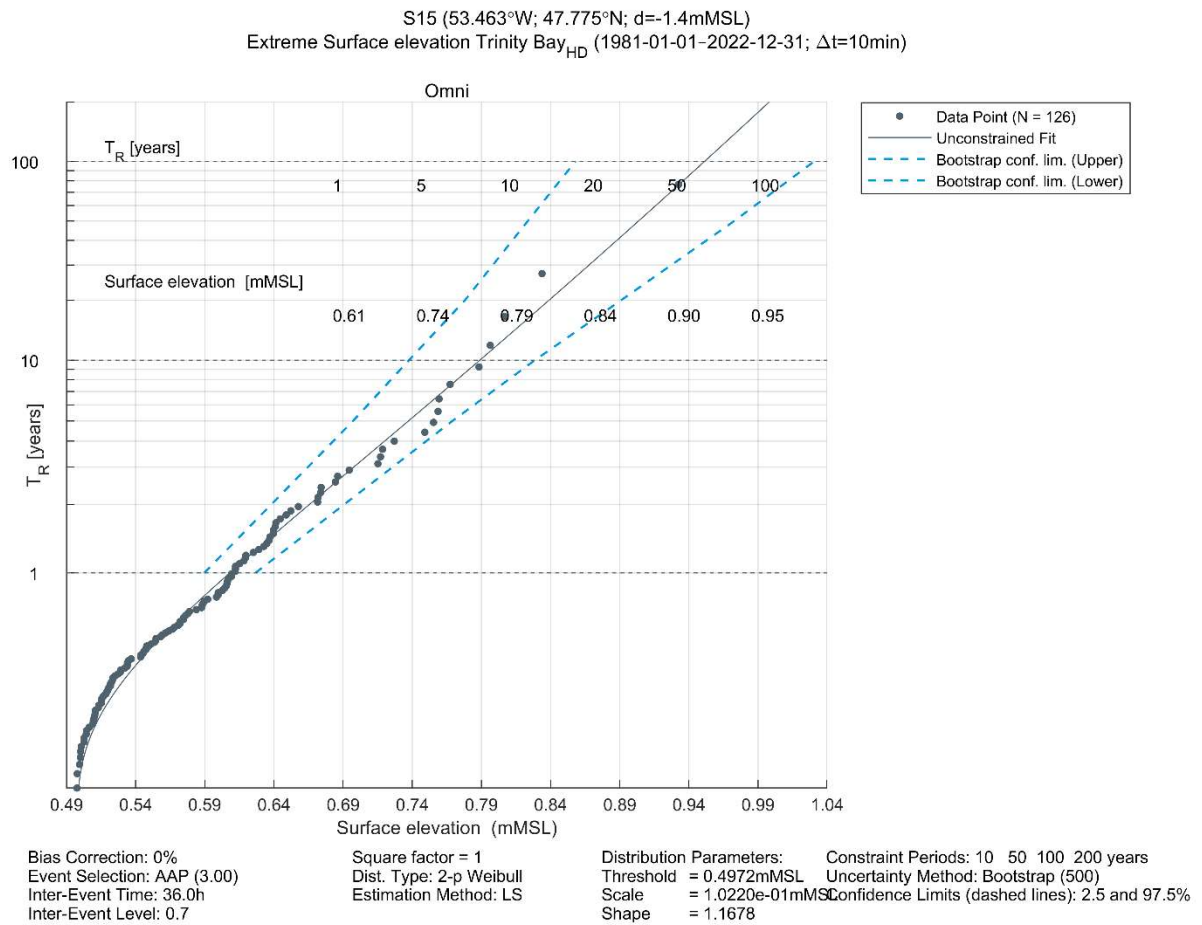


Figure 15: Total water level (m, CGVD2013) EVA at Station 15, Trinity Bay – Heart’s Delight-Islington

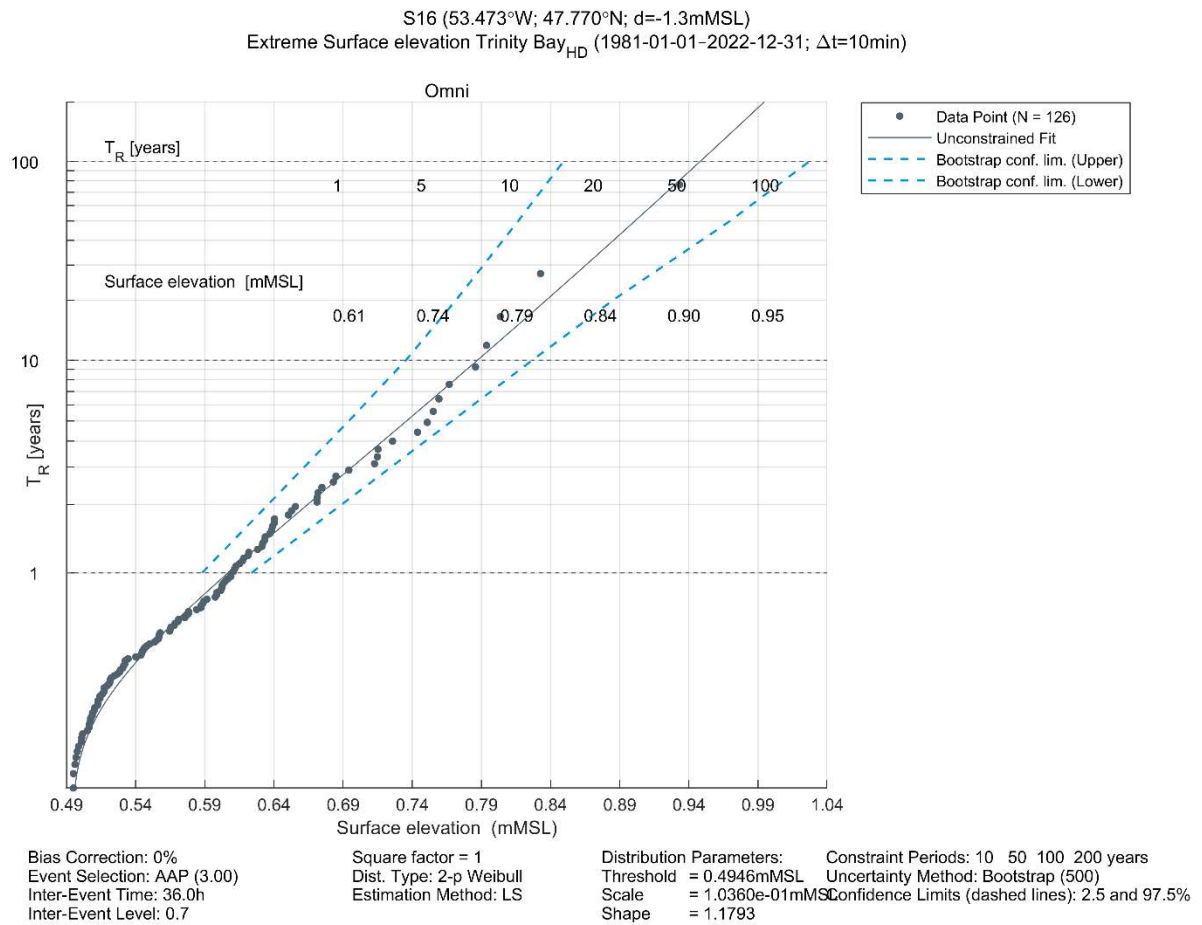


Figure 16: Total water level (m, CGVD2013) EVA at Station 16, Trinity Bay – Heart's Delight-Islington

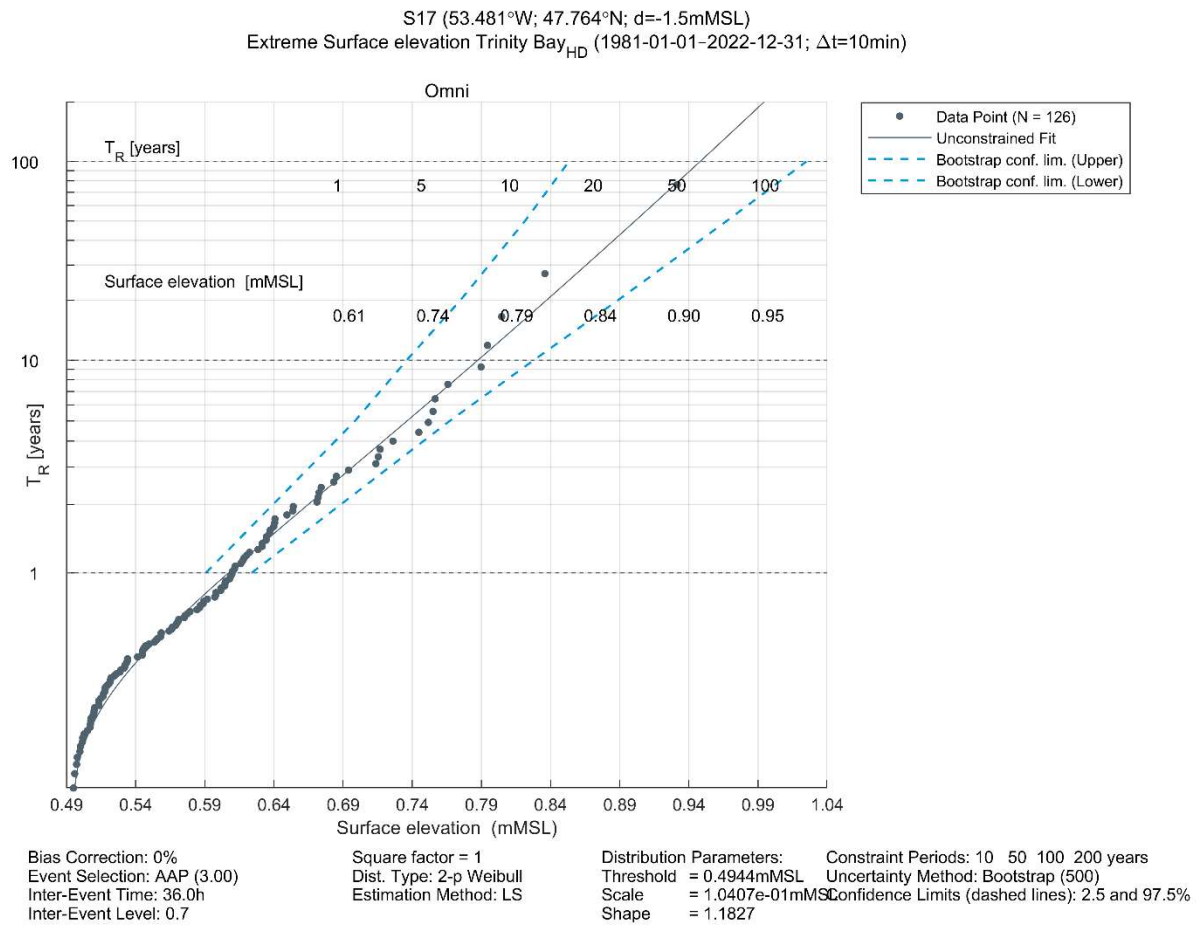


Figure 17: Total water level (m, CGVD2013) EVA at Station 17, Trinity Bay – Heart’s Delight-Islington

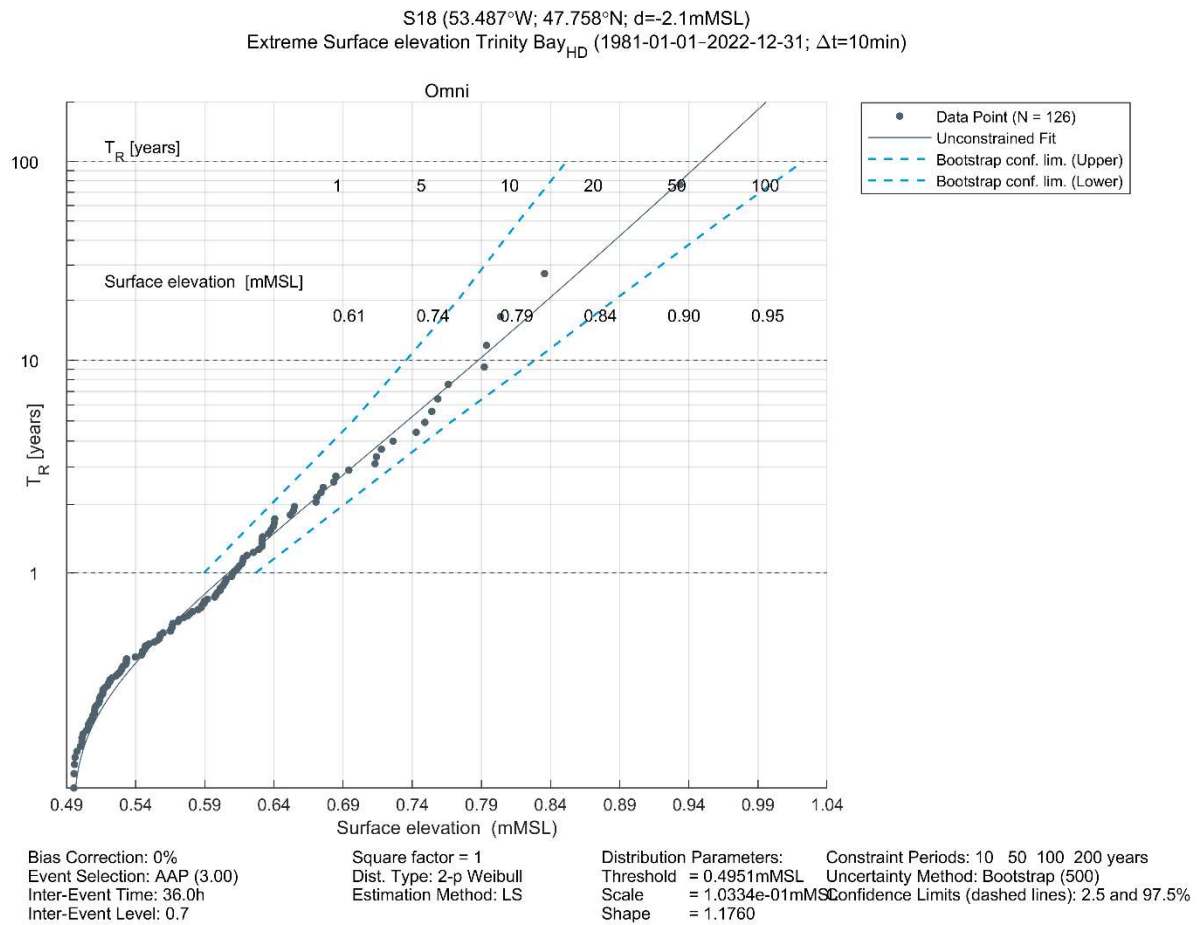


Figure 18: Total water level (m, CGVD2013) EVA at Station 18, Trinity Bay – Heart's Delight-Islington

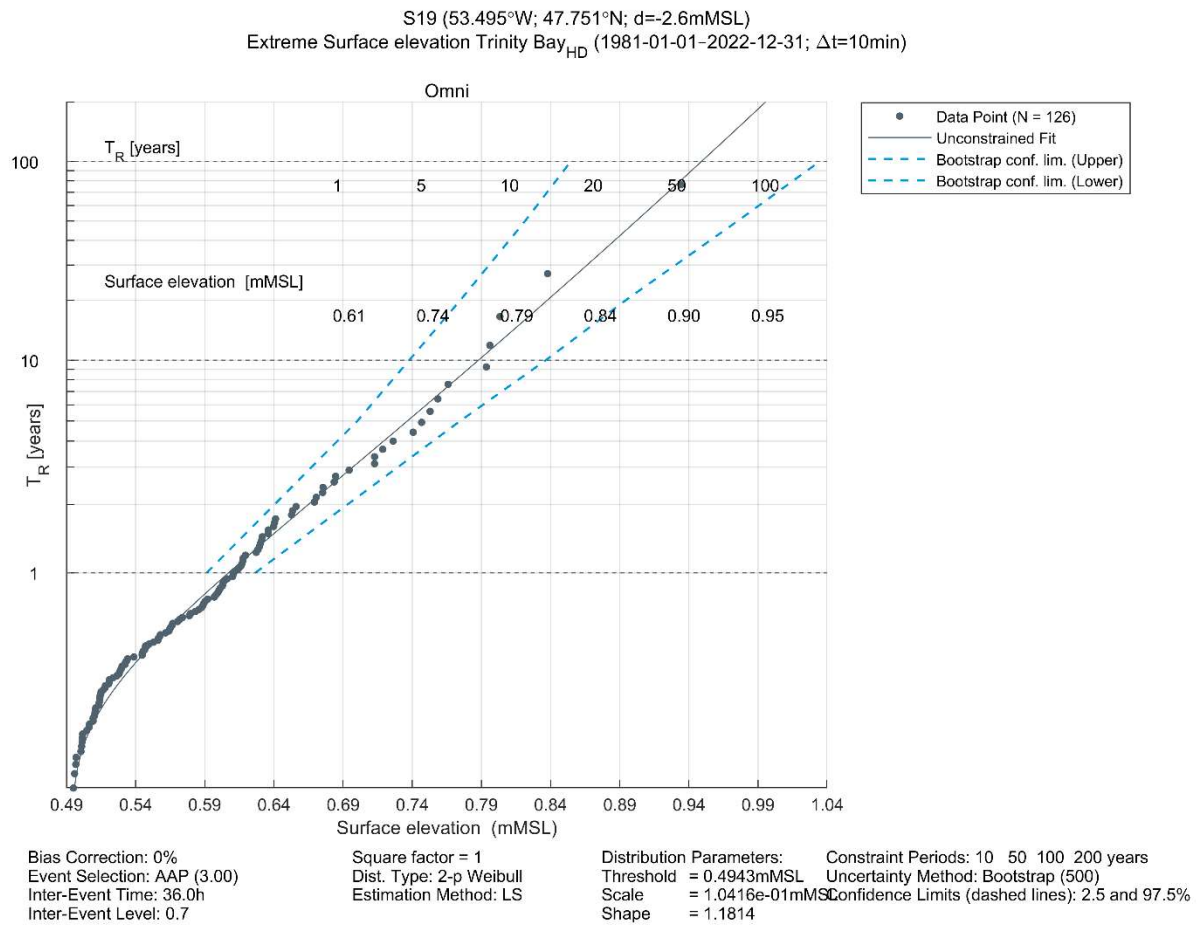


Figure 19: Total water level (m, CGVD2013) EVA at Station 19, Trinity Bay – Heart’s Delight-Islington

1.2 Trinity Bay Current Magnitudes (Hants Harbour, Winterton and Heart’s Delight-Islington)

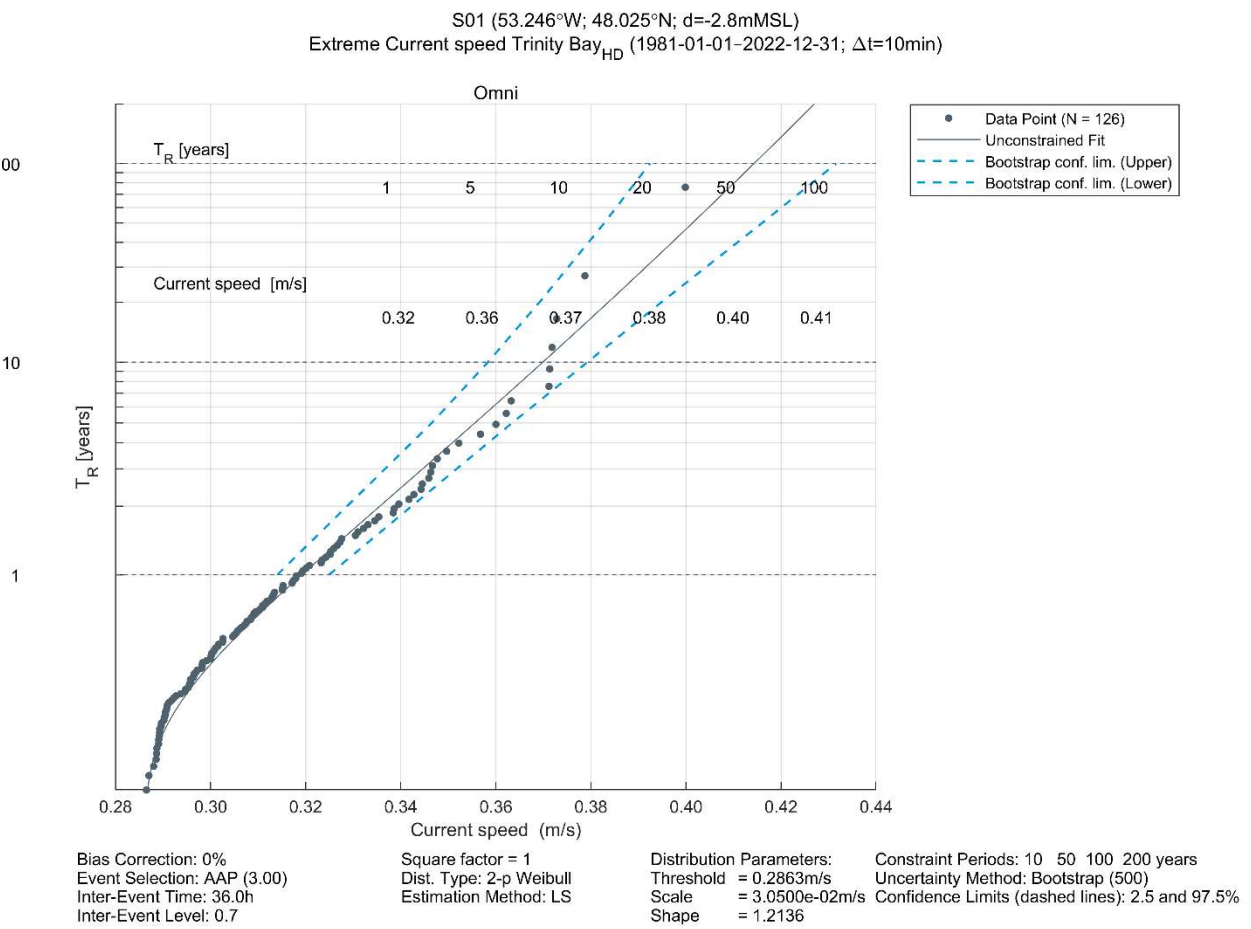


Figure 20: Depth averaged current speeds (m/s) EVA at Station 01, Trinity Bay – Hants Harbour

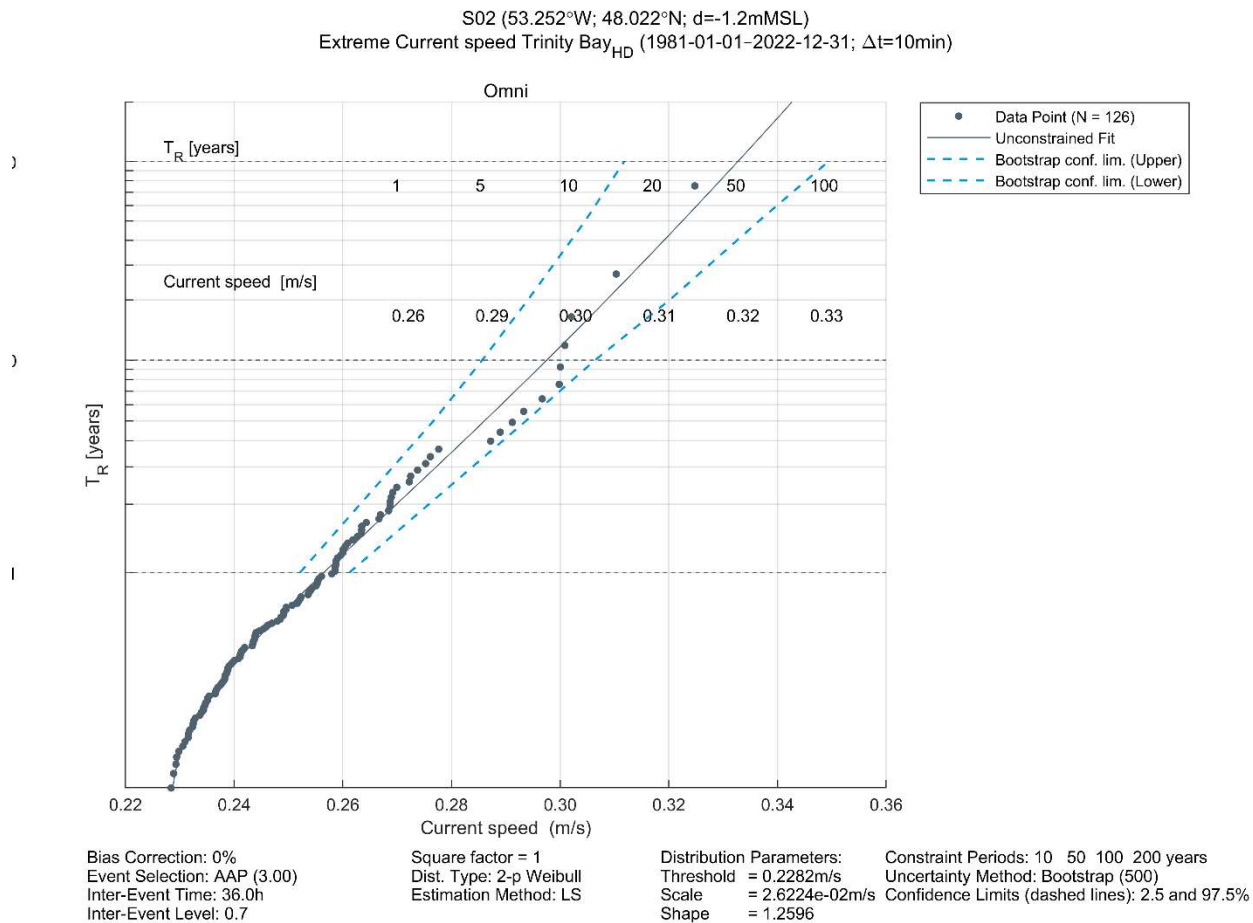


Figure 21: Depth averaged current speeds (m/s) EVA at Station 02, Trinity Bay – Hants Harbour

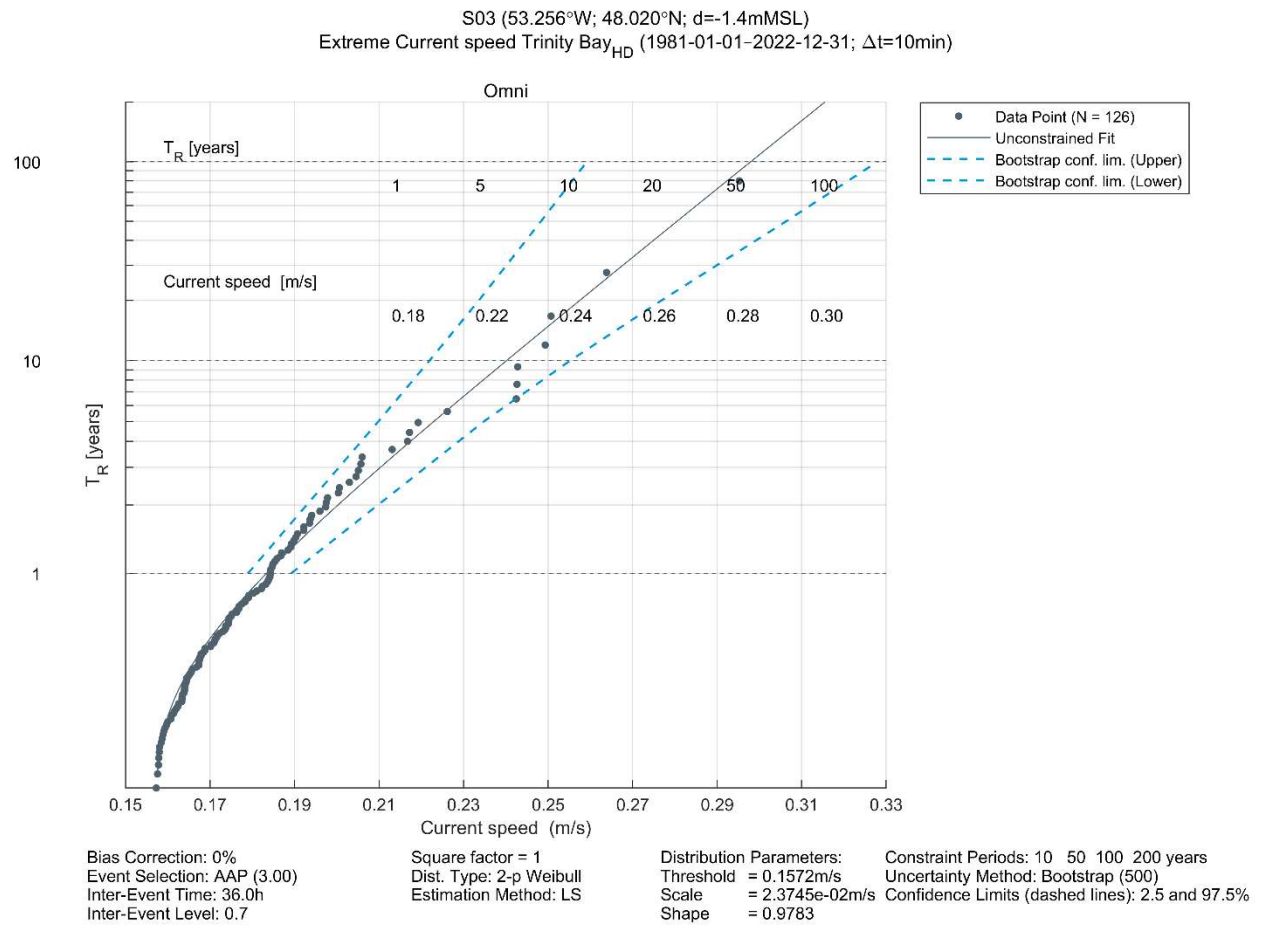


Figure 22: Depth averaged current speeds (m/s) EVA at Station 03, Trinity Bay – Hants Harbour

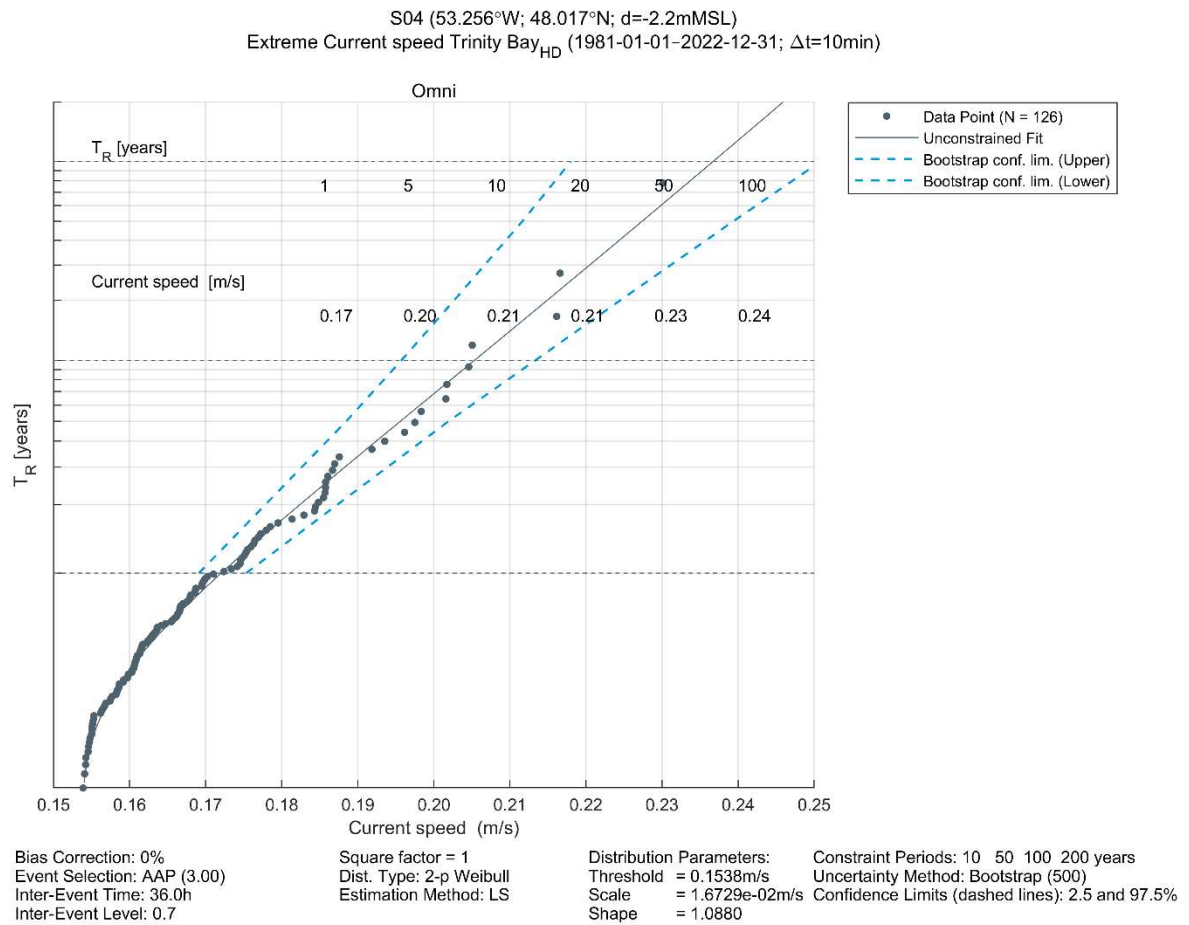


Figure 23: Depth averaged current speeds (m/s) EVA at Station 04, Trinity Bay – Hants Harbour

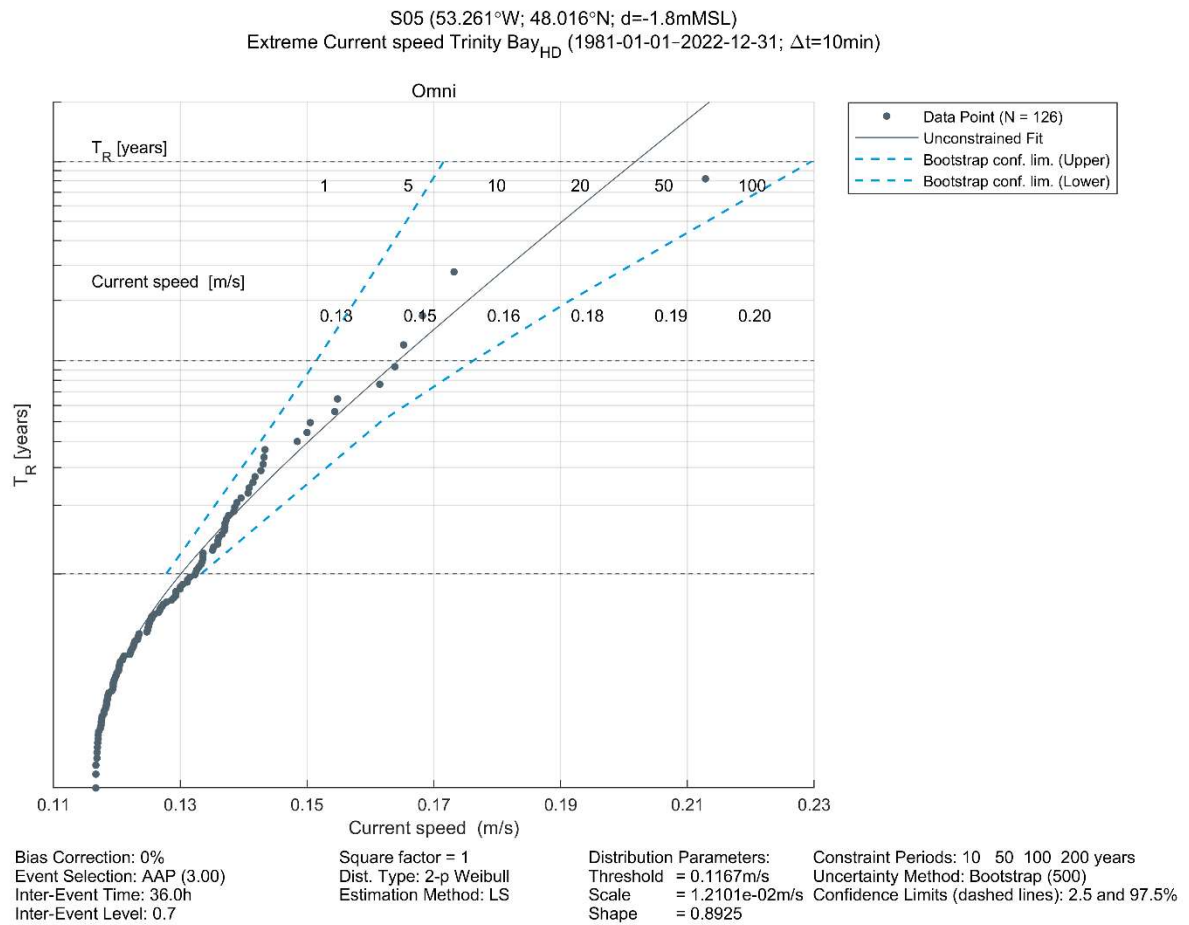


Figure 24: Depth averaged current speeds (m/s) EVA at Station 05, Trinity Bay – Hants Harbour

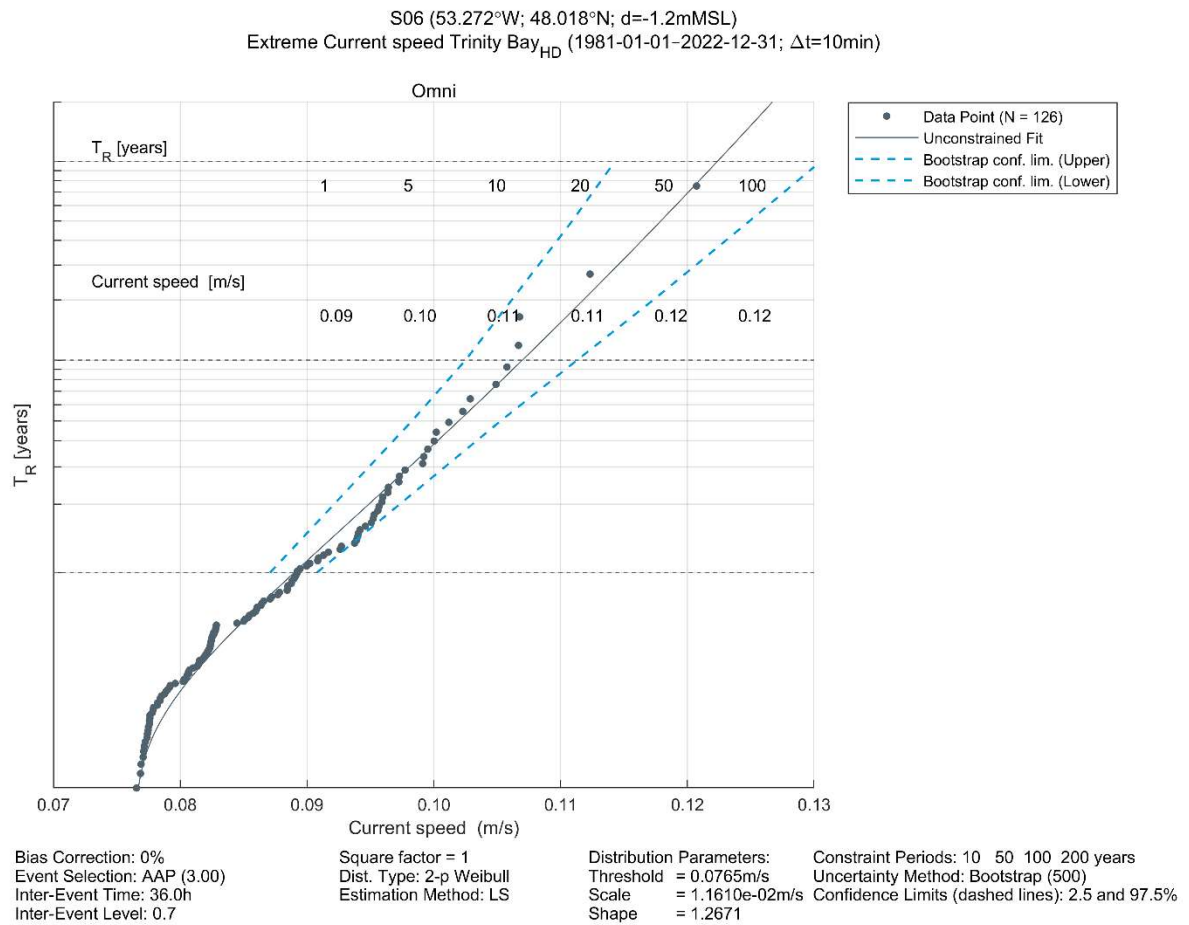


Figure 25: Depth averaged current speeds (m/s) EVA at Station 06, Trinity Bay – Hants Harbour

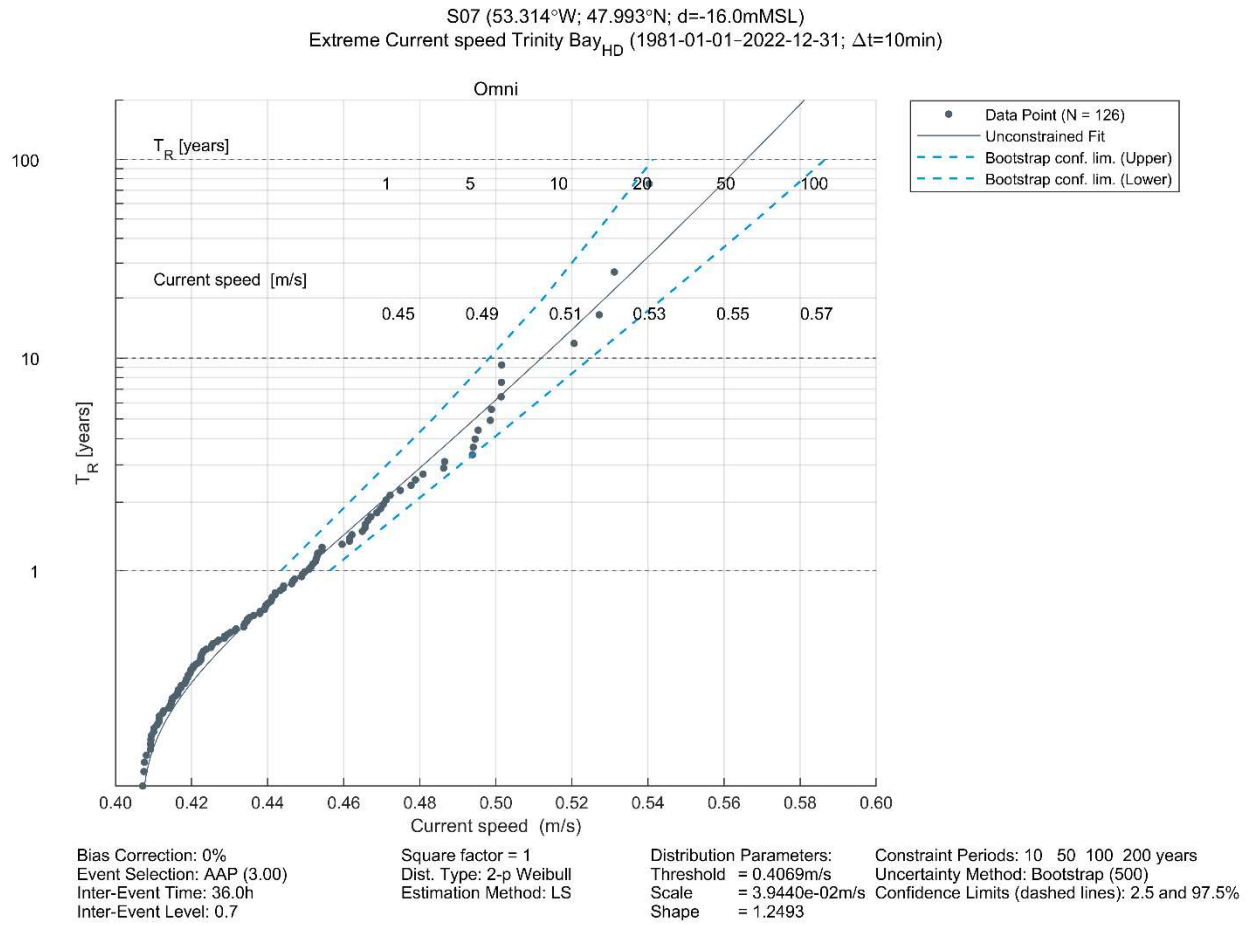


Figure 26: Depth averaged current speeds (m/s) EVA at Station 07, Trinity Bay – Winterton

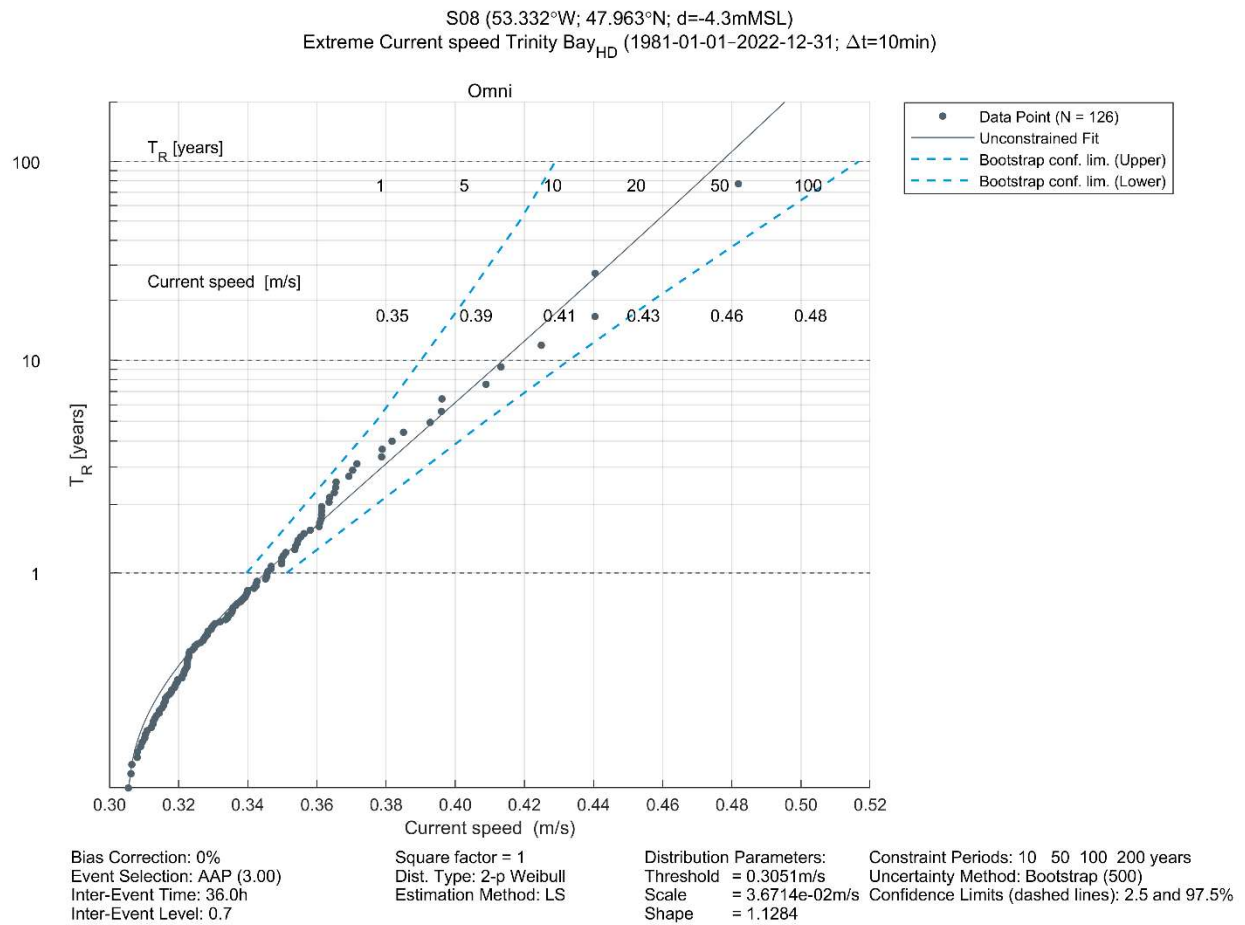


Figure 27: Depth averaged current speeds (m/s) EVA at Station 08, Trinity Bay – Winterton

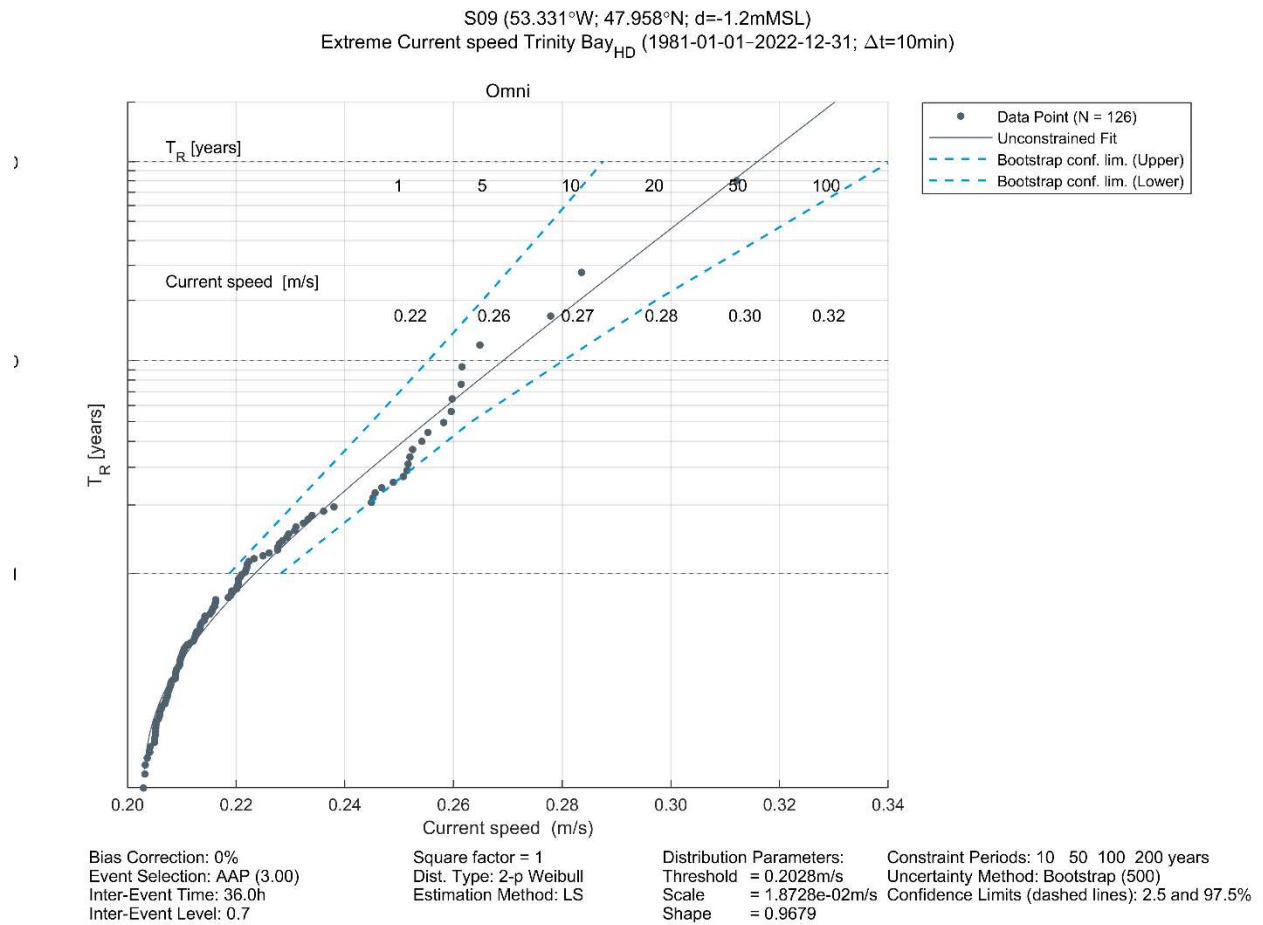


Figure 28: Depth averaged current speeds (m/s) EVA at Station 09, Trinity Bay – Winterton

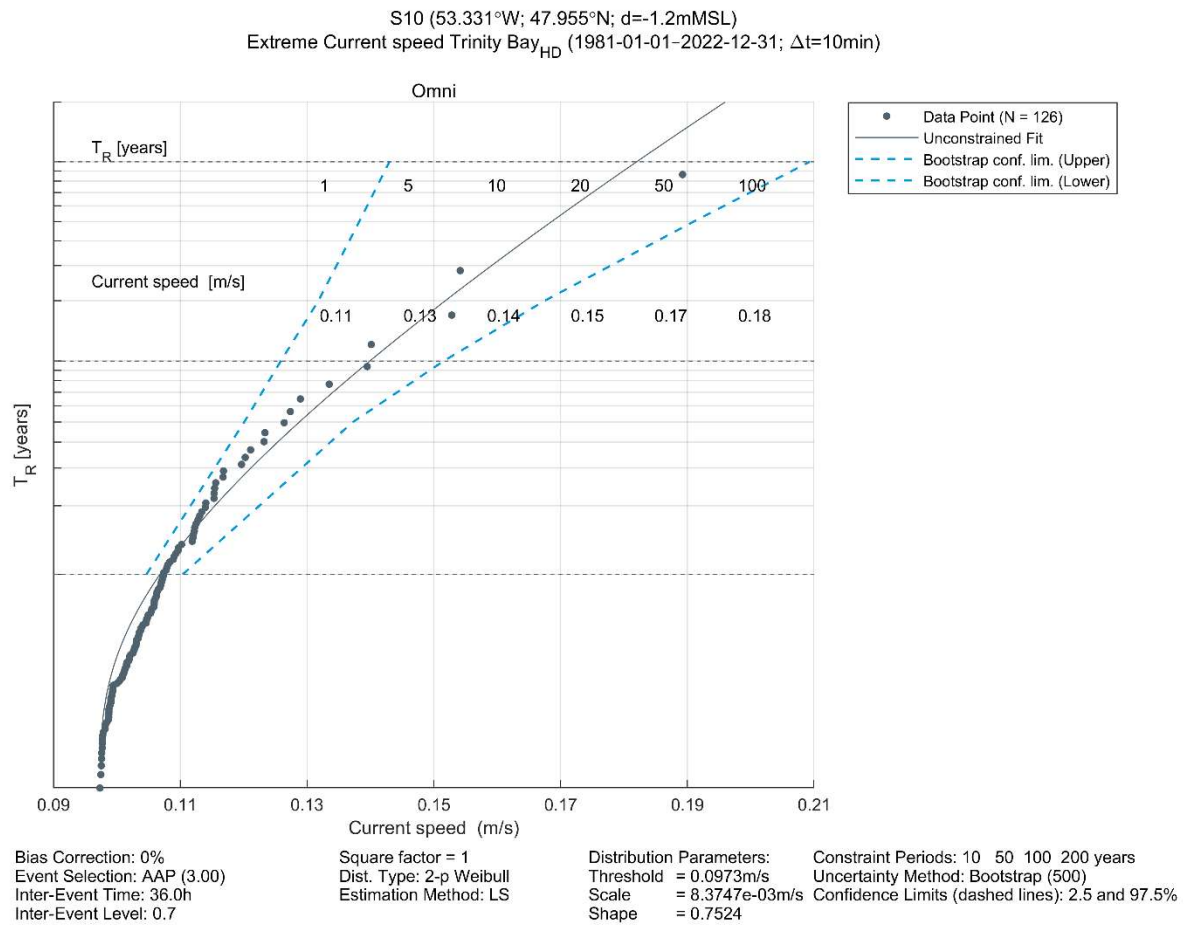


Figure 29: Depth averaged current speeds (m/s) EVA at Station 10, Trinity Bay – Winterton

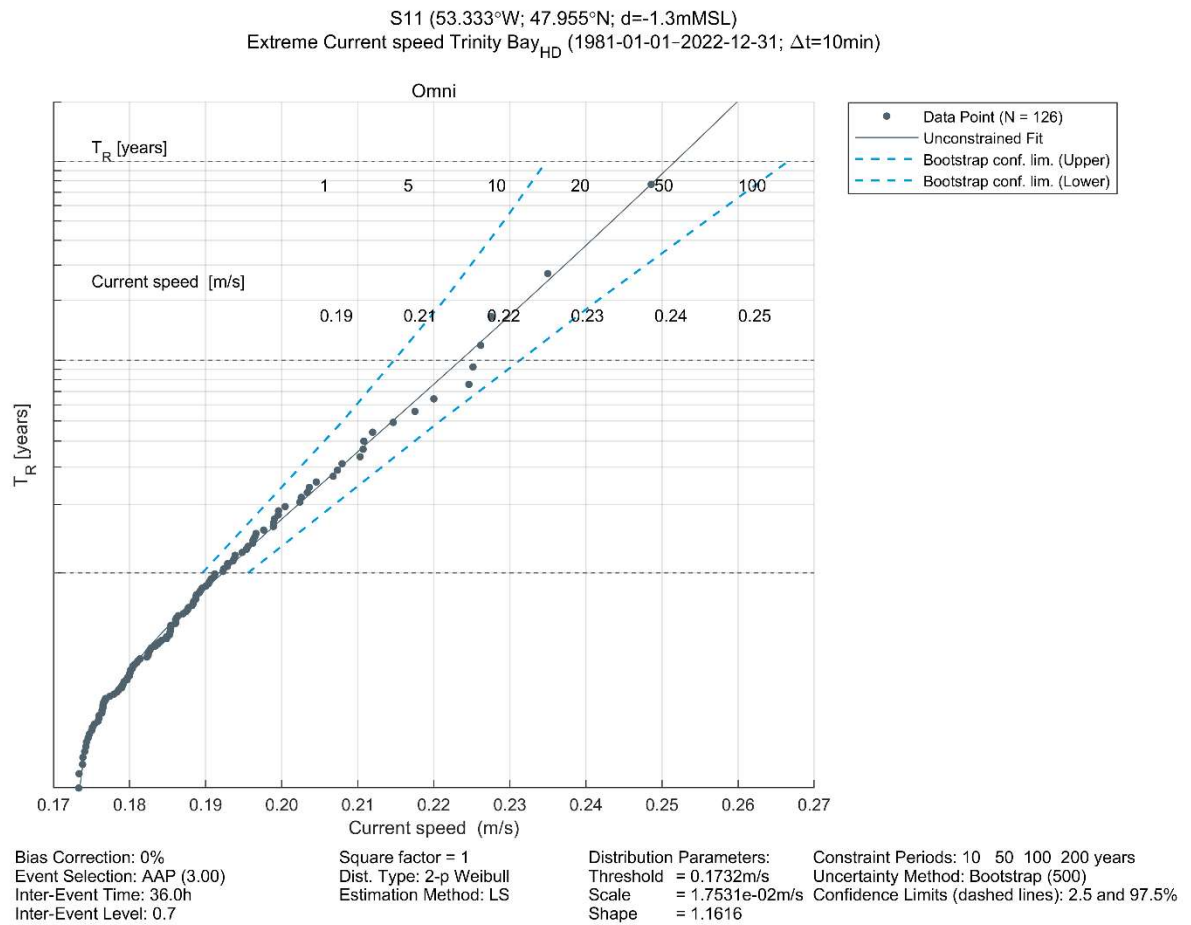


Figure 30: Depth averaged current speeds (m/s) EVA at Station 11, Trinity Bay – Winterton

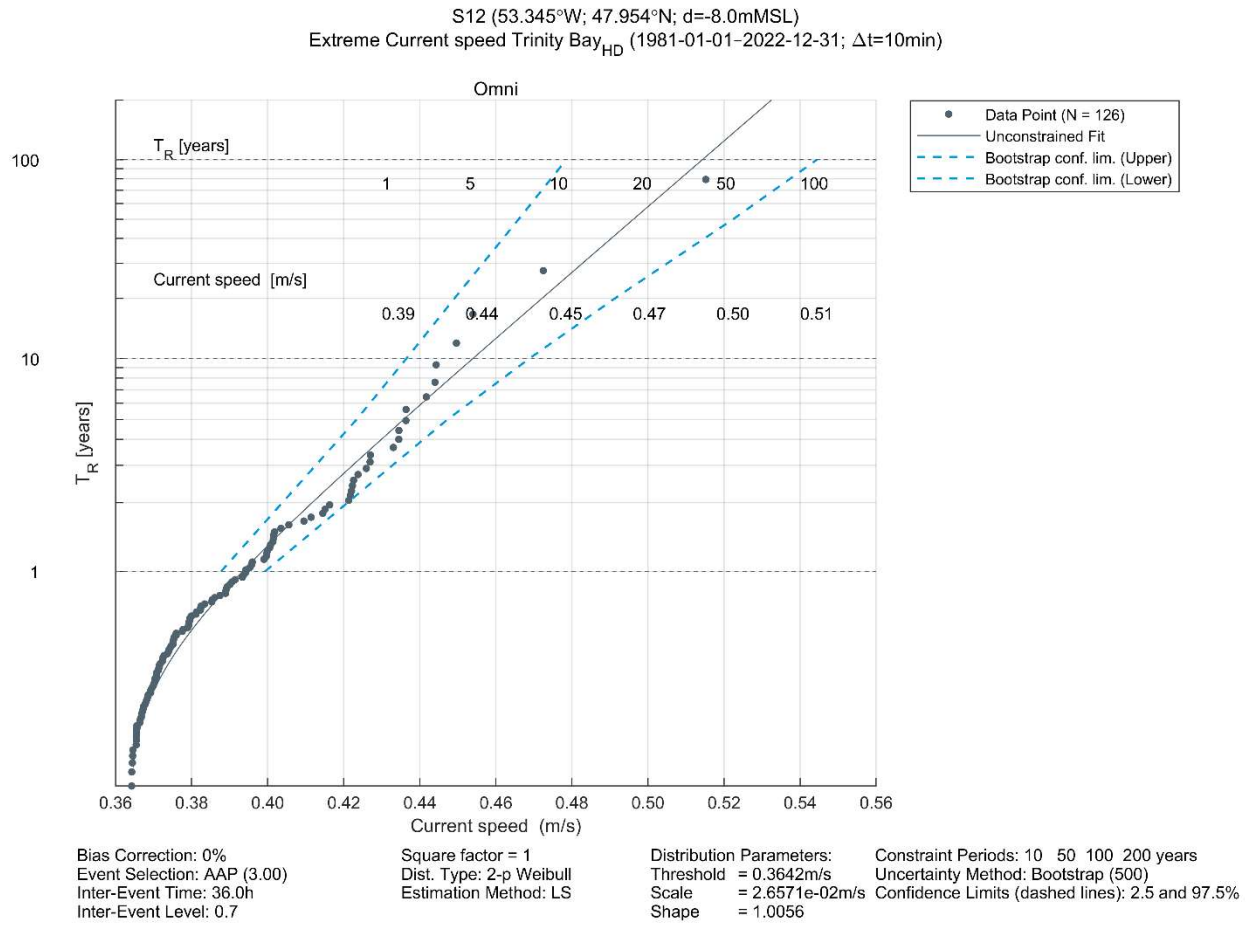


Figure 31: Depth averaged current speeds (m/s) EVA at Station 12, Trinity Bay – Winterton

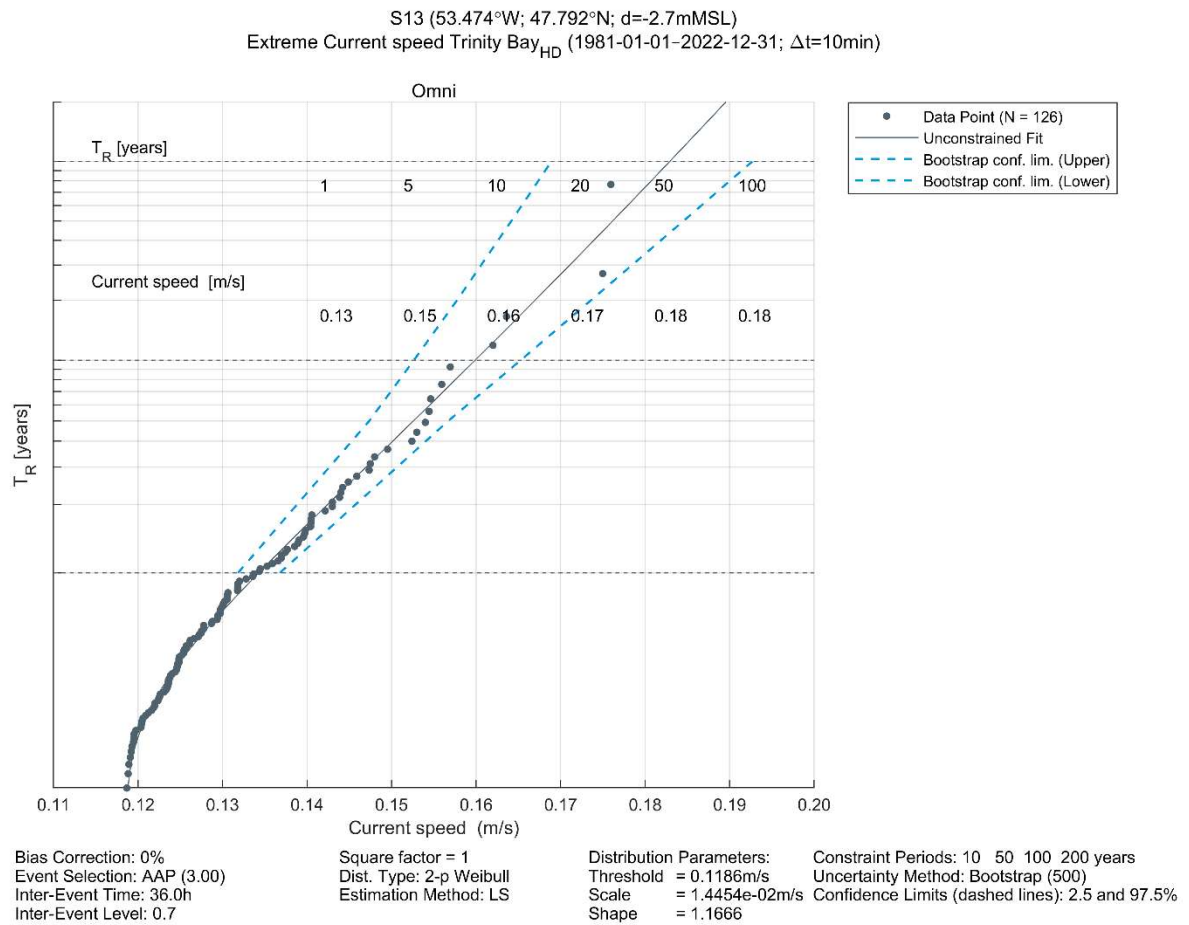


Figure 32: Depth averaged current speeds (m/s) EVA at Station 13, Trinity Bay – Heart's Delight-Islington

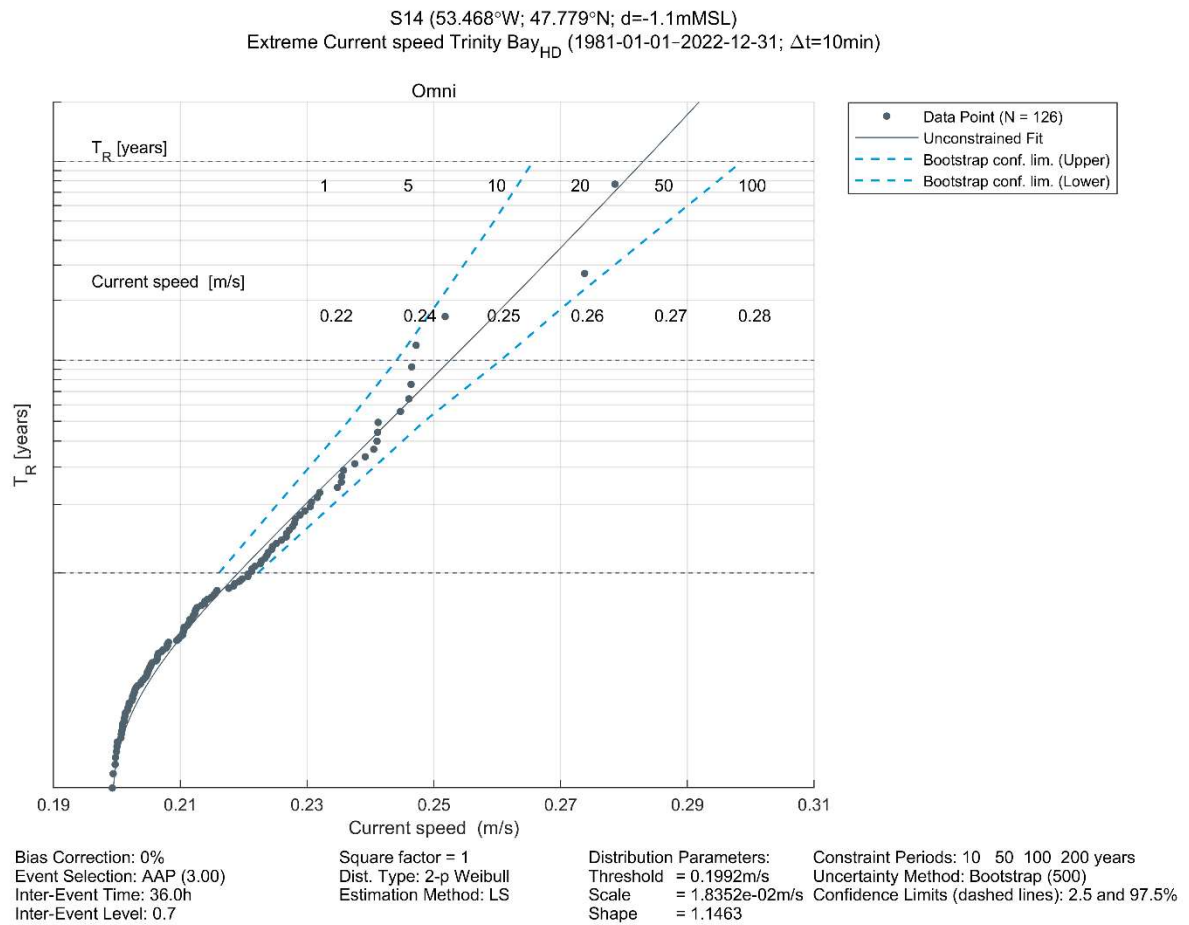


Figure 33: Depth averaged current speeds (m/s) EVA at Station 14, Trinity Bay – Heart’s Delight-Islington

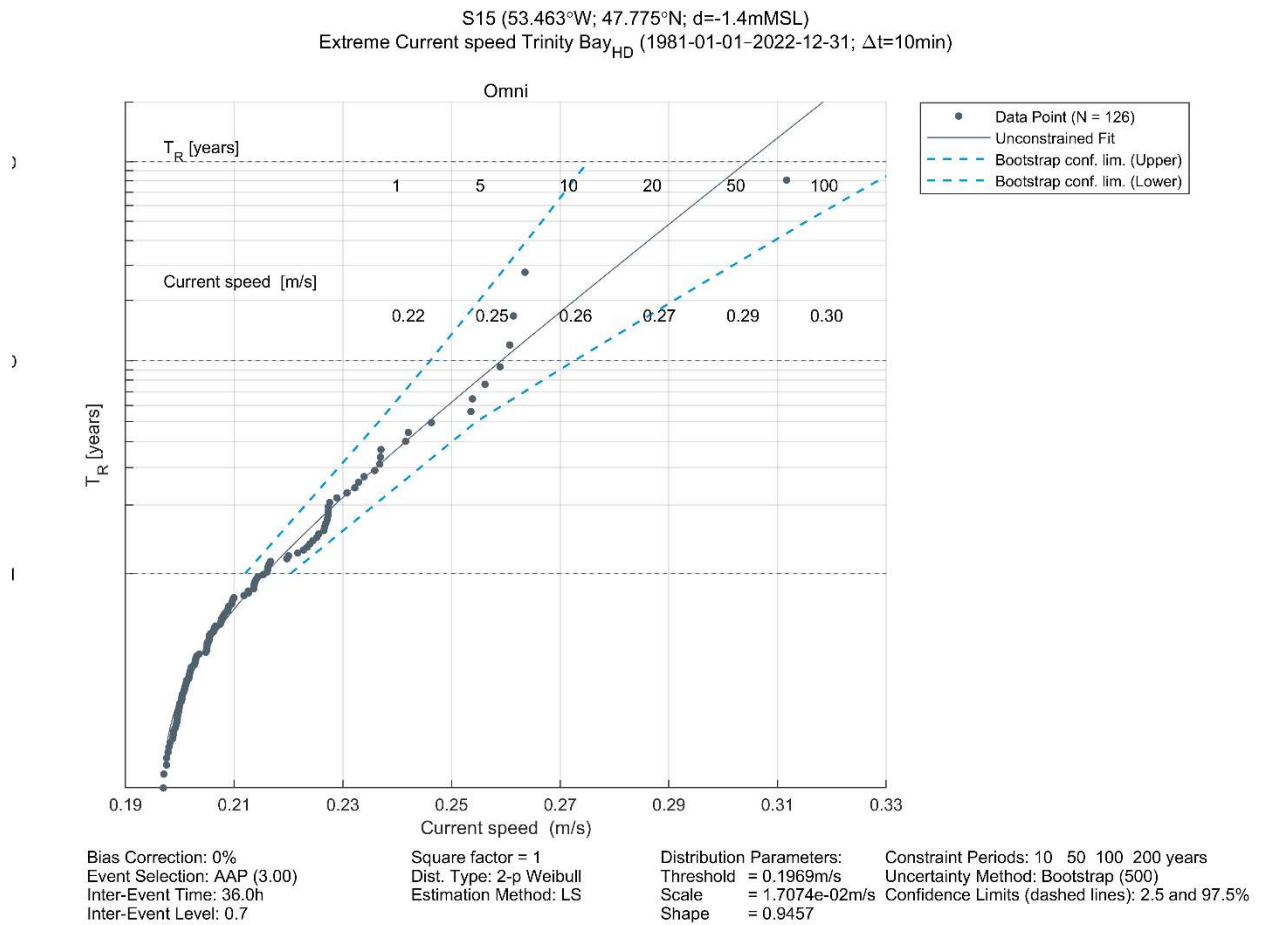


Figure 34: Depth averaged current speeds (m/s) EVA at Station 15, Trinity Bay – Heart's Delight-Islington

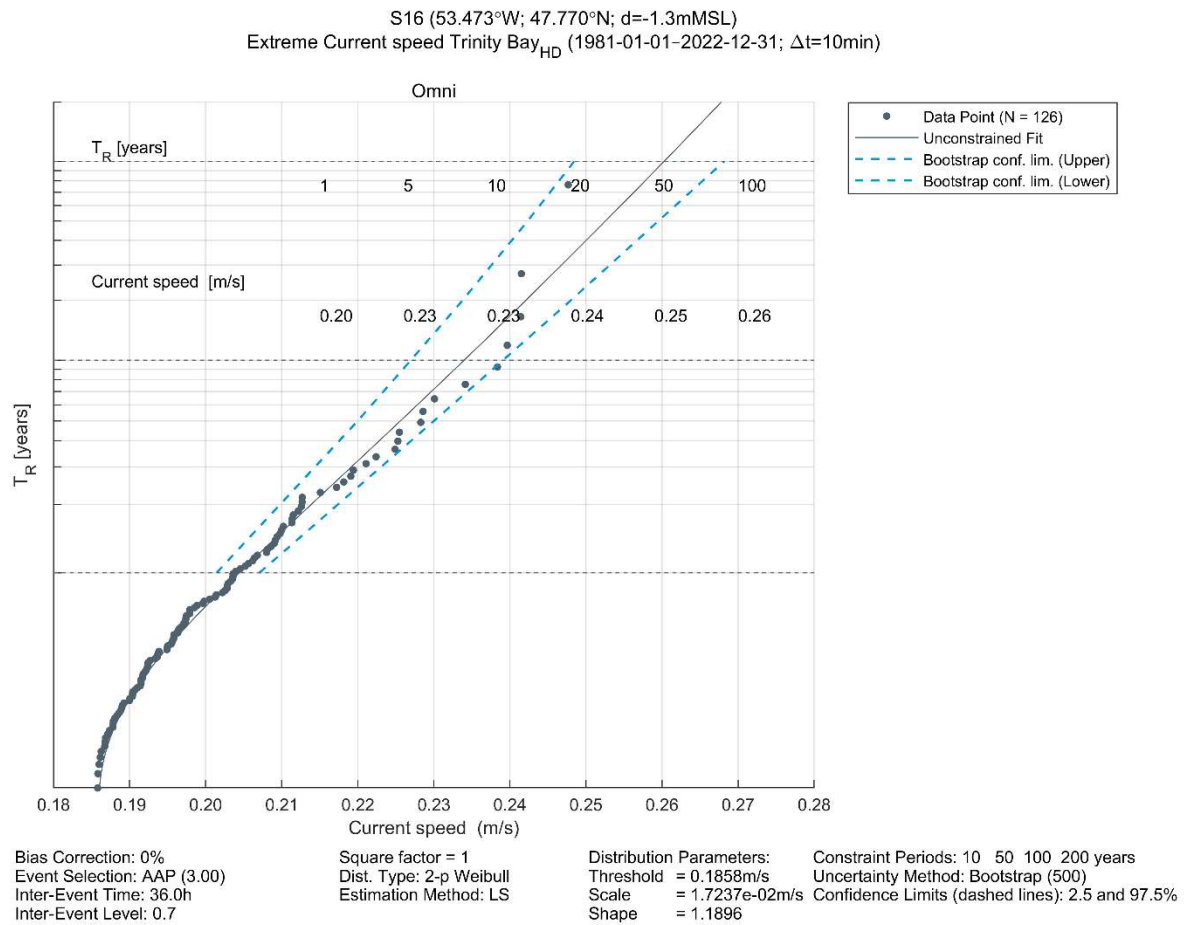


Figure 35: Depth averaged current speeds (m/s) EVA at Station 16, Trinity Bay – Heart's Delight-Islington

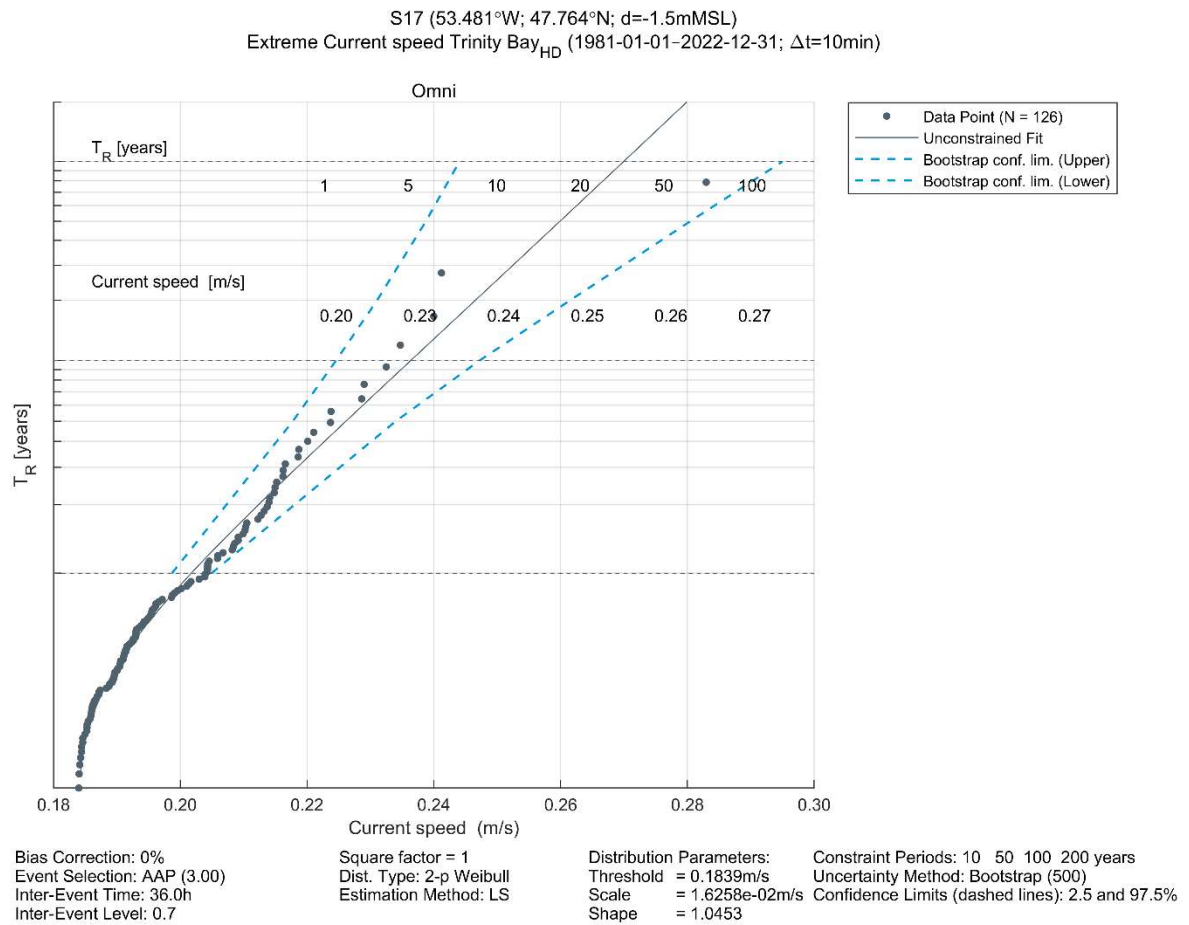


Figure 36: Depth averaged current speeds (m/s) EVA at Station 17, Trinity Bay – Heart's Delight-Islington

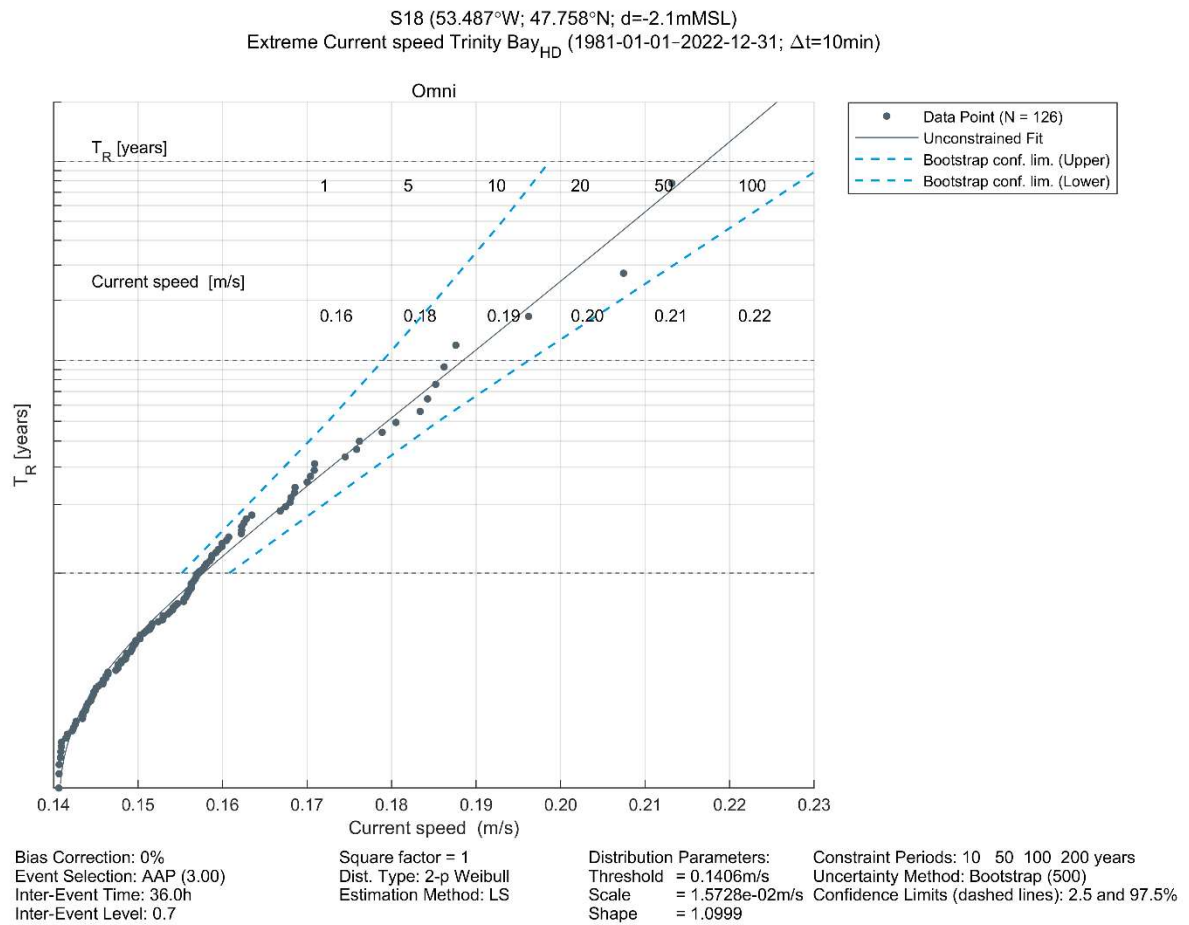


Figure 37: Depth averaged current speeds (m/s) EVA at Station 18, Trinity Bay – Heart's Delight-Islington

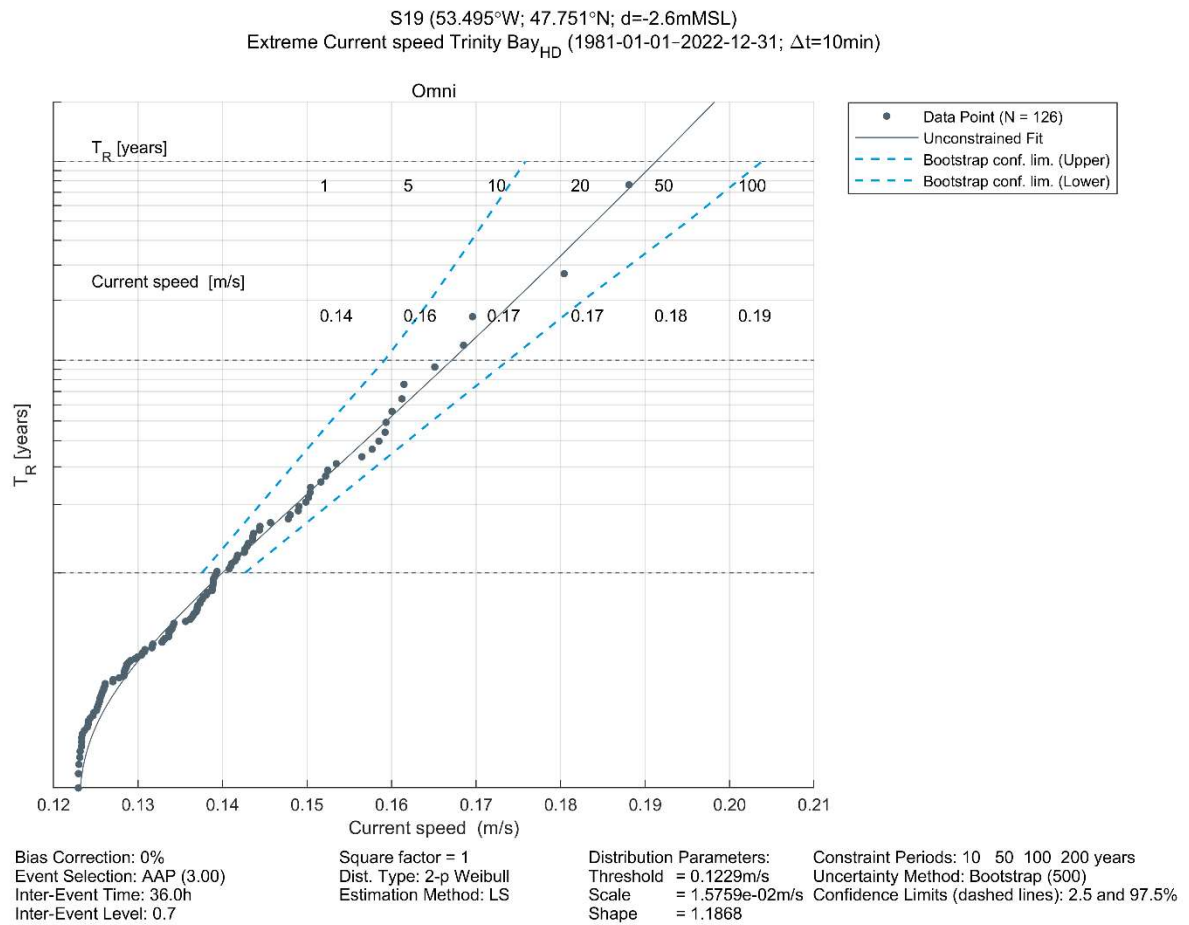


Figure 38: Depth averaged current speeds (m/s) EVA at Station 19, Trinity Bay – Heart's Delight-Islington

1.3 Brigus Total Water Levels

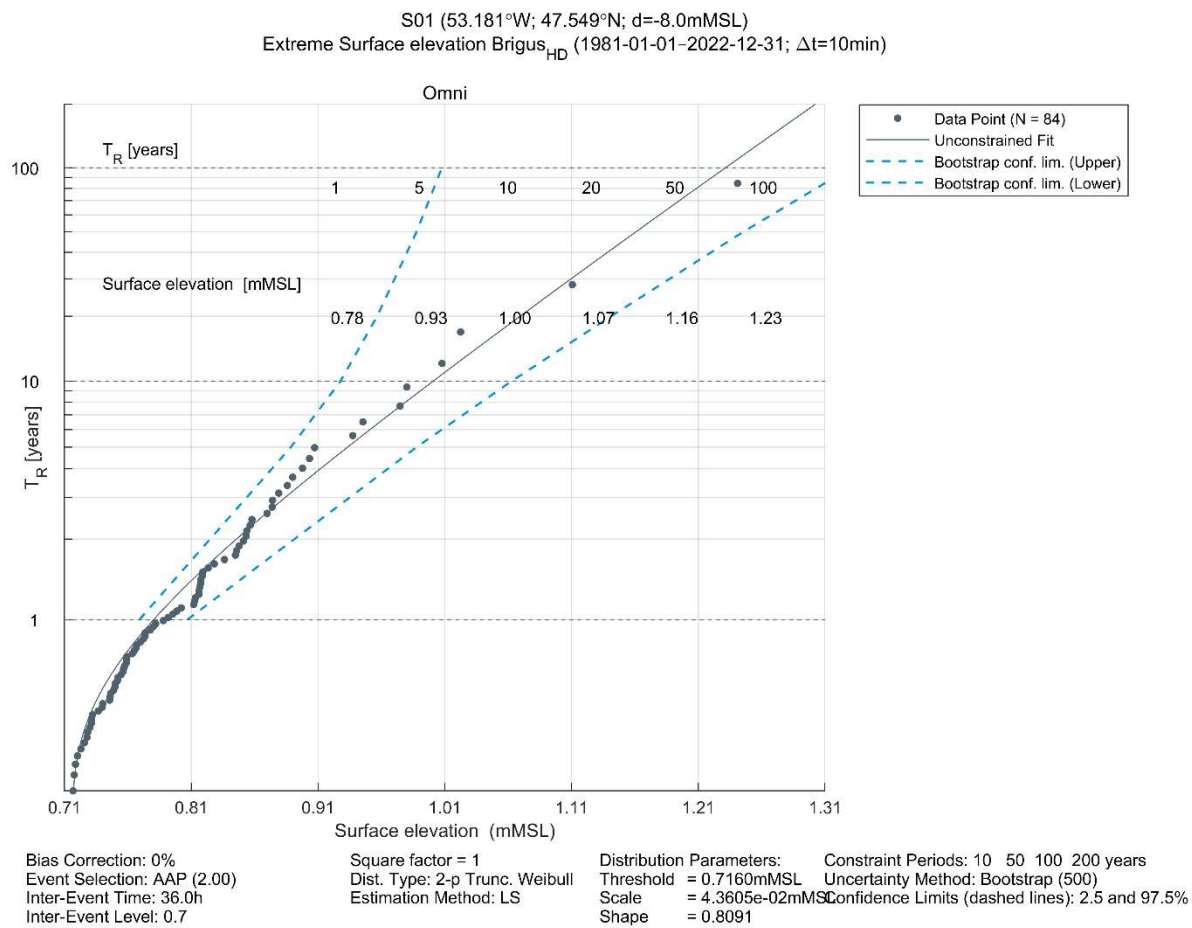


Figure 39: Total water level (m, CGVD2013) EVA at Station 1, Brigus.

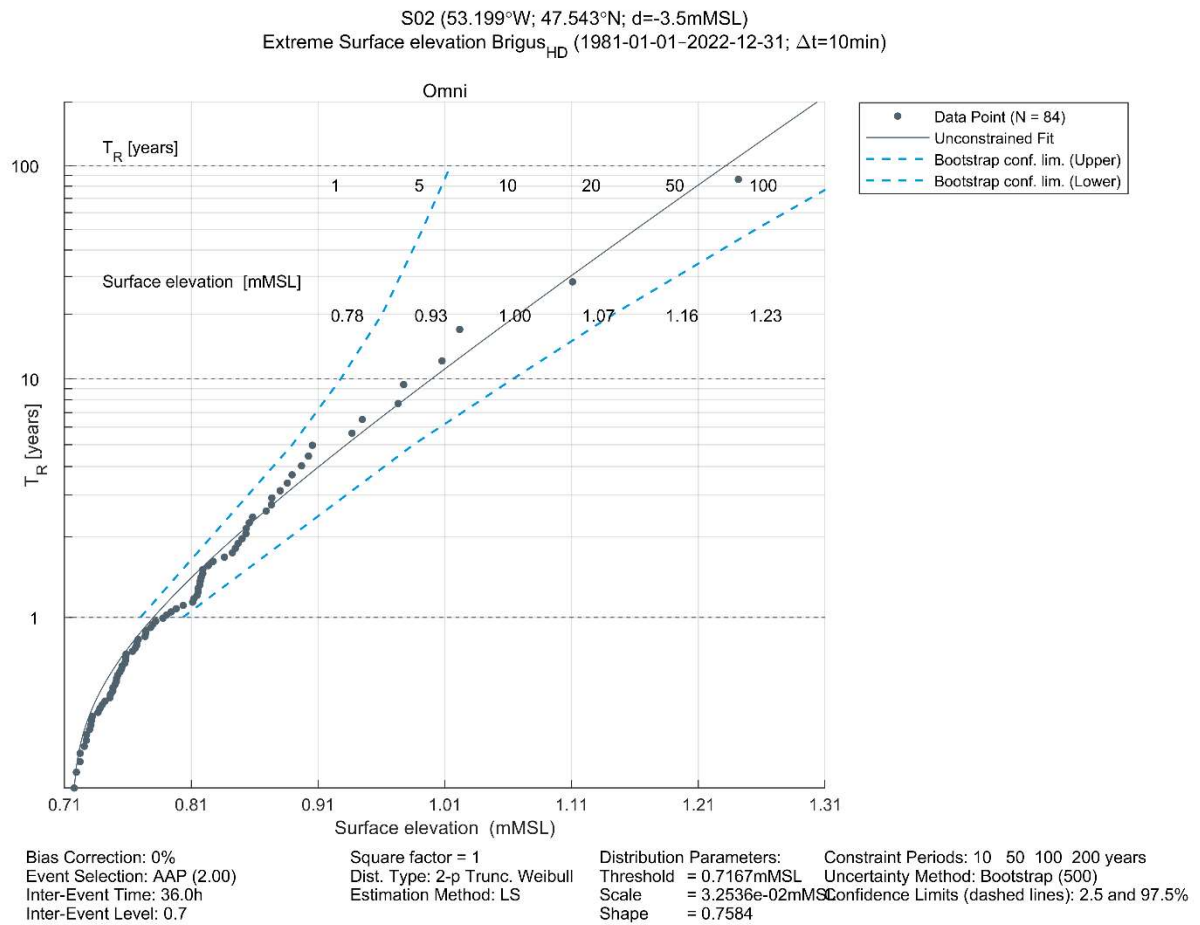


Figure 40: Total water level (m, CGVD2013) EVA at Station 2, Brigus.

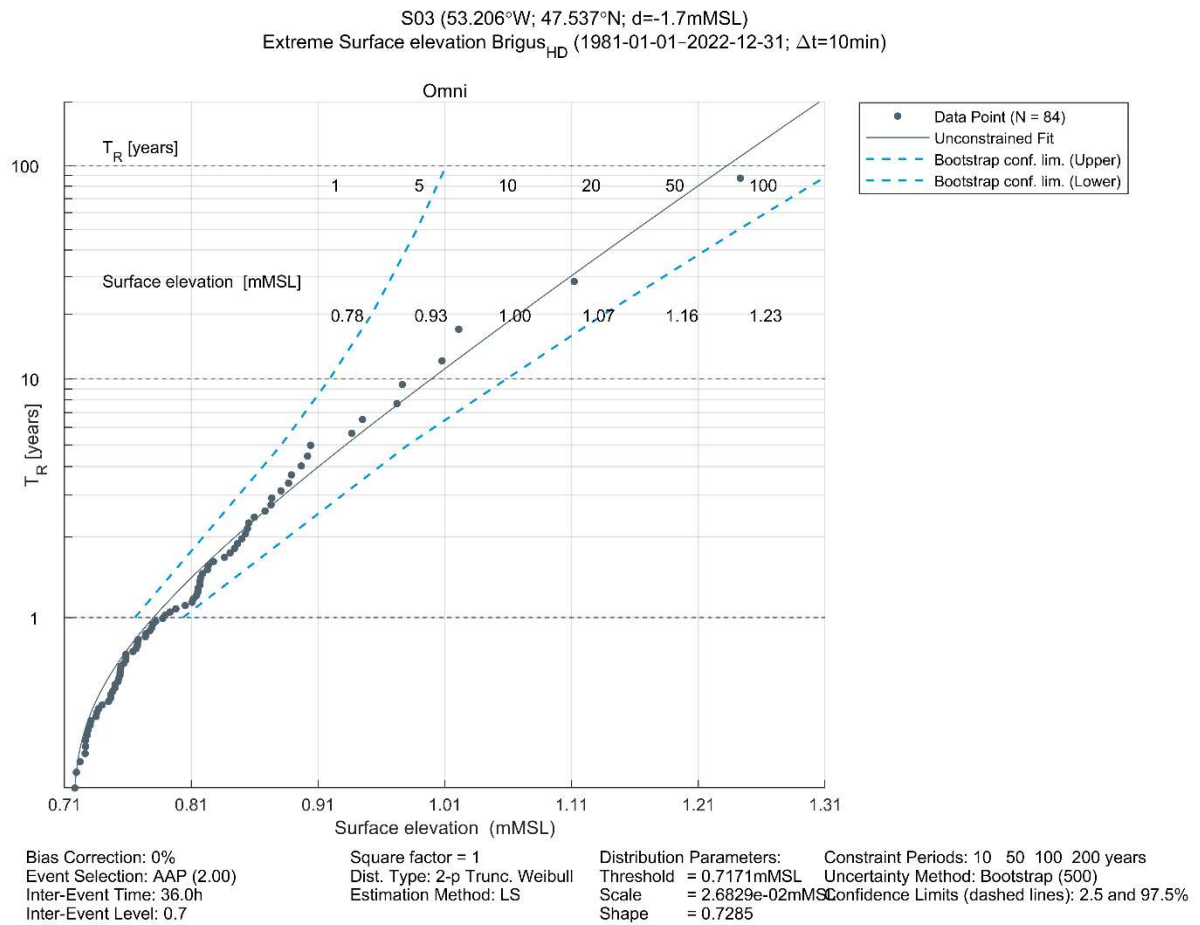


Figure 41: Total water level (m, CGVD2013) EVA at Station 3, Brigus.

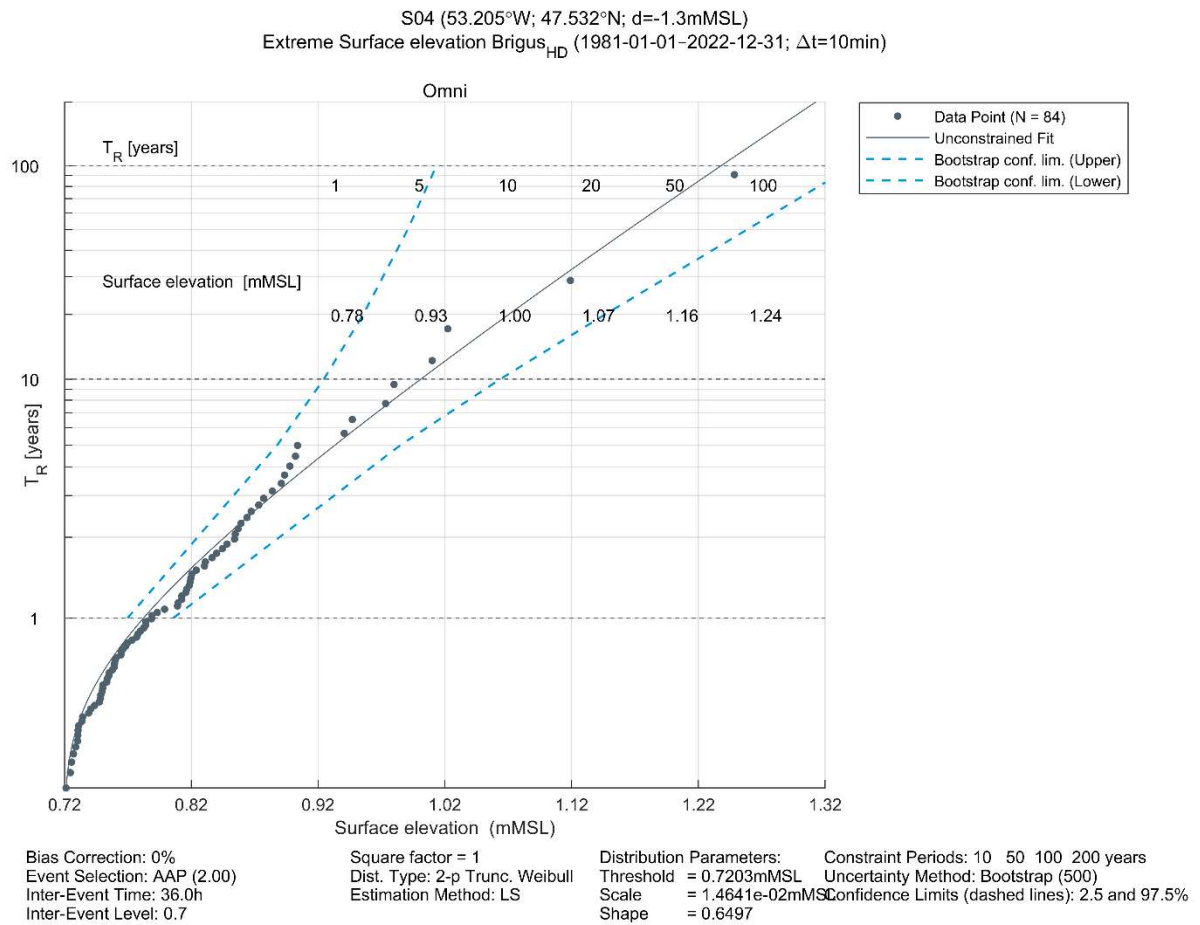


Figure 42: Total water level (m, CGVD2013) EVA at Station 4, Brigus.

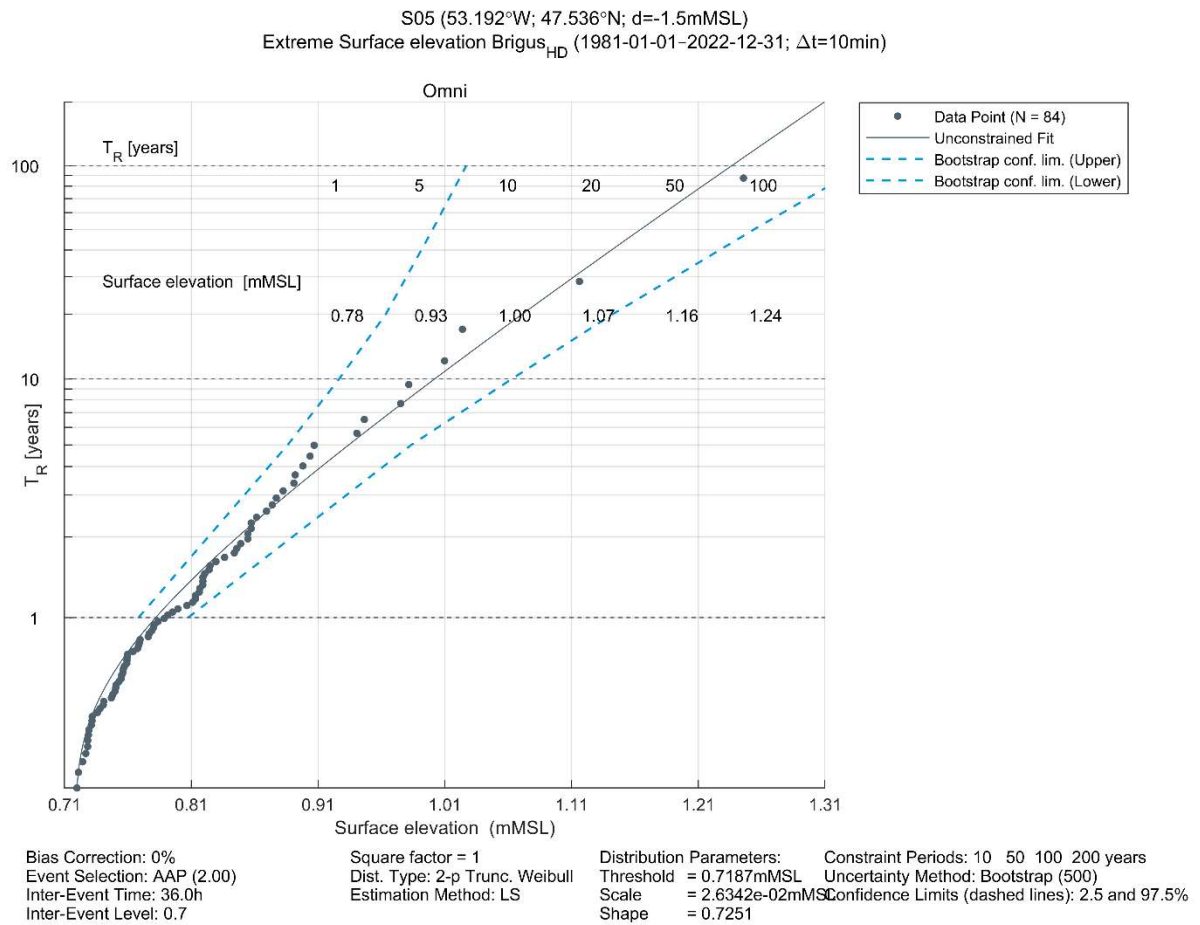


Figure 43: Total water level (m, CGVD2013) EVA at Station 5, Brigus.

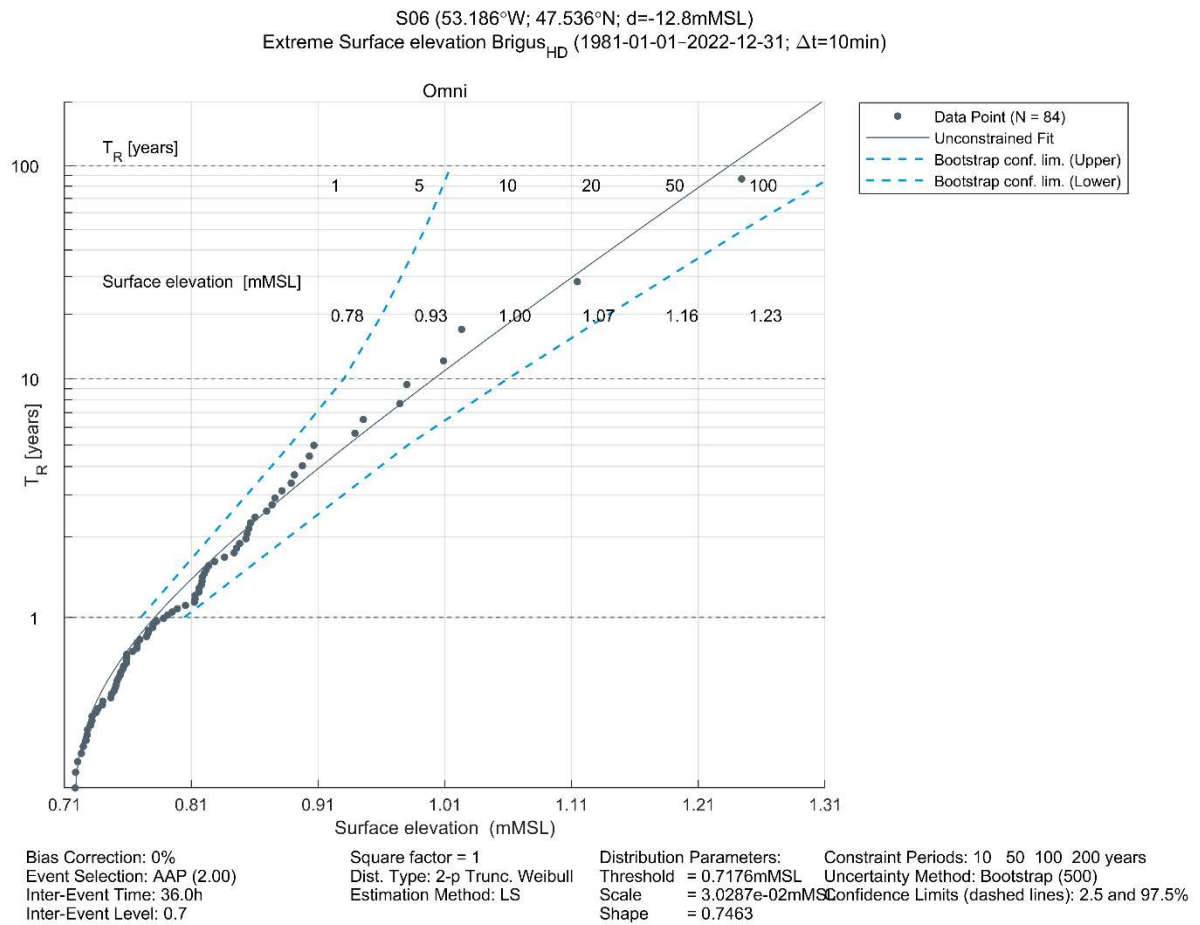


Figure 44: Total water level (m, CGVD2013) EVA at Station 6, Brigus.

2.0 EXTREME CURRENT SPEEDS

2.1 Brigus Current Magnitudes

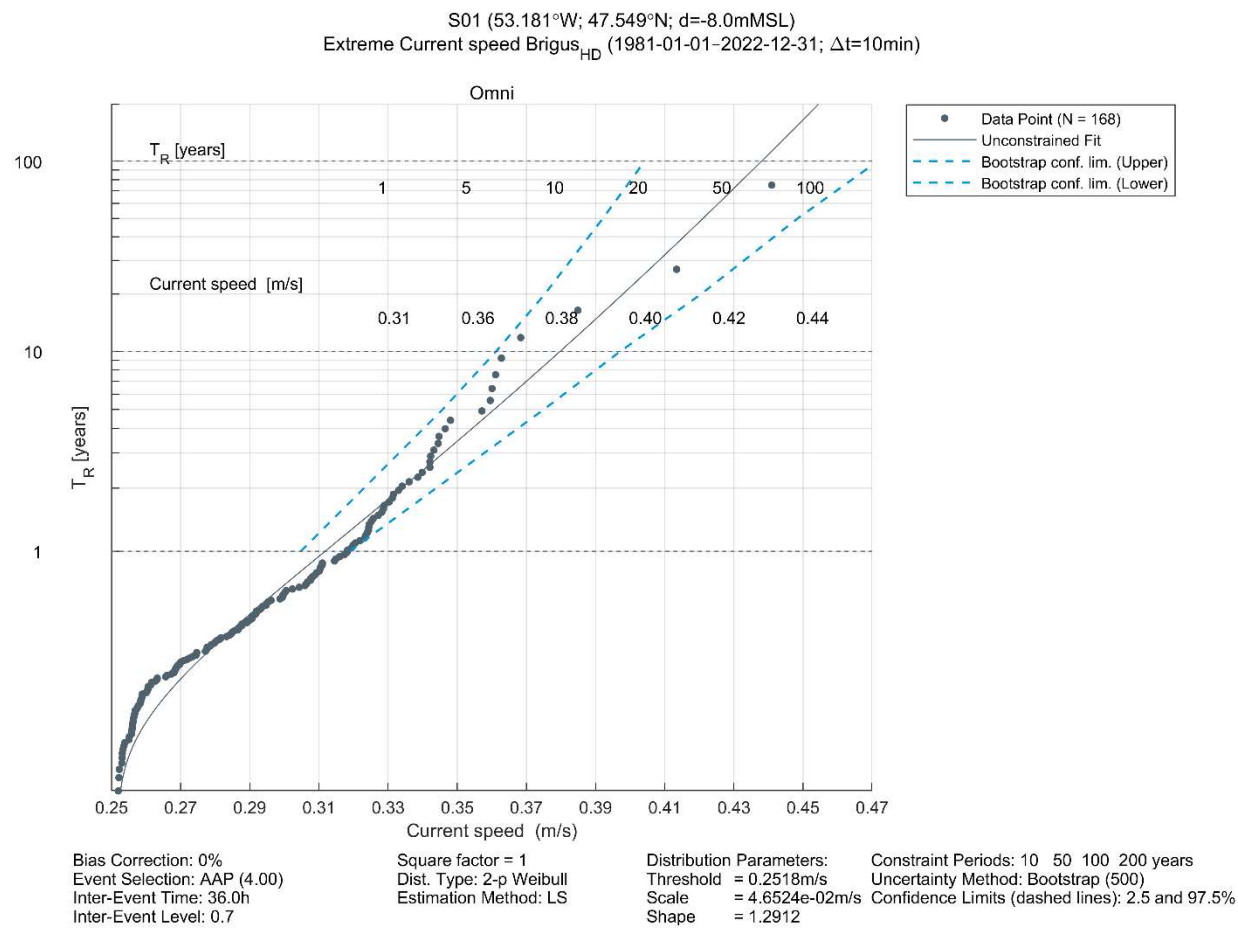


Figure 45: Depth averaged current speeds (m/s) EVA at Station 1, Brigus.

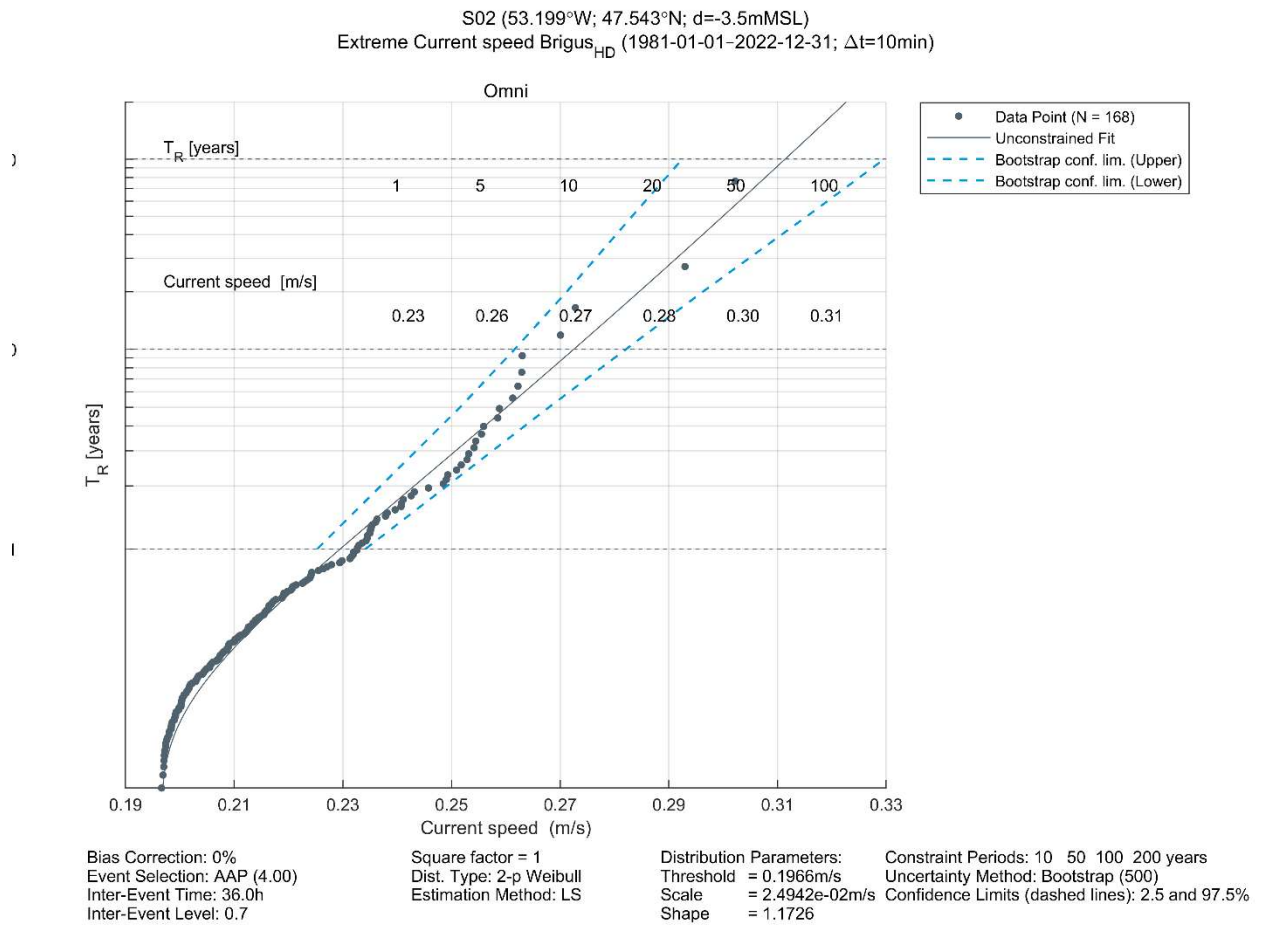


Figure 46: Depth averaged current speeds (m/s) EVA at Station 2, Brigus.

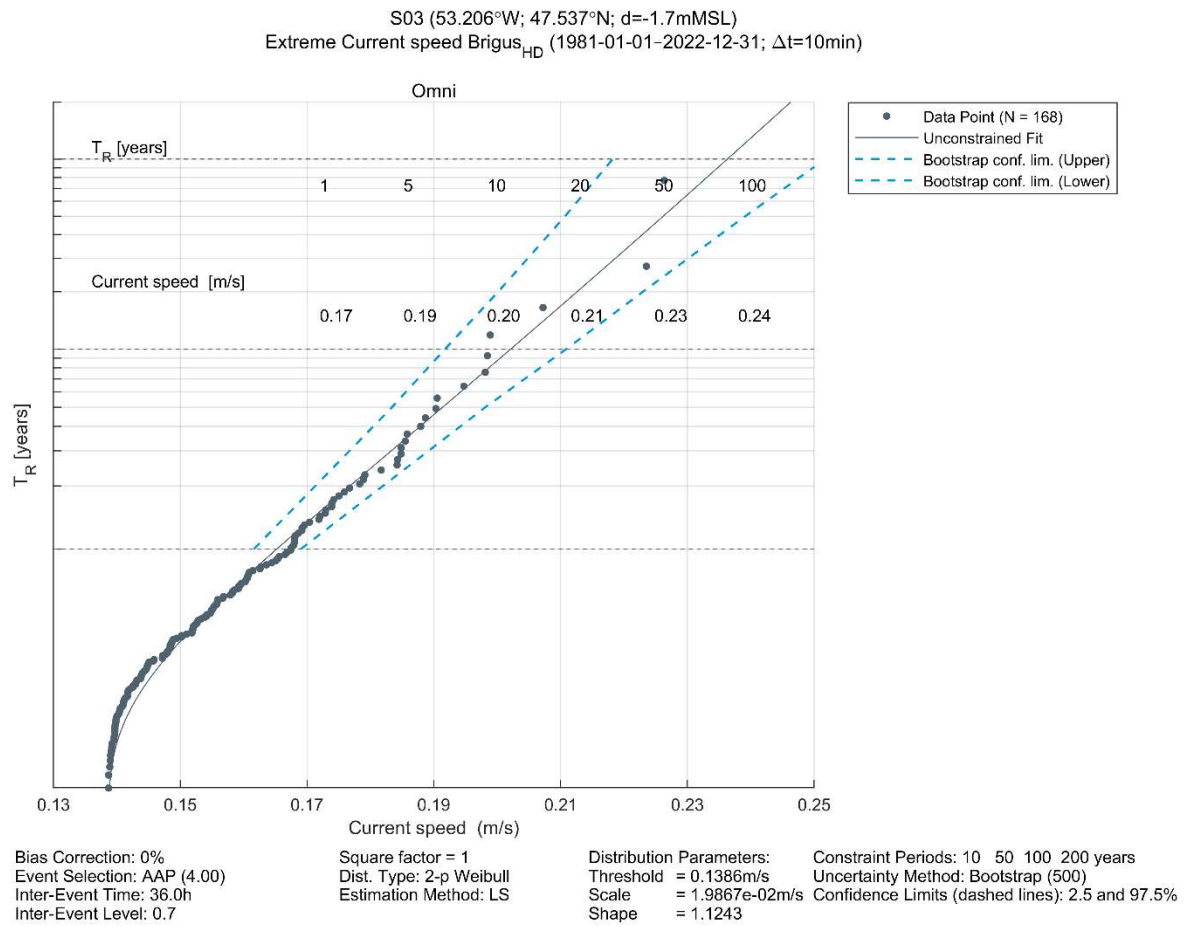


Figure 47: Depth averaged current speeds (m/s) EVA at Station 3, Brigus.

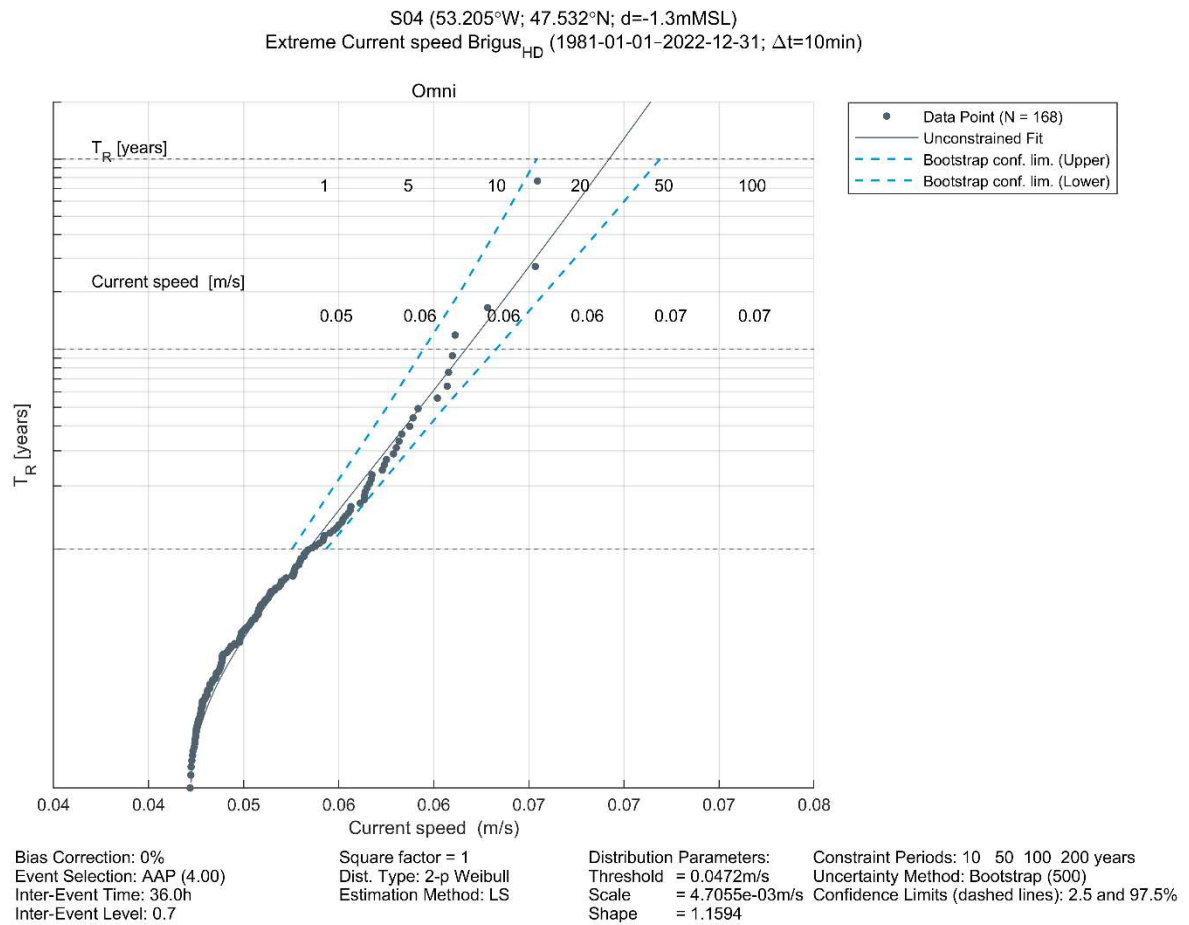


Figure 48: Depth averaged current speeds (m/s) EVA at Station 4, Brigus.

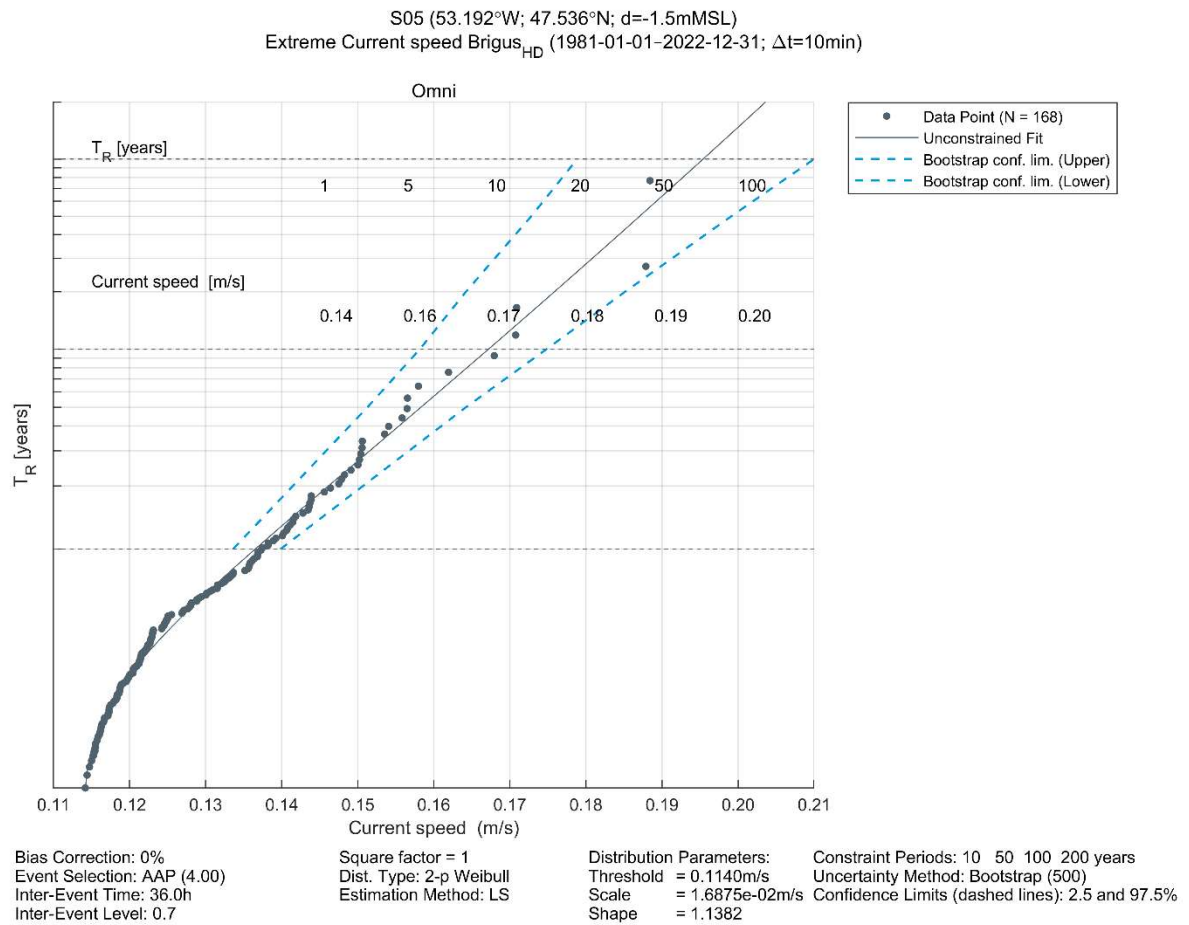


Figure 49: Depth averaged current speeds (m/s) EVA at Station 5, Brigus.

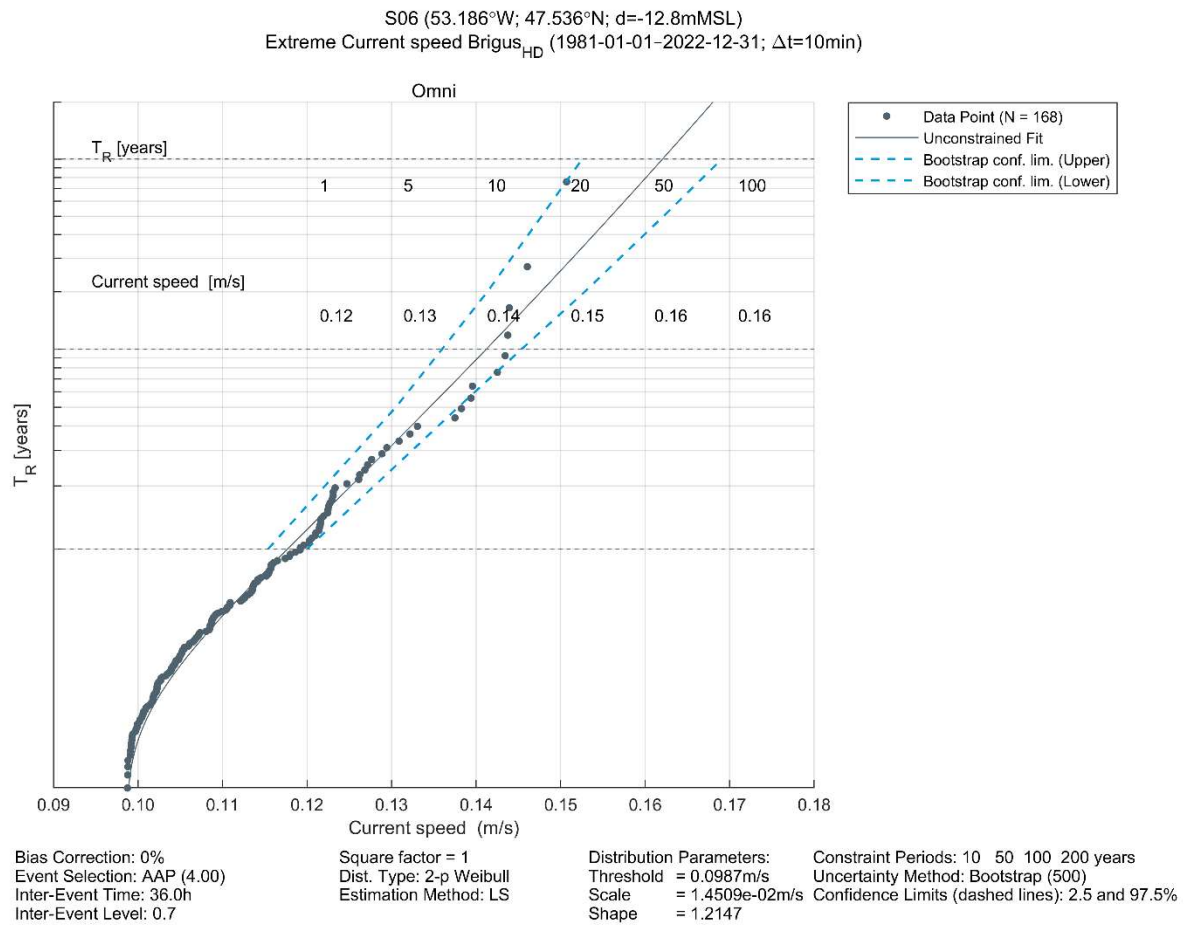


Figure 50: Depth averaged current speeds (m/s) EVA at Station 6, Brigus.

2.2 Ferryland Current Magnitudes

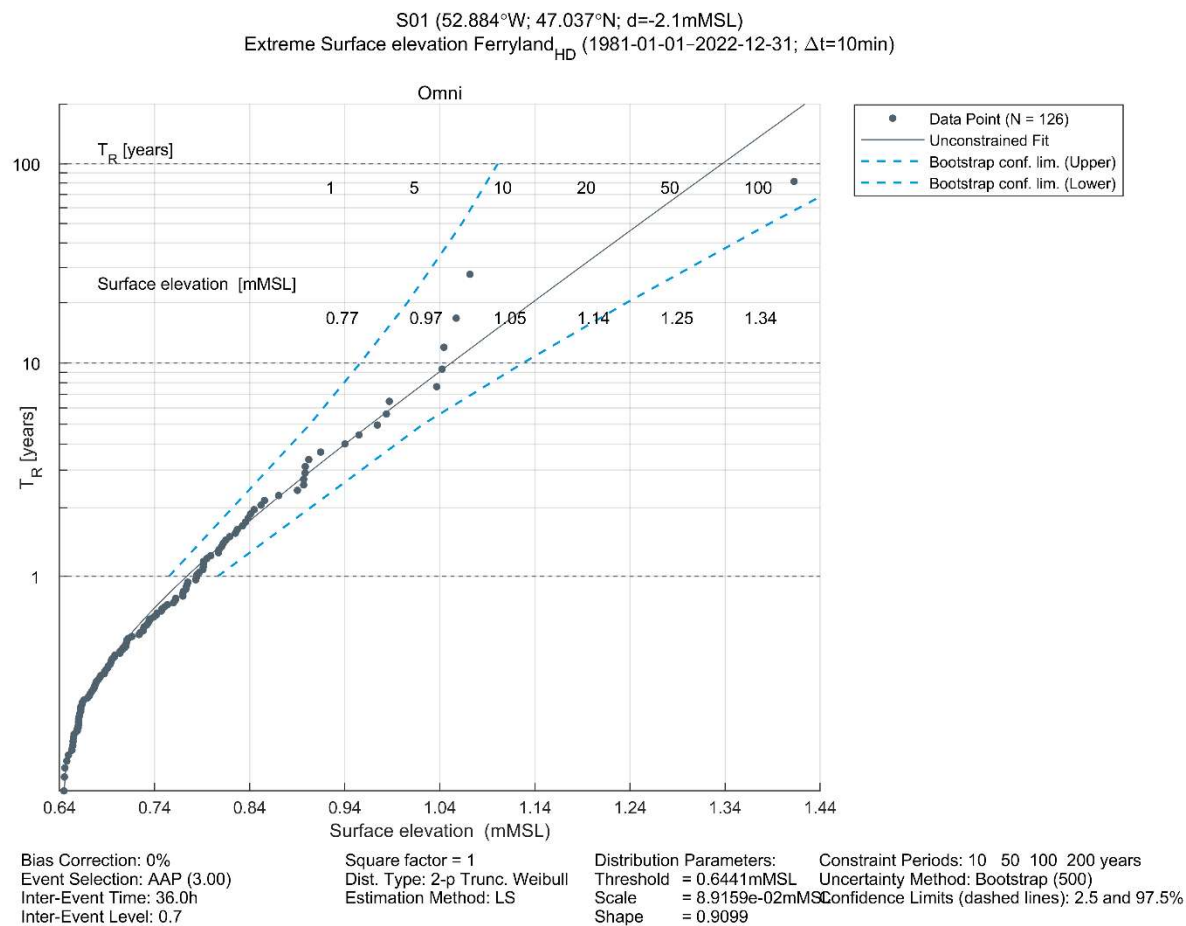


Figure 51: Total water level (m, CGVD2013) EVA at Station 1, Ferryland.

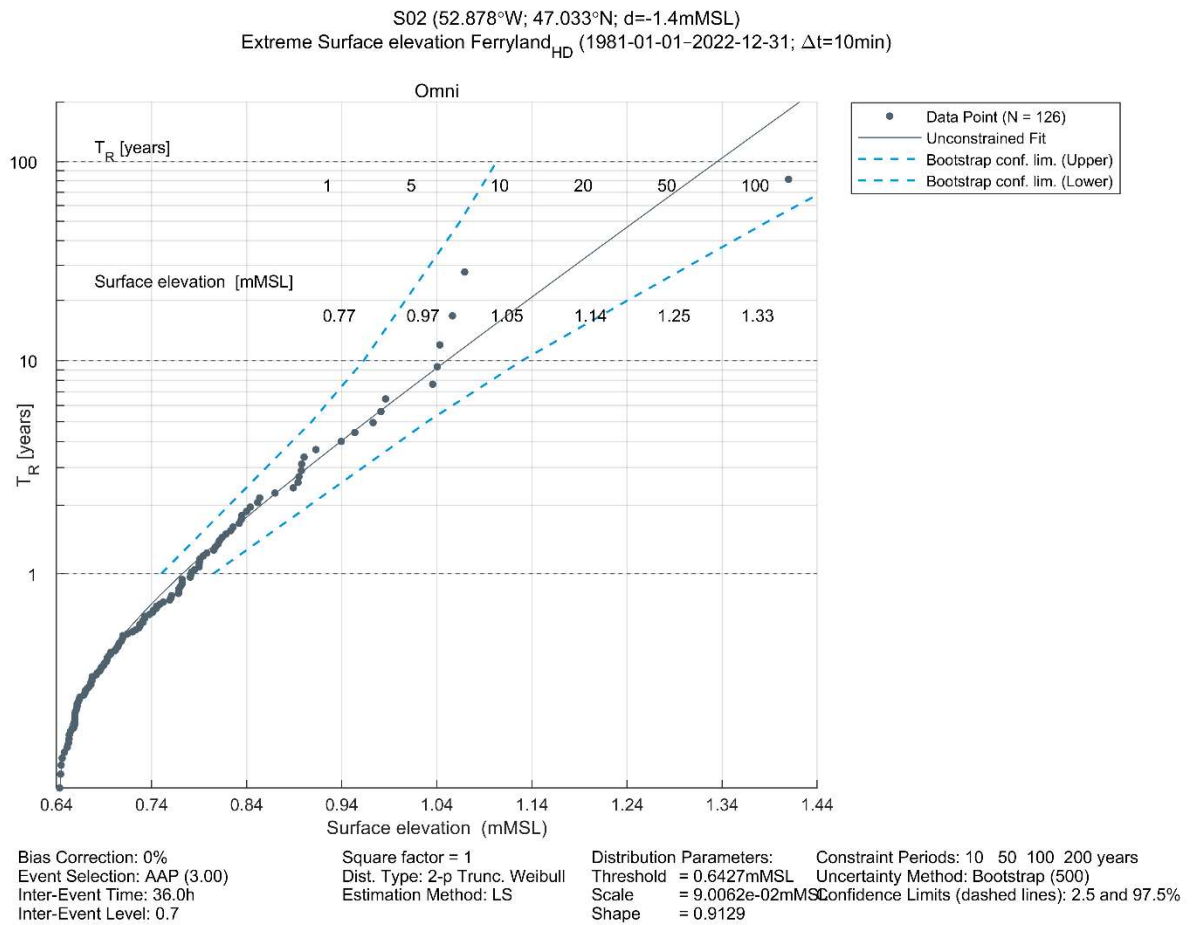


Figure 52: Total water level (m, CGVD2013) EVA at Station 2, Ferryland.

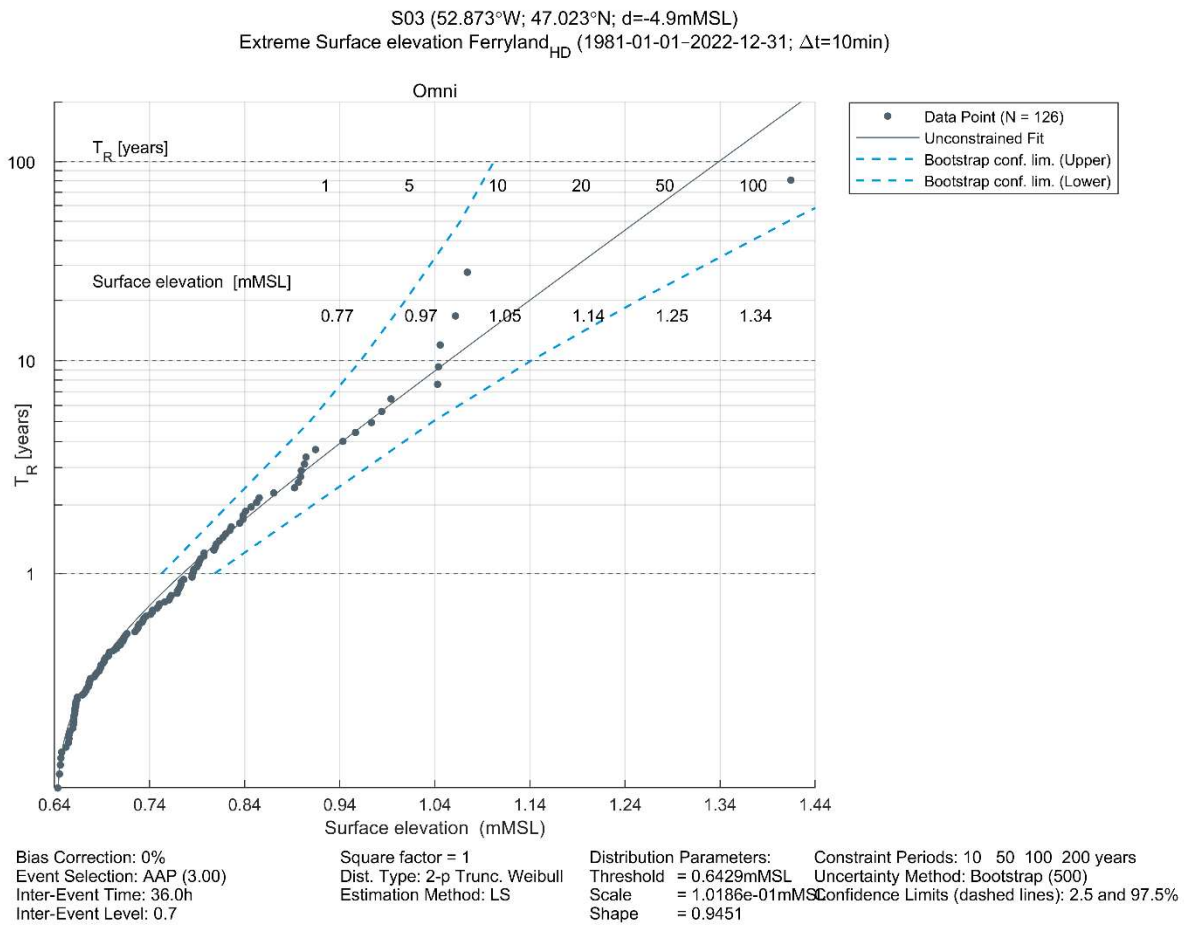


Figure 53: Total water level (m, CGVD2013) EVA at Station 3, Ferryland.

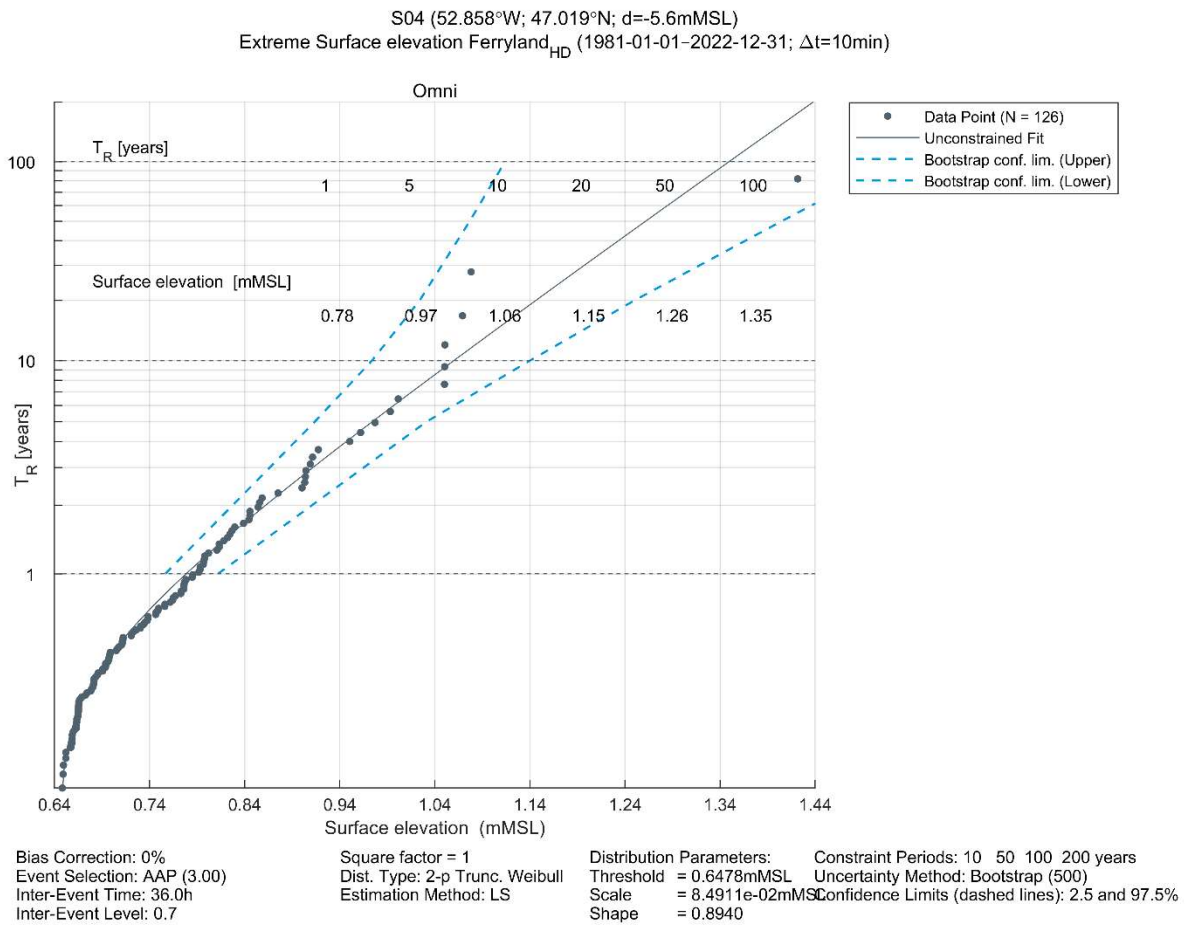


Figure 54: Total water level (m, CGVD2013) EVA at Station 4, Ferryland.

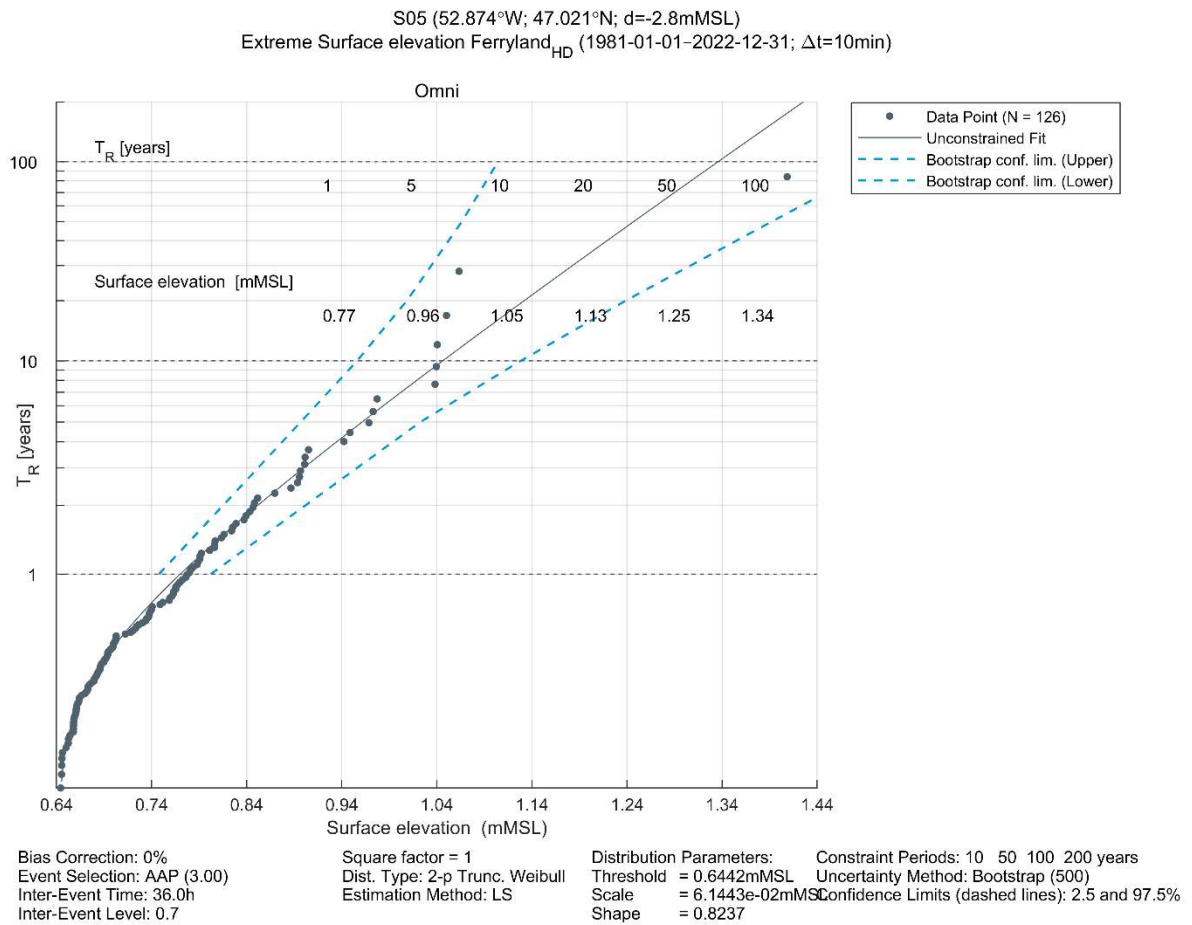


Figure 55: Total water level (m, CGVD2013) EVA at Station 5, Ferryland.

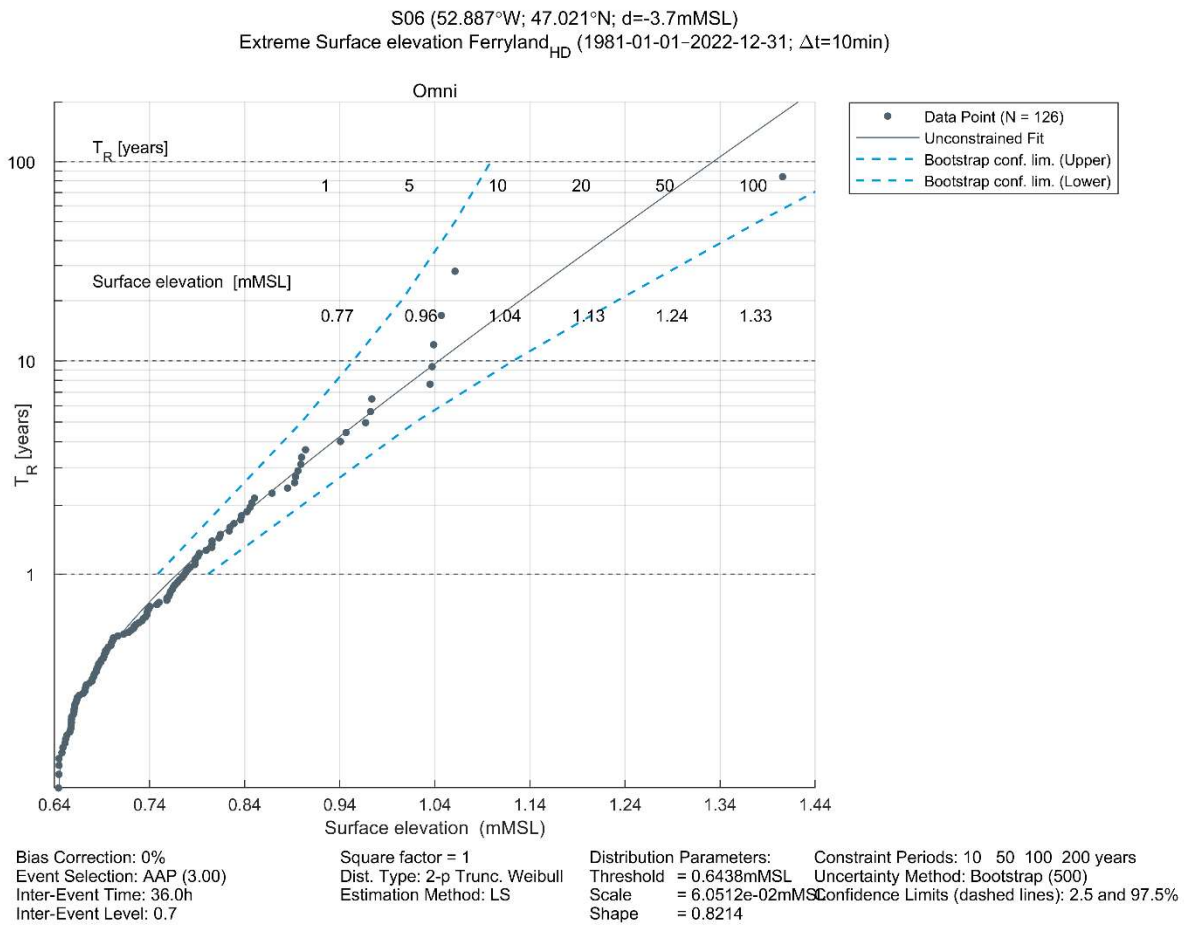


Figure 56: Total water level (m, CGVD2013) EVA at Station 6, Ferryland.

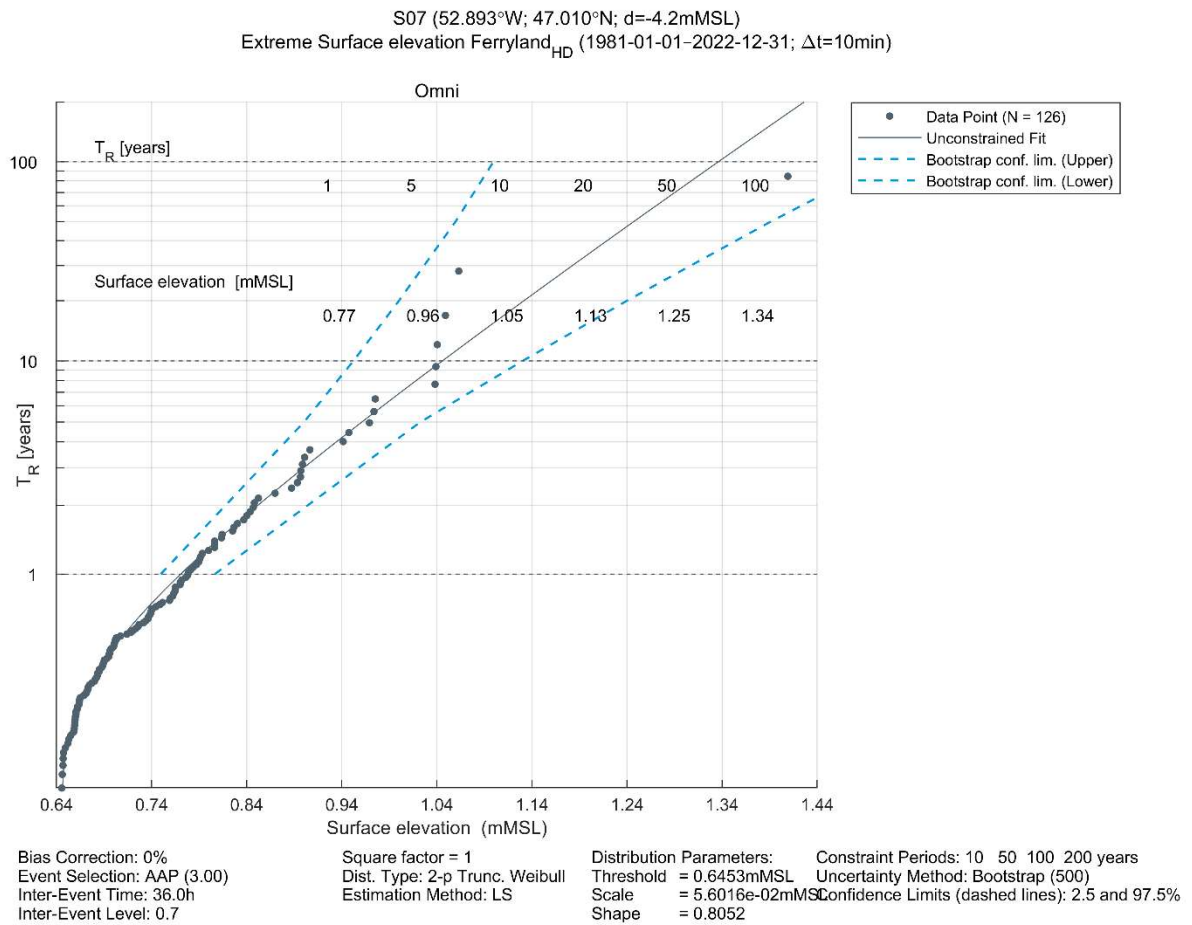


Figure 57: Total water level (m, CGVD2013) EVA at Station 7, Ferryland.

2.3 Ferryland Current Magnitudes

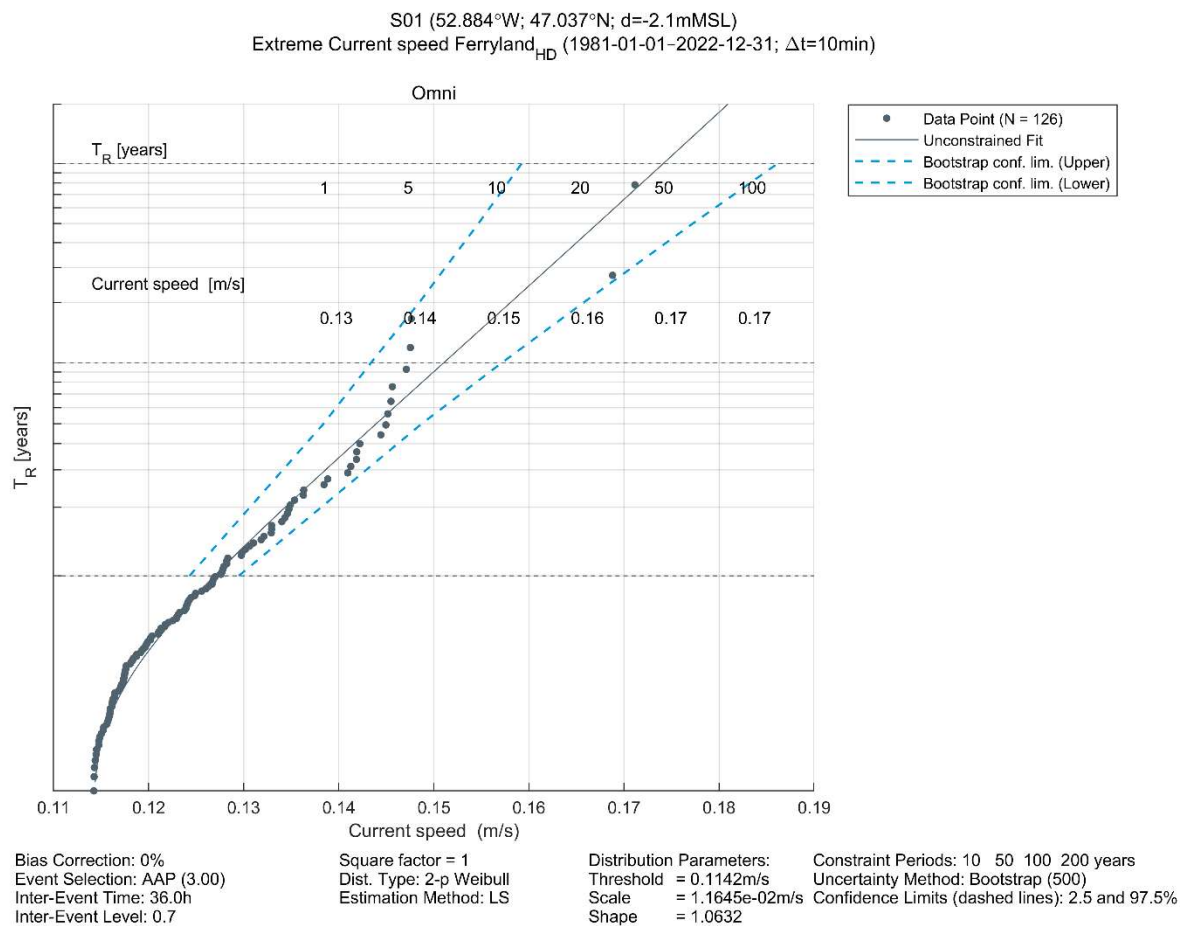


Figure 58: Depth averaged current speeds (m/s) EVA at Station 1, Ferryland.

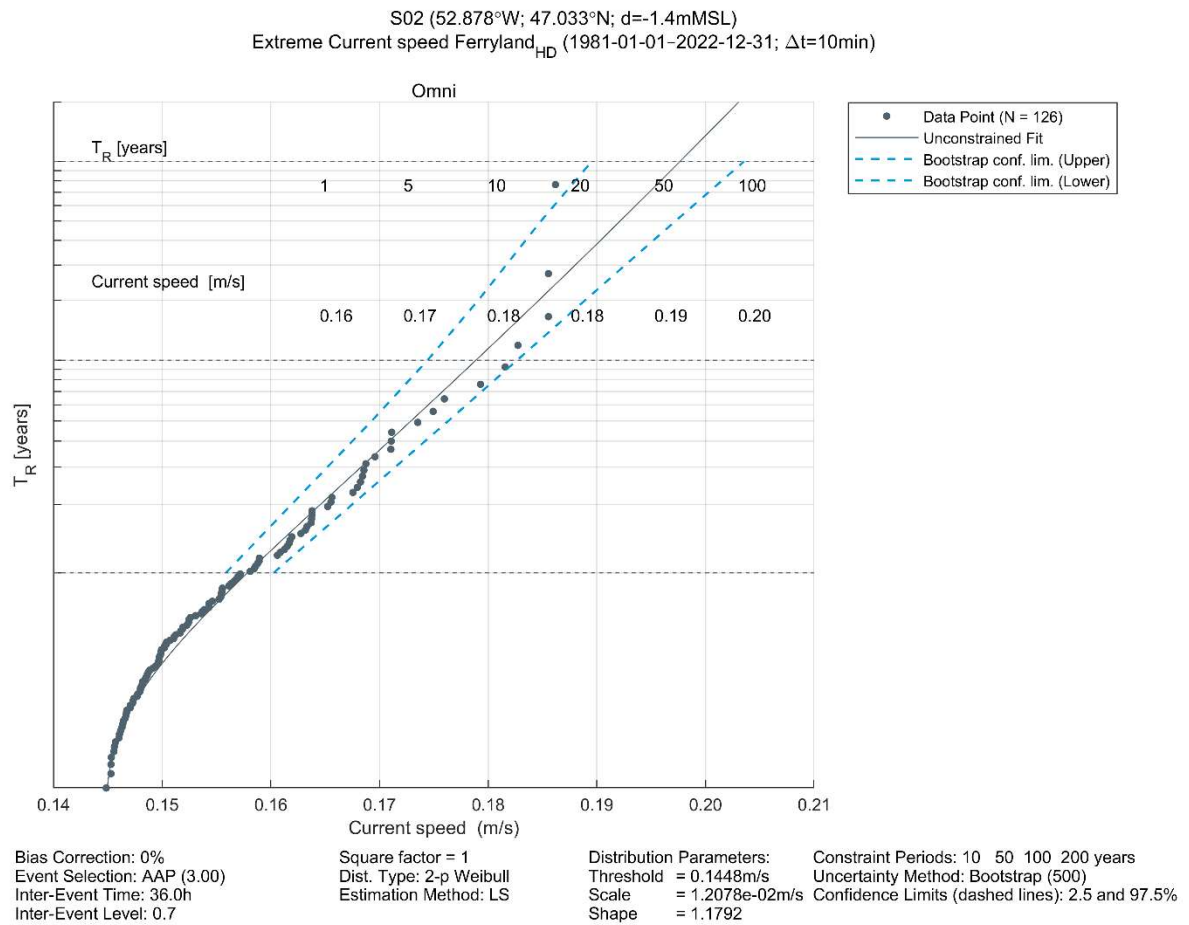


Figure 59: Depth averaged current speeds (m/s) EVA at Station 2, Ferryland.

Omni

T_R [years]

Current speed [m/s]

1 5 10 20 50 100

0.19 0.22 0.23 0.24 0.25 0.26

0.17 0.18 0.19 0.20 0.21 0.22 0.23 0.24 0.25 0.26 0.27

Current speed (m/s)

T_R [years]

• Data Point (N = 126)

— Unconstrained Fit

- - - Bootstrap conf. lim. (Upper)

- - - Bootstrap conf. lim. (Lower)

Bias Correction: 0%
 Event Selection: AAP (3.00)
 Inter-Event Time: 36.0h
 Inter-Event Level: 0.7

Square factor = 1
 Dist. Type: 2-p Weibull
 Estimation Method: LS

Distribution Parameters:
 Threshold = 0.1755m/s
 Scale = 1.7366e-02m/s
 Shape = 1.1274

Constraint Periods: 10 50 100 200 years
 Uncertainty Method: Bootstrap (500)
 Confidence Limits (dashed lines): 2.5 and 97.5%

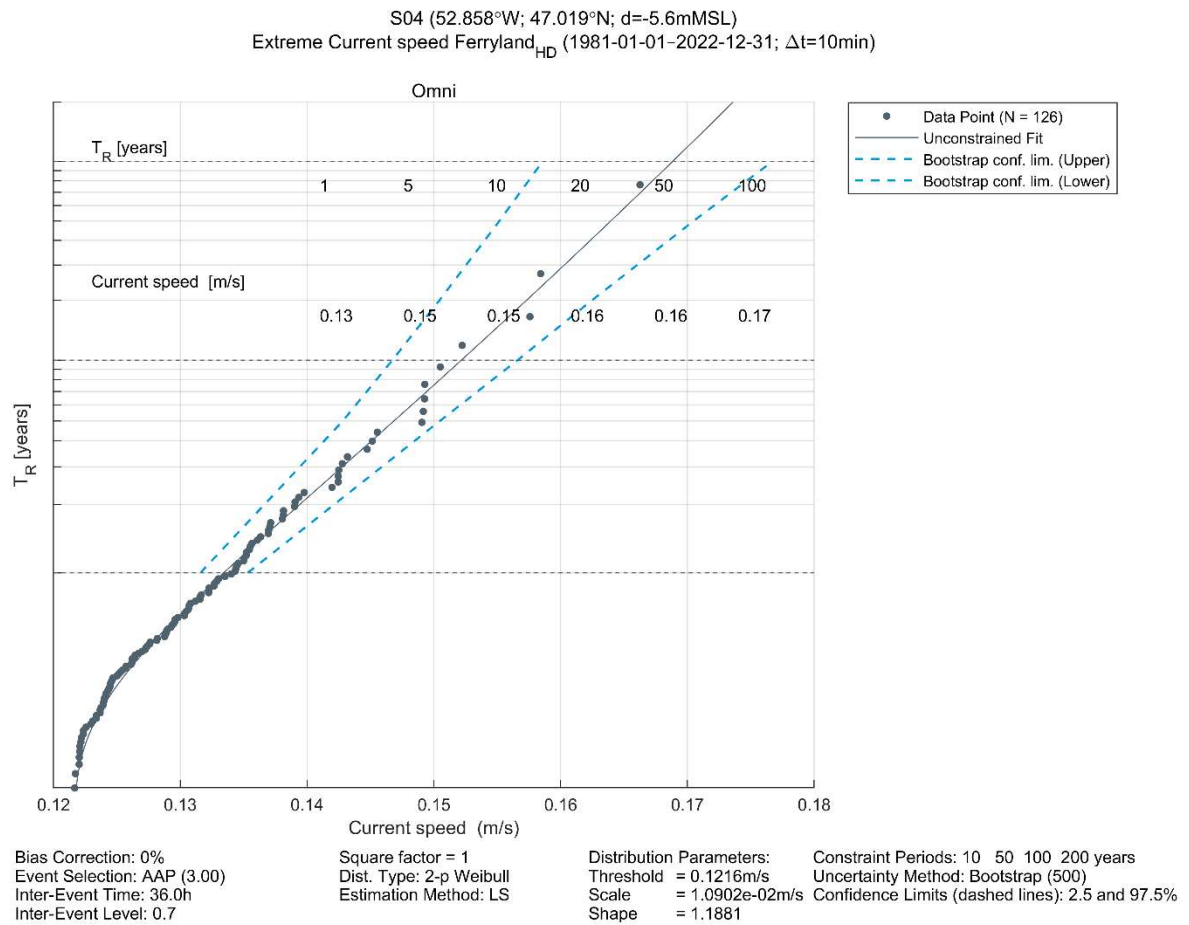


Figure 61: Depth averaged current speeds (m/s) EVA at Station 4, Ferryland.

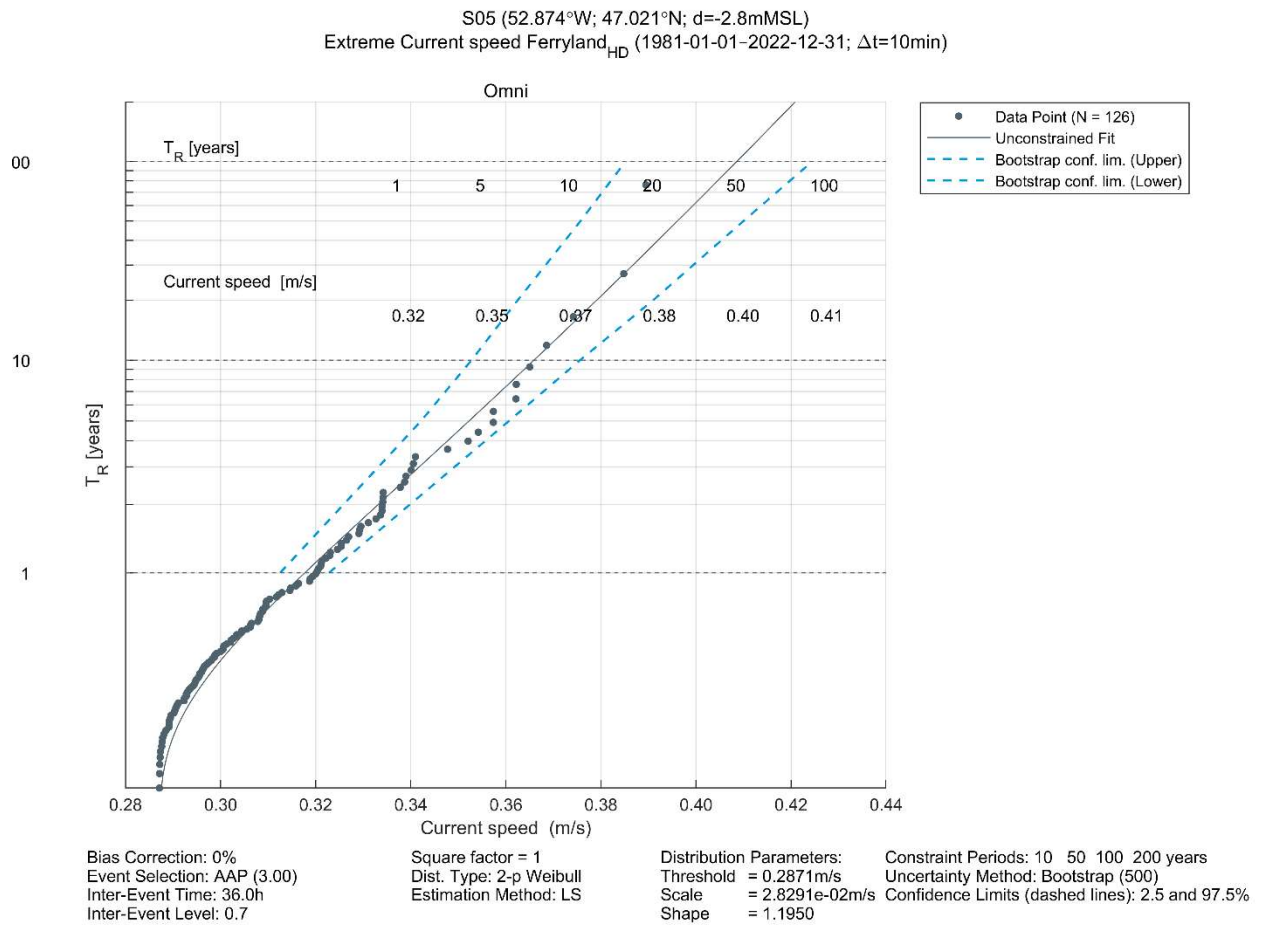


Figure 62: Depth averaged current speeds (m/s) EVA at Station 5, Ferryland.

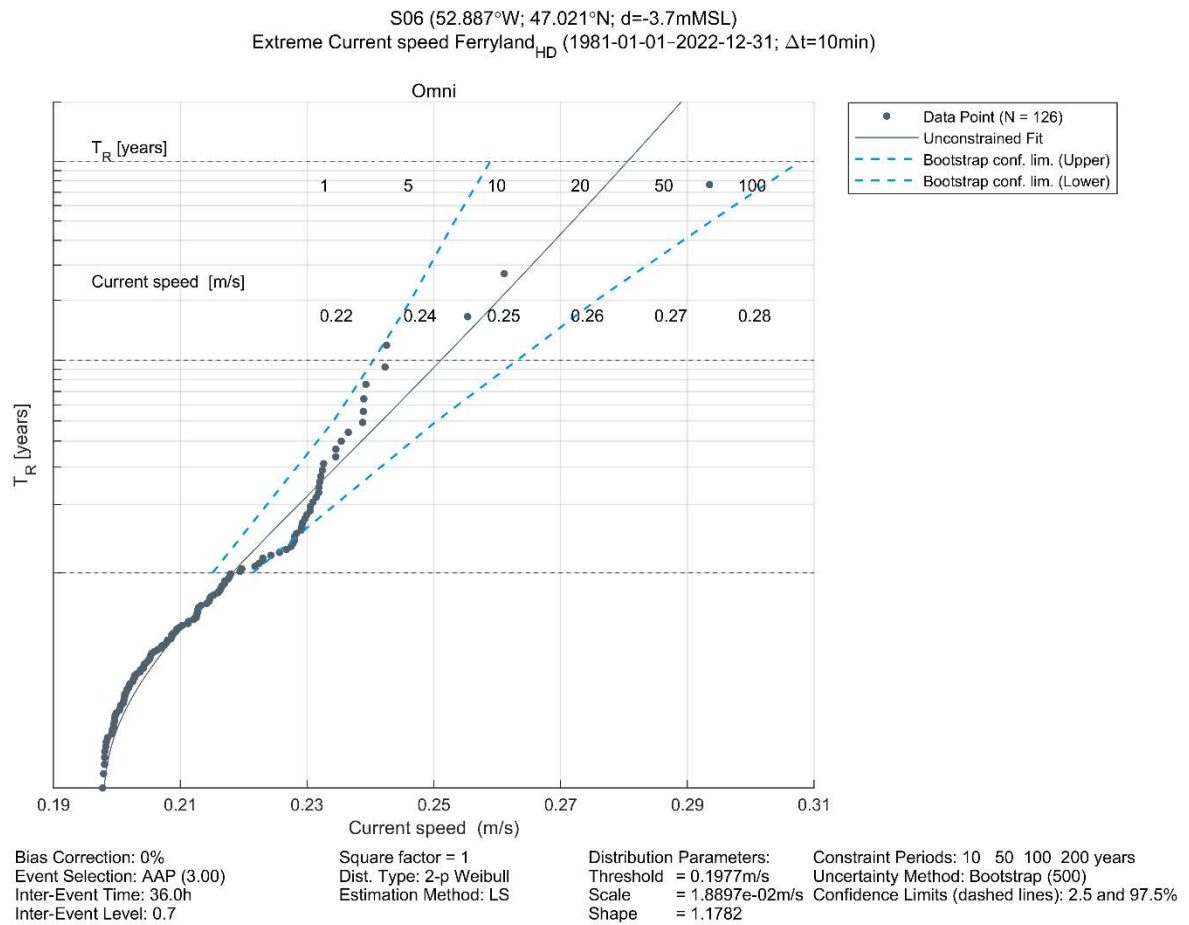


Figure 63: Depth averaged current speeds (m/s) EVA at Station 6, Ferryland.

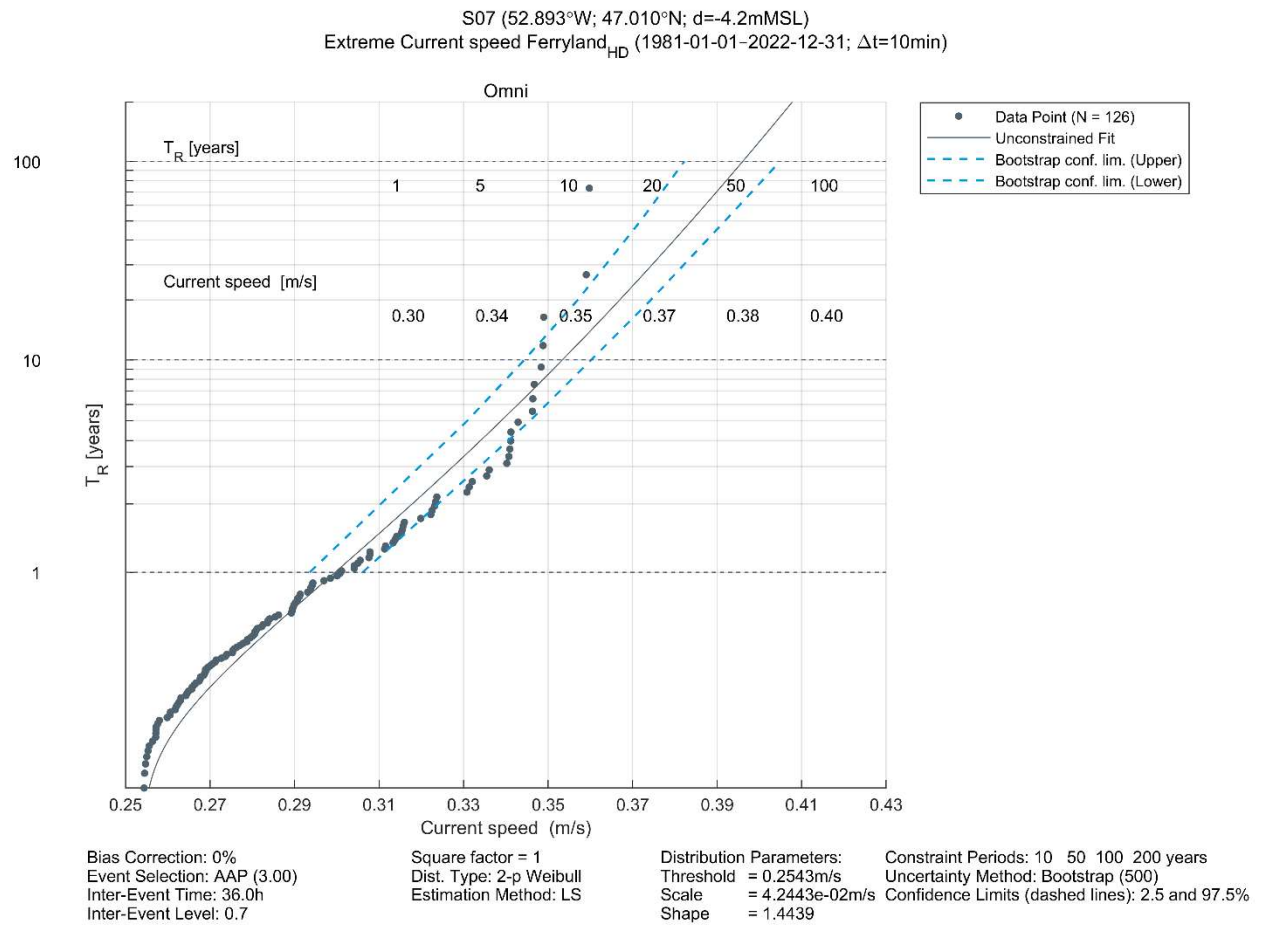


Figure 64: Depth averaged current speeds (m/s) EVA at Station 7, Ferryland.