Station   **5213B01**

Sens

n	97	Number of datapoints
N'	6786	Number of slopes
S	0	Median slope (Sen's slope estimate)
var(S)	180202	variance of S
M1	3043.847	Rank M1
Q(3043.84.	0	Lower confidence level of slopes
M2	3742.153	Rank M2
Q(3742.15.	0	Upper confidence level of slopes
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend rejected

Mann-Kendall

n	97	Number of datapoints
S	-571	Mann Kendall test statistic
Var(S)	102945.3	Variance
Z, z(1-a)	-1.7765, 1.	Normal approximation
Probability	0.0195	Probability of no trend
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Station   **5304G01**

n	32	Number of datapoints
N'	528	Number of slopes
S	0.0004	Median slope (Sen's slope estimate)
var(S)	4163.333	variance of S
M1	210.9291	Rank M1
Q(210.929.	-0.0031	Lower confidence level of slopes
M2	317.0709	Rank M2
Q(317.070.	0.0087	Upper confidence level of slopes
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend rejected

Mann-Kendall

n	32	Number of datapoints
S	36	Mann Kendall test statistic
Var(S)	3800.667	Variance
Z, z(1-a)	0.5677, 1.6	Normal approximation
Probability	0.2851	Probability of no trend
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend rejected

Station   **5307M01**

Sens

N'	666	Number of slopes
S	-0.0091	Median slope (Sen's slope estimate)
var(S)	5845	variance of S
M1	270.1177	Rank M1
Q(270.117.	-0.0117	Lower confidence level of slopes
M2	395.8823	Rank M2
Q(395.882.	-0.0064	Upper confidence level of slopes
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Mann-Kendall

n	36	Number of datapoints
S	-368	Mann Kendall test statistic
Var(S)	5389	Variance
Z, z(1-a)	-4.9993, 1.	Normal approximation
Probability	1.0254	Probability of no trend
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Station   **5415E03**

Sens

n	7	Number of datapoints
N'	21	Number of slopes
S	-0.014	Median slope (Sen's slope estimate)
var(S)	44.3333	variance of S
M1	5.0235	Rank M1
Q(5.0235)	-0.029	Lower confidence level of slopes
M2	15.9765	Rank M2
Q(15.9765)	-0.0004	Upper confidence level of slopes
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Mann-Kendall

n	7	Number of datapoints
S	-9	Mann Kendall test statistic
Var(S)	44.3333	Variance
Z, z(1-a)	-1.2015, 1.	Normal approximation
Probability	0.1128	Probability of no trend
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend rejected

Station   **5426L01**

n	121	Number of datapoints
N'	9591	Number of slopes
S	0	Median slope (Sen's slope estimate)
var(S)	301580.7	variance of S
M1	4343.813	Rank M1
Q(4343.813)	0	Lower confidence level of slopes
M2	5247.187	Rank M2
Q(5247.187)	0	Upper confidence level of slopes
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend rejected

Mann-Kendall

n	121	Number of datapoints
S	-256	Mann Kendall test statistic
Var(S)	199243.7	Variance
Z, z(1-a)	-0.5713, 1.	Normal approximation
Probability	0.2839	Probability of no trend
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend rejected

Station   **5427L01**

Sens

N'	3240	Number of slopes
S	-0.0025	Median slope (Sen's slope estimate)
var(S)	60119	variance of S
M1	1418.33	Rank M1
Q(1418.33)	-0.0113	Lower confidence level of slopes
M2	1821.67	Rank M2
Q(1821.67)	0	Upper confidence level of slopes
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend rejected

Mann-Kendall

n	73	Number of datapoints
S	-742	Mann Kendall test statistic
Var(S)	44091	Variance
Z, z(1-a)	-3.5289, 1.	Normal approximation
Probability	-3.0832	Probability of no trend
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Station	5308A02	
Sens		
n	87	Number of datapoints
S	0	Median slope (Sen's slope estimate)
var(S)	166746.3	variance of S
M1	2884.635	Rank M1
Q(2884.635)	0	Lower confidence level of slopes
M2	3556.365	Rank M2
Q(3556.365)	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	87	Number of datapoints
S	-1940	Mann Kendall test statistic
Var(S)	74400.34	Variance
Z, z(1-a)	-7.1087, 1.	Normal approximation
Probability	1	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	5308H01	
Sens		
n	38	Number of datapoints
S	-0.0062	Median slope (Sen's slope estimate)
var(S)	6832.667	variance of S
M1	302.5122	Rank M1
Q(302.5122)	-0.01	Lower confidence level of slopes
M2	438.4878	Rank M2
Q(438.4878)	-0.0016	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	
Mann-Kendall		
n	38	Number of datapoints
S	-211	Mann Kendall test statistic
Var(S)	6326	Variance
Z, z(1-a)	-2.6403, 1.	Normal approximation
Probability	-0.212	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	5310Q10	
Sens		
Variable	Value	Comment
n	19	Number of datapoints
S	-0.0111	Median slope (Sen's slope estimate)
var(S)	950	variance of S
M1	69.6489	Rank M1
Q(69.6489)	-0.0225	Lower confidence level of slopes
M2	120.3512	Rank M2
Q(120.3512)	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	19	Number of datapoints
S	-61	Mann Kendall test statistic
Var(S)	817	Variance
Z, z(1-a)	-2.0991, 1.	Normal approximation
Probability	-0.0315	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	5505D01	
Sens		
n	43	Number of datapoints
S	0.004	Median slope (Sen's slope estimate)
var(S)	9775.333	variance of S
M1	391.6792	Rank M1
Q(391.6792)	0	Lower confidence level of slopes
M2	554.3208	Rank M2
Q(554.3208)	0.01	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	43	Number of datapoints
S	140	Mann Kendall test statistic
Var(S)	9130.333	Variance
Z, z(1-a)	1.4547, 1.6	Normal approximation
Probability	0.0729	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	5507A01	
Sens		
n	46	Number of datapoints
S	-0.0012	Median slope (Sen's slope estimate)
var(S)	16054.33	variance of S
M1	558.7845	Rank M1
Q(558.7845)	-0.0033	Lower confidence level of slopes
M2	767.2155	Rank M2
Q(767.2155)	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	46	Number of datapoints
S	-409	Mann Kendall test statistic
Var(S)	11150	Variance
Z, z(1-a)	-3.8639, 1.	Normal approximation
Probability	-19.5856	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	5507H01	
Sens		
n	44	Number of datapoints
S	0	Median slope (Sen's slope estimate)
var(S)	11891	variance of S
M1	450.8098	Rank M1
Q(450.8098)	-0.0006	Lower confidence level of slopes
M2	630.1902	Rank M2
Q(630.1902)	0.0004	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	44	Number of datapoints
S	-7	Mann Kendall test statistic
Var(S)	9775.333	Variance
Z, z(1-a)	-0.0607, 1.	Normal approximation
Probability	0.4758	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	5311J05	
Sens		
n	51	Number of datapoints
N'	1326	Number of slopes
var(S)	16056.33	variance of S
M1	558.7781	Rank M1
Q(558.778)	-0.0053	Lower confidence level of slopes
M2	767.2219	Rank M2
Q(767.221)	-0.001	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	
Mann-Kendall		
n	51	Number of datapoints
S	-344	Mann Kendall test statistic
Var(S)	15155.33	Variance
Z, z(1-a)	-2.7862, 1.	Normal approximation
Probability	-0.3144	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	5311J07	
Sens		
n	48	Number of datapoints
N'	1275	Number of slopes
var(S)	15157.33	variance of S
M1	536.2378	Rank M1
Q(536.237)	-0.0041	Lower confidence level of slopes
M2	738.7622	Rank M2
Q(738.762)	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	48	Number of datapoints
S	-292	Mann Kendall test statistic
Var(S)	12657.67	Variance
Z, z(1-a)	-2.5865, 1.	Normal approximation
Probability	-0.1828	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	5312C01	
Sens		
n	39	Number of datapoints
N'	820	Number of slopes
var(S)	7926.667	variance of S
M1	336.7713	Rank M1
Q(336.771)	-0.0019	Lower confidence level of slopes
M2	483.2287	Rank M2
Q(483.228)	0.0015	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	39	Number of datapoints
S	-21	Mann Kendall test statistic
Var(S)	6833.667	Variance
Z, z(1-a)	-0.2419, 1.	Normal approximation
Probability	0.4044	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	5508M01	
Sens		
n	45	Number of datapoints
N'	1225	Number of slopes
var(S)	14290.67	variance of S
M1	514.1754	Rank M1
Q(514.1754)	-0.0004	Lower confidence level of slopes
M2	710.8246	Rank M2
Q(710.8246)	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	45	Number of datapoints
S	-149	Mann Kendall test statistic
Var(S)	10449	Variance
Z, z(1-a)	-1.4479, 1.	Normal approximation
Probability	0.0682	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	5508M02	
Sens		
n	48	Number of datapoints
N'	1326	Number of slopes
var(S)	16058.33	variance of S
M1	558.7716	Rank M1
Q(558.7716)	0	Lower confidence level of slopes
M2	767.2284	Rank M2
Q(767.2284)	0.0003	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	48	Number of datapoints
S	106	Mann Kendall test statistic
Var(S)	12657.67	Variance
Z, z(1-a)	0.9333, 1.6	Normal approximation
Probability	0.1754	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	5515C01	
Sens		
n	46	Number of datapoints
N'	1081	Number of slopes
var(S)	11891	variance of S
M1	450.8098	Rank M1
Q(450.8098)	-0.0183	Lower confidence level of slopes
M2	630.1902	Rank M2
Q(630.1902)	-0.0027	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	
Mann-Kendall		
n	46	Number of datapoints
S	-271	Mann Kendall test statistic
Var(S)	11155	Variance
Z, z(1-a)	-2.5564, 1.	Normal approximation
Probability	-0.1681	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station 5312H01

Sens

Variable	Value	Comment
n	101	Number of datapoints
S	0.0002	Median slope (Sen's slope estimate)
var(S)	199244.7	variance of S
M1	3262.862	Rank M1
Q(3262.862	0	Lower confidence level of slopes
M2	3997.138	Rank M2
Q(3997.138	0.0029	Upper confidence level of slopes
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend rejected

Mann-Kendall

n	101	Number of datapoints
S	2274	Mann Kendall test statistic
Var(S)	116148	Variance
Z, z(1-a)	6.6695, 1.6	Normal approximation
Probability	0	Probability of no trend
Result		Hypothesis of increasing trend accepted
		Hypothesis of decreasing trend rejected

Station 5315L01

Sens

n	39	Number of datapoints
N'	780	Number of slopes
S	-0.0162	Median slope (Sen's slope estimate)
M1	319.4054	Rank M1
Q(319.4054	-0.0191	Lower confidence level of slopes
M2	460.5946	Rank M2
Q(460.5946	-0.013	Upper confidence level of slopes
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Mann-Kendall

n	39	Number of datapoints
S	-461	Mann Kendall test statistic
Var(S)	6833.667	Variance
Z, z(1-a)	-5.5646, 1.0	Normal approximation
Probability	1.0001	Probability of no trend
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Station 5322A01

Sens

n	53	Number of datapoints
N'	1540	Number of slopes
S	-0.0146	Median slope (Sen's slope estimate)
M1	653.6257	Rank M1
Q(653.6257	-0.02	Lower confidence level of slopes
M2	886.3743	Rank M2
Q(886.3743	-0.01	Upper confidence level of slopes
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Mann-Kendall

n	53	Number of datapoints
S	-685	Mann Kendall test statistic
Var(S)	16994.33	Variance
Z, z(1-a)	-5.2469, 1.0	Normal approximation
Probability	1.0016	Probability of no trend
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Station 5517D05

Sens

n	56	Number of datapoints
S	-0.0054	Median slope (Sen's slope estimate)
var(S)	20019	variance of S
M1	653.6257	Rank M1
Q(653.6257)	-0.0084	Lower confidence level of slopes
M2	886.3743	Rank M2
Q(886.3743)	-0.0028	Upper confidence level of slopes
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Mann-Kendall

n	56	Number of datapoints
S	-471	Mann Kendall test statistic
Var(S)	20019	Variance
Z, z(1-a)	-3.3218, 1.0	Normal approximation
Probability	-1.4563	Probability of no trend
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Station 5518R01

Sens

n	56	Number of datapoints
N'	2211	Number of slopes
S	0	Median slope (Sen's slope estimate)
M1	953.5095	Rank M1
Q(953.5095)	-0.0051	Lower confidence level of slopes
M2	1257.49	Rank M2
Q(1257.49)	0	Upper confidence level of slopes
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend rejected

Mann-Kendall

n	56	Number of datapoints
S	-548	Mann Kendall test statistic
Var(S)	20020	Variance
Z, z(1-a)	-3.8659, 1.0	Normal approximation
Probability	-19.9061	Probability of no trend
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Station 6211K01

Sens

n	43	Number of datapoints
N'	1176	Number of slopes
S	-0.0043	Median slope (Sen's slope estimate)
M1	492.5841	Rank M1
Q(492.5841)	-0.0067	Lower confidence level of slopes
M2	683.4159	Rank M2
Q(683.4159)	-0.0008	Upper confidence level of slopes
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Mann-Kendall

n	43	Number of datapoints
S	-499	Mann Kendall test statistic
Var(S)	9129.333	Variance
Z, z(1-a)	-5.2121, 1.0	Normal approximation
Probability	1.0024	Probability of no trend
Result		Hypothesis of increasing trend rejected
		Hypothesis of decreasing trend accepted

Station	**5322A03**	
Sens		
n	50	Number of datapoints
N'	1225	Number of slopes
S	-0.0203	Median slope (Sen's slope estimate)
M1	514.172	Rank M1
Q(514.172)	-0.0244	Lower confidence level of slopes
M2	710.828	Rank M2
Q(710.828)	-0.0171	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	
Mann-Kendall		
n	50	Number of datapoints
S	-697	Mann Kendall test statistic
Var(S)	14291.67	Variance
Z, z(1-a)	-5.8219, 1.	Normal approximation
Probability	1	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	**5322F01**	
Sens		
n	96	Number of datapoints
N'	9730	Number of slopes
S	0	Median slope (Sen's slope estimate)
var(S)	308116.7	variance of S
Q(4408.44	0	Lower confidence level of slopes
M2	5321.555	Rank M2
Q(5321.55	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	96	Number of datapoints
S	-1033	Mann Kendall test statistic
Var(S)	99813.34	Variance
Z, z(1-a)	-3.2665, 1.	Normal approximation
Probability	-1.2201	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	**53230E01**	
Sens		
n	33	Number of datapoints
N'	561	Number of slopes
S	-0.0358	Median slope (Sen's slope estimate)
var(S)	4550.333	variance of S
Q(225.017	-0.05	Lower confidence level of slopes
M2	335.9827	Rank M2
Q(335.982	-0.0185	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	
Mann-Kendall		
n	33	Number of datapoints
S	-217	Mann Kendall test statistic
Var(S)	4165.333	Variance
Z, z(1-a)	-3.3468, 1.	Normal approximation
Probability	-1.5815	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	**6320D01**	
Sens		
n	36	Number of datapoints
N'	1225	Number of slopes
S	0	Median slope (Sen's slope estimate)
M1	514.1823	Rank M1
Q(514.1823)	0	Lower confidence level of slopes
M2	710.8177	Rank M2
Q(710.8177)	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	36	Number of datapoints
S	-109	Mann Kendall test statistic
Var(S)	5387	Variance
Z, z(1-a)	-1.4715, 1.	Normal approximation
Probability	0.0644	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	**6327N04**	
Sens		
n	30	Number of datapoints
N'	465	Number of slopes
S	-0.0118	Median slope (Sen's slope estimate)
var(S)	3461.667	variance of S
Q(184.1075)	-0.034	Lower confidence level of slopes
M2	280.8925	Rank M2
Q(280.8925)	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	30	Number of datapoints
S	-107	Mann Kendall test statistic
Var(S)	3141.667	Variance
Z, z(1-a)	-1.8911, 1.	Normal approximation
Probability	0.0029	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	**6328H01**	
Sens		
n	50	Number of datapoints
N'	1540	Number of slopes
S	0	Median slope (Sen's slope estimate)
var(S)	20018	variance of S
Q(653.6286)	0	Lower confidence level of slopes
M2	886.3714	Rank M2
Q(886.3714)	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	50	Number of datapoints
S	-91	Mann Kendall test statistic
Var(S)	14289.67	Variance
Z, z(1-a)	-0.7529, 1.	Normal approximation
Probability	0.2256	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	5324G01	
Sens		
n	106	Number of datapoints
N'	9730	Number of slopes
S	0	Median slope (Sen's slope estimate)
var(S)	308115.7	variance of S
Q(4408.44!	0	Lower confidence level of slopes
M2	5321.555	Rank M2
Q(5321.55!	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	106	Number of datapoints
S	-420	Mann Kendall test statistic
Var(S)	134177.3	Variance
Z, z(1-a)	-1.1439, 1.	Normal approximation
Probability	0.1248	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	6330J01	
Sens		
n	35	Number of datapoints
N'	630	Number of slopes
S	-0.01	Median slope (Sen's slope estimate)
var(S)	5390	variance of S
Q(254.6148)	-0.015	Lower confidence level of slopes
M2	375.3852	Rank M2
Q(375.3852)	-0.005	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	
Mann-Kendall		
n	35	Number of datapoints
S	-237	Mann Kendall test statistic
Var(S)	4958.333	Variance
Z, z(1-a)	-3.3515, 1.	Normal approximation
Probability	-1.6068	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	5404A01	
Sens		
n	7	Number of datapoints
N'	36	Number of slopes
S	0	Median slope (Sen's slope estimate)
var(S)	91	variance of S
Q(10.1539)	0	Lower confidence level of slopes
M2	25.8462	Rank M2
Q(25.8462)	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	7	Number of datapoints
S	2	Mann Kendall test statistic
Var(S)	43.3333	Variance
Z, z(1-a)	0.1519, 1.6	Normal approximation
Probability	0.4396	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	6331J01	
Sens		
n	31	Number of datapoints
N'	528	Number of slopes
S	-0.0067	Median slope (Sen's slope estimate)
var(S)	4165.333	variance of S
Q(210.9164)	-0.0088	Lower confidence level of slopes
M2	317.0836	Rank M2
Q(317.0836)	-0.0043	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	
Mann-Kendall		
n	31	Number of datapoints
S	-251	Mann Kendall test statistic
Var(S)	3461.667	Variance
Z, z(1-a)	-4.2491, 1.	Normal approximation
Probability	-60593.19	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	5405K01	
Sens		
n	25	Number of datapoints
N'	496	Number of slopes
S	0	Median slope (Sen's slope estimate)
var(S)	3802.667	variance of S
Q(197.279!	0	Lower confidence level of slopes
M2	298.7201	Rank M2
Q(298.720'	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	25	Number of datapoints
S	-37	Mann Kendall test statistic
Var(S)	1833.333	Variance
Z, z(1-a)	-0.8408, 1.	Normal approximation
Probability	0.2	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	6436N01	
Sens		
n	10	Number of datapoints
N'	45	Number of slopes
S	-0.04	Median slope (Sen's slope estimate)
var(S)	125	variance of S
Q(13.3042)	-0.475	Lower confidence level of slopes
M2	31.6958	Rank M2
Q(31.6958)	0.23	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	10	Number of datapoints
S	-1	Mann Kendall test statistic
Var(S)	125	Variance
Z, z(1-a)	0.00, 1.645	Normal approximation
Probability	0.5	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	5407C01	
Sens		
n	22	Number of datapoints
N'	703	Number of slopes
S	0	Median slope (Sen's slope estimate)
var(S)	6327	variance of S
Q(286.0764	0	Lower confidence level of slopes
M2	416.9236	Rank M2
Q(416.9236	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	22	Number of datapoints
S	91	Mann Kendall test statistic
Var(S)	1257.667	Variance
Z, z(1-a)	2.5378, 1.6	Normal approximation
Probability	0.0056	Probability of no trend
Result	Hypothesis of increasing trend accepted	
	Hypothesis of decreasing trend rejected	

Station	5408N01	
Sens		
n	67	Number of datapoints
N'	3003	Number of slopes
S	0	Median slope (Sen's slope estimate)
M1	1310.866	Rank M1
Q(1310.866	-0.0037	Lower confidence level of slopes
M2	1692.134	Rank M2
Q(1692.134	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	67	Number of datapoints
S	-768	Mann Kendall test statistic
Var(S)	34146.67	Variance
Z, z(1-a)	-4.1507, 1.	Normal approximation
Probability	-1048.062	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	5409C02	
Sens		
n	22	Number of datapoints
N'	253	Number of slopes
S	0	Median slope (Sen's slope estimate)
M1	95.357	Rank M1
Q(95.357)	-0.0071	Lower confidence level of slopes
M2	157.643	Rank M2
Q(157.643)	0.0029	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	22	Number of datapoints
S	-3	Mann Kendall test statistic
Var(S)	1257.667	Variance
Z, z(1-a)	-0.0564, 1.	Normal approximation
Probability	0.4775	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	6524R01	
Sens		
n	36	Number of datapoints
N'	630	Number of slopes
S	-0.0098	Median slope (Sen's slope estimate)
var(S)	5390	variance of S
Q(254.6148)	-0.0188	Lower confidence level of slopes
M2	375.3852	Rank M2
Q(375.3852)	-0.0005	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	
Mann-Kendall		
n	36	Number of datapoints
S	-126	Mann Kendall test statistic
Var(S)	5390	Variance
Z, z(1-a)	-1.7026, 1.	Normal approximation
Probability	0.03	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	6524R01	
Sens		
n	36	Number of datapoints
N'	630	Number of slopes
S	-0.0098	Median slope (Sen's slope estimate)
M1	254.6148	Rank M1
Q(254.6148)	-0.0188	Lower confidence level of slopes
M2	375.3852	Rank M2
Q(375.3852)	-0.0005	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	
Mann-Kendall		
n	36	Number of datapoints
S	-126	Mann Kendall test statistic
Var(S)	5390	Variance
Z, z(1-a)	-1.7026, 1.	Normal approximation
Probability	0.03	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	6525R01	
Sens		
n	44	Number of datapoints
N'	990	Number of slopes
S	-0.0068	Median slope (Sen's slope estimate)
M1	410.9197	Rank M1
Q(410.9197)	-0.0089	Lower confidence level of slopes
M2	579.0803	Rank M2
Q(579.0803)	-0.005	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	
Mann-Kendall		
n	44	Number of datapoints
S	-565	Mann Kendall test statistic
Var(S)	9775.333	Variance
Z, z(1-a)	-5.7044, 1.	Normal approximation
Probability	1	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	5411R02	
Sens		
n	45	Number of datapoints
N'	1176	Number of slopes
S	-0.0033	Median slope (Sen's slope estimate)
M1	492.5841	Rank M1
Q(492.584)	-0.0056	Lower confidence level of slopes
M2	683.4159	Rank M2
Q(683.415)	-0.0006	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	
Mann-Kendall		
n	45	Number of datapoints
S	-411	Mann Kendall test statistic
Var(S)	10449	Variance
Z, z(1-a)	-4.0109, 1.	Normal approximation
Probability	-84.3016	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	5411R03	
Sens		
n	45	Number of datapoints
N'	1081	Number of slopes
S	-0.0049	Median slope (Sen's slope estimate)
M1	450.8098	Rank M1
Q(450.809)	-0.0074	Lower confidence level of slopes
M2	630.1902	Rank M2
Q(630.190)	-0.0024	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	
Mann-Kendall		
n	45	Number of datapoints
S	-413	Mann Kendall test statistic
Var(S)	10450	Variance
Z, z(1-a)	-4.0303, 1.	Normal approximation
Probability	-108.9554	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend accepted	

Station	5411R04	
Sens		
n	44	Number of datapoints
N'	1081	Number of slopes
S	0	Median slope (Sen's slope estimate)
M1	450.8098	Rank M1
Q(450.809)	-0.0051	Lower confidence level of slopes
M2	630.1902	Rank M2
Q(630.190)	0	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	44	Number of datapoints
S	-120	Mann Kendall test statistic
Var(S)	9775.333	Variance
Z, z(1-a)	-1.2036, 1.	Normal approximation
Probability	0.1124	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	6631M04	
Sens		
n	68	Number of datapoints
N'	2415	Number of slopes
S	0	Median slope (Sen's slope estimate)
M1	1045.264	Rank M1
Q(1045.264)	-0.0009	Lower confidence level of slopes
M2	1369.736	Rank M2
Q(1369.736)	0.0011	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	68	Number of datapoints
S	-9	Mann Kendall test statistic
Var(S)	35686.67	Variance
Z, z(1-a)	-0.0423, 1.	Normal approximation
Probability	0.4831	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	

Station	6631M07	
Sens		
n	45	Number of datapoints
N'	1035	Number of slopes
S	0	Median slope (Sen's slope estimate)
M1	430.6337	Rank M1
Q(430.6337)	-0.0027	Lower confidence level of slopes
M2	604.3663	Rank M2
Q(604.3663)	0.002	Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	
Mann-Kendall		
n	45	Number of datapoints
S	-29	Mann Kendall test statistic
Var(S)	10449	Variance
Z, z(1-a)	-0.2739, 1.	Normal approximation
Probability	0.3921	Probability of no trend
Result	Hypothesis of increasing trend rejected	
	Hypothesis of decreasing trend rejected	