Station 5213B01	Station	5415E03
Sens	Sens	
n 97 Number of datapoints	n	7 Number of datapoints
N' 6786 Number of slopes	N'	21 Number of slopes
S 0 Median slope (Sen's slope estimate)	S	-0.014 Median slope (Sen's slope estimate)
var(S) 180202 variance of S	var(S)	44.3333 variance of S
M1 3043.847 Rank M1	M1	5.0235 Rank M1
Q(3043.84) 0 Lower confidence level of slopes	Q(5.0235)	-0.029 Lower confidence level of slopes
M2 3742.153 Rank M2	M2	15.9765 Rank M2
Q(3742.15: 0 Upper confidence level of slopes	Q(15.9765)	-0.0004 Upper confidence level of slopes
Result Hypothesis of increasing trend rejected	Result	Hypothesis of increasing trend rejected
Hypothesis of decreasing trend rejected		Hypothesis of decreasing trend accepted
Mann-Kendall	Mann-Kendall	51 6 1
n 97 Number of datapoints	n	7 Number of datapoints
S -571 Mann Kendall test statistic	S	-9 Mann Kendall test statistic
Var(S) 102945.3 Variance	Var(S)	44.3333 Variance
Z. z(1-a) -1.7765. 1. Normal approximation	Z. z(1-a)	-1.2015. 1. Normal approximation
Probability 0.0195 Probability of no trend	Probability	0.1128 Probability of no trend
Result Hypothesis of increasing trend rejected	Result	Hypothesis of increasing trend rejected
Hypothesis of decreasing trend accepted		Hypothesis of decreasing trend rejected
Station 5304G01	Station	5426L01
n 32 Number of datapoints	n	121 Number of datapoints
N' 528 Number of slopes	N'	9591 Number of slopes
S 0.0004 Median slope (Sen's slope estimate)	S	0 Median slope (Sen's slope estimate)
var(S) 4163.333 variance of S	var(S)	301580.7 variance of S
M1 210 9291 Rank M1	M1	4343 813 Rank M1
Q(210.929 -0.0031 Lower confidence level of slopes	Q(4343,813)	0 Lower confidence level of slopes
M2 317.0709 Rank M2	M2	5247.187 Rank M2
Q(317.070) 0.0087 Upper confidence level of slopes	Q(5247,187)	0 Upper confidence level of slopes
Result Hypothesis of increasing trend rejected	Result	Hypothesis of increasing trend rejected
Hypothesis of decreasing trend rejected	iteeun	Hypothesis of decreasing trend rejected
Mann-Kendall	Mann-Kendall	
n 32 Number of datapoints	n	121 Number of datapoints
S 36 Mann Kendall test statistic	S	-256 Mann Kendall test statistic
Var(S) 3800.667 Variance	Var(S)	199243.7 Variance
Z. z(1-a) 0.5677. 1.6 Normal approximation	Z. z(1-a)	-0.5713. 1. Normal approximation
Probability 0.2851 Probability of no trend	Probability	0.2839 Probability of no trend
Result Hypothesis of increasing trend rejected	Result	Hypothesis of increasing trend rejected
Hypothesis of decreasing trend rejected		Hypothesis of decreasing trend rejected
Station 5307M01	Station	5427L01
Sens	Sens	
N' 666 Number of slopes	N'	3240 Number of slopes
S -0.0091 Median slope (Sen's slope estimate)	S	-0.0025 Median slope (Sen's slope estimate)
var(S) 5845 variance of S	var(S)	60119 variance of S
M1 270.1177 Rank M1	M1	1418.33 Rank M1
Q(270.117 -0.0117 Lower confidence level of slopes	Q(1418.33)	-0.0113 Lower confidence level of slopes
M2 395.8823 Rank M2	M2	1821.67 Rank M2
Q(395.882: -0.0064 Upper confidence level of slopes	Q(1821.67)	0 Upper confidence level of slopes
Result Hypothesis of increasing trend rejected	Result	Hypothesis of increasing trend rejected
Hypothesis of decreasing trend accepted		Hypothesis of decreasing trend rejected
Mann-Kendall	Mann-Kendall	,, ,
n 36 Number of datapoints	n	73 Number of datapoints
S -368 Mann Kendall test statistic	S	-742 Mann Kendall test statistic
Var(S) 5389 Variance	Var(S)	44091 Variance
Z, z(1-a) -4.9993, 1. Normal approximation	Z, z(1-a)	-3.5289, 1. Normal approximation
Probability 1.0254 Probability of no trend	Probability	-3.0832 Probability of no trend
Result Hypothesis of increasing trend rejected	Result	Hypothesis of increasing trend rejected
Hypothesis of decreasing trend accepted		Hypothesis of decreasing trend accepted

Station	5308A02	
Sens		
n	87	Number of datapoints
\$	0	Median slope (Sen's slope estimate)
U Vor(S)	166746.2	voriance of S
Var(S)	100740.3	Dank M4
M1	2884.635	Rank M1
Q(2884.63	÷ 0	Lower confidence level of slopes
M2	3556.365	Rank M2
Q(3556.36	؛ O	Upper confidence level of slopes
Result	Hypothesis	of increasing trend rejected
	Hypothesis	of decreasing trend rejected
Mann-Kon	dall	of decreasing trond rejected
n n	07	Number of detensints
0	07	
5	-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	5308401	
Sono	33001101	
Sens		Number of detensists
n 0	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(302.512	-0.01	Lower confidence level of slopes
M2	438.4878	Rank M2
0(438 187	-0.0016	Upper confidence level of slopes
Q(400.407		of increasing trend rejected
Result	Hypothesis	of increasing trend rejected
	Hypothesis	of decreasing trend accepted
Mann-Ken	dall	
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
Pocult		of increasing trend rejected
Result	Hypothesis	
	Hypothesis	or 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)	0.0111	variance of S
vai(3)	950	
IVI1	69.6489	Kank M1
Q(69.6489	, -0.0225	Lower confidence level of slopes
M2	120.3512	Rank M2
Q(120.351	: 0	Upper confidence level of slopes
Result	Hypothesis	of increasing trend rejected
	Hypothesis	of decreasing trend rejected
Moon Kar	dall	or accreasing trend rejected
wann-Ken	udli	Number of dataset is
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
Result	Lunothacia	of doorooping trond opported
	rigpoinesis	or 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
$O(391\ 6792)$	0 Lower confidence level of slopes
M2	554 3208 Rank M2
$\Omega(554, 3208)$	0.01 Linner confidence level of slopes
Q(004.0200) Pocult	Hypothesis of increasing trend rejected
Nesul	Hypothesis of decreasing trend rejected
Mann Kondall	Hypothesis of decreasing trend rejected
n n n n n n n n n n n n n n n n n n n	12 Number of detensints
11	43 Number of datapoints
5 \/ar(0)	140 Mann Kendali test statistic
var(S)	
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	44 Marshan - Calatan state
n	44 Number of datapoints
e	0 Madian slana (San's slana astimata)
S Vor(S)	11901 variance of S
Var(3)	450 2002 Book M1
	450.0090 Ralik Wi
Q(450.6096) M2	620 1002 Bank M2
	0.0004 Linner confidence level of elence
Q(030.1902)	Unathenia of increasing trend rejected
Result	Hypothesis of decreasing trend rejected
Monn Kondoll	Hypothesis of decreasing trend rejected
n n	44 Number of detensints
11	7 Mann Kandall test statistic
Jor(S)	
var(3)	9//0.000 Valiance
$\angle, \angle(1-d)$	-0.0007, LINOIMAI APPIOXIMATION
Propability	U.4758 PIUDADIIILY UF NO TIEND
Result	nypomesis of increasing trend rejected
	mypothesis 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-Kend		
n	51	Number of datapoints
S Var(C)	-344	Mann Kendali test statistic
Var(S)	15155.33	Variance
Z, Z(1-a)	-2.7862, 1.0	Normal approximation
Probability	-0.3144	of increasing trend rejected
Nesull	Hypothesis	of decreasing trend accepted
Station	Fight 107	or decreasing trend accepted
Sons	5511507	
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-Kend	dall	
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
01-11-11	Hypothesis	of decreasing trend accepted
Station	5312C01	
Sells n	20	Number of datapoints
N'	29	Number of slopes
var(S)	7926 667	variance of S
M1	336 7713	Rank M1
Q(336 771	-0.0019	l ower 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-Kend	dall	<u> </u>
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)	U Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected
Mann-Kendall	Hypothesis of decreasing trend rejected
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
	556.77 16 Kalik Mi
Q(556.7710) M2	767 2284 Pank M2
$\Omega(767, 2284)$	0.0003 Upper confidence level of slopes
Result	Hypothesis of increasing trend rejected
Roodit	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
<b>•</b> • • •	Hypothesis of decreasing trend rejected
Station	5515C01
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
5	-2/1 Mann Kendall test statistic
var(S)	11155 Variance
∠, ∠(1-a) Probability	-2.0004, LINOIMALAPPIOXIMATION
Regult	Hypothesis of increasing trend rejected
NESUIL	Hypothesis of decreasing trend accented
	rypointesis or decreasing rend accepted

Station	5312H01		Station	5517D05
Sens			Sens	
Variable	Value	Comment	n	56 Number of datapoints
n	101	Number of datapoints		
S	0.0002	Median slope (Sen's slope estimate)	S	-0.0054 Median slope (Sen's slope estimate)
var(S)	199244.7	variance of S	var(S)	20019 variance of S
M1	3262.862	Rank M1	M1	653.6257 Rank M1
Q(3262.86)	: O	Lower confidence level of slopes	Q(653.6257)	-0.0084 Lower confidence level of slopes
M2	3997,138	Rank M2	M2	886.3743 Rank M2
0(3997 13	0 0029	Inner confidence level of slopes	O(886, 3743)	-0.0028 Lipper confidence level of slopes
Result	Hypothesis	of increasing trend rejected	Result	Hypothesis of increasing trend rejected
Result	Hypothesis	of decreasing trend rejected	Result	Hypothesis of decreasing trend accented
Moon Kon	doll	of decreasing trend rejected	Mann Kandall	Typolitesis of decreasing trend accepted
	uali 101	Number of dotonointo		EC Number of detensints
0	101	Number of datapoints	n 0	56 Number of datapoints
S	2274	Mann Kendall test statistic	S	-4/1 Mann Kendall test statistic
Var(S)	116148	Variance	Var(S)	20019 Variance
Z, z(1-a)	6.6695, 1.6	Normal approximation	Z, z(1-a)	-3.3218, 1. Normal approximation
Probability	0	Probability of no trend	Probability	<ul> <li>-1.4563 Probability of no trend</li> </ul>
Result	Hypothesis	of increasing trend accepted	Result	Hypothesis of increasing trend rejected
	Hypothesis	s of decreasing trend rejected		Hypothesis of decreasing trend accepted
Station	5315L01		Station	5518R01
Sens			Sens	
n	39	Number of datapoints	n	56 Number of datapoints
N'	780	Number of slopes	N'	2211 Number of slopes
S	-0.0162	Median slope (Sen's slope estimate)	S	0 Median slope (Sen's slope estimate)
M1	319 4054	Rank M1	М1	953 5095 Rank M1
0(319 /05	, _0 0101	l ower confidence level of slopes	$\Omega(953, 5095)$	-0.0051 Lower confidence level of slopes
Q(010.400	460 5046	Ponk M2	Q(300.0030) M2	1257 40 Book M2
	400.5940	Nalik Wiz		1257.49 Kalik WZ
Q(460.594	· -0.013	opper confidence level of slopes	Q(1257.49)	U Opper confidence level of slopes
Result	Hypothesis	of increasing trend rejected	Result	Hypothesis of increasing trend rejected
	Hypothesis	s of decreasing trend accepted		Hypothesis of decreasing trend rejected
Mann-Keno	dall		Mann-Kendall	
n	39	Number of datapoints	n	56 Number of datapoints
S	-461	Mann Kendall test statistic	S	-548 Mann Kendall test statistic
Var(S)	6833.667	Variance	Var(S)	20020 Variance
Z, z(1-a)	-5.5646, 1.	Normal approximation	Z, z(1-a)	-3.8659, 1. Normal approximation
Probability	1.0001	Probability of no trend	Probability	-19.9061 Probability of no trend
Result	Hypothesis	of increasing trend rejected	Result	Hypothesis of increasing trend rejected
	Hypothesis	of decreasing trend accepted		Hypothesis of decreasing trend accepted
Station	5322A01	3	Station	6211K01
Sens			Sens	
n	53	Number of datapoints	n	43 Number of datapoints
N'	1540	Number of slopes	NI'	1176 Number of slopes
6	0.0146	Median clone (Sen's clone estimate)	8	0.0042 Median clone (Son's clone estimate)
3 M4	-0.0140	Denk M1	5 M4	402 5944 Derk M4
	000.0207			
Q(653.625	-0.02	Lower confidence level of slopes	Q(492.5841)	-0.0067 Lower confidence level of slopes
M2	886.3743	Rank M2	M2	683.4159 Rank M2
Q(886.374	: -0.01	Upper confidence level of slopes	Q(683.4159)	-0.0008 Upper confidence level of slopes
Result	Hypothesis	s of increasing trend rejected	Result	Hypothesis of increasing trend rejected
	Hypothesis	of decreasing trend accepted		Hypothesis of decreasing trend accepted
Mann-Keno	dall		Mann-Kendall	
n	53	Number of datapoints	n	43 Number of datapoints
S	-685	Mann Kendall test statistic	S	-499 Mann Kendall test statistic
Var(S)	16994.33	Variance	Var(S)	9129.333 Variance
Z. z(1-a)	-5.2469 1	Normal approximation	Z. z(1-a)	-5.2121. 1. Normal approximation
Probability	1 0016	Probability of no trend	Probability	1.0024 Probability of no trend
Result	Hypothesis	of increasing trend rejected	Result	Hypothesis of increasing trend rejected
	Hypothesis	of decreasing trend accented	·····	Hypothesis of decreasing trend accented
	, poulooio	a. aboroading trona abooptou	l	

Station	5322A03	
Sens		
n	50	Number of datapoints
N'	1225	Number of slopes
0	0 0202	Madian alana (San'a alana astimata)
М4	-0.0203	Deak M4
	514.172	
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-Kend	dall	5 1
n	50	Number of datapoints
S	-697	Mann Kendall test statistic
Var(S)	1/201 67	Variance
7 - (4 - 3)	5 0040 4	Normal approximation
∠, ∠(1-a)	-5.0219, 1.1	normal approximation
Propability	1	Propability of no trend
Result	Hypothesis	or 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
0(4408 444	000110.7	Lower confidence level of slopes
M2	5221 555	Pook M2
	0021.000	Lanar confidence level of elence
Q(5521.55;	0	Opper confidence level of slopes
Result	Hypotnesis	of increasing trend rejected
	Hypothesis	of decreasing trend rejected
Mann-Kend	dall	
n	96	Number of datapoints
S	-1033	Mann Kendall test statistic
Var(S)	99813.34	Variance
Z. z(1-a)	-3.2665. 1.1	Normal approximation
Probability	-1,2201	Probability of no trend
Result	Hypothesis	of increasing trend rejected
. count	Hypothesic	of decreasing trend accepted
Station	52220E04	or decreasing rend accepted
Station	53230E01	
Sens		Nevel an effeter of f
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 accented
Mann-Kong	1.17pouriooio 1all	or accreating from accepted
	າດແ	Number of datapoints
0	33	None Kendell test statistic
3	-21/	IVIANN KENDAII 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	51/ 1823 Pank M1
O(514, 1823)	0 Lower confidence level of slones
M2	710 9177 Book M2
Q(710.8177)	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
7 z(1-a)	-1 8911 1 Normal approximation
Probability	0.0029 Probability of no trend
Result	Hypothesis of increasing trend rejected
rtooun	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
rtooun	Hypothesis of decreasing trend rejected
Mann-Kendall	
n	50 Number of datapoints
S	-91 Mann Kendall test statistic
Var(S)	14289 67 Variance
$7_{7(1-a)}$	-0.7529 1 Normal approximation
Probability	0 2256 Probability of no trend
Result	Hypothesis of increasing trend rejected
i toouit	Hypothesis of decreasing trend rejected

Station	5324G01	
Sens		
n	106	Number of datapoints
NĽ	0720	Number of clance
IN .	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
0(5321 55)	/ 00211000	I Inner confidence level of slopes
Q(0021.00	. U	opper confidence level of slopes
Result	Hypothesis	of increasing trend rejected
	Hypothesis	of decreasing trend rejected
Mann-Kend	dall	
n	106	Number of datapoints
s	-420	Mann Kendall test statistic
Vor(S)	12/177.2	Varianco
	134177.3	Vallance
Z, z(1-a)	-1.1439, 1.0	Normal approximation
Probability	0.1248	Probability of no trend
Result	Hypothesis	of increasing trend rejected
	Hypothesis	of decreasing trend rejected
Station	5404401	
Sone	~~~~~	
Sens	-	Neverlage of states a late
n 	1	inumber of datapoints
N'	36	Number of slopes
S	0	Median slope (Sen's slope estimate
var(S)	91	variance of S
$\Omega(10, 1530)$		I ower confidence level of slopes
M2	25 9462	Ponk M2
	25.0402	
Q(25.8462	) 0	Upper confidence level of slopes
Result	Hypothesis	of increasing trend rejected
	Hypothesis	of decreasing trend rejected
Mann-Kend	dall	<b>U</b> <i>I</i>
n	7	Number of datapoints
с. С	. 2	Mann Kondall tost statistic
U(C)	40,0000	
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
Ctotion	EADEKO4	of decreasing trend rejected
Station	5405KU1	
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
Val(0)	, 3002.007	
Q(197.279	· · · · · · · · · · · · · · · · · · ·	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 Kon	Aall	
wann-ken		
n	25	Number of datapoints
S	-37	Mann Kendall test statistic
Var(S)	1833.333	Variance
7. z(1-a)	-0.8408 1	Normal approximation
$\underline{-}, \underline{-}(\underline{-}, \underline{a})$	0.0100, 1.	Probability of no trand
F TODADIIILY	0.2	
Result	Hypothesis	or increasing trend rejected
	Hypothesis	of decreasing trend rejected

Station	6330J01
Sens	
n	35 Number of datapoints
N'	630 Number of slopes
0	0.01 Medien elene (Sente elene estimate)
3	
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
	33 Number of datapoints
3	
Var(S)	4958.333 Variance
Z, z(1-a)	-3.3515, 1. Normal approximation
Probability	<ul> <li>-1.6068 Probability of no trend</li> </ul>
Result	Hypothesis of increasing trend rejected
	Hypothesis of decreasing trend accepted
Station	6331, J01
Sens	
n	31 Number of datapoints
NI'	51 Number of datapoints
	526 Number of slopes
S	-0.0067 Median slope (Sen's slope estimate)
var(S)	4165.333 variance of S
Q(210.9164)	<ul> <li>-0.0088 Lower confidence level of slopes</li> </ul>
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
6	251 Mann Kondall tost statistic
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	6436N01
Sens	
n	10 Number of datapoints
N'	45 Number of slopes
9	-0.04 Median slope (Sen's slope estimate)
	105 verience of C
var(S)	125 variance of S
Q(13.3042)	-0.4/5 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 Kondall test statistic
var(S)	
∠, 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
N 0	703	Madian along (San's along actimate
3	0	Median slope (Sen's slope estimate
var(S)	6327	variance of S
Q(286.076	" O	Lower confidence level of slopes
M2	416.9236	Rank M2
Q(416.923	0	Upper confidence level of slopes
Result	Hypothesis	of increasing trend rejected
	Hypothesis	of decreasing trend rejected
Mann-Kend	dall	
n	2011 22	Number of datapoints
с С	01	Monn Kondoll toot atatiatio
3	91	
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	<b>č</b> ,
Sens		
n	67	Number of datapoints
 N'	2002	Number of slopes
	3003	Median elene (Sen's elene estimate
5	0	Median slope (Sen's slope estimate
M1	1310.866	Rank M1
Q(1310.86	-0.0037	Lower confidence level of slopes
M2	1692.134	Rank M2
Q(1692.13	<u> </u>	Upper confidence level of slopes
Result	Hypothesis	of increasing trend rejected
	Hypothesis	of decreasing trend rejected
Mann-Kend	dall	
n	67	Number of datapoints
с С	769	Monn Kondoll tost statistic
	-700	
var(S)	34146.67	Variance
Z, z(1-a)	-4.1507, 1.0	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
 NI'	22	Number of slopes
1N C	203	Median elene (Serie elere estimate
3	0	ivieuan siope (Sen's siope estimate
M1	95.357	Kank 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 Kon	- iypotriesis Aall	or accreasing trend rejected
		Number of determs into
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
	Typourosis	or accreasing trend rejected

Station	6524R01
Sens	
n	36 Number of datapoints
N'	630 Number of slopes
6	0.0009 Median clone (Son's clone estimate)
3 	-0.0096 Median Slope (Sen's Slope estimate)
var(5)	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
7. z(1-a)	-1.7026. 1. Normal approximation
Probability	0.03 Probability of no trend
Result	Hypothesis of increasing trend rejected
Robalt	Hypothesis of decreasing trend accented
Station	
Station	0524R01
Sens	20 Normh en of deten sinte
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)	<ul> <li>-0.0188 Lower confidence level of slopes</li> </ul>
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
7 z(1-a)	-1 7026 1 Normal approximation
Probability	0.03 Probability of no trend
Result	Hypothesis of increasing trend rejected
Result	Hypothesis of decreasing trend accented
Station	6525D01
Sano	0525R01
Sens	44 November of datase sints
	44 Number of datapoints
N	990 Number of slopes
5	-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)	<ul> <li>-0.005 Upper confidence level of slopes</li> </ul>
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
1 COUL	Hypothesis of decreasing trend accented
	rypomesis or decreasing trend accepted

Station	5411R02	
Sens		
n	45	Number of datapoints
N'	1176	Number of slopes
с С	0 0022	Madian along (Son's along antimate
3	-0.0033	International Stope (Sell'S Stope estimate
M1	492.5841	Rank M1
Q(492.584	-0.0056	Lower confidence level of slopes
M2	683.4159	Rank M2
Q(683.4159	-0.0006	Upper confidence level of slopes
Result	Hypothesis	of increasing trend rejected
	Hypothesis	of decreasing trend accented
Mann-Kong	1 iypotricoio Aall	of decreasing trend decepted
Marin-Rend	1011	Nearth and determinist
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
rtooun	Hypotheoic	of decreasing trend accepted
Ctation		of decreasing trend accepted
Station	5411KU3	
Sens	-	New Second dataset
n	45	inumber of datapoints
N'	1081	Number of slopes
S	-0.0049	Median slope (Sen's slope estimate
M1	450.8098	Rank M1
Q(450,8098	-0.0074	I ower confidence level of slopes
M2	630 1902	Rank M2
0(630 100	-0.0024	Lipper confidence level of slopes
Q(030.1902	-0.0024	of increasing trend rejected
Result	Hypothesis	of increasing trend rejected
	Hypothesis	of decreasing trend accepted
Mann-Kend	lall	
n	45	Number of datapoints
S	-413	Mann Kendall test statistic
Var(S)	10450	Variance
7 7(1-a)	-4 0303 1	Normal approximation
Probability	-108 0554	Probability of no trend
Probability	-100.9334	of increasing trend rejected
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
	_0.0051	I ower confidence level of slopes
MO.0090	-0.0051	Dook M2
	030.1902	
Q(630.1902	0	upper contidence level of slopes
Result	Hypothesis	of increasing trend rejected
	Hypothesis	of decreasing trend rejected
Mann-Kend	lall	
n	44	Number of datapoints
S	-120	Mann Kendall test statistic
Vor(E)	0775 000	Varianaa
	9110.333	
∠, 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
		<b>5</b> ,

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	<ul> <li>9 Mann Kendall test statistic</li> </ul>
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
Station Sens	6631M07
Station Sens n	6631M07 45 Number of datapoints
<u>Station</u> Sens n N'	6631M07 45 Number of datapoints 1035 Number of slopes
Station Sens n N' S	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate)
Station Sens n N' S M1	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate) 430.6337 Rank M1
Station           Sens           n           N'           S           M1           Q(430.6337)	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate) 430.6337 Rank M1 -0.0027 Lower confidence level of slopes
Station           Sens           n           N'           S           M1           Q(430.6337)           M2	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate) 430.6337 Rank M1 -0.0027 Lower confidence level of slopes 604.3663 Rank M2
Station           Sens           N           S           M1           Q(430.6337)           M2           Q(604.3663)	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate) 430.6337 Rank M1 -0.0027 Lower confidence level of slopes 604.3663 Rank M2 0.002 Upper confidence level of slopes
Station           Sens           N           S           M1           Q(430.6337)           M2           Q(604.3663)           Result	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate) 430.6337 Rank M1 -0.0027 Lower confidence level of slopes 604.3663 Rank M2 0.002 Upper confidence level of slopes Hypothesis of increasing trend rejected
Station           Sens           N'           S           M1           Q(430.6337)           M2           Q(604.3663)           Result	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate) 430.6337 Rank M1 -0.0027 Lower confidence level of slopes 604.3663 Rank M2 0.002 Upper confidence level of slopes Hypothesis of increasing trend rejected Hypothesis of decreasing trend rejected
Station           Sens           N           S           M1           Q(430.6337)           M2           Q(604.3663)           Result           Mann-Kendall	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate) 430.6337 Rank M1 -0.0027 Lower confidence level of slopes 604.3663 Rank M2 0.002 Upper confidence level of slopes Hypothesis of increasing trend rejected Hypothesis of decreasing trend rejected
Station           Sens           N           S           M1           Q(430.6337)           M2           Q(604.3663)           Result           Mann-Kendall           n	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate) 430.6337 Rank M1 -0.0027 Lower confidence level of slopes 604.3663 Rank M2 0.002 Upper confidence level of slopes Hypothesis of increasing trend rejected Hypothesis of decreasing trend rejected 45 Number of datapoints
Station           Sens           N           S           M1           Q(430.6337)           M2           Q(604.3663)           Result           Mann-Kendall           n           S	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate) 430.6337 Rank M1 -0.0027 Lower confidence level of slopes 604.3663 Rank M2 0.002 Upper confidence level of slopes Hypothesis of increasing trend rejected Hypothesis of decreasing trend rejected 45 Number of datapoints -29 Mann Kendall test statistic
Station           Sens           N           S           M1           Q(430.6337)           M2           Q(604.3663)           Result           Mann-Kendall           n           S           Var(S)	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate) 430.6337 Rank M1 -0.0027 Lower confidence level of slopes 604.3663 Rank M2 0.002 Upper confidence level of slopes Hypothesis of increasing trend rejected Hypothesis of decreasing trend rejected 45 Number of datapoints -29 Mann Kendall test statistic 10449 Variance
Station           Sens           N           S           M1           Q(430.6337)           M2           Q(604.3663)           Result           Mann-Kendall           n           S           Var(S)           Z, z(1-a)	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate) 430.6337 Rank M1 -0.0027 Lower confidence level of slopes 604.3663 Rank M2 0.002 Upper confidence level of slopes Hypothesis of increasing trend rejected Hypothesis of decreasing trend rejected 45 Number of datapoints -29 Mann Kendall test statistic 10449 Variance -0.2739, 1.1 Normal approximation
Station           Sens           N           S           M1           Q(430.6337)           M2           Q(604.3663)           Result           Mann-Kendall           n           S           Var(S)           Z, z(1-a)           Probability	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate) 430.6337 Rank M1 -0.0027 Lower confidence level of slopes 604.3663 Rank M2 0.002 Upper confidence level of slopes Hypothesis of increasing trend rejected Hypothesis of decreasing trend rejected 45 Number of datapoints -29 Mann Kendall test statistic 10449 Variance -0.2739, 1.1 Normal approximation 0.3921 Probability of no trend
Station Sens n N' S M1 Q(430.6337) M2 Q(604.3663) Result Mann-Kendall n S Var(S) Z, z(1-a) Probability Result	6631M07 45 Number of datapoints 1035 Number of slopes 0 Median slope (Sen's slope estimate) 430.6337 Rank M1 -0.0027 Lower confidence level of slopes 604.3663 Rank M2 0.002 Upper confidence level of slopes Hypothesis of increasing trend rejected Hypothesis of decreasing trend rejected 45 Number of datapoints -29 Mann Kendall test statistic 10449 Variance -0.2739, 1.1 Normal approximation 0.3921 Probability of no trend Hypothesis of increasing trend rejected