Supplementary Materials

Table S1. Trend statistics for hourly timescales visibility over individual airport stations and Pakistan. Bold values in the table indicate positive trends, italic values are decreasing trends, neutral values have no trend, * indicates insignificant (p-value > 0.05) values and empty cells have no data values if any. MK= Mann-Kendall, MMK= Modified Mann-Kendall, SS = Sen's Slope.

		Time / Hours																						
Station	**Test**	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**
	MK	0.27*	0.00*	0.00*	-0.09*	0.09*	0.13*	0.18*	0.18*	-0.18*	0.26*	0.18*	-0.05*	**0.55**	**0.39**	0.29*	0.15*	0.32*	0.24*	0.02*	0.09*	0.06*	0.14*	0.03*	-0.17*
FSD	SS	0.086*	0.000*	0.000*	-0.022	0.000*	0.028*	0.046*	0.083*	-0.095*	0.125*	0.075*	0.000*	**0.169**	0.000	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*
	MMK	**0.26**	0.00	0.00	***-0.09***	**0.08**	**0.13**	**0.17**	**0.17**	***-0.17***	**0.24**	**0.17**	***-0.04***	**0.47**	**0.31**	**0.19**	**0.11**	**0.23**	**0.19**	**0.01**	**0.07**	**0.04**	**0.12**	**0.03**	***-0.15***
	SS	**0.086**	0.000	0.000	***-0.022***	0.000	**0.028**	**0.046**	**0.083**	***-0.095***	**0.125**	**0.075**	0.000	**0.169**	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	MK	-0.11*	-0.60*	0.11*	0.16*	**0.64**	***-0.44***	-0.04*	-0.11*	***-0.42***	-0.24*	0.07*	**0.32**	-0.07*	-0.33*	-0.74*	0.24*	-0.82*		0.00*					-0.82*
GWD	SS	0.000*	-1.195*	0.248*	0.000*	**0.253**	***-0.125***	0.000*	0.000*	***-0.057***	-0.047*	0.000*	**0.056**	0.000*	-0.625*	-1.370*	0.000*	-1.255*		0.005*					-2.005*
	MMK	***-0.08***	***-0.60***	**0.10**	**0.14**	**0.57**	***-0.41***	***-0.03***	***-0.09***	***-0.36***	**-0.22**	**0.06**	**0.29**	***-0.05***	***-0.33***	**-0.70**	**0.19**	***-0.67***	0.00	***-0.67***					***-0.82***
	SS	0.000	***-1.195***	**0.248**	0.000	**0.253**	***-0.125***	0.000	0.000	***-0.057***	**-0.047**	0.000	**0.056**	0.000	***-0.625***	**-1.370**	0.000	***-1.255***	0.000	***-2.005***					***-2.005***
	MK	***-0.15***	***-0.18***	***-0.18***	***-0.04***	***-0.15***	***-0.14***	***-0.01***	***-0.13***	***-0.13***	**0.04**	***-0.13***	***-0.15***	**0.03**	***-0.17***	***-0.18***	***-0.15***	***-0.17***	***-0.16***	***-0.15***	***-0.16***	***-0.17***	***-0.16***	***-0.15***	***-0.18***
ISB	SS	0.000	0.000	***-0.01***	0.000	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	0.000	***-0.001***	0.000	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	0.000	***-0.001***
	MMK	***-0.13***	***-0.16***	***-0.17***	***-0.04***	***-0.14***	***-0.14***	***-0.01***	***-0.12***	***-0.12***	***0.03***	***-0.12***	***-0.14***	***0.03***	***-0.16***	***-0.17***	***-0.14***	***-0.16***	***-0.15***	***-0.14***	***-0.15***	***-0.16***	***-0.15***	***-0.14***	***-0.17***
	SS	0.000	0.000	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	0.000	***-0.001***	0.000	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	0.000	***-0.001***
	MK	***-0.28***	***-0.47***	***-0.41***	**0.06**	***-0.31***	***-0.31***	**0.15**	***-0.32***	***-0.3***	**0.13**	***-0.28***	***-0.28***	**0.16**	***-0.34***	***-0.35***	***-0.25***	***-0.4***	***-0.42***	***-0.25***	***-0.46***	***-0.46***	***-0.36***	***-0.47***	***-0.47***
KHI	SS	***-0.001***	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***
	MMK	***-0.26***	***-0.41***	***-0.37***	**0.06**	***-0.29***	***-0.29***	**0.14**	***-0.30***	***-0.27***	**0.12**	***-0.25***	***-0.26***	**0.15**	***-0.31***	***-0.32***	***-0.23***	***-0.35***	***-0.37***	***-0.23***	***-0.39***	***-0.39***	***-0.33***	***-0.40***	***-0.40***
	SS	***-0.001***	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***
	MK	***-0.45***	***-0.37***	***-0.28***	***-0.21***	***-0.17***	***-0.17***	***-0.18***	***-0.21***	***-0.24***	***-0.26***	***-0.3***	***-0.32***	***-0.32***	***-0.34***	***-0.35***	***-0.36***	***-0.43***	***-0.47***	***-0.49***	***-0.5***	***-0.5***	***-0.5***	***-0.49***	***-0.49***
LHR	SS	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***
	MMK	***-0.42***	***-0.35***	***-0.27***	***-0.21***	***-0.17***	***-0.16***	***-0.18***	***-0.20***	***-0.23***	***-0.25***	***-0.29***	***-0.31***	***-0.31***	***-0.32***	***-0.33***	***-0.34***	***-0.40***	***-0.43***	***-0.45***	***-0.45***	***-0.46***	***-0.45***	***-0.45***	***-0.45***
	SS	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***
	MK	***-0.2***	***-0.05***	***-0.08***	***-0.22***	***-0.06***	***-0.05***	***-0.12***	***-0.05***	***-0.05***	***-0.02***	***-0.01***	***-0.01***	***-0.08***	**0.02**	***-0.01***	***-0.16***	***-0.08***	***-0.11***	***-0.17***	***-0.07***	***-0.07***	***-0.16***	***-0.08***	***-0.02***
MLN	SS	0.000	0.000	0.000	***-0.01***	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	MMK	***-0.18***	***-0.05***	***-0.07***	***-0.20***	***-0.05***	***-0.05***	***-0.11***	***-0.05***	***-0.05***	-0.02*	-0.01*	-0.01*	-0.06*	0.021*	-0.01*	***-0.14***	***-0.06***	***-0.09***	***-0.14***	***-0.06***	***-0.06***	***-0.14***	***-0.06***	-0.02*
	SS	0.000	0.000	0.000	***-0.001***	0.000	0.000	0.000	0.000	0.000	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000*
	MK	***-0.25***	**0.01**	**0.01**	***-0.16***	**0.01**	**0.01**	**0.07**	**0.02**	**0.01**	**0.03**	***-0.01***	**0.01**	***-0.03***	***-0.03***	***-0.06***	***-0.27***	***-0.12***	***-0.11***	***-0.28***	***-0.05***	**0.02**	***-0.35***	**0.01**	***-0.04***
NWS	SS	0.000	0.000	0.000	***-0.001***	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	***-0.001***	0.000	0.000
	MMK	***-0.24***	***-0.31***	***-0.23***	***-0.11***	***-0.18***	***-0.15***	**0.04**	***-0.14***	***-0.15***	**0.03**	***-0.16***	***-0.17***	0.04*	***-0.20***	***-0.20***	***-0.22***	***-0.28***	***-0.30***	***-0.26***	***-0.34***	***-0.35***	***-0.35***	***-0.35***	***-0.35***
	SS	***-0.001***	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000*	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***
	MK	***-0.27***	***-0.33***	***-0.24***	***-0.12***	***-0.19***	***-0.16***	**0.05**	***-0.15***	***-0.16***	**0.04**	***-0.17***	***-0.18***	**0.05**	***-0.21***	***-0.22***	***-0.24***	***-0.3***	***-0.32***	***-0.29***	***-0.37***	***-0.37***	***-0.39***	***-0.38***	***-0.37***
PSH	SS	***-0.001***	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	0.000	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***
	MMK	**0.19**	**0.14**	0.13*	0.11*	0.10*	0.10*	0.10*	0.10*	0.10*	0.11*	0.11*	0.13*	0.15*	**0.19**	**0.21**	**0.22**	**0.22**	**0.23**	**0.21**	**0.22**	**0.21**	**0.22**	**0.21**	**0.20**
	SS	0.000	0.000	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	MK	**0.29**	**0.21**	**0.17**	**0.13**	**0.11**	**0.11**	**0.11**	**0.1**	**0.11**	**0.12**	**0.12**	**0.14**	**0.17**	**0.21**	**0.26**	**0.28**	**0.29**	**0.31**	**0.3**	**0.31**	**0.31**	**0.32**	**0.31**	**0.3**
SKR	SS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	MMK	-0.07*	***-0.14***	***-0.17***	***-0.18***	***-0.19***	***-0.21***	***-0.24***	***-0.29***	***-0.32***	***-0.36***	***-0.37***	***-0.36***	***-0.34***	***-0.26***	***-0.17***	***-0.17***	***-0.17***	***-0.16***	***-0.15***	***-0.10***	***-0.06***	***-0.05***	-0.05*	-0.04*
	SS	0.00*	0.000	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000*	0.000*
	MK	***-0.08***	***-0.15***	***-0.18***	***-0.2***	***-0.2***	***-0.23***	***-0.26***	***-0.32***	***-0.36***	***-0.4***	***-0.41***	***-0.4***	***-0.38***	***-0.3***	***-0.2***	***-0.2***	***-0.21***	***-0.19***	***-0.18***	***-0.13***	***-0.07***	***-0.06***	***-0.06***	***-0.05***
SKT	SS	0.000	0.000	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	***-0.001***	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

	MMK	-0.21	0.00*	0.00*	-0.15	0.01*	0.01*	0.06*	0.02*	0.01*	0.02*	-0.01*	0.00*	-0.02*	-0.02*	-0.05	-0.23	-0.09	-0.09	-0.24	-0.03	0.01*	-0.29	0.01*	-0.03
	SS	0.000	0.000*	0.000*	***-0.001***	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000*	***-0.001***	0.000*	0.000
	MK	***-0.30***	***-0.35***	***-0.30***	***-0.16***	***-0.24***	***-0.23***	***-0.06***	***-0.25***	**-0.26**	**-0.07**	***-0.28***	***-0.29***	***-0.07***	***-0.32***	***-0.34***	***-0.31***	***-0.39***	***-0.40***	***-0.33***	***-0.40***	**-0.40**	***-0.36***	**-0.39**	***-0.40***
PAK	SS	***-0.002***	***-0.003***	***-0.002***	***-0.000***	***-0.000***	***-0.000***	***-0000***	***-0.001***	**-0.001**	**-0.000**	***-0.001***	***-0.002***	***-0.000***	***-0.003***	***-0.004***	***-0.003***	***-0.004***	***-0.005***	***-0.003***	***-0.004***	***-0.005***	***-0.002***	***-0.003***	***-0.005***
	MMK	***-0.30***	***-0.35***	***-0.30***	***-0.16***	***-0.24***	***-0.23***	-0.06*	***-0.25***	**-0.26**	-0.07*	***-0.28***	***-0.29***	-0.06*	***-0.32***	***-0.34***	***-0.31***	***-0.38***	***-0.40***	***-0.33***	***-0.39***	**-0.39**	***-0.36***	**-0.39**	***-0.39***
	SS	***-0.002***	***-0.003***	***-0.002***	***-0.000***	***-0.000***	***-0.000***	-0000*	***-0.001***	**-0.001**	-0.000*	***-0.001***	***-0.002***	-0.000*	***-0.003***	***-0.004***	***-0.003***	***-0.004***	***-0.005***	***-0.003***	***-0.004***	***-0.005***	***-0.002***	***-0.003***	***-0.005`***

Table S2. Trend statistics for daily (weekdays) timescales visibility over individual airport stations and Pakistan. Bold values in the table indicate positive trends, italic values are decreasing trends, neutral values have no trend, and * indicates insignificant (p-value > 0.05) values if any. PAK= Pakistan, MK= Mann-Kendall, MMK= Modified Mann-Kendall, SS = Sen's Slope

	Test	Mon	Tue	Wed	Thu	Fri	Sat	Sun
FSD	MK	-0.03*	0.22*	0.02*	0.25*	0.31*	0.29*	-0.03*
	SS	-0.001*	0.201*	0.000*	0.115*	0.168*	0.157*	-0.065*
	MMK	-0.03*	0.22*	0.02*	0.25*	**0.31**	0.28*	-0.03*
	SS	-0.001*	0.201*	0.000*	0.115*	**0.168**	0.157*	-0.065*
GWD	MK	0.04*	0.04*	-0.02*	0.10*	-0.02*	-0.09*	0.07*
	SS	0.000*	0.000*	0.000*	0.006*	0.000*	-0.001*	0.000*
	MMK	0.04*	0.04*	-0.02*	0.10*	-0.02*	-0.09*	0.07*
	SS	0.000*	0.000*	0.000*	0.006*	0.000*	-0.001*	0.000*
ISB	MK	0.01*	**0.03**	**0.04**	**0.04**	-0.01*	0.02*	**0.03**
	SS	0.000*	0.000	0.000	0.000	0.000*	0.000*	0.000
	MMK	0.01*	0.03*	0.04*	0.04*	-0.01*	0.02*	0.03*
	SS	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*
KHI	MK	**0.10**	**0.09**	**0.10**	**0.12**	**0.08**	**0.10**	**0.10**
	SS	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	MMK	0.10*	0.09*	0.10*	0.12*	0.08*	0.10*	0.10*
	SS	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*
LHR	MK	***-0.33***	***-0.32***	***-0.33***	***-0.32***	***-0.33***	***-0.31***	***-0.31***
	SS	***-0.002***	***-0.002***	***-0.002***	***-0.002***	***-0.002***	***-0.002***	***-0.002***
	MMK	***-0.33***	***-0.32***	***-0.33***	***-0.31***	***-0.33***	***-0.31***	***-0.31***
	SS	***-0.002***	***-0.002***	***-0.002***	***-0.002***	***-0.002***	***-0.002***	***-0.002***
MLN	MK	***-0.10***	***-0.09***	**-0.09**	***-0.09***	***-0.10***	***-0.11***	***-0.09***
	SS	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	MMK	-0.10*	-0.09*	-0.08*	-0.09*	-0.10*	-0.11*	-0.09*
	SS	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*
NWS	MK	***-0.04***	***-0.05***	-0.03*	***-0.04***	-0.02*	***-0.04***	***-0.04***
	SS	0.000	0.000	0.00*	0.000	0.000*	0.000	0.000
	MMK	-0.04*	-0.05*	-0.03*	***-0.04***	-0.02*	***-0.04****	***-0.04***
	SS	0.000*	0.000*	0.00*	0.000	0.000*	0.000*	0.000
PSH	MK	**0.20**	**0.16**	**0.15**	**0.16**	**0.17**	**0.20**	**0.16**
	SS	**0.002**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
	MMK	**0.19**	**0.16**	**0.15**	**0.15**	**0.17**	**0.19**	**0.16**
	SS	**0.002**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
SKR	MK	***-0.25***	***-0.26***	***-0.25***	***-0.24***	***-0.29***	***-0.22***	***-0.27***
	SS	***-0.003***	***-0.003***	***-0.003***	***-0.002***	***-0.003***	***-0.002***	***-0.003***
	MMK	***-0.25***	***-0.26***	***-0.25***	***-0.24***	***-0.29***	***-0.22***	***-0.27***
	SS	***-0.003***	***-0.003***	***-0.003***	***-0.002***	***-0.003***	***-0.002***	***-0.003***
SKT	MK	-0.01*	***-0.05***	0.01*	-0.02*	-0.03*	0.02*	0.02*
	SS	0.000*	0.000	0.000*	0.000*	0.000*	0.000*	0.000*
	MMK	-0.01*	-0.05*	0.01*	-0.02*	-0.03*	0.02*	0.02*
	SS	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*	0.000*
PAK	MK	***-0.10***	***-0.10***	***-0.09***	***-0.09***	***-0.11***	***-0.09***	***-0.09***
	SS	***-0.000***	***-0.000***	***-0.000***	***-0.000***	***-0.000***	***-0.000***	***-0.000***
	MMK	***-0.10***	***-0.10***	***-0.09***	-0.09*	***-0.10***	-0.09*	-0.09*
	SS	***-0.000***	***-0.000***	***-0.000***	-0.000*	***-0.000***	-0.000*	-0.000*

Table S3. Trend statistics for daily and monthly timescales visibility over individual airport stations and Pakistan. Bold values in the table indicate positive trends, italic values are decreasing trends, neutral values have no trend, * indicates insignificant (p-value > 0.05) values and empty cells have no data values if any. MK= Mann-Kendall, MMK= Modified Mann-Kendall, SS = Sen's Slope

Stations	Test	Daily	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
FSD	MK	0.14*	0.03*	0.15*	0.53*	-0.69*	0.33*		0.00*			-0.55*		**0.41**
	SS	0.012*	0.000*	0.046*	0.292*	-0.937*	0.628*		0.000*			-1.542*		**0.114**
	MMK	**0.13**	0.03*	0.14*	**0.50**	***-0.67***	0.33*		0.00*			-0.55*		**0.41**
	SS	**0.012**	0.000*	0.046*	**0.292**	***-0.937***	0.628*		0.000*			-1.542*		**0.114**
GWD	MK	0.01*	-0.12*	-0.13*	-0.36*	**0.83**			0.22*	-0.28*	-0.30*	0.06*	-0.21*	0.07*
	SS	0.000*	-0.001*	0.000*	-0.003*	**0.806**			0.000*	-0.001*	-0.003*	0.000*	0.000*	0.018*
	MMK	0.01*	-0.11	-0.13*	-0.33	**0.83**			0.19*	-0.25*	***-0.28***	0.06*	-0.18*	0.64*
	SS	0.000*	-0.001*	0.000*	-0.003*	**0.806**			0.000*	-0.001*	***-0.003***	0.000*	0.000*	0.018*
ISB	MK	**0.02**	**0.05**	0.02*	0.02*	0.02*	**0.10**	**0.16**	-0.04*	***-0.13***	0.03*	**0.10**	**0.05**	0.03*
	SS	0.000	0.000	0.000*	0.000*	0.000*	0.000	0.000	0.000*	***-0.001***	0.000*	0.000	0.000	0.000*
	MMK	0.02*	0.05*	0.02*	0.02*	0.02*	**0.10**	**0.16**	-0.04*	***-0.12***	0.03*	**0.10**	**0.05**	0.03*
	SS	0.000*	0.000*	0.000*	0.000*	0.000*	0.000	0.000	0.000*	***-0.001***	0.000*	0.000	0.000	0.000*
KHI	MK	**0.10**	**0.08**	**0.11**	**0.13**	**0.14**	**0.19**	**0.16**	**0.16**	**0.13**	0.02*	-0.01*	-0.03*	0.01*
	SS	0.000	0.000	0.000	0.000	0.000	**0.001**	**0.001**	**0.001**	**0.001**	0.000*	0.00*	0.000*	0.000*
	MMK	0.10*	0.08*	0.11*	0.12*	0.14*	**0.19**	**0.16**	0.16*	0.13*	0.02*	-0.01*	-0.03*	0.01*
	SS	0.000*	0.000*	0.000*	0.000*	0.000*	**0.001**	**0.001**	0.001*	0.001*	0.000*	0.00*	0.000*	0.000*
LHR	MK	***-0.32***	***-0.20***	***-0.34***	***-0.40***	***-0.37***	***-0.30***	***-0.34***	***-0.49***	***-0.52***	***-0.48***	***-0.35***	***-0.29***	***-0.26***
	SS	***-0.001***	***-0.002***	***-0.003***	***-0.003***	***-0.003***	***-0.003***	***-0.003***	***-0.004***	***-0.005***	***-0.004***	***-0.003***	***-0.002***	***-0.002***
	MMK	***-0.32***	***-0.20***	***-0.34***	***-0.40***	***-0.37***	***-0.30***	***-0.34***	***-0.49***	***-0.52***	***-0.48***	***-0.34***	***-0.29***	***-0.26***
	SS	***-0.001***	***-0.002***	***-0.003***	***-0.003***	***-0.003***	***-0.003***	***-0.003***	***-0.004***	***-0.005***	***-0.004***	***-0.003***	***-0.002***	***-0.002***
MLN	MK	***-0.10***	***-0.29***	***-0.11***	***-0.07***	-0.03*	-0.03*	-0.01*	0.01*	0.03*	0.03*	***-0.20***	***-0.31***	***-0.31***
	SS	0.000	***-0.001***	***-0.000***	0.000	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	***-0.000***	***-0.001***	***-0.001***
	MMK	-0.10*	***-0.29***	-0.11*	-0.07*	-0.03*	-0.03*	-0.01*	0.01*	0.03*	0.03*	***-0.18***	***-0.31***	***-0.30***
	SS	0.000*	***-0.001***	-0.000*	0.000*	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*	***-0.000***	***-0.001***	***-0.001***
NWS	MK	***-0.04***	***-0.37***	***-0.22***	0.01*	-0.01*	**0.12**	**0.10**	**0.13**	**0.10**	**0.11**	***-0.08***	***-0.31***	***-0.39***
	SS	0.000	***-0.001***	***-0.001***	0.000*	0.000*	0.000	0.000	**0.001**	0.000	0.000	***-0.000***	***-0.001***	***-0.002***
	MMK	-0.04*	***-0.36***	***-0.21***	0.01*	-0.01*	**0.12**	**0.10**	**0.13**	0.10*	**0.10**	-0.08*	***-0.30***	***-0.38***
	SS	0.000*	***-0.001***	***-0.001***	0.000*	0.000*	0.000	0.000	**0.001**	0.000*	0.000	-0.000*	***-0.001***	***-0.002***
PSH	MK	**0.17**	0.03*	**0.17**	**0.17**	**0.38**	**0.45**	**0.34**	**0.35**	**0.35**	**0.15**	0.05*	0.03*	-0.00*
	SS	0.000	0.000*	**0.003**	**0.002**	**0.008**	**0.010**	**0.006**	**0.005**	**0.004**	0.000	0.000*	0.000*	0.00*
	MMK	**0.17**	0.03*	**0.17**	**0.17**	**0.38**	**0.44**	**0.33**	**0.33**	**0.33**	**0.14**	0.04*	0.039	-0.00*
	SS	0.000	0.000*	**0.003**	**0.00**	**0.008**	**0.010**	**0.006**	**0.005**	**0.004**	0.000	0.000*	0.000*	0.00*
SKR	MK	***-0.25***	***-0.20***	***-0.24***	***-0.34***	***-0.35***	***-0.43***	***-0.42***	***-0.41***	***-0.47***	***-0.56***	***-0.35***	***-0.17***	***-0.32***
	SS	***-0.000***	***-0.003***	***-0.004***	***-0.004***	***-0.005***	***-0.006***	***-0.005***	***-0.004***	***-0.005***	***-0.006***	***-0.004***	***-0.002***	***-0.004***
	MMK	***-0.25***	***-0.20***	***-0.24***	***-0.34***	***-0.35***	***-0.42***	***-0.42***	***-0.40***	***-0.46***	***-0.56***	***-0.35***	***-0.17***	***-0.32***
	SS	***-0.000***	***-0.003***	***-0.004***	***-0.004***	***-0.005***	***-0.006***	***-0.005***	***-0.004***	***-0.005***	***-0.006***	***-0.004***	***-0.002***	***-0.004***
SKT	MK	-0.01*	-0.04*	***-0.17***	***-0.07***	**0.17**	**0.20**	**0.11**	0.03*	-0.01*	0.05*	**0.07**	***-0.06***	***-0.16***
	SS	0.000*	-0.000*	***-0.002***	0.000	**0.001**	**0.002**	0.000	0.000*	0.000*	0.000*	0.000	***-0.000***	***-0.001***
	MMK	-0.01*	-0.04*	-0.17*	-0.07*	0.16*	**0.19**	0.11*	0.03*	-0.01*	0.05*	0.07*	*-0.06**	***-0.16***
	SS	0.000*	-0.000*	-0.002*	0.000*	0.001*	**0.002**	0.000*	0.000*	0.000*	0.000*	0.000*	*-0.000**	***-0.001***
PAK	MK	***-0.09***	***-0.16***	***-0.13***	***-0.10***	***-0.08***	-0.02*	***-0.001****	***-0.08***	***-0.10***	***-0.10***	***-0.12***	***-0.17***	***-0.19***
	SS	***-0.001***	***-0.000***	***-0.000***	***-0.000***	***-0.000***	0.000*	***0.000****	***-0.000***	***-0.000***	***-0.000***	***-0.000***	***-0.000***	***-0.000***
	MMK	***-0.09***	***-0.16***	***-0.13***	-0.10*	-0.08*	-0.02*	-0.001*	-0.08*	-0.10*	-0.10*	***-0.12***	***-0.17***	***-0.19***
	SS	***-0.001***	***-0.000***	***-0.000***	-0.000*	-0.000*	0.000*	0.000*	-0.000*	-0.000*	-0.000*	***-0.000***	***-0.000***	***-0.000***

Table S4. Trend analysis for seasonal timescales visibility. Bold values in the table indicate positive trends, italic and bold values are decreasing trends, neutral values have no trend and * Indicates insignificant (p-value > 0.05) values. MK= Mann-Kendall, MMK= Modified Mann-Kendall, SS = Sen's Slope, DJF (December, January, February), MAM (March, April, May), JJA (June, July, August), SON (September, October, November)

Station	Test	DJF	MAM	JJA	SON
FSD	MK	**0.47**	***-0.52***	0.26*	**0.27**
	SS	**0.061**	***-0.440***	0.205*	**0.062**
	MMK	**0.46**	***-0.51***	0.24*	**0.27**
	SS	**0.061**	***-0.440***	0.205*	**0.062**
GWD	MK	-0.10*	0.29*	-0.23*	-0.04*
	SS	0.000*	0.340*	-0.001*	0.000*
	MMK	-0.10*	**0.28**	***-0.22***	-0.04*
	SS	0.000*	**0.340**	***-0.001***	0.000*
ISB	MK	**0.31**	***-0.06***	***-0.04***	***-0.28***
	SS	**0.001**	***-0.001***	***-0.001***	***-0.002***
	MMK	**0.31**	**-0.06**	***-0.04***	***-0.28***
	SS	**0.001**	**-0.001**	***-0.001***	***-0.002***
KHI	MK	**0.10**	**0.04**	**0.12**	***-0.08***
	SS	0.000	0.000	0.000	***-0.001***
	MMK	**0.10**	0.04*	**0.12**	***-0.08***
	SS	0.000	0.000*	0.000	***-0.001***
LHR	MK	**0.22**	***-0.16***	***-0.16***	***-0.35***
	SS	**0.001**	***-0.001***	***-0.001***	***-0.001***
	MMK	**0.22**	***-0.16***	***-0.16***	***-0.35***
	SS	**0.001**	***-0.001***	***-0.001***	***-0.001***
MLN	MK	**0.25**	***-0.16***	**0.06**	***-0.32***
	SS	0.000	0.000	0.000	***-0.000***
	MMK	**0.24**	***-0.15***	**0.05**	***-0.31***
	SS	0.000	0.000	0.000	***-0.000***
NWS	MK	**0.16**	**0.03**	**0.08**	***-0.38***
	SS	0.000	0.000	0.000	***-0.001***
	MMK	**0.16**	0.03*	**0.08**	***-0.37***
	SS	0.000	0.000*	0.000	***-0.001***
PSH	MK	**0.23**	**0.12**	0.20*	***-0.13***
	SS	**0.001**	**0.001**	0.000*	***-0.000***
	MMK	**0.23**	**0.11**	0.20*	***-0.13***
	SS	**0.001**	**0.001**	0.000*	***-0.000***
SKR	MK	**0.25**	-0.03*	***-0.17***	***-0.42***
	SS	**0.002**	-0.00*	***-0.000***	***-0.002***
	MMK	**0.25**	-0.03*	***-0.17***	***-0.42***
	SS	**0.002**	-0.00*	***-0.000***	***-0.002***

SKT	MK	**0.22**	***-0.03***	-0.00*	***-0.26***
	SS	**0.001**	0.000	0.000*	***-0.001***
	MMK	**0.22**	-0.03*	-0.00*	***-0.25***
	SS	**0.001**	0.000*	0.000*	***-0.001***
PAK	MK	**0.16**	***-0.06***	***-0.02***	***-0.24***
	SS	0.000	***-0.000***	0.000	***-0.000***
	MMK	**0.16**	***-0.06***	-0.02*	***-0.24***
	SS	0.000	***-0.000***	0.000*	***-0.000***

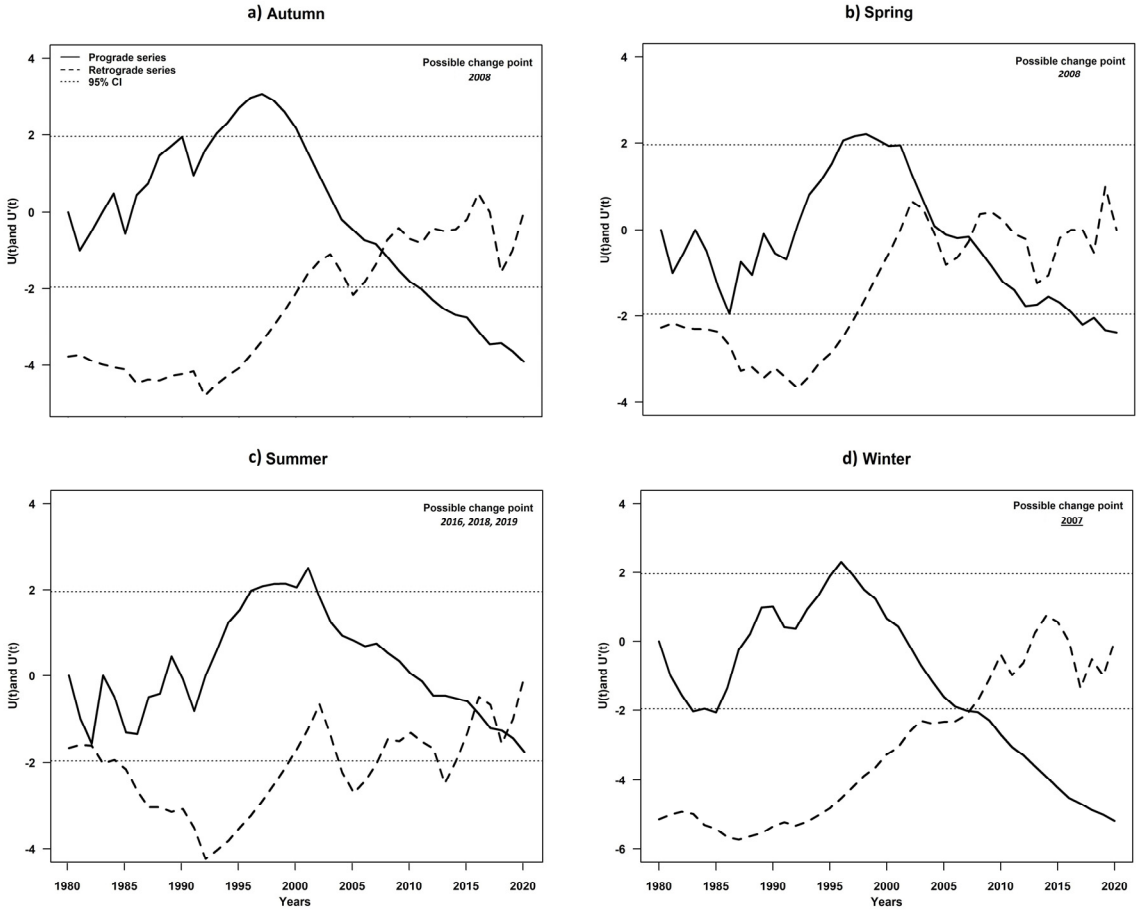


Figure S1. SMK analysis for possible change detection with seasonal VR data (PAK)

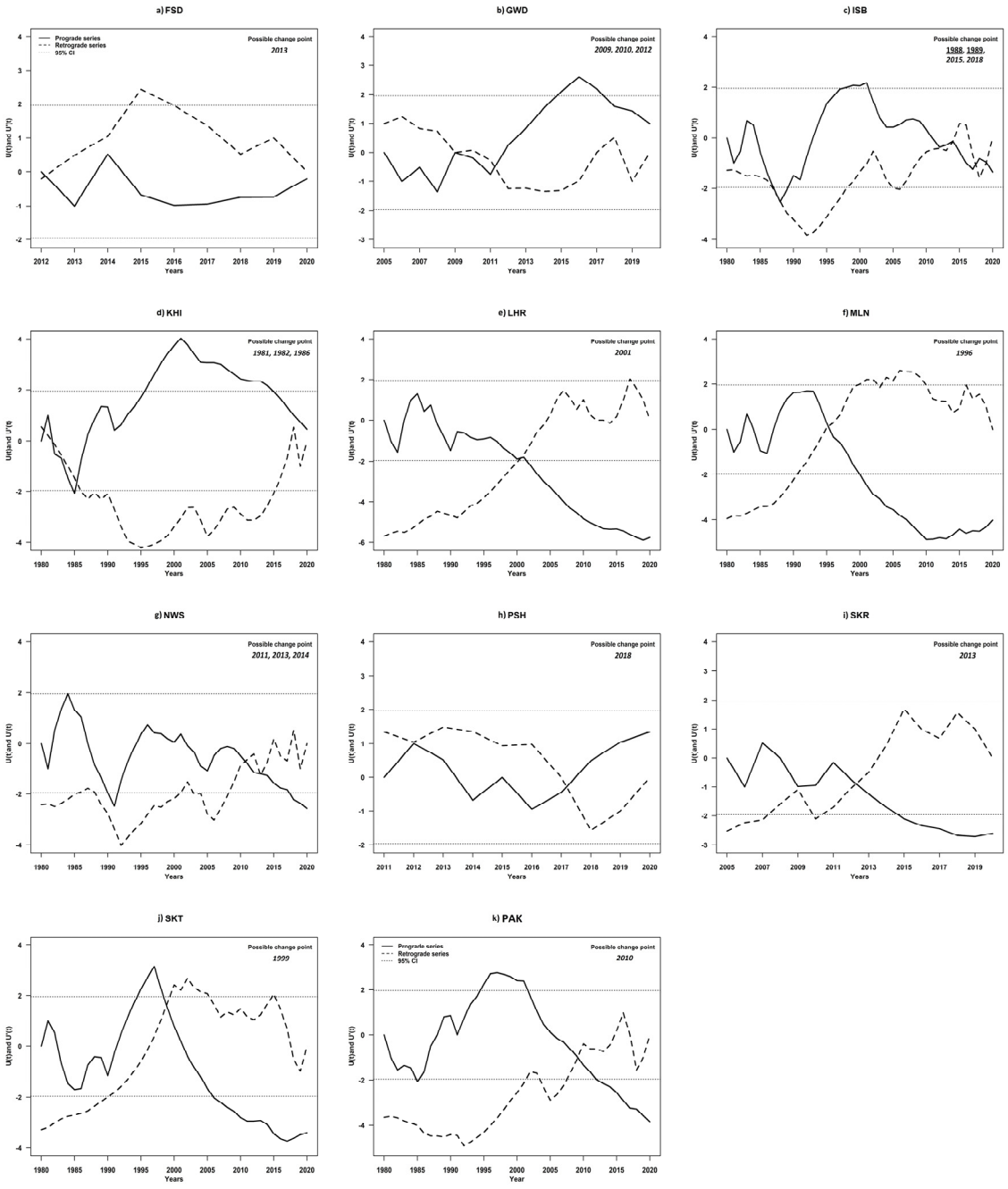


Figure S2. SMK analysis for possible change detection with annual VR data (Stations)