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Supplement of

Observed impacts of aerosol concentration on maritime tropical convection within constrained environments using airborne radiometer, radar, lidar, and dropsondes

Corey G. Amiot et al.

Correspondence to: Corey G. Amiot (corey.g.amiot@nasa.gov)

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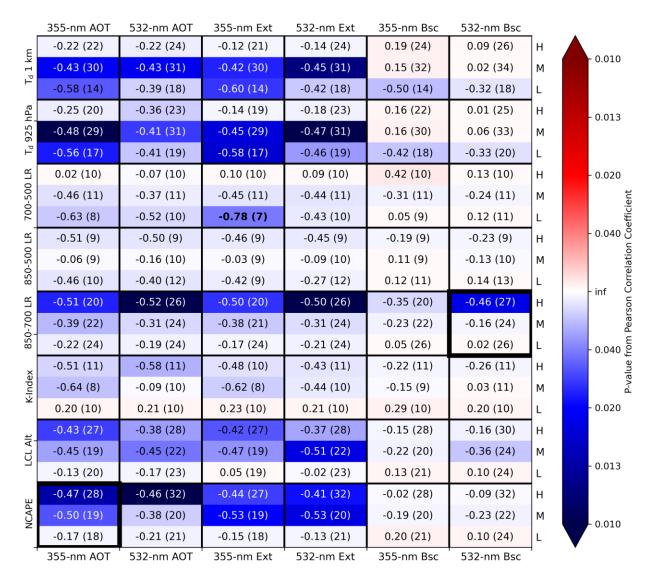


Figure S1: Pearson correlation coefficients from comparing p95 AMPR CLW with mean HSRL2 AOT, extinction (Ext), and backscatter (Bsc) at 355 and 532 nm (top and bottom borders) within environmental bins stratified by the eight AVAPS parameters (left border) at low (L), medium (M), and high (H) magnitudes (right border) across the CAMP²Ex scenes. AVAPS magnitudes were stratified using the values of Test 2 (Table 2 in the main text). Within each cell, the listed value is the Pearson correlation coefficient and the parenthesized value indicates the mean number of data points used in the (bootstrapped) comparison. Cells with a Pearson correlation coefficients ≥ 0.70 contain bolded text. Reds (blues) represent positive (negative) Pearson correlation coefficients, and the color shading corresponds to the magnitude of the p-value according to the colorbar, with darker shades of each color associated with lower p-values (i.e., greater statistical significance). Color shading begins to increase substantially around a p-value of 0.05 and reaches a maximum for p-values around 0.01. Thicker boxes outline the two correlation sets illustrated in Figs. S2a and S2b.

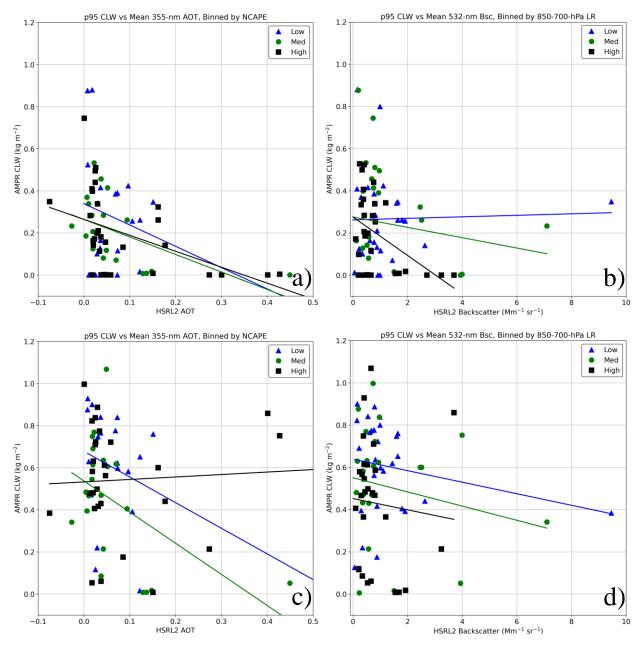


Figure S2: Complete (i.e., non-bootstrapped) scatterplots of p95 AMPR CLW compared with mean values of the HSRL2 parameter listed in the title and x-axis of each plot within environmental bins stratified using the AVAPS parameter listed in the title of the corresponding plot. The top row presents the original masked CLW values, while the bottom row includes an additional mask for CLW < 1 g m $^{-2}$. AVAPS threshold values were from Test 2 (Table 2 in the main text). In all plots, blue triangles, green circles, and black squares correspond to data points associated with low, medium, and high magnitudes, respectively, of the associated AVAPS parameter. CLW values > 1 kg m $^{-2}$ were masked in Fig. S2a to remove regions with clouds that were potentially precipitating (e.g., Jiang and Zipser, 2006).

	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			
ء	-0.29 (21)	-0.34 (23)	-0.24 (20)	-0.24 (23)	0.02 (23)	-0.07 (25)	Н		
T_{d} 1 km	-0.21 (30)	-0.16 (31)	-0.27 (30)	-0.27 (31)	-0.08 (32)	-0.12 (34)	М		- 0.010
ř	-0.11 (13)	0.11 (17)	-0.21 (13)	0.04 (17)	-0.39 (13)	-0.11 (17)	L		
пРа	-0.23 (19)	-0.26 (22)	-0.19 (18)	-0.19 (22)	-0.04 (21)	-0.09 (24)	Н		- 0.013
925 hPa	-0.05 (28)	-0.02 (29)	-0.13 (28)	-0.13 (29)	0.00 (29)	-0.03 (31)	М		0.000
₽	-0.34 (17)	-0.12 (19)	-0.39 (17)	-0.20 (19)	-0.34 (18)	-0.19 (20)	L		
R	-0.21 (10)	-0.20 (10)	-0.17 (10)	-0.16 (10)	-0.06 (10)	-0.16 (10)	н		- 0.020
700-500 LR	-0.28 (10)	-0.13 (10)	-0.25 (10)	-0.24 (10)	-0.07 (10)	-0.05 (10)	М		ent
700	0.09 (7)	-0.07 (9)	0.03 (6)	0.18 (9)	0.04 (8)	0.48 (9)	L		oppoor - Oppoor - Opp
H.	0.04 (9)	0.04 (9)	0.07 (9)	0.08 (9)	0.31 (9)	0.29 (9)	н		- 0.040 Š
850-500 LR	-0.14 (9)	-0.04 (10)	-0.19 (9)	-0.14 (10)	-0.42 (9)	-0.28 (10)	М		latio
850	-0.47 (9)	-0.25 (10)	-0.54 (9)	-0.25 (10)	-0.00 (10)	0.22 (11)	L		Corre
R	-0.08 (19)	-0.08 (25)	-0.12 (19)	-0.11 (25)	-0.03 (19)	-0.08 (26)	н		son (
850-700 LR	-0.29 (21)	-0.19 (22)	-0.31 (20)	-0.24 (22)	-0.27 (21)	-0.20 (22)	М		Pear
850	-0.08 (24)	0.07 (24)	-0.22 (24)	-0.12 (24)	-0.20 (26)	-0.21 (26)	L		o. o. juj P-value from Pearson Correlation
×	-0.13 (9)	-0.25 (9)	0.05 (9)	0.07 (9)	0.15 (9)	0.10 (9)	н		lue f
K-Index	0.18 (8)	0.56 (9)	-0.09 (8)	0.09 (9)	0.04 (9)	0.34 (10)	М		P-va
*	-0.50 (10)	-0.45 (10)	-0.44 (10)	-0.45 (10)	-0.38 (10)	-0.40 (10)	L		- 0.020
ᆂ	-0.29 (26)	-0.12 (27)	-0.35 (26)	-0.22 (27)	-0.26 (27)	-0.17 (29)	н		
LCL Alt	-0.16 (19)	-0.16 (22)	-0.21 (19)	-0.22 (22)	-0.00 (20)	-0.08 (24)	М		
	0.08 (19)	0.10 (21)	0.09 (18)	0.16 (21)	-0.09 (20)	-0.09 (22)	L		- 0.013
ш	0.05 (27)	0.07 (29)	0.05 (26)	0.03 (29)	-0.05 (27)	-0.05 (29)	н		
NCAPE	-0.51 (19)	-0.37 (20)	-0.60 (19)	-0.55 (20)	-0.38 (20)	-0.35 (22)	М		- 0.010
~	-0.20 (18)	-0.12 (21)	-0.23 (18)	-0.09 (21)	0.17 (21)	0.21 (24)	L		0.010
-1	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc	1	•	

Figure S3: As in Fig. S1 but with additional masking for CLW < 1 g m $^{-2}$ applied. Thicker boxes outline the two correlation sets illustrated in Figs. S2c and S2d.



Figure S4: Tables of Pearson correlation coefficients from comparing the 95th percentile (p95) AMPR CLW with mean HSRL2 AOT, extinction (Ext), and backscatter (Bsc) at 355 and 532 nm (top and bottom borders) within environmental bins stratified by the eight AVAPS parameters (left border) at low (L), medium (M), and high (H) magnitudes (right border) across the CAMP²Ex scenes. Within each cell, the listed value is the Pearson correlation coefficient and the parenthesized value indicates the mean number of data points used in the (bootstrapped) comparison. Cells with a Pearson correlation coefficient ≥ 0.70 contain bolded text. Reds (blues) represent positive (negative) Pearson correlation coefficients, and the color shading corresponds to the magnitude of the p-value according to the colorbar, with darker shades of each color associated with lower p-values (i.e., greater statistical significance). Color shading begins to increase substantially around a p-value of 0.05 and reaches a maximum for p-values around 0.01. The four different tables result from the four sensitivity tests detailed in Table 2 (main text), with Test 1 (upper left), Test 2 (upper right), Test 3 (lower left), and Test 4 (lower right) presented herein.

	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			
	-0.03 (19)	-0.02 (21)	-0.03 (18)	0.00 (21)	0.11 (21)	0.08 (23)	lн	A	-0.09 (23)	-0.02 (25)	-0.08 (22)	-0.05 (25)	0.09 (25)	0.03 (27)	Тн	\blacktriangle	
Ē	-0.16 (43)	-0.16 (45)	-0.12 (43)	-0.12 (45)	0.08 (45)	0.01 (48)	м	- 0.010	0.05 (30)	0.04 (31)	0.07 (30)	0.06 (31)	0.03 (32)	-0.08 (34)	M 1		0.010
T-1	-0.26 (5)	-0.46 (8)	-0.12 (43)	-0.12 (43)	-0.05 (5)	-0.26 (8)		3	-0.53 (14)	-0.41 (18)	-0.47 (14)	-0.33 (18)	0.03 (32)	0.05 (18)			
e	-0.05 (31)	-0.02 (35)	-0.18 (3)	-0.03 (35)	-0.05 (33)	-0.08 (36)	Н		0.07 (20)	-0.05 (23)	0.09 (19)	0.06 (23)	0.22 (22)	0.03 (16)	H H		
5 hPa	-0.05 (31)	-0.26 (28)	-0.20 (27)	-0.19 (28)	0.16 (29)	0.07 (31)	м	- 0.013		-0.03 (23)	-0.07 (30)	-0.01 (32)	-0.04 (31)	-0.10 (34)	м		0.013
T _d 925	-0.25 (27)	-0.20 (28)	-0.20 (27)	-0.19 (28)	-0.12 (9)	-0.19 (11)		T. 925	-0.32 (17)	-0.32 (19)	-0.31 (17)	-0.01 (32)	0.16 (18)	0.04 (20)	IM		
															١. ا		
00 LR	-0.10 (9)	-0.13 (9)	-0.05 (9)	-0.05 (9)	0.02 (9)	-0.09 (9)	Н	- 0.020	-0.09 (10)	-0.11 (10)	-0.03 (10)	-0.04 (10)	0.00 (10)	-0.10 (10)	H		0.020
700-500	-0.29 (15)	-0.27 (15)	-0.30 (15)	-0.30 (15)	-0.32 (15)	-0.33 (15)	М	fficient 700-500	-0.28 (11)	-0.27 (11)	-0.29 (11)	-0.29 (11)	-0.30 (11)	-0.32 (11)	М		G.
	-0.43 (7)	-0.47 (9)	-0.59 (6)	0.20 (9)	0.55 (8)	-0.02 (10)	L	9	-0.46 (9)	-0.46 (11)	-0.48 (8)	-0.19 (11)	0.11 (9)	-0.24 (12)	L I		0.040 8
00 LR	-0.05 (5)	0.01 (5)	-0.05 (5)	-0.05 (5)	-0.01 (5)	0.04 (5)	н			0.11 (9)	0.01 (9)	0.02 (9)	0.07 (9)	0.13 (9)	н		5
850-500	-0.34 (20)	-0.33 (21)	-0.30 (20)	-0.26 (21)	-0.14 (20)	-0.28 (21)	М	orrelation	-0.42 (10)	-0.36 (11)	-0.39 (10)	-0.35 (11)	-0.34 (10)	-0.36 (11)	M		relat
	-0.14 (5)	-0.16 (7)	-0.31 (4)	0.07 (7)	0.29 (6)	0.09 (8)	L	inf O	-0.51 (10)	-0.48 (12)	-0.55 (9)	-0.13 (12)	0.45 (11)	-0.16 (13)	L		inf Ö
0 LR	0.02 (5)	0.41 (7)	0.02 (5)	0.37 (7)	0.07 (5)	0.44 (8)	Н	nos o	-0.25 (21)	-0.27 (27)	-0.22 (21)	-0.21 (27)	-0.05 (21)	-0.24 (27)	Н		5
850-700	-0.20 (32)	-0.24 (37)	-0.17 (31)	-0.18 (37)	0.11 (32)	-0.00 (37)	М	om Pears	-0.14 (22)	-0.16 (24)	-0.11 (21)	-0.09 (24)	0.18 (22)	0.21 (24)	М		Pea
82	0.03 (30)	0.08 (30)	0.01 (30)	0.07 (30)	-0.04 (32)	-0.09 (32)	L	- 0.040 ₺ 🕏	0.02 (24)	0.09 (24)	-0.02 (24)	0.07 (24)	-0.06 (26)	-0.12 (26)	L	-	0.040 💆
š	-0.21 (14)	-0.23 (15)	-0.20 (13)	-0.11 (15)	-0.00 (14)	-0.21 (15)	н	/alue	-0.25 (11)	-0.28 (11)	-0.27 (10)	-0.18 (11)	-0.09 (11)	-0.32 (11)	н		alne
K-Inde	-0.52 (9)	-0.26 (10)	-0.50 (9)	-0.32 (10)	-0.33 (9)	-0.21 (11)	М	<u>a</u>	-0.65 (9)	-0.33 (11)	-0.64 (9)	-0.44 (11)	-0.41 (9)	-0.17 (12)	М		\$
-	-0.45 (8)	-0.40 (8)	-0.42 (8)	-0.40 (8)	-0.24 (8)	-0.30 (8)	L	- 0.020	-0.35 (10)	-0.34 (10)	-0.29 (10)	-0.29 (10)	-0.18 (10)	-0.29 (10)	L		0.020
4.	-0.00 (11)	0.11 (13)	-0.01 (11)	0.07 (13)	0.18 (12)	0.04 (14)	н	ä	-0.11 (27)	-0.17 (28)	-0.06 (27)	-0.05 (28)	0.39 (28)	0.34 (30)	н		
LCL Alt	-0.19 (36)	-0.23 (39)	-0.12 (36)	-0.15 (39)	0.17 (38)	0.11 (42)	м	e d		-0.15 (23)	-0.16 (20)	-0.14 (23)	-0.11 (21)	-0.18 (25)	М		
_	-0.06 (19)	-0.04 (22)	-0.11 (18)	-0.03 (22)	-0.09 (20)	-0.14 (23)	L	- 0.013	-0.08 (20)	-0.05 (23)	-0.13 (19)	-0.04 (23)	-0.07 (21)	-0.14 (24)	L		0.013
ш	-0.06 (18)	-0.02 (19)	-0.07 (17)	-0.02 (19)	0.09 (18)	0.08 (19)	н	u.	-0.13 (29)	-0.10 (33)	-0.15 (28)	-0.12 (33)	-0.12 (29)	-0.15 (33)	н		
ICAPE	-0.17 (20)	-0.17 (23)	-0.16 (20)	-0.16 (23)	0.08 (20)	0.05 (24)	м	- 0.010	-0.24 (19)	-0.30 (20)	-0.17 (19)	-0.17 (20)	0.24 (20)	0.16 (22)	м		0.010
2	-0.10 (29)	-0.17 (32)	-0.04 (29)	-0.05 (32)	0.21 (33)	-0.04 (36)	L	0.010	0.10 (18)	-0.02 (21)	0.16 (18)	0.06 (21)	0.34 (21)	0.05 (24)	L '	V	0.010
4	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc		•	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc	1	•	
	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			
Ę	-0.03 (20)	-0.02 (22)	-0.03 (19)	0.01 (22)	0.12 (22)	0.09 (24)	н	-0.010	-0.23 (15)	-0.19 (17)	-0.22 (14)	-0.18 (17)	-0.01 (16)	-0.03 (18)	н	lack	
T ₄ 1 k	-0.12 (38)	-0.07 (41)	-0.10 (38)	-0.08 (41)	-0.05 (40)	-0.15 (44)	м	- 0.010	-0.08 (42)	-0.04 (45)	-0.06 (42)	-0.04 (45)	-0.02 (45)	-0.11 (48)	м		0.010
F	-0.53 (9)	0.45 (0.0)					١.	P.									
hPa.		-0.45 (11)	-0.24 (9)	-0.32 (11)	0.82 (9)	0.25 (11)	l L		-0.43 (10)	-0.41 (13)	-0.29 (10)	-0.31 (13)	0.69 (10)	0.21 (13)	L		
	-0.06 (26)	-0.45 (11)	-0.24 (9) -0.09 (25)	-0.32 (11) -0.03 (29)	-0.07 (27)	0.25 (11) -0.09 (31)	н			-0.41 (13) 0.06 (15)	-0.29 (10) 0.08 (12)	-0.31 (13) 0.15 (15)	0.69 (10) 0.16 (15)	0.21 (13) 0.11 (17)	L H		0.013
925				_			Н								- 1		0.013
T _d 925	-0.06 (26)	-0.01 (29)	-0.09 (25)	-0.03 (29)	-0.07 (27)	-0.09 (31)				0.06 (15)	0.08 (12)	0.15 (15)	0.16 (15)	0.11 (17)	н		0.013
LR T _d 925	-0.06 (26) -0.12 (31)	-0.01 (29) -0.08 (32)	-0.09 (25) -0.09 (31)	-0.03 (29) -0.07 (32)	-0.07 (27) 0.03 (33)	-0.09 (31) -0.10 (35)		- 0.013	0.09 (13) -0.11 (44)	0.06 (15) -0.06 (46)	0.08 (12) -0.11 (44)	0.15 (15) -0.08 (46)	0.16 (15) -0.07 (45)	0.11 (17) -0.14 (48)	н		0.013
500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10)	-0.01 (29) -0.08 (32) -0.47 (13)	-0.09 (25) -0.09 (31) -0.36 (10)	-0.03 (29) -0.07 (32) -0.35 (13)	-0.07 (27) 0.03 (33) 0.57 (10)	-0.09 (31) -0.10 (35) 0.19 (13)	M	- 0.013	0.09 (13) -0.11 (44) -0.57 (10)	0.06 (15) -0.06 (46) -0.46 (13)	0.08 (12) -0.11 (44) -0.36 (10)	0.15 (15) -0.08 (46) -0.35 (13)	0.16 (15) -0.07 (45) 0.58 (11)	0.11 (17) -0.14 (48) 0.21 (14)	H M L		
LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10)	-0.09 (25) -0.09 (31) -0.36 (10) -0.03 (10)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10)	M L H	efficient 0200 - 025 Pp. 025 P	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8)	0.08 (12) -0.11 (44) -0.36 (10) 0.06 (8)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8)	H M L H		0.020 afficient
LR 700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11)	-0.09 (25) -0.09 (31) -0.36 (10) -0.03 (10) -0.29 (11)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11)	M L H	Coefficient 020.0 - Coefficient 020.0 - Coefficient 17, 025 hps	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17)	0.08 (12) -0.11 (44) -0.36 (10) 0.06 (8) -0.30 (17)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) -0.30 (17)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17)	H M L H		
LR 700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11)	-0.09 (25) -0.09 (31) -0.36 (10) -0.03 (10) -0.29 (11) -0.48 (8)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12)	M L H M L	Coefficient 020.0 - Coefficient 020.0 - Coefficient 17, 025 hps	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17) -0.46 (9)	0.08 (12) -0.11 (44) -0.36 (10) 0.06 (8) -0.30 (17) -0.56 (5)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) -0.30 (17) 0.22 (9)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17) -0.01 (9)	H M L H M L		0.020 afficient
700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9) 0.07 (7)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) 0.14 (7)	-0.09 (25) -0.09 (31) -0.36 (10) -0.03 (10) -0.29 (11) -0.48 (8) 0.07 (7)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) 0.08 (7)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12) 0.17 (7)	M L H M L H	relation Coefficient 020'0 - 0.200 lR 71.935 hpa	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17) -0.46 (9) 0.14 (7)	0.08 (12) -0.11 (44) -0.36 (10) 0.06 (8) -0.30 (17) -0.56 (5) 0.07 (7)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) -0.30 (17) 0.22 (9) 0.08 (7)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) 0.09 (7)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17) -0.01 (9) 0.17 (7)	I M L I M L I	-	0.020 orrelation Coefficient
LR 850-500 LR 700-500 LR Td 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9) 0.07 (7) -0.38 (17)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) 0.14 (7) -0.38 (18)	-0.09 (25) -0.09 (31) -0.36 (10) -0.03 (10) -0.29 (11) -0.48 (8) 0.07 (7) -0.34 (17)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) 0.08 (7) -0.30 (18)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7) -0.17 (17)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12) 0.17 (7) -0.33 (18)	M L H M L H	Correlation Coefficient Correlation Correl	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7) -0.38 (17)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17) -0.46 (9) 0.14 (7) -0.38 (18)	0.08 (12) -0.11 (44) -0.36 (10) 0.06 (8) -0.30 (17) -0.56 (5) 0.07 (7) -0.34 (17)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) -0.30 (17) 0.22 (9) 0.08 (7) -0.30 (18)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) 0.09 (7) -0.17 (17)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17) -0.01 (9) 0.17 (7) -0.32 (18)	I M L I M L I	-	0.020 afficient
700 LR 850-500 LR , 700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9) 0.07 (7) -0.38 (17) -0.38 (7)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) 0.14 (7) -0.38 (18) -0.28 (9)	-0.09 (25) -0.09 (31) -0.36 (10) -0.03 (10) -0.29 (11) -0.48 (8) 0.07 (7) -0.34 (17) -0.58 (6)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) 0.08 (7) -0.30 (18) -0.17 (9)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7) -0.17 (17) 0.15 (8)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12) 0.17 (7) -0.33 (18) -0.07 (9)	M	Pastron Correlation Coefficient Coefficient Coefficient Coefficient Coefficient Coefficient Tr. 905 pp.	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7) -0.38 (17) -0.38 (7) -0.37 (14) -0.05 (36)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17) -0.46 (9) 0.14 (7) -0.38 (18) -0.28 (9)	0.08 (12) -0.11 (44) -0.36 (10) 0.06 (8) -0.30 (17) -0.56 (5) 0.07 (7) -0.34 (17) -0.58 (6)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) -0.30 (17) 0.22 (9) 0.08 (7) -0.30 (18) -0.17 (9)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) 0.09 (7) -0.17 (17) 0.15 (8)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17) -0.01 (9) 0.17 (7) -0.32 (18) -0.06 (9)	H M L H M L	-	0.020 orrelation Coefficient
LR 850-500 LR 700-500 LR Td 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9) 0.07 (7) -0.38 (17) -0.38 (7)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) 0.14 (7) -0.38 (18) -0.28 (9) -0.32 (12)	-0.09 (25) -0.09 (31) -0.36 (10) -0.03 (10) -0.29 (11) -0.48 (8) 0.07 (7) -0.34 (17) -0.58 (6) -0.32 (9)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) 0.08 (7) -0.30 (18) -0.17 (9) -0.24 (12)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7) -0.17 (17) 0.15 (8) 0.07 (9)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12) 0.17 (7) -0.33 (18) -0.07 (9) -0.28 (13)	M	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7) -0.38 (17) -0.38 (7) -0.37 (14) -0.05 (36)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17) -0.46 (9) 0.14 (7) -0.38 (18) -0.28 (9) -0.33 (19)	0.08 (12) -0.11 (44) -0.36 (10) 0.06 (8) -0.30 (17) -0.56 (5) 0.07 (7) -0.34 (17) -0.58 (6) -0.33 (14)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) -0.30 (17) 0.22 (9) 0.08 (7) -0.30 (18) -0.17 (9) -0.26 (19)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) 0.09 (7) -0.17 (17) 0.15 (8) -0.14 (14)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17) -0.01 (9) 0.17 (7) -0.32 (18) -0.06 (9) -0.29 (20)	H M L H M L H	-	up bearson Correlation Coefficient
700 LR 850-500 LR , 700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9) 0.07 (7) -0.38 (17) -0.38 (7) -0.37 (9) -0.16 (32)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) 0.14 (7) -0.38 (18) -0.28 (9) -0.32 (12) -0.19 (36)	-0.09 (25) -0.09 (31) -0.36 (10) -0.03 (10) -0.29 (11) -0.48 (8) 0.07 (7) -0.34 (17) -0.58 (6) -0.32 (9) -0.12 (31)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) 0.08 (7) -0.30 (18) -0.17 (9) -0.24 (12) -0.13 (36)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7) -0.17 (17) 0.15 (8) 0.07 (9) 0.14 (32)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12) 0.17 (7) -0.33 (18) -0.07 (9) -0.28 (13) 0.11 (36)	M	- 0.013 - 0.013 - 0.020 0.020 0.020 0.020 0.020 0.020 0.020 -	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7) -0.38 (17) -0.38 (7) -0.37 (14) -0.05 (36)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17) -0.46 (9) 0.14 (7) -0.38 (18) -0.28 (9) -0.33 (19) -0.09 (37)	0.08 (12) -0.11 (44) -0.36 (10) 0.06 (8) -0.30 (17) -0.56 (5) 0.07 (7) -0.34 (17) -0.58 (6) -0.33 (14) 0.00 (35)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) -0.30 (17) 0.22 (9) 0.08 (7) -0.30 (18) -0.17 (9) -0.26 (19) 0.00 (37)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) 0.09 (7) -0.17 (17) 0.15 (8) -0.14 (14) 0.26 (36)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17) -0.01 (9) 0.17 (7) -0.32 (18) -0.06 (9) -0.29 (20) 0.26 (38)	H M L H M L H	-	0.020 orrelation Coefficient
X 850-700 LR 850-500 LR 700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9) 0.07 (7) -0.38 (17) -0.38 (7) -0.37 (9) -0.16 (32) 0.01 (27)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) -0.14 (7) -0.38 (18) -0.28 (9) -0.32 (12) -0.19 (36) -0.08 (27)	-0.09 (25) -0.09 (31) -0.36 (10) -0.03 (10) -0.29 (11) -0.48 (8) 0.07 (7) -0.58 (6) -0.32 (9) -0.12 (31) -0.02 (27)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) 0.08 (7) -0.30 (18) -0.17 (9) -0.24 (12) -0.13 (36) 0.05 (27)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7) -0.17 (17) 0.15 (8) 0.07 (9) 0.14 (32) -0.06 (28)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12) 0.17 (7) -0.33 (18) -0.07 (9) -0.28 (13) 0.11 (36) -0.11 (28)	M L H M L H M L	- 0.013 - 0.013 - 0.020 0.020 0.020 0.020 0.020 0.020 0.020 -	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7) -0.38 (17) -0.38 (7) -0.37 (14) -0.05 (36) -0.15 (18)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17) -0.46 (9) 0.14 (7) -0.38 (18) -0.28 (9) -0.33 (19) -0.09 (37) 0.02 (18)	0.08 (12) -0.11 (44) -0.36 (10) 0.06 (8) -0.30 (17) -0.56 (5) 0.07 (7) -0.58 (6) -0.33 (14) 0.00 (35) -0.28 (18)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) -0.30 (17) 0.22 (9) 0.08 (7) -0.30 (18) -0.17 (9) -0.26 (19) 0.00 (37) -0.12 (18)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) 0.09 (7) -0.17 (17) 0.15 (8) -0.14 (14) 0.26 (36) -0.15 (18)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17) -0.01 (9) 0.17 (7) -0.32 (18) -0.06 (9) -0.29 (20) 0.26 (38) -0.22 (18)	H M L H M L H M L	-	up bearson Correlation Coefficient
700 LR 850-500 LR , 700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9) -0.07 (7) -0.38 (17) -0.38 (7) -0.37 (9) -0.16 (32) -0.01 (27) -0.21 (13)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) 0.14 (7) -0.38 (18) -0.28 (9) -0.32 (12) -0.19 (36) 0.08 (27) -0.24 (13)	-0.09 (25) -0.09 (31) -0.36 (10) -0.03 (10) -0.29 (11) -0.48 (8) -0.07 (7) -0.34 (17) -0.58 (6) -0.32 (9) -0.12 (31) -0.02 (27) -0.21 (12)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) -0.08 (7) -0.30 (18) -0.17 (9) -0.24 (12) -0.13 (36) -0.05 (27) -0.13 (13)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7) -0.17 (17) 0.15 (8) 0.07 (9) 0.14 (32) -0.06 (28) -0.01 (13)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12) 0.17 (7) -0.33 (18) -0.07 (9) -0.28 (13) 0.11 (36) -0.11 (28) -0.24 (13)	M	From Pearson Correlation Coefficient 1, 201-10-10-10-10-10-10-10-10-10-10-10-10-1	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7) -0.38 (17) -0.38 (7) -0.37 (14) -0.05 (36) -0.15 (18) -0.23 (9)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17) -0.46 (9) 0.14 (7) -0.38 (18) -0.28 (9) -0.33 (19) -0.09 (37) 0.02 (18) -0.27 (9)	0.08 (12) -0.11 (44) -0.36 (10) 0.06 (8) -0.30 (17) -0.56 (5) 0.07 (7) -0.58 (6) -0.33 (14) 0.00 (35) -0.28 (18) -0.23 (8)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) -0.30 (17) 0.22 (9) 0.08 (7) -0.30 (18) -0.17 (9) -0.26 (19) 0.00 (37) -0.12 (18) -0.12 (9)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) 0.09 (7) -0.17 (17) 0.15 (8) -0.14 (14) 0.26 (36) -0.15 (18) 0.01 (9)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17) -0.01 (9) 0.17 (7) -0.32 (18) -0.06 (9) -0.29 (20) 0.26 (38) -0.22 (18) -0.32 (9)	H M L H M L H M L H	-	up bearson Correlation Coefficient
Kindex 850-700 LR 850-500 LR 700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9) 0.07 (7) -0.38 (17) -0.38 (7) -0.37 (9) -0.16 (32) 0.01 (27) -0.21 (13) -0.69 (9)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) -0.38 (18) -0.28 (9) -0.32 (12) -0.19 (36) -0.08 (27) -0.24 (13) -0.38 (11)	-0.09 (25) -0.09 (31) -0.36 (10) -0.03 (10) -0.29 (11) -0.48 (8) 0.07 (7) -0.34 (17) -0.58 (6) -0.32 (9) -0.12 (31) -0.02 (27) -0.21 (12) -0.68 (9)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) 0.08 (7) -0.30 (18) -0.17 (9) -0.24 (12) -0.13 (36) 0.05 (27) -0.13 (13) -0.50 (11)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7) -0.17 (17) 0.15 (8) 0.07 (9) 0.14 (32) -0.06 (28) -0.01 (13) -0.46 (9)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12) 0.17 (7) -0.33 (18) -0.07 (9) -0.28 (13) 0.11 (36) -0.11 (28) -0.24 (13) -0.34 (12)	M	- 0.0133 - 0.0131 - 0.0202 - 0.0210 - 0	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7) -0.38 (17) -0.38 (7) -0.37 (14) -0.05 (36) -0.15 (18) -0.23 (9) -0.27 (14) -0.44 (6)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17) -0.46 (9) 0.14 (7) -0.38 (18) -0.28 (9) -0.33 (19) -0.09 (37) 0.02 (18) -0.27 (9) -0.14 (17)	0.08 (12) -0.11 (44) -0.36 (10) -0.06 (8) -0.30 (17) -0.56 (5) -0.07 (7) -0.34 (17) -0.58 (6) -0.33 (14) -0.00 (35) -0.28 (18) -0.23 (8) -0.29 (14)	0.15 (15) -0.08 (46) -0.35 (13) -0.06 (8) -0.30 (17) -0.22 (9) -0.08 (7) -0.30 (18) -0.17 (9) -0.26 (19) -0.00 (37) -0.12 (18) -0.12 (9) -0.20 (17)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) 0.09 (7) -0.17 (17) 0.15 (8) -0.14 (14) 0.26 (36) -0.15 (18) 0.01 (9) -0.23 (15)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17) -0.01 (9) 0.17 (7) -0.32 (18) -0.06 (9) -0.29 (20) 0.26 (38) -0.22 (18) -0.32 (9) -0.12 (18)	H M L H M L H M L H M	-	P-value from Pearson Correlation Coefficient
Ait Kindex 850-700 LR 850-500 LR , 700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9) -0.7 (7) -0.38 (7) -0.38 (7) -0.37 (9) -0.16 (32) -0.01 (27) -0.21 (13) -0.66 (9) -0.37 (9) -0.09 (18)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) -0.14 (7) -0.38 (18) -0.32 (12) -0.19 (36) -0.88 (27) -0.36 (11) -0.36 (19) -0.36 (19)	-0.09 (25) -0.09 (31) -0.36 (10) -0.36 (10) -0.29 (11) -0.48 (8) -0.77 (7) -0.34 (17) -0.58 (6) -0.32 (9) -0.12 (31) -0.02 (27) -0.21 (12) -0.68 (9) -0.33 (9) -0.33 (9) -0.33 (9)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) -0.08 (7) -0.30 (18) -0.17 (9) -0.24 (12) -0.13 (36) -0.50 (27) -0.13 (13) -0.50 (11) -0.50 (11) -0.50 (11)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7) -0.17 (17) 0.17 (8) 0.07 (9) 0.14 (32) -0.06 (28) -0.01 (13) -0.46 (9) -0.46 (9) -0.23 (9) 0.48 (18)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12) -0.17 (7) -0.33 (18) -0.07 (9) -0.28 (13) 0.11 (36) -0.11 (28) -0.24 (13) -0.34 (12) -0.34 (12) -0.30 (9)	M	- 0.013 - 0.020 - 0.020 - 0.0400 - 0.04	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7) -0.38 (17) -0.38 (17) -0.38 (17) -0.15 (18) -0.23 (9) -0.27 (14) -0.45 (8) -0.12 (20)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17) -0.46 (9) 0.14 (7) -0.38 (18) -0.28 (9) -0.33 (19) -0.09 (37) 0.02 (18) -0.27 (9) -0.14 (17) -0.40 (8) -0.19 (22)	0.08 (12) -0.11 (44) -0.36 (10) 0.06 (8) -0.30 (17) -0.56 (5) 0.07 (7) -0.34 (17) -0.58 (6) -0.33 (14) 0.00 (35) -0.28 (18) -0.29 (14) -0.29 (14) -0.42 (8) -0.07 (20)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) -0.30 (17) 0.22 (9) 0.08 (7) -0.30 (18) -0.17 (9) -0.26 (19) 0.00 (37) -0.12 (18) -0.12 (9) -0.20 (17) -0.40 (8) -0.07 (22)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) 0.09 (7) -0.17 (17) 0.15 (8) -0.14 (14) 0.26 (36) -0.15 (18) 0.01 (9) -0.23 (15) -0.24 (8) 0.44 (22)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17) -0.01 (9) 0.17 (7) -0.32 (18) -0.06 (9) -0.29 (20) 0.26 (38) -0.22 (18) -0.32 (9) -0.12 (18) -0.30 (8) 0.37 (24)	H M L H M L H M L H M L	-	P-value from Pearson Correlation Coefficient
Kindex 850-700 LR 850-500 LR 700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9) -0.38 (7) -0.38 (7) -0.38 (7) -0.16 (32) -0.16 (32) -0.21 (13) -0.69 (9) -0.37 (9)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) -0.14 (7) -0.38 (18) -0.32 (12) -0.19 (36) -0.08 (27) -0.24 (13) -0.36 (9)	-0.09 (25) -0.09 (31) -0.36 (10) -0.29 (11) -0.48 (8) -0.77 (7) -0.34 (17) -0.58 (6) -0.32 (9) -0.12 (31) -0.02 (27) -0.21 (12) -0.68 (9) -0.33 (9)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) -0.08 (7) -0.30 (18) -0.17 (9) -0.24 (12) -0.13 (36) -0.05 (27) -0.13 (11) -0.50 (11) -0.50 (11)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7) -0.17 (17) 0.15 (8) 0.07 (9) 0.14 (32) -0.06 (28) -0.01 (13) -0.46 (9) -0.23 (9)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12) -0.7 (7) -0.33 (18) -0.07 (9) -0.28 (13) 0.11 (36) -0.11 (28) -0.24 (13) -0.34 (12) -0.30 (9)	M	- 0.0133 - 0.0131 - 0.0202 - 0.0210 - 0	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7) -0.38 (17) -0.38 (17) -0.38 (17) -0.15 (18) -0.23 (9) -0.27 (14) -0.45 (8) -0.12 (20)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17) -0.46 (9) 0.14 (7) -0.38 (18) -0.28 (9) -0.33 (19) -0.09 (37) 0.02 (18) -0.27 (9) -0.14 (17) -0.40 (8)	0.08 (12) -0.11 (44) -0.36 (10) -0.06 (8) -0.30 (17) -0.56 (5) -0.77 (7) -0.34 (17) -0.58 (6) -0.33 (14) -0.00 (35) -0.28 (18) -0.23 (8) -0.29 (14) -0.42 (8)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) -0.30 (17) -0.30 (17) -0.30 (18) -0.17 (9) -0.26 (19) 0.00 (37) -0.12 (18) -0.12 (19) -0.20 (17) -0.40 (8)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) -0.17 (17) -0.15 (8) -0.14 (14) 0.26 (36) -0.15 (18) -0.01 (9) -0.23 (15) -0.24 (8)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17) -0.01 (9) 0.17 (7) -0.32 (18) -0.06 (9) -0.29 (20) 0.26 (38) -0.32 (9) -0.12 (18) -0.30 (8)	H M L H M L H M L H M L H		P-value from Pearson Correlation Coefficient
Ait Kindex 850-700 LR 850-500 LR , 700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.09 (10) -0.46 (9) 0.07 (7) -0.38 (17) -0.38 (17) -0.37 (9) -0.16 (32) 0.01 (27) -0.21 (13) -0.69 (9) -0.37 (9) -0.09 (18) -0.08 (20)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) -0.38 (18) -0.28 (9) -0.32 (12) -0.32 (12) -0.19 (36) -0.08 (27) -0.24 (13) -0.36 (11) -0.36 (19) -0.15 (32) -0.05 (23)	-0.09 (25) -0.09 (31) -0.36 (10) -0.36 (10) -0.29 (11) -0.48 (8) 0.07 (7) -0.34 (17) -0.58 (6) -0.32 (9) -0.12 (31) -0.02 (27) -0.21 (12) -0.68 (9) -0.33 (18) -0.04 (29) -0.14 (29) -0.13 (19)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) -0.08 (7) -0.30 (18) -0.17 (9) -0.24 (12) -0.13 (36) -0.55 (27) -0.13 (13) -0.50 (11) -0.32 (9) -0.05 (19) -0.013 (32) -0.04 (23)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7) -0.17 (17) 0.15 (8) 0.07 (9) 0.14 (32) -0.06 (28) -0.01 (13) -0.46 (9) -0.23 (18) -0.07 (31) -0.08 (21)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.24 (12) 0.17 (7) -0.33 (18) -0.07 (9) -0.28 (13) -0.11 (28) -0.24 (13) -0.34 (12) -0.30 (12) -0.30 (33) -0.42 (20) -0.42 (20) -0.42 (20)	M	- 0.013 - 10.000 - 10	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7) -0.38 (17) -0.37 (14) -0.05 (36) -0.15 (18) -0.23 (9) -0.27 (14) -0.41 (20) -0.12 (20) -0.15 (30) -0.09 (17)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17) -0.46 (9) 0.14 (7) -0.38 (18) -0.28 (9) -0.33 (19) -0.09 (37) 0.02 (18) -0.27 (9) -0.14 (17) -0.40 (2) -0.19 (22) -0.12 (34) -0.04 (18)	0.08 (12) -0.11 (44) -0.36 (10) 0.06 (8) -0.30 (17) -0.56 (5) 0.07 (7) -0.34 (17) -0.58 (6) -0.33 (14) -0.23 (8) -0.29 (14) -0.42 (8) -0.07 (20) -0.011 (30) -0.16 (16)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) -0.30 (17) 0.22 (9) 0.08 (7) -0.30 (18) -0.17 (9) -0.26 (19) -0.00 (37) -0.12 (18) -0.12 (9) -0.20 (17) -0.40 (8) -0.07 (22) -0.09 (34) -0.05 (18)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) 0.09 (7) -0.17 (17) 0.15 (8) -0.14 (14) 0.26 (36) -0.15 (18) 0.01 (9) -0.23 (15) -0.24 (8) 0.44 (22) -0.03 (31) -0.10 (18)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17) -0.01 (9) 0.17 (7) -0.32 (18) -0.06 (38) -0.22 (18) -0.32 (9) -0.12 (18) -0.32 (9) -0.12 (18) -0.37 (24) -0.09 (36) -0.16 (19)	H M L H M L H M L H M L H M		0.020 b.value Loan Pearson Correlation Coefficient 0.040 0.050
Ait Kindex 850-700 LR 850-500 LR , 700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9) -0.07 (7) -0.38 (7) -0.38 (7) -0.37 (9) -0.16 (32) -0.01 (23) -0.09 (18) -0.09 (19) -0.09 (18) -0.08 (20) -0.12 (23)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) -0.38 (18) -0.28 (9) -0.32 (12) -0.19 (36) -0.08 (27) -0.24 (13) -0.36 (9) -0.19 (19) -0.15 (32) -0.05 (23) -0.05 (23)	-0.09 (25) -0.09 (31) -0.36 (10) -0.36 (10) -0.39 (11) -0.48 (8) -0.07 (7) -0.34 (17) -0.58 (6) -0.32 (9) -0.12 (31) -0.02 (27) -0.21 (12) -0.68 (9) -0.33 (9) -0.03 (18) -0.01 (42) -0.14 (29) -0.15 (22)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) -0.08 (7) -0.30 (18) -0.17 (9) -0.24 (12) -0.13 (36) -0.55 (27) -0.32 (9) -0.05 (11) -0.32 (9) -0.05 (19) -0.04 (23) -0.07 (25)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7) -0.17 (17) 0.15 (8) 0.07 (9) 0.14 (32) -0.06 (28) -0.01 (13) -0.46 (9) -0.23 (9) 0.48 (18) -0.07 (31) -0.07 (31) -0.07 (31) -0.07 (31) -0.08 (21) -0.08 (21)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12) -0.17 (77) -0.33 (18) -0.07 (9) -0.28 (13) -0.11 (28) -0.24 (13) -0.34 (12) -0.30 (9) -0.42 (20) -0.13 (35) -0.14 (24) -0.14 (24)	М L H M L H M L H M L H M L H	- 0.013 - 0.01	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7) -0.38 (17) -0.38 (7) -0.38 (7) -0.37 (14) -0.05 (36) -0.15 (18) -0.23 (9) -0.27 (14) -0.45 (8) -0.12 (20) -0.10 (17) -0.10 (22)	0.06 (15) -0.06 (46) -0.46 (33) -0.10 (8) -0.27 (17) -0.46 (9) -0.14 (77) -0.38 (18) -0.28 (9) -0.33 (19) -0.09 (37) -0.02 (18) -0.27 (9) -0.14 (17) -0.40 (8) -0.19 (22) -0.12 (34) -0.04 (18) -0.03 (24)	0.08 (12) -0.11 (44) -0.36 (10) -0.66 (8) -0.30 (17) -0.56 (5) -0.07 (7) -0.34 (17) -0.58 (6) -0.33 (14) -0.00 (35) -0.28 (18) -0.29 (14) -0.42 (8) -0.07 (20) -0.11 (30) -0.16 (16) -0.12 (21)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) 0.05 (8) 0.08 (7) -0.30 (18) -0.17 (9) -0.26 (19) 0.00 (37) -0.12 (18) -0.12 (19) -0.20 (17) -0.40 (8) -0.07 (22) -0.09 (18) -0.07 (24)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) 0.09 (7) -0.17 (17) -0.15 (18) -0.14 (14) 0.26 (36) -0.15 (18) -0.12 (19) -0.23 (15) -0.24 (8) -0.44 (22) -0.03 (31) -0.10 (18) -0.12 (22)	0.11 (17) -0.14 (48) 0.21 (14) 0.21 (14) -0.02 (18) -0.33 (17) -0.01 (9) 0.17 (7) -0.32 (18) -0.06 (9) -0.29 (20) 0.26 (38) -0.22 (18) -0.32 (19) -0.12 (18) -0.30 (8) 0.37 (24) -0.09 (36) -0.10 (16) -0.10 (16)	H M L H M L H M L H M L H M L	-	0.020 Inf 10.040 0
Ait Kindex 850-700 LR 850-500 LR , 700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9) -0.7 (7) -0.38 (17) -0.38 (17) -0.37 (9) -0.16 (32) -0.01 (27) -0.21 (13) -0.21 (13) -0.21 (13) -0.18 (29) -0.12 (23) -0.20 (19)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) -0.14 (7) -0.38 (18) -0.32 (12) -0.19 (36) -0.08 (27) -0.24 (13) -0.36 (11) -0.36 (1) -0.36 (1) -0.36 (1) -0.36 (1) -0.36 (27) -0.40 (25) -0.52 (32) -0.04 (25) -0.23 (22)	-0.09 (25) -0.09 (31) -0.36 (10) -0.33 (10) -0.29 (11) -0.48 (8) -0.77 (7) -0.34 (17) -0.58 (6) -0.32 (9) -0.12 (31) -0.02 (27) -0.21 (12) -0.68 (9) -0.33 (9) -0.03 (18) -0.14 (29) -0.13 (19) -0.15 (22) -0.15 (19)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) -0.08 (7) -0.30 (18) -0.17 (9) -0.24 (12) -0.13 (36) -0.50 (27) -0.13 (13) -0.50 (11) -0.32 (9) -0.05 (19) -0.13 (32) -0.07 (25) -0.16 (22)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7) -0.17 (17) 0.14 (32) -0.06 (28) -0.01 (13) -0.46 (9) -0.23 (9) 0.48 (18) -0.07 (31) -0.08 (21) -0.08 (21) -0.01 (23) 0.30 (19)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12) -0.17 (7) -0.33 (18) -0.11 (28) -0.11 (28) -0.24 (13) -0.34 (12) -0.34 (12) -0.34 (12) -0.34 (20) -0.13 (35) -0.14 (24) -0.14 (25) -0.14 (25)	M	- 0.013 - 10.000 - 10	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7) -0.38 (17) -0.38 (17) -0.35 (18) -0.15 (18) -0.27 (14) -0.45 (8) -0.12 (20) -0.15 (30) -0.10 (22) -0.15 (32)	0.06 (15) -0.06 (46) -0.46 (13) -0.10 (8) -0.27 (17) -0.46 (9) 0.14 (7) -0.38 (18) -0.28 (9) -0.33 (19) -0.09 (37) 0.02 (18) -0.27 (9) -0.14 (17) -0.40 (8) -0.19 (22) -0.12 (34) -0.03 (24) -0.03 (24) -0.18 (36)	0.08 (12) -0.11 (44) -0.36 (10) -0.06 (8) -0.30 (17) -0.56 (5) -0.77 (7) -0.34 (17) -0.58 (6) -0.33 (14) -0.00 (35) -0.28 (18) -0.29 (14) -0.42 (8) -0.07 (20) -0.11 (30) -0.16 (16) -0.12 (21) -0.08 (32)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) -0.30 (17) 0.22 (9) 0.08 (7) -0.30 (17) -0.26 (19) 0.00 (37) -0.12 (18) -0.12 (18) -0.12 (9) -0.20 (17) -0.40 (8) -0.07 (22) -0.09 (34) -0.05 (18) -0.07 (24) -0.07 (36)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) 0.09 (7) -0.17 (17) 0.15 (8) -0.14 (14) 0.26 (36) -0.15 (18) 0.01 (9) -0.23 (15) -0.24 (8) 0.44 (22) -0.03 (31) -0.10 (18) -0.12 (22) 0.22 (35)	0.11 (17) -0.14 (48) 0.21 (14) 0.02 (8) -0.33 (17) -0.01 (9) 0.17 (7) -0.32 (18) -0.06 (9) -0.29 (20) 0.26 (38) -0.22 (18) -0.32 (9) -0.12 (18) -0.30 (8) 0.37 (24) -0.06 (39) -0.12 (23)	H M L H M L H M L H M L H M L H M	-	0.020 b.value Loan Pearson Correlation Coefficient 0.040 0.050
Ait Kindex 850-700 LR 850-500 LR , 700-500 LR T _d 925	-0.06 (26) -0.12 (31) -0.57 (10) -0.09 (10) -0.28 (11) -0.46 (9) -0.07 (7) -0.38 (7) -0.38 (7) -0.37 (9) -0.16 (32) -0.01 (23) -0.09 (18) -0.09 (19) -0.09 (18) -0.08 (20) -0.12 (23)	-0.01 (29) -0.08 (32) -0.47 (13) -0.11 (10) -0.27 (11) -0.46 (11) -0.38 (18) -0.28 (9) -0.32 (12) -0.19 (36) -0.08 (27) -0.24 (13) -0.36 (9) -0.19 (19) -0.15 (32) -0.05 (23) -0.05 (23)	-0.09 (25) -0.09 (31) -0.36 (10) -0.36 (10) -0.39 (11) -0.48 (8) -0.07 (7) -0.34 (17) -0.58 (6) -0.32 (9) -0.12 (31) -0.02 (27) -0.21 (12) -0.68 (9) -0.33 (9) -0.03 (18) -0.01 (42) -0.14 (29) -0.15 (22)	-0.03 (29) -0.07 (32) -0.35 (13) -0.04 (10) -0.29 (11) -0.19 (11) -0.08 (7) -0.30 (18) -0.17 (9) -0.24 (12) -0.13 (36) -0.55 (27) -0.32 (9) -0.05 (11) -0.32 (9) -0.05 (19) -0.04 (23) -0.07 (25)	-0.07 (27) 0.03 (33) 0.57 (10) 0.00 (10) -0.30 (11) 0.12 (9) 0.09 (7) -0.17 (17) 0.15 (8) 0.07 (9) 0.14 (32) -0.06 (28) -0.01 (13) -0.46 (9) -0.23 (9) 0.48 (18) -0.07 (31) -0.07 (31) -0.07 (31) -0.07 (31) -0.08 (21) -0.08 (21)	-0.09 (31) -0.10 (35) 0.19 (13) -0.10 (10) -0.32 (11) -0.24 (12) -0.17 (77) -0.33 (18) -0.07 (9) -0.28 (13) -0.11 (28) -0.24 (13) -0.34 (12) -0.30 (9) -0.42 (20) -0.13 (35) -0.14 (24) -0.14 (24)	М L H M L H M L H M L H M L H	- 0.013 - 0.01	0.09 (13) -0.11 (44) -0.57 (10) -0.02 (8) -0.29 (17) -0.41 (6) 0.07 (7) -0.38 (17) -0.38 (7) -0.38 (7) -0.37 (14) -0.05 (36) -0.15 (18) -0.23 (9) -0.27 (14) -0.45 (8) -0.12 (20) -0.10 (17) -0.10 (22)	0.06 (15) -0.06 (46) -0.46 (33) -0.10 (8) -0.27 (17) -0.46 (9) -0.14 (77) -0.38 (18) -0.28 (9) -0.33 (19) -0.09 (37) -0.02 (18) -0.27 (9) -0.14 (17) -0.40 (8) -0.19 (22) -0.12 (34) -0.04 (18) -0.03 (24)	0.08 (12) -0.11 (44) -0.36 (10) -0.66 (8) -0.30 (17) -0.56 (5) -0.07 (7) -0.34 (17) -0.58 (6) -0.33 (14) -0.00 (35) -0.28 (18) -0.29 (14) -0.42 (8) -0.07 (20) -0.11 (30) -0.16 (16) -0.12 (21)	0.15 (15) -0.08 (46) -0.35 (13) 0.06 (8) 0.05 (8) 0.08 (7) -0.30 (18) -0.17 (9) -0.26 (19) 0.00 (37) -0.12 (18) -0.12 (19) -0.20 (17) -0.40 (8) -0.07 (22) -0.09 (18) -0.07 (24)	0.16 (15) -0.07 (45) 0.58 (11) 0.14 (8) -0.32 (17) 0.56 (7) 0.09 (7) -0.17 (17) -0.15 (18) -0.14 (14) 0.26 (36) -0.15 (18) -0.12 (19) -0.23 (15) -0.24 (8) -0.44 (22) -0.03 (31) -0.10 (18) -0.12 (22)	0.11 (17) -0.14 (48) 0.21 (14) 0.21 (14) -0.02 (18) -0.33 (17) -0.01 (9) 0.17 (7) -0.32 (18) -0.06 (9) -0.29 (20) 0.26 (38) -0.22 (18) -0.32 (19) -0.12 (18) -0.30 (8) 0.37 (24) -0.09 (36) -0.10 (16) -0.10 (16)	H M L H M L H M L H M L H M L H	-	0.020 Inf 10.040 0

Figure S5: As in Fig. S4 but using p95 AMPR 10.7-GHz polarization-corrected temperature (PCT) as the convective parameter.

	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			
	0.12 (19)	0.14 (21)	0.13 (18)	0.15 (21)	0.25 (21)	0.24 (23)	Тн		-0.00 (23)	0.02 (25)	0.01 (22)	0.03 (25)	0.16 (25)	0.16 (27)	Тн	\blacktriangle	
- ka	-0.29 (43)	-0.30 (45)	-0.26 (43)	-0.25 (45)	0.07 (45)	-0.01 (48)	м	0.010	-0.10 (30)	-0.10 (31)	-0.08 (30)	-0.07 (31)	0.06 (32)	-0.11 (34)	м		- 0.010
T _p	0.00 (5)	-0.37 (8)	0.13 (5)	-0.16 (8)	0.19 (5)	-0.19 (8)	;"	3	-0.56 (14)	-0.50 (18)	-0.50 (14)	-0.41 (18)	0.09 (14)	0.04 (18)	1		
ę	-0.05 (31)	-0.03 (35)	-0.05 (30)	-0.03 (35)	-0.01 (33)	-0.02 (36)	ļ,		0.19 (20)	0.08 (23)	0.19 (19)	0.16 (23)	0.31 (22)	0.21 (25)	H I		
2 PB	-0.35 (27)	-0.40 (28)	-0.31 (27)	-0.30 (28)	0.14 (29)	0.04 (31)	м	- 0.013		-0.15 (32)	-0.18 (30)	-0.13 (32)	-0.00 (31)	-0.10 (34)	м		- 0.013
T _d 925	-0.23 (27)	-0.40 (28)	-0.31 (27)	-0.30 (28)	-0.10 (9)	-0.22 (11)	. [™]	1.00		-0.43 (19)	-0.40 (17)	-0.13 (32)	0.11 (18)	0.04 (20)	I.™		
							١		2112 (21)						են ∣		
00 LR	-0.00 (9)	-0.05 (9)	0.06 (9)	0.06 (9)	0.16 (9)	0.05 (9)	Н		-0.00 (10)	-0.05 (10)	0.07 (10)	0.07 (10)	0.16 (10)	0.05 (10)	H		- 0.020
700-500	-0.41 (15)	-0.38 (15)	-0.42 (15)	-0.41 (15)	-0.40 (15)	-0.43 (15)	М	fficient 700-500	-0.40 (11)	-0.39 (11)	-0.41 (11)	-0.41 (11)	-0.38 (11)	-0.41 (11)	М		cien
	-0.54 (7)	-0.55 (9)	-0.63 (6)	0.19 (9)	0.67 (8)	0.03 (10)	-	e e	-0.50 (9)	-0.52 (11)	-0.48 (8)	-0.20 (11)	0.18 (9)	-0.21 (12)	L		- 0.040 🖔
00 LR	-0.56 (5)	-0.52 (5)	-0.54 (5)	-0.53 (5)	-0.45 (5)	-0.38 (5)	Н			-0.20 (9)	-0.25 (9)	-0.23 (9)	-0.13 (9)	-0.07 (9)	н		5
850-500	-0.37 (20)	-0.38 (21)	-0.30 (20)	-0.23 (21)	-0.02 (20)	-0.26 (21)	М	orrelation	-0.45 (10)	-0.41 (11)	-0.41 (10)	-0.37 (11)	-0.33 (10)	-0.37 (11)	М		relat
	-0.26 (5)	-0.27 (7)	-0.37 (4)	0.05 (7)	0.38 (6)	0.13 (8)	L	- inf	-0.55 (10)	-0.55 (12)	-0.50 (9)	-0.09 (12)	0.57 (11)	-0.13 (13)	L		inf Ö
0 LR	-0.47 (5)	-0.12 (7)	-0.46 (5)	-0.16 (7)	-0.43 (5)	-0.02 (8)	Н	Pearson 700 LR	-0.35 (21)	-0.37 (27)	-0.33 (21)	-0.30 (27)	-0.14 (21)	-0.31 (27)	Н		200
850-700	-0.34 (32)	-0.38 (37)	-0.31 (31)	-0.30 (37)	0.07 (32)	-0.03 (37)	М	- o	-0.27 (22)	-0.34 (24)	-0.22 (21)	-0.22 (24)	0.26 (22)	0.30 (24)	М		Pez
82	0.12 (30)	0.12 (30)	0.16 (30)	0.19 (30)	0.03 (32)	-0.01 (32)	L	- 0.040 ₺ 🕏	0.11 (24)	0.12 (24)	0.14 (24)	0.19 (24)	0.00 (26)	-0.05 (26)	L		- 0.040 툴
š	-0.34 (14)	-0.36 (15)	-0.31 (13)	-0.21 (15)	-0.06 (14)	-0.28 (15)	н	alue	-0.38 (11)	-0.41 (11)	-0.38 (10)	-0.29 (11)	-0.15 (11)	-0.41 (11)	н		alne
-Ind	-0.45 (9)	-0.25 (10)	-0.42 (9)	-0.29 (10)	-0.25 (9)	-0.20 (11)	М	- P-	-0.62 (9)	-0.34 (11)	-0.60 (9)	-0.41 (11)	-0.34 (9)	-0.10 (12)	М		\$
_	-0.40 (8)	-0.36 (8)	-0.37 (8)	-0.36 (8)	-0.18 (8)	-0.27 (8)	L	- 0.020	-0.26 (10)	-0.25 (10)	-0.20 (10)	-0.19 (10)	-0.09 (10)	-0.21 (10)	L		- 0.020
4.	-0.16 (11)	-0.05 (13)	-0.14 (11)	-0.06 (13)	0.11 (12)	-0.07 (14)	н	ŧ	-0.21 (27)	-0.29 (28)	-0.14 (27)	-0.14 (28)	0.38 (28)	0.33 (30)	н		
LCL Alt	-0.23 (36)	-0.33 (39)	-0.17 (36)	-0.20 (39)	0.21 (38)	0.16 (42)	м	T d	-0.25 (20)	-0.24 (23)	-0.23 (20)	-0.22 (23)	-0.13 (21)	-0.19 (25)	М		
_	-0.06 (19)	-0.03 (22)	-0.11 (18)	-0.01 (22)	-0.06 (20)	-0.12 (23)	L	- 0.013	-0.09 (20)	-0.05 (23)	-0.13 (19)	-0.02 (23)	-0.05 (21)	-0.12 (24)	L		- 0.013
w	-0.20 (18)	-0.17 (19)	-0.17 (17)	-0.13 (19)	-0.01 (18)	-0.00 (19)	н	u.	-0.24 (29)	-0.19 (33)	-0.25 (28)	-0.21 (33)	-0.13 (29)	-0.17 (33)	н		
ICAP	-0.28 (20)	-0.31 (23)	-0.26 (20)	-0.27 (23)	0.12 (20)	0.10 (24)	м	- 0.010	-0.32 (19)	-0.44 (20)	-0.23 (19)	-0.24 (20)	0.28 (20)	0.20 (22)	М		- 0.010
-	-0.23 (29)	-0.28 (32)	-0.16 (29)	-0.13 (32)	0.21 (33)	-0.07 (36)	L	5.510	-0.09 (18)	-0.16 (21)	-0.02 (18)	-0.07 (21)	0.27 (21)	-0.01 (24)	L	▼	
	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc	1		355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc	7		
	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc	_		
E	355-nm AOT 0.09 (20)	532-nm AOT 0.11 (22)	355-nm Ext 0.08 (19)	532-nm Ext 0.11 (22)	355-nm Bsc 0.23 (22)	532-nm Bsc 0.22 (24)	н	A	355-nm AOT -0.19 (15)	532-nm AOT -0.14 (17)	355-nm Ext -0.16 (14)	532-nm Ext -0.13 (17)	355-nm Bsc 0.10 (16)	532-nm Bsc 0.13 (18)	н		0.010
d 1 km							н	0.010							н м		- 0.010
T _d 1 km	0.09 (20)	0.11 (22)	0.08 (19)	0.11 (22)	0.23 (22)	0.22 (24)		- 0.010	-0.19 (15)	-0.14 (17)	-0.16 (14)	-0.13 (17)	0.10 (16)	0.13 (18)			- 0.010
hPa	0.09 (20) -0.24 (38)	0.11 (22) -0.21 (41)	0.08 (19) -0.23 (38)	0.11 (22) -0.19 (41)	0.23 (22) -0.06 (40)	0.22 (24) -0.19 (44)		- 0.013	-0.19 (15) -0.19 (42) -0.48 (10) 0.31 (13)	-0.14 (17) -0.17 (45)	-0.16 (14) -0.18 (42)	-0.13 (17) -0.14 (45)	0.10 (16) -0.03 (45)	0.13 (18) -0.13 (48)	м		- 0.010
925 hPa	0.09 (20) -0.24 (38) -0.49 (9)	0.11 (22) -0.21 (41) -0.54 (11)	0.08 (19) -0.23 (38) -0.19 (9)	0.11 (22) -0.19 (41) -0.33 (11)	0.23 (22) -0.06 (40) 0.75 (9)	0.22 (24) -0.19 (44) 0.38 (11)	M L	- 0.013 - Ed 27	-0.19 (15) -0.19 (42) -0.48 (10) 0.31 (13) -0.23 (44)	-0.14 (17) -0.17 (45) -0.53 (13)	-0.16 (14) -0.18 (42) -0.32 (10)	-0.13 (17) -0.14 (45) -0.38 (13)	0.10 (16) -0.03 (45) 0.61 (10)	0.13 (18) -0.13 (48) 0.31 (13) 0.26 (17) -0.18 (48)	M L		
hPa	0.09 (20) -0.24 (38) -0.49 (9) 0.01 (26)	0.11 (22) -0.21 (41) -0.54 (11) 0.02 (29)	0.08 (19) -0.23 (38) -0.19 (9) -0.02 (25)	0.11 (22) -0.19 (41) -0.33 (11) 0.02 (29)	0.23 (22) -0.06 (40) 0.75 (9) -0.02 (27)	0.22 (24) -0.19 (44) 0.38 (11) -0.03 (31)	M L H	- 0.013	-0.19 (15) -0.19 (42) -0.48 (10) 0.31 (13) -0.23 (44)	-0.14 (17) -0.17 (45) -0.53 (13) 0.29 (15)	-0.16 (14) -0.18 (42) -0.32 (10) 0.33 (12)	-0.13 (17) -0.14 (45) -0.38 (13) 0.38 (15)	0.10 (16) -0.03 (45) 0.61 (10) 0.28 (15)	0.13 (18) -0.13 (48) 0.31 (13) 0.26 (17)	M L H		
LR T _d 925 hPa	0.09 (20) -0.24 (38) -0.49 (9) 0.01 (26) -0.25 (31)	0.11 (22) -0.21 (41) -0.54 (11) 0.02 (29) -0.23 (32)	0.08 (19) -0.23 (38) -0.19 (9) -0.02 (25) -0.23 (31)	0.11 (22) -0.19 (41) -0.33 (11) 0.02 (29) -0.20 (32)	0.23 (22) -0.06 (40) 0.75 (9) -0.02 (27) -0.04 (33)	0.22 (24) -0.19 (44) 0.38 (11) -0.03 (31) -0.22 (35)	M L H	- 0.013 44 - 0.013 56 - 0.020 83	-0.19 (15) -0.19 (42) -0.48 (10) 0.31 (13) -0.23 (44)	-0.14 (17) -0.17 (45) -0.53 (13) 0.29 (15) -0.19 (46)	-0.16 (14) -0.18 (42) -0.32 (10) 0.33 (12) -0.23 (44)	-0.13 (17) -0.14 (45) -0.38 (13) 0.38 (15) -0.20 (46)	0.10 (16) -0.03 (45) 0.61 (10) 0.28 (15) -0.08 (45)	0.13 (18) -0.13 (48) 0.31 (13) 0.26 (17) -0.18 (48)	M L H		
500 LR T _d 925 pPa	0.09 (20) -0.24 (38) -0.49 (9) 0.01 (26) -0.25 (31) -0.54 (10)	0.11 (22) -0.21 (41) -0.54 (11) 0.02 (29) -0.23 (32) -0.54 (13)	0.08 (19) -0.23 (38) -0.19 (9) -0.02 (25) -0.23 (31) -0.34 (10)	0.11 (22) -0.19 (41) -0.33 (11) 0.02 (29) -0.20 (32) -0.36 (13)	0.23 (22) -0.06 (40) 0.75 (9) -0.02 (27) -0.04 (33) 0.47 (10)	0.22 (24) -0.19 (44) 0.38 (11) -0.03 (31) -0.22 (35) 0.26 (13)	M L H M L	- 0.013 44 - 0.013 56 - 0.020 83	-0.19 (15) -0.19 (42) -0.48 (10) 0.31 (13) -0.23 (44) -0.54 (10)	-0.14 (17) -0.17 (45) -0.53 (13) 0.29 (15) -0.19 (46) -0.54 (13)	-0.16 (14) -0.18 (42) -0.32 (10) 0.33 (12) -0.23 (44) -0.34 (10)	-0.13 (17) -0.14 (45) -0.38 (13) 0.38 (15) -0.20 (46) -0.36 (13)	0.10 (16) -0.03 (45) 0.61 (10) 0.28 (15) -0.08 (45) 0.49 (11)	0.13 (18) -0.13 (48) 0.31 (13) 0.26 (17) -0.18 (48) 0.27 (14)	M L H M L		- 0.013
LR T _d 925 hPa	0.09 (20) -0.24 (38) -0.49 (9) 0.01 (26) -0.25 (31) -0.54 (10) -0.00 (10)	0.11 (22) -0.21 (41) -0.54 (11) 0.02 (29) -0.23 (32) -0.54 (13) -0.05 (10)	0.08 (19) -0.23 (38) -0.19 (9) -0.02 (25) -0.23 (31) -0.34 (10) 0.07 (10)	0.11 (22) -0.19 (41) -0.33 (11) 0.02 (29) -0.20 (32) -0.36 (13) 0.07 (10)	0.23 (22) -0.06 (40) 0.75 (9) -0.02 (27) -0.04 (33) 0.47 (10) 0.16 (10)	0.22 (24) -0.19 (44) 0.38 (11) -0.03 (31) -0.22 (35) 0.26 (13) 0.05 (10)	M L H M L	efficient 7200-500 IR 71, 925 hps 71. 1	-0.19 (15) -0.19 (42) -0.48 (10) 0.31 (13) -0.23 (44) -0.54 (10) 0.15 (8)	-0.14 (17) -0.17 (45) -0.53 (13) 0.29 (15) -0.19 (46) -0.54 (13) 0.05 (8)	-0.16 (14) -0.18 (42) -0.32 (10) 0.33 (12) -0.23 (44) -0.34 (10) 0.24 (8)	-0.13 (17) -0.14 (45) -0.38 (13) 0.38 (15) -0.20 (46) -0.36 (13) 0.23 (8)	0.10 (16) -0.03 (45) 0.61 (10) 0.28 (15) -0.08 (45) 0.49 (11) 0.36 (8)	0.13 (18) -0.13 (48) 0.31 (13) 0.26 (17) -0.18 (48) 0.27 (14) 0.26 (8)	M L H M L H		- 0.013 - 0.020 - 14gcent
LR 700-500 LR T _d 925 hPa	0.09 (20) -0.24 (38) -0.49 (9) 0.01 (26) -0.25 (31) -0.54 (10) -0.00 (10) -0.40 (11)	0.11 (22) -0.21 (41) -0.54 (11) 0.02 (29) -0.23 (32) -0.54 (13) -0.05 (10) -0.39 (11)	0.08 (19) -0.23 (38) -0.19 (9) -0.02 (25) -0.23 (31) -0.34 (10) 0.07 (10) -0.41 (11)	0.11 (22) -0.19 (41) -0.33 (11) 0.02 (29) -0.20 (32) -0.36 (13) 0.07 (10) -0.41 (11)	0.23 (22) -0.06 (40) 0.75 (9) -0.02 (27) -0.04 (33) 0.47 (10) 0.16 (10) -0.38 (11)	0.22 (24) -0.19 (44) 0.38 (11) -0.03 (31) -0.22 (35) 0.26 (13) 0.05 (10) -0.41 (11)	M L H M L	Coefficient 0.000 - Coefficient 0.000 - Coefficient 0.000 - Coefficient 17,005500 LR 72,005500 L	-0.19 (15) -0.19 (42) -0.48 (10) 0.31 (13) -0.23 (44) -0.54 (10) 0.15 (8) -0.41 (17)	-0.14 (17) -0.17 (45) -0.53 (13) 0.29 (15) -0.19 (46) -0.54 (13) 0.05 (8) -0.38 (17)	-0.16 (14) -0.18 (42) -0.32 (10) 0.33 (12) -0.23 (44) -0.34 (10) 0.24 (8) -0.42 (17)	-0.13 (17) -0.14 (45) -0.38 (13) 0.38 (15) -0.20 (46) -0.36 (13) 0.23 (8) -0.42 (17)	0.10 (16) -0.03 (45) 0.61 (10) 0.28 (15) -0.08 (45) 0.49 (11) 0.36 (8) -0.41 (17)	0.13 (18) -0.13 (48) 0.31 (13) 0.26 (17) -0.18 (48) 0.27 (14) 0.26 (8) -0.44 (17)	M L H M L H		- 0.013
LR 700-500 LR T _d 925 hPa	0.09 (20) -0.24 (38) -0.49 (9) 0.01 (26) -0.25 (31) -0.54 (10) -0.00 (10) -0.40 (11) -0.50 (9)	0.11 (22) -0.21 (41) -0.54 (11) 0.02 (29) -0.23 (32) -0.54 (13) -0.05 (10) -0.39 (11) -0.52 (11)	0.08 (19) -0.23 (38) -0.19 (9) -0.02 (25) -0.23 (31) -0.34 (10) 0.07 (10) -0.41 (11) -0.48 (8)	0.11 (22) -0.19 (41) -0.33 (11) 0.02 (29) -0.20 (32) -0.36 (13) 0.07 (10) -0.41 (11) -0.19 (11)	0.23 (22) -0.06 (40) 0.75 (9) -0.02 (27) -0.04 (33) 0.47 (10) 0.16 (10) -0.38 (11) 0.17 (9)	0.22 (24) -0.19 (44) 0.38 (11) -0.03 (31) -0.22 (35) 0.26 (13) 0.05 (10) -0.41 (11) -0.22 (12)	M L H M L H M L	Coefficient 0.000 - Coefficient 0.000 - Coefficient 0.000 - Coefficient 17,005500 LR 72,005500 L	-0.19 (15) -0.19 (42) -0.48 (10) 0.31 (13) -0.23 (44) -0.54 (10) 0.15 (8) -0.41 (17) -0.51 (6)	-0.14 (17) -0.17 (45) -0.53 (13) 0.29 (15) -0.19 (46) -0.54 (13) 0.05 (8) -0.38 (17) -0.55 (9)	-0.16 (14) -0.18 (42) -0.32 (10) 0.33 (12) -0.23 (44) -0.34 (10) 0.24 (8) -0.42 (17) -0.59 (5)	-0.13 (17) -0.14 (45) -0.38 (13) 0.38 (15) -0.20 (46) -0.36 (13) 0.23 (8) -0.42 (17) 0.23 (9)	0.10 (16) -0.03 (45) 0.61 (10) 0.28 (15) -0.08 (45) 0.49 (11) 0.36 (8) -0.41 (17) 0.67 (7)	0.13 (18) -0.13 (48) 0.31 (13) 0.26 (17) -0.18 (48) 0.27 (14) 0.26 (8) -0.44 (17) 0.04 (9)	M L H M L		- 0.013 - 0.020 - 14gcent
700-500 LR T _d 925 hPa	0.09 (20) -0.24 (38) -0.49 (9) 0.01 (26) -0.25 (31) -0.54 (10) -0.00 (10) -0.40 (11) -0.50 (9) -0.37 (7)	0.11 (22) -0.21 (41) -0.54 (11) 0.02 (29) -0.23 (32) -0.54 (13) -0.05 (10) -0.39 (11) -0.52 (11) -0.31 (7)	0.08 (19) -0.23 (38) -0.19 (9) -0.02 (25) -0.23 (31) -0.34 (10) 0.07 (10) -0.41 (11) -0.48 (8) -0.35 (7)	0.11 (22) -0.19 (41) -0.33 (11) 0.02 (29) -0.20 (32) -0.36 (13) 0.07 (10) -0.41 (11) -0.19 (11)	0.23 (22) -0.06 (40) 0.75 (9) -0.02 (27) -0.04 (33) 0.47 (10) 0.16 (10) -0.38 (11) 0.17 (9) -0.26 (7)	0.22 (24) -0.19 (44) 0.38 (11) -0.03 (31) -0.22 (35) 0.26 (13) 0.05 (10) -0.41 (11) -0.22 (12) -0.17 (7)	M L H M L H M L H	elation Coefficient 0500	-0.19 (15) -0.19 (42) -0.48 (10) 0.31 (13) -0.23 (44) -0.54 (10) 0.15 (8) -0.41 (17) -0.51 (6) -0.37 (7)	-0.14 (17) -0.17 (45) -0.53 (13) 0.29 (15) -0.19 (46) -0.54 (13) 0.05 (8) -0.38 (17) -0.55 (9) -0.31 (7)	-0.16 (14) -0.18 (42) -0.32 (10) 0.33 (12) -0.23 (44) -0.34 (10) 0.24 (8) -0.42 (17) -0.59 (5) -0.35 (7)	-0.13 (17) -0.14 (45) -0.38 (13) 0.38 (15) -0.20 (46) -0.36 (13) 0.23 (8) -0.42 (17) 0.23 (9) -0.34 (7)	0.10 (16) -0.03 (45) 0.61 (10) 0.28 (15) -0.08 (45) 0.49 (11) 0.36 (8) -0.41 (17) 0.67 (7) -0.26 (7)	0.13 (18) -0.13 (48) 0.31 (13) 0.26 (17) -0.18 (48) 0.27 (14) 0.26 (8) -0.44 (17) 0.04 (9) -0.17 (7)	N T N T N T N T N		- 0.013 - 0.000 - 0.00
LR 850-500 LR 700-500 LR T _d 925 hPa	0.09 (20) -0.24 (38) -0.49 (9) 0.01 (26) -0.25 (31) -0.54 (10) -0.00 (10) -0.40 (11) -0.50 (9) -0.37 (7) -0.41 (17)	0.11 (22) -0.21 (41) -0.54 (11) 0.02 (29) -0.23 (32) -0.54 (13) -0.05 (10) -0.39 (11) -0.52 (11) -0.31 (7) -0.43 (18)	0.08 (19) -0.23 (38) -0.19 (9) -0.02 (25) -0.23 (31) -0.34 (10) 0.07 (10) -0.41 (11) -0.48 (8) -0.35 (7) -0.34 (17)	0.11 (22) -0.19 (41) -0.33 (11) 0.02 (29) -0.20 (32) -0.36 (13) 0.07 (10) -0.41 (11) -0.19 (11) -0.34 (7) -0.28 (18)	0.23 (22) -0.06 (40) 0.75 (9) -0.02 (27) -0.04 (33) 0.47 (10) 0.16 (10) -0.38 (11) 0.17 (9) -0.26 (7) -0.05 (17)	0.22 (24) -0.19 (44) 0.38 (11) -0.03 (31) -0.22 (35) 0.26 (13) 0.05 (10) -0.41 (11) -0.22 (12) -0.17 (7) -0.31 (18)	M L H M L H M L H	on Correlation Coefficient 120-0-1 Jul 1905-00-1 Jul 850-500 IR 700-50 IR 1, 905-19-2 17, 1	-0.19 (15) -0.19 (42) -0.48 (10) 0.31 (13) -0.23 (44) -0.54 (10) 0.15 (8) -0.41 (17) -0.51 (6) -0.37 (7) -0.41 (17)	-0.14 (17) -0.17 (45) -0.53 (13) 0.29 (15) -0.19 (46) -0.54 (13) 0.05 (8) -0.38 (17) -0.55 (9) -0.31 (7) -0.43 (18)	-0.16 (14) -0.18 (42) -0.32 (10) 0.33 (12) -0.23 (44) -0.34 (10) 0.24 (8) -0.42 (17) -0.59 (5) -0.35 (7) -0.34 (17)	-0.13 (17) -0.14 (45) -0.38 (13) 0.38 (15) -0.20 (46) -0.36 (13) 0.23 (8) -0.42 (17) 0.23 (9) -0.34 (7) -0.28 (18)	0.10 (16) -0.03 (45) 0.61 (10) 0.28 (15) -0.08 (45) 0.49 (11) 0.36 (8) -0.41 (17) 0.67 (7) -0.26 (7) -0.05 (17)	0.13 (18) -0.13 (48) 0.31 (13) 0.26 (17) -0.18 (48) 0.27 (14) 0.26 (8) -0.44 (17) 0.04 (9) -0.17 (7) -0.31 (18)	N T N T N T N T N		- 0.013 - 0.020 - 14gcent
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x 850-700 LR 850-500 LR 700-500 LR T _d 925 hPa	0.09 (20) -0.24 (38) -0.49 (9) 0.01 (26) -0.25 (31) -0.54 (10) -0.00 (10) -0.40 (11) -0.50 (9) -0.37 (7) -0.41 (17) -0.50 (7) -0.50 (9) -0.29 (32)	0.11 (22) -0.21 (41) -0.54 (11) 0.02 (29) -0.23 (32) -0.54 (13) -0.05 (10) -0.39 (11) -0.52 (11) -0.31 (7) -0.43 (18) -0.39 (9) -0.45 (12)	0.08 (19) -0.23 (38) -0.19 (9) -0.02 (25) -0.23 (31) -0.34 (10) 0.07 (10) -0.41 (11) -0.48 (8) -0.35 (7) -0.36 (17) -0.62 (6) -0.47 (9) -0.25 (31)	0.11 (22) -0.19 (41) -0.33 (11) 0.02 (29) -0.20 (32) -0.36 (13) 0.07 (10) -0.41 (11) -0.19 (11) -0.34 (7) -0.28 (18) -0.23 (9) -0.34 (12) -0.26 (36)	0.23 (22) -0.06 (40) 0.75 (9) -0.02 (27) -0.04 (33) 0.47 (10) 0.16 (10) -0.38 (11) 0.17 (9) -0.26 (7) -0.05 (17) 0.20 (8) -0.08 (9) 0.13 (32)	0.22 (24) -0.19 (44) 0.38 (11) -0.03 (31) -0.22 (35) 0.26 (13) 0.05 (10) -0.41 (11) -0.22 (12) -0.17 (7) -0.31 (18) -0.07 (9) -0.36 (13) 0.12 (36)	M	10 - 0.000 Ft. 100 200 Ft. 100	-0.19 (15) -0.19 (42) -0.48 (10) 0.31 (13) -0.23 (44) -0.54 (10) 0.15 (8) -0.41 (17) -0.51 (6) -0.37 (7) -0.41 (17) -0.50 (7) -0.47 (14) -0.15 (36)	-0.14 (17) -0.17 (45) -0.53 (13) 0.29 (15) -0.19 (46) -0.54 (13) 0.05 (8) -0.38 (17) -0.55 (9) -0.31 (7) -0.43 (18) -0.39 (9) -0.44 (19) -0.23 (37)	-0.16 (14) -0.18 (42) -0.32 (10) 0.33 (12) -0.23 (44) -0.34 (10) 0.24 (8) -0.42 (17) -0.59 (5) -0.35 (7) -0.36 (17) -0.62 (6) -0.44 (14) -0.07 (35)	-0.13 (17) -0.14 (45) -0.38 (13) 0.38 (15) -0.20 (46) -0.36 (13) 0.23 (8) -0.42 (17) 0.23 (9) -0.34 (7) -0.28 (18) -0.23 (9) -0.36 (19) -0.09 (37)	0.10 (16) -0.03 (45) 0.61 (10) 0.28 (15) -0.08 (45) 0.49 (11) 0.36 (8) -0.41 (17) -0.26 (7) -0.05 (17) 0.20 (8) -0.25 (14) 0.34 (36)	0.13 (18) -0.13 (48) 0.31 (13) 0.26 (17) -0.18 (48) 0.27 (14) 0.26 (8) -0.44 (17) 0.04 (9) -0.17 (7) -0.31 (18) -0.07 (9) -0.38 (20) 0.34 (38)	8 1 1 8 1 1 8 1 1		- 0.013 - 0.013 - 0.000 - 0.00
x 850-700 LR 850-500 LR 700-500 LR T _d 925 hPa	0.09 (20) -0.24 (38) -0.49 (9) 0.01 (26) -0.25 (31) -0.54 (10) -0.00 (10) -0.40 (11) -0.50 (9) -0.37 (7) -0.41 (17) -0.50 (9) -0.50 (7) -0.50 (9) -0.29 (32) 0.12 (27)	0.11 (22) -0.21 (41) -0.54 (11) -0.54 (11) -0.22 (29) -0.23 (32) -0.54 (13) -0.05 (10) -0.39 (11) -0.43 (18) -0.39 (9) -0.45 (12) -0.34 (36) -0.12 (27)	0.08 (19) -0.23 (38) -0.19 (9) -0.02 (25) -0.23 (31) -0.34 (10) -0.77 (10) -0.41 (11) -0.48 (8) -0.35 (7) -0.34 (17) -0.62 (6) -0.47 (9) -0.25 (31) 0.14 (27)	0.11 (22) -0.19 (41) -0.33 (11) -0.20 (32) -0.20 (32) -0.36 (13) -0.07 (10) -0.41 (11) -0.19 (11) -0.28 (18) -0.23 (9) -0.34 (12) -0.26 (36) -0.17 (27)	0.23 (22) -0.06 (40) 0.75 (9) -0.02 (27) -0.04 (33) 0.47 (10) 0.16 (10) -0.38 (11) 0.17 (9) -0.26 (7) -0.05 (17) 0.20 (8) -0.08 (9) 0.13 (32) 0.01 (28)	0.22 (24) -0.19 (44) -0.38 (11) -0.03 (11) -0.02 (13) -0.05 (10) -0.41 (11) -0.22 (12) -0.17 (7) -0.31 (18) -0.07 (9) -0.36 (13) -0.12 (36) -0.03 (28)	M L H M L H M L H M L	10 - 0.000 Ft. 100 200 Ft. 100	-0.19 (15) -0.19 (42) -0.48 (10) 0.31 (13) -0.23 (44) -0.54 (10) 0.15 (8) -0.41 (17) -0.51 (6) -0.37 (7) -0.41 (17) -0.50 (7) -0.47 (14) -0.15 (36) -0.12 (18)	-0.14 (17) -0.17 (45) -0.53 (13) -0.29 (15) -0.19 (46) -0.54 (13) -0.05 (8) -0.38 (17) -0.55 (9) -0.31 (7) -0.43 (18) -0.39 (9) -0.44 (19) -0.23 (37) -0.01 (18)	-0.16 (14) -0.18 (42) -0.32 (10) 0.33 (12) -0.23 (44) -0.34 (10) 0.24 (8) -0.42 (17) -0.59 (5) -0.35 (7) -0.34 (17) -0.62 (6) -0.44 (14) -0.07 (35) -0.19 (18)	-0.13 (17) -0.14 (45) -0.38 (13) -0.38 (15) -0.20 (46) -0.36 (13) -0.23 (8) -0.42 (17) -0.28 (18) -0.23 (9) -0.34 (7) -0.28 (18) -0.23 (9) -0.36 (19) -0.09 (18)	0.10 (16) -0.03 (45) 0.61 (10) 0.28 (15) -0.08 (45) 0.49 (11) 0.36 (8) -0.41 (17) 0.67 (7) -0.26 (7) -0.05 (17) 0.20 (8) -0.25 (14) 0.34 (36) -0.09 (18)	0.13 (18) -0.13 (48) 0.31 (13) 0.26 (17) -0.18 (48) 0.27 (14) 0.26 (8) -0.44 (17) 0.04 (9) -0.17 (7) -0.31 (18) -0.07 (9) -0.32 (20) 0.34 (38) -0.15 (18)	8		- 0.013 - 0.020 - 0.040 Coefficient - on on on one of one
700 LR 850-500 LR 700-500 LR T _d 925 µPa	0.09 (20) -0.24 (38) -0.49 (9) 0.01 (26) -0.25 (31) -0.54 (10) -0.00 (10) -0.40 (11) -0.50 (9) -0.37 (7) -0.41 (17) -0.50 (7) -0.29 (32) -0.29 (32) -0.34 (13)	0.11 (22) -0.21 (41) -0.54 (13) -0.02 (29) -0.22 (32) -0.54 (13) -0.05 (10) -0.39 (11) -0.31 (7) -0.43 (18) -0.39 (9) -0.45 (12) -0.34 (36) -0.34 (36) -0.34 (36) -0.34 (36)	0.08 (19) -0.23 (38) -0.19 (9) -0.02 (23) -0.02 (23) -0.34 (10) -0.7 (10) -0.41 (11) -0.48 (8) -0.35 (7) -0.34 (17) -0.62 (6) -0.47 (9) -0.25 (31) -0.14 (27) -0.31 (12)	0.11 (22) -0.19 (41) -0.3 (11) 0.02 (29) -0.26 (32) -0.36 (13) 0.07 (10) -0.41 (11) -0.34 (7) -0.28 (18) -0.23 (9) -0.34 (27) -0.26 (36) -0.77 (27) -0.23 (13)	0.23 (22) -0.06 (40) 0.75 (9) -0.02 (27) -0.04 (33) 0.47 (10) 0.16 (10) -0.38 (11) -0.7 (9) -0.26 (7) -0.05 (17) -0.20 (8) -0.08 (9) -0.13 (32) -0.01 (28) -0.06 (13)	0.22 (24) -0.19 (44) -0.88 (11) -0.03 (31) -0.22 (35) -0.26 (13) -0.57 (10) -0.41 (11) -0.22 (12) -0.17 (7) -0.31 (18) -0.07 (9) -0.36 (13) -0.12 (36) -0.03 (28) -0.32 (13)	M L H M L H M L H M L H	- 0.013 - 0.013 - 0.000 - 0.00	-0.19 (15) -0.19 (42) -0.48 (10) -0.31 (13) -0.23 (44) -0.54 (10) -0.15 (8) -0.41 (17) -0.51 (6) -0.37 (7) -0.41 (17) -0.50 (7) -0.47 (14) -0.15 (36) -0.12 (18) -0.33 (9)	-0.14 (17) -0.17 (45) -0.53 (13) 0.29 (15) -0.19 (46) -0.54 (13) 0.05 (8) -0.38 (17) -0.55 (9) -0.31 (7) -0.43 (18) -0.39 (9) -0.44 (19) -0.23 (37) -0.11 (18)	-0.16 (14) -0.18 (42) -0.32 (10) -0.32 (14) -0.34 (10) -0.24 (8) -0.42 (17) -0.59 (5) -0.35 (7) -0.34 (17) -0.62 (6) -0.44 (14) -0.07 (35) -0.019 (18) -0.30 (8)	-0.13 (17) -0.14 (45) -0.38 (15) -0.20 (46) -0.36 (13) -0.23 (8) -0.42 (17) -0.28 (18) -0.23 (9) -0.36 (19) -0.09 (37) -0.09 (17)	0.10 (16) -0.03 (45) 0.61 (10) 0.28 (15) -0.08 (45) 0.49 (11) 0.36 (8) -0.41 (17) -0.67 (7) -0.05 (17) -0.20 (8) -0.25 (14) -0.34 (36) -0.09 (18) 0.02 (9)	0.13 (18) -0.13 (48) 0.31 (13) 0.26 (17) -0.18 (48) 0.27 (14) 0.26 (8) -0.44 (17) -0.31 (18) -0.07 (9) -0.38 (20) -0.34 (38) -0.15 (18) -0.37 (9)	M		- 0.013 - 0.013 - 0.000 - 0.00
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Ajt Kındex 850-700 LR 850-500 LR , 700-500 LR T _d 925 j _P Pa	0.09 (20) -0.24 (38) -0.49 (9) -0.01 (26) -0.25 (31) -0.54 (10) -0.00 (10) -0.00 (10) -0.37 (7) -0.40 (11) -0.50 (9) -0.37 (7) -0.44 (17) -0.50 (9) -0.29 (32) -0.12 (27) -0.34 (13) -0.62 (9) -0.21 (18) -0.22 (29) -0.08 (20) -0.08 (23) -0.28 (23) -0.31 (19)	0.11 (22) -0.21 (41) -0.54 (11) -0.54 (11) -0.54 (13) -0.02 (29) -0.23 (32) -0.54 (13) -0.05 (10) -0.39 (11) -0.39 (11) -0.35 (11) -0.31 (7) -0.45 (12) -0.45 (12) -0.45 (12) -0.36 (11) -0.26 (9) -0.33 (19) -0.22 (32) -0.22 (32) -0.22 (32) -0.21 (25) -0.37 (22)	0.08 (19) -0.23 (38) -0.19 (25) -0.02 (25) -0.23 (31) -0.34 (10) -0.7 (10) -0.41 (11) -0.48 (8) -0.35 (7) -0.34 (17) -0.47 (9) -0.25 (31) -0.47 (9) -0.25 (31) -0.41 (27) -0.31 (12) -0.60 (9) -0.25 (9) -0.12 (18) -0.19 (29) -0.13 (19) -0.26 (22) -0.25 (19)	0.11 (22) -0.19 (41) -0.33 (11) -0.33 (11) -0.02 (29) -0.20 (32) -0.36 (13) -0.7 (10) -0.41 (11) -0.19 (11) -0.34 (7) -0.28 (18) -0.23 (12) -0.26 (36) -0.17 (27) -0.23 (13) -0.24 (9) -0.16 (19) -0.18 (32) -0.22 (25) -0.22 (25)	0.23 (22) -0.06 (40) 0.75 (9) -0.02 (27) -0.04 (33) 0.47 (10) 0.16 (10) -0.38 (11) 0.17 (9) -0.26 (7) -0.05 (17) -0.05 (17) 0.20 (8) -0.06 (9) 0.13 (32) 0.01 (28) -0.06 (13) -0.05 (9) 0.51 (18) -0.06 (31) -0.06 (21) -0.06 (21) -0.06 (21)	0.22 (24) -0.19 (44) 0.38 (11) -0.03 (31) -0.02 (35) 0.26 (13) 0.05 (10) -0.41 (11) -0.22 (12) -0.17 (7) -0.31 (18) -0.36 (13) 0.12 (36) -0.30 (28) -0.32 (13) -0.32 (13) -0.33 (12) -0.23 (9) 0.44 (20) -0.14 (25) -0.12 (24)	M	- 0.013 - 0.013 - 0.013 - 0.013 - 0.013 - 0.013 - 0.013 - 0.013 - 0.013 - 0.013 - 0.013 - 0.013 - 0.013	-0.19 (15) -0.19 (42) -0.48 (10) -0.31 (13) -0.23 (44) -0.54 (10) -0.15 (8) -0.41 (17) -0.51 (6) -0.37 (7) -0.41 (17) -0.50 (7) -0.47 (14) -0.15 (36) -0.12 (18) -0.33 (9) -0.40 (8) -0.28 (20) -0.19 (30) -0.10 (30) -0.10 (62) -0.26 (22) -0.26 (32)	-0.14 (17) -0.17 (45) -0.53 (13) -0.53 (13) -0.9 (15) -0.19 (46) -0.54 (13) -0.05 (8) -0.38 (17) -0.55 (9) -0.31 (7) -0.43 (18) -0.39 (9) -0.23 (37) -0.11 (18) -0.38 (9) -0.30 (17) -0.36 (8) -0.37 (22) -0.18 (34) -0.19 (24) -0.34 (36)	-0.16 (14) -0.18 (42) -0.32 (10) -0.33 (12) -0.34 (10) -0.42 (17) -0.59 (5) -0.35 (7) -0.34 (17) -0.59 (5) -0.34 (17) -0.59 (17) -0.59 (18) -0.41 (14) -0.7 (35) -0.19 (18) -0.30 (37) -0.41 (14) -0.37 (8) -0.20 (20) -0.16 (30) -0.12 (51) -0.20 (21) -0.20 (21)	-0.13 (17) -0.14 (45) -0.38 (15) -0.20 (46) -0.36 (13) 0.23 (8) -0.42 (17) -0.28 (18) -0.36 (19) -0.36 (19) -0.36 (19) -0.36 (19) -0.36 (19) -0.36 (19) -0.36 (19) -0.36 (19) -0.36 (19) -0.36 (19) -0.21 (20) -0.21 (21) -0.21 (24) -0.19 (36)	0.10 (16) -0.03 (45) 0.61 (10) 0.28 (15) -0.08 (45) -0.08 (45) -0.49 (11) 0.36 (8) -0.41 (17) -0.26 (7) -0.26 (7) -0.26 (7) -0.25 (14) 0.34 (36) -0.09 (18) 0.02 (9) -0.29 (15) -0.18 (8) 0.42 (22) -0.04 (31) -0.05 (18) -0.11 (22) 0.25 (35)	0.13 (18) -0.13 (48) 0.31 (13) 0.26 (17) -0.18 (48) 0.27 (14) 0.26 (8) -0.44 (17) -0.03 (18) -0.17 (7) -0.31 (18) -0.31 (20) 0.34 (38) -0.15 (18) -0.27 (18) -0.27 (18) -0.27 (18) -0.27 (18) -0.27 (18) -0.27 (24) -0.013 (19) -0.13 (19) -0.13 (19) -0.13 (19) -0.13 (19) -0.13 (19) -0.13 (19) -0.13 (19) -0.13 (19) -0.13 (19) -0.13 (19)	M		- 0.020 to 100 t

Figure S6: As in Fig. S4 but using p95 AMPR 19.35-GHz PCT as the convective parameter.

	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			
_	0.17 (19)	0.19 (21)	0.16 (18)	0.20 (21)	0.32 (21)	0.33 (23)	н	A .	0.15 (22)	0.16 (24)	0.14 (21)	0.17 (24)	0.30 (24)	0.33 (26)	н	\blacktriangle	
1 km	-0.35 (42)	-0.34 (45)	-0.35 (42)	-0.32 (45)	0.04 (44)	-0.03 (47)	м	0.010	-0.21 (30)	-0.19 (31)	-0.22 (30)	-0.21 (31)	0.05 (32)	-0.10 (34)	м	9	0.010
ř	0.16 (5)	-0.05 (8)	0.30 (5)	0.18 (8)	0.32 (5)	0.22 (8)	L	P.	-0.73 (14)	-0.51 (18)	-0.68 (14)	-0.44 (18)	-0.16 (14)	-0.03 (18)	L		
Pa	-0.07 (30)	-0.05 (34)	-0.05 (29)	-0.01 (34)	0.04 (32)	0.03 (36)	н		0.19 (20)	0.10 (23)	0.17 (19)	0.16 (23)	0.36 (22)	0.25 (25)	н		
925 h	-0.45 (27)	-0.47 (28)	-0.44 (27)	-0.42 (28)	0.06 (29)	-0.03 (31)	м	- 0.013	-0.31 (29)	-0.22 (31)	-0.31 (29)	-0.25 (31)	-0.01 (30)	-0.08 (33)	м	,	0.013
6 p	-0.21 (9)	-0.14 (11)	-0.10 (9)	-0.04 (11)	-0.10 (9)	-0.05 (11)		1		-0.48 (19)	-0.54 (17)	-0.44 (19)	-0.07 (18)	-0.03 (20)			
œ	0.15 (9)	0.11 (9)	0.21 (9)	0.22 (9)	0.28 (9)	0.22 (9)	Н	- 0.020 =	0.19 (10)	0.18 (10)	0.24 (10)	0.24 (10)	0.16 (10)	0.21 (10)	H H		0.020
000	-0.47 (14)	-0.42 (14)	-0.48 (14)	-0.48 (14)	-0.48 (14)	-0.47 (14)	м			-0.48 (11)	-0.52 (11)	-0.51 (11)	-0.43 (11)	-0.44 (11)	м		U.U2U #
700-500	-0.58 (7)	-0.52 (9)	-0.82 (6)	0.13 (9)	0.69 (8)	0.23 (10)	,"	fficient 700-500	-0.56 (8)	-0.45 (10)	-0.85 (7)	-0.18 (10)	0.40 (9)	0.01 (11)	l"		fie
<u>"</u>	-0.62 (5)	-0.59 (5)	-0.60 (5)	-0.60 (5)	-0.51 (5)	-0.44 (5)	H	- 0.040 0		-0.20 (9)	-0.22 (9)	-0.21 (9)	-0.15 (9)	-0.05 (9)	li I	-	0.040 🖔
00 L	-0.02 (3)	-0.19 (20)	-0.14 (19)	-0.07 (20)	0.10 (19)	-0.03 (20)	М			-0.26 (10)	-0.22 (9)	-0.23 (10)	-0.21 (9)	-0.17 (10)	м		tion
850-500	-0.08 (5)	-0.19 (20)	-0.66 (4)	-0.28 (7)	0.01 (6)	0.02 (8)	."		-0.51 (10)	-0.41 (12)	-0.64 (9)	-0.23 (10)	0.28 (11)	-0.18 (13)	"		rela
8	-0.53 (5)	-0.03 (7)	-0.57 (5)	-0.28 (7)	-0.50 (5)	-0.13 (8)	ļ,	- inf	-0.31 (10)	-0.41 (12)	-0.39 (20)	-0.31 (12)	-0.20 (20)	-0.18 (13)		- 1	inf 0
.700 LI		-0.40 (36)					1	earso 700 L									arso
350-7	-0.39 (31) 0.19 (30)		-0.38 (30)	-0.34 (36) 0.25 (30)	0.00 (31)	-0.04 (36)	M	- d	-0.33 (22)	-0.36 (24)	-0.32 (21)	-0.27 (24)	0.14 (22)	0.23 (24)	M		8
00		0.17 (30)	0.23 (30)		0.01 (02)	0.02 (32)	1	- 0.040 💆	0.13 (24)	0.13 (24)	0.16 (24)	0.19 (24)	-0.01 (26)	-0.04 (26)		- 0	0.040 💆
ě	-0.36 (14)	-0.33 (15)	-0.35 (13)	-0.24 (15)	-0.14 (14)	-0.19 (15)	Н	P-value	-0.39 (11)	-0.40 (11)	-0.41 (10)	-0.33 (11)	-0.20 (11)	-0.34 (11)	Н		valu
ķ	-0.13 (8)	0.12 (9)	-0.14 (8)	-0.02 (9)	0.08 (9)	0.19 (10)	М	- 3	-0.57 (8)	-0.04 (10)	-0.43 (8)	-0.25 (10)	0.14 (9)	0.33 (11)	М		<u>.</u>
	-0.43 (8)	-0.35 (8)	-0.39 (8)	-0.37 (8)	-0.21 (8)	-0.25 (8)	ļL.	- 0.020	-0.17 (10)	-0.14 (10)	-0.12 (10)	-0.11 (10)	-0.01 (10)	-0.10 (10)	L	•	0.020
₹.	-0.41 (11)	-0.22 (13)	-0.37 (11)	-0.19 (13)	-0.08 (12)	-0.15 (14)	Н	ā	-0.32 (27)	-0.34 (28)	-0.26 (27)	-0.23 (28)	0.20 (28)	0.19 (30)	н		
Ŋ	-0.30 (36)	-0.35 (38)	-0.25 (36)	-0.26 (38)	0.15 (37)	0.12 (41)	М	- 0.013	-0.35 (19)	-0.30 (22)	-0.34 (19)	-0.30 (22)	-0.22 (20)	-0.25 (24)	М		0.013
	0.10 (19)	0.07 (22)	0.03 (18)	0.07 (22)	-0.03 (20)	-0.06 (23)	L .	0.015	0.07 (20)	0.05 (23)	0.01 (19)	0.06 (23)	-0.02 (21)	-0.05 (24)	L	<u> </u>	0.015
F	-0.20 (17)	-0.13 (18)	-0.18 (16)	-0.10 (18)	-0.02 (17)	0.06 (18)	Н	u u	-0.29 (28)	-0.21 (32)	-0.29 (27)	-0.23 (32)	-0.12 (28)	-0.13 (32)	Н		
NCAPE	-0.34 (20)	-0.34 (23)	-0.33 (20)	-0.31 (23)	0.10 (20)	0.09 (24)	М	- 0.010	-0.35 (19)	-0.43 (20)	-0.29 (19)	-0.29 (20)	0.26 (20)	0.20 (22)	М	، ا	0.010
	-0.21 (29)	-0.23 (32)	-0.17 (29)	-0.14 (32)	0.18 (33)	-0.03 (36)	L		-0.04 (18)	-0.07 (21)	-0.00 (18)	-0.03 (21)	0.26 (21)	0.06 (24)	L	▼	
	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			
	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc	,	•	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc	1		
Ē	0.13 (20)	0.16 (22)	0.10 (19)	0.14 (22)	0.28 (22)	0.30 (24)	Н	0.010	-0.21 (15)	-0.17 (17)	-0.21 (14)	-0.16 (17)	0.08 (16)	0.14 (18)	Н	A .	0.010
I.P.	-0.33 (37)	-0.27 (40)	-0.33 (37)	-0.29 (40)	-0.07 (39)	-0.17 (43)	М	į.	-0.26 (41)	-0.21 (44)	-0.26 (41)	-0.22 (44)	-0.03 (44)	-0.12 (47)	М		
	-0.33 (9)	-0.33 (11)	-0.12 (9)	-0.14 (11)	0.40 (9)	0.30 (11)	L		-0.58 (10)	-0.47 (13)	-0.45 (10)	-0.34 (13)	0.21 (10)	0.19 (13)	L		
hPa	0.08 (25)						l H								H		
925		0.05 (28)	0.06 (24)	0.09 (28)	0.04 (27)	0.04 (30)	ļ.,,	- 0.013	0.30 (13)	0.29 (15)	0.30 (12)	0.34 (15)	0.36 (15)	0.36 (17)	"	- 0	0.013
P	-0.38 (31)	-0.34 (32)	-0.38 (31)	-0.35 (32)	-0.14 (33)	-0.26 (35)	м	27.5	-0.32 (43)	-0.26 (45)	-0.33 (43)	-0.29 (45)	-0.09 (44)	-0.17 (47)	м	- (0.013
	-0.43 (10)	-0.34 (32) -0.36 (13)	-0.38 (31) -0.25 (10)	-0.35 (32) -0.19 (13)		-0.26 (35) 0.25 (13)		, F. 9.7 7.00	-0.32 (43) -0.44 (10)		-0.33 (43) -0.24 (10)	-0.29 (45) -0.18 (13)		-0.17 (47) 0.28 (14)		- 1	0.013
0 LR		-0.34 (32)	-0.38 (31)	-0.35 (32)	-0.14 (33)	-0.26 (35)		- 0.020 <u>-</u>	-0.32 (43) -0.44 (10) 0.34 (8)	-0.26 (45) -0.36 (13) 0.27 (8)	-0.33 (43)	-0.29 (45)	-0.09 (44) 0.38 (11) 0.49 (8)	-0.17 (47)	м		0.013
0-500 LR	-0.43 (10) 0.19 (10) -0.52 (11)	-0.34 (32) -0.36 (13) 0.18 (10) -0.48 (11)	-0.38 (31) -0.25 (10) 0.24 (10) -0.52 (11)	-0.35 (32) -0.19 (13) 0.24 (10) -0.51 (11)	-0.14 (33) 0.32 (10) 0.16 (10) -0.43 (11)	-0.26 (35) 0.25 (13) 0.21 (10) -0.43 (11)	M	- 0.020 <u>-</u>	-0.32 (43) -0.44 (10) 0.34 (8)	-0.26 (45) -0.36 (13) 0.27 (8) -0.42 (16)	-0.33 (43) -0.24 (10) 0.43 (8) -0.48 (16)	-0.29 (45) -0.18 (13) 0.44 (8) -0.48 (16)	-0.09 (44) 0.38 (11) 0.49 (8) -0.49 (16)	-0.17 (47) 0.28 (14) 0.47 (8) -0.47 (16)	M		
700-500 LR	-0.43 (10) 0.19 (10)	-0.34 (32) -0.36 (13) 0.18 (10)	-0.38 (31) -0.25 (10) 0.24 (10)	-0.35 (32) -0.19 (13) 0.24 (10)	-0.14 (33) 0.32 (10) 0.16 (10)	-0.26 (35) 0.25 (13) 0.21 (10)	M L H	oefficient 050'0 - 700.500 IR T. 925	-0.32 (43) -0.44 (10) 0.34 (8) -0.47 (16) -0.61 (6)	-0.26 (45) -0.36 (13) 0.27 (8)	-0.33 (43) -0.24 (10) 0.43 (8)	-0.29 (45) -0.18 (13) 0.44 (8)	-0.09 (44) 0.38 (11) 0.49 (8)	-0.17 (47) 0.28 (14) 0.47 (8)	м L Н	- (0.020 allicent
5	-0.43 (10) 0.19 (10) -0.52 (11)	-0.34 (32) -0.36 (13) 0.18 (10) -0.48 (11)	-0.38 (31) -0.25 (10) 0.24 (10) -0.52 (11)	-0.35 (32) -0.19 (13) 0.24 (10) -0.51 (11)	-0.14 (33) 0.32 (10) 0.16 (10) -0.43 (11)	-0.26 (35) 0.25 (13) 0.21 (10) -0.43 (11)	M L H	n Coefficient 000.0 -	-0.32 (43) -0.44 (10) 0.34 (8) -0.47 (16) -0.61 (6) -0.40 (7)	-0.26 (45) -0.36 (13) 0.27 (8) -0.42 (16)	-0.33 (43) -0.24 (10) 0.43 (8) -0.48 (16)	-0.29 (45) -0.18 (13) 0.44 (8) -0.48 (16)	-0.09 (44) 0.38 (11) 0.49 (8) -0.49 (16)	-0.17 (47) 0.28 (14) 0.47 (8) -0.47 (16)	м L Н	- (
500 LR	-0.43 (10) 0.19 (10) -0.52 (11) -0.56 (8)	-0.34 (32) -0.36 (13) 0.18 (10) -0.48 (11) -0.45 (10)	-0.38 (31) -0.25 (10) 0.24 (10) -0.52 (11) -0.85 (7)	-0.35 (32) -0.19 (13) 0.24 (10) -0.51 (11) -0.18 (10)	-0.14 (33) 0.32 (10) 0.16 (10) -0.43 (11) 0.40 (9)	-0.26 (35) 0.25 (13) 0.21 (10) -0.43 (11) 0.01 (11)	M L H M	n Coefficient 000.0 -	-0.32 (43) -0.44 (10) 0.34 (8) -0.47 (16) -0.61 (6) -0.40 (7) -0.26 (16)	-0.26 (45) -0.36 (13) 0.27 (8) -0.42 (16) -0.57 (9)	-0.33 (43) -0.24 (10) 0.43 (8) -0.48 (16) -0.86 (5)	-0.29 (45) -0.18 (13) 0.44 (8) -0.48 (16) 0.08 (9)	-0.09 (44) 0.38 (11) 0.49 (8) -0.49 (16) 0.70 (7)	-0.17 (47) 0.28 (14) 0.47 (8) -0.47 (16) 0.20 (9)	M L H M L	- (0.020 allicent
5	-0.43 (10) 0.19 (10) -0.52 (11) -0.56 (8) -0.40 (7)	-0.34 (32) -0.36 (13) 0.18 (10) -0.48 (11) -0.45 (10) -0.34 (7)	-0.38 (31) -0.25 (10) 0.24 (10) -0.52 (11) -0.85 (7) -0.38 (7)	-0.35 (32) -0.19 (13) 0.24 (10) -0.51 (11) -0.18 (10) -0.37 (7)	-0.14 (33) 0.32 (10) 0.16 (10) -0.43 (11) 0.40 (9) -0.34 (7)	-0.26 (35) 0.25 (13) 0.21 (10) -0.43 (11) 0.01 (11) -0.23 (7)	M L H M L	n Coefficient 000.0 -	-0.32 (43) -0.44 (10) 0.34 (8) -0.47 (16) -0.61 (6) -0.40 (7) -0.26 (16)	-0.26 (45) -0.36 (13) 0.27 (8) -0.42 (16) -0.57 (9) -0.34 (7)	-0.33 (43) -0.24 (10) 0.43 (8) -0.48 (16) -0.86 (5) -0.38 (7)	-0.29 (45) -0.18 (13) 0.44 (8) -0.48 (16) 0.08 (9) -0.37 (7)	-0.09 (44) 0.38 (11) 0.49 (8) -0.49 (16) 0.70 (7) -0.34 (7)	-0.17 (47) 0.28 (14) 0.47 (8) -0.47 (16) 0.20 (9) -0.23 (7)	М L Н М L	- (0.020 Lelation Coefficient
LR 850-500 LR	-0.43 (10) 0.19 (10) -0.52 (11) -0.56 (8) -0.40 (7) -0.26 (16)	-0.34 (32) -0.36 (13) 0.18 (10) -0.48 (11) -0.45 (10) -0.34 (7) -0.25 (17)	-0.38 (31) -0.25 (10) 0.24 (10) -0.52 (11) -0.85 (7) -0.38 (7) -0.19 (16)	-0.35 (32) -0.19 (13) 0.24 (10) -0.51 (11) -0.18 (10) -0.37 (7) -0.11 (17)	-0.14 (33) 0.32 (10) 0.16 (10) -0.43 (11) 0.40 (9) -0.34 (7) 0.09 (16)	-0.26 (35) 0.25 (13) 0.21 (10) -0.43 (11) 0.01 (11) -0.23 (7) -0.08 (17)	M L H M L	Correlation Coefficient Correlation Coefficient Correlation Coefficient Correlation Coefficient Coeffi	-0.32 (43) -0.44 (10) 0.34 (8) -0.47 (16) -0.61 (6) -0.40 (7) -0.26 (16)	-0.26 (45) -0.36 (13) 0.27 (8) -0.42 (16) -0.57 (9) -0.34 (7) -0.25 (17)	-0.33 (43) -0.24 (10) 0.43 (8) -0.48 (16) -0.86 (5) -0.38 (7) -0.19 (16)	-0.29 (45) -0.18 (13) 0.44 (8) -0.48 (16) 0.08 (9) -0.37 (7) -0.12 (17)	-0.09 (44) 0.38 (11) 0.49 (8) -0.49 (16) 0.70 (7) -0.34 (7) 0.09 (16)	-0.17 (47) 0.28 (14) 0.47 (8) -0.47 (16) 0.20 (9) -0.23 (7) -0.08 (17)	М L Н М L	- (0.020 allicent
700 LR 850-500 LR	-0.43 (10) 0.19 (10) -0.52 (11) -0.56 (8) -0.40 (7) -0.26 (16) -0.47 (7)	-0.34 (32) -0.36 (13) 0.18 (10) -0.48 (11) -0.45 (10) -0.34 (7) -0.25 (17) -0.22 (9)	-0.38 (31) -0.25 (10) 0.24 (10) -0.52 (11) -0.85 (7) -0.38 (7) -0.19 (16) -0.82 (6)	-0.35 (32) -0.19 (13) 0.24 (10) -0.51 (11) -0.18 (10) -0.37 (7) -0.11 (17) -0.41 (9)	-0.14 (33) 0.32 (10) 0.16 (10) -0.43 (11) 0.40 (9) -0.34 (7) 0.09 (16) -0.11 (8)	-0.26 (35) 0.25 (13) 0.21 (10) -0.43 (11) 0.01 (11) -0.23 (7) -0.08 (17) -0.14 (9)	M L H M L H M L	- 0.020 - 101 - 10	-0.32 (43) -0.44 (10) 0.34 (8) -0.47 (16) -0.61 (6) -0.40 (7) -0.26 (16) -0.47 (7) -0.49 (14) -0.20 (35)	-0.26 (45) -0.36 (13) 0.27 (8) -0.42 (16) -0.57 (9) -0.34 (7) -0.25 (17) -0.22 (9)	-0.33 (43) -0.24 (10) 0.43 (8) -0.48 (16) -0.86 (5) -0.38 (7) -0.19 (16) -0.82 (6)	-0.29 (45) -0.18 (13) 0.44 (8) -0.48 (16) 0.08 (9) -0.37 (7) -0.12 (17) -0.41 (9)	-0.09 (44) 0.38 (11) 0.49 (8) -0.49 (16) 0.70 (7) -0.34 (7) 0.09 (16) -0.11 (8)	-0.17 (47) 0.28 (14) 0.47 (8) -0.47 (16) 0.20 (9) -0.23 (7) -0.08 (17) -0.14 (9)	м L H M L H M L	- (0.020 Lelation Coefficient
LR 850-500 LR	-0.43 (10) 0.19 (10) -0.52 (11) -0.56 (8) -0.40 (7) -0.26 (16) -0.47 (7) -0.56 (9)	-0.34 (32) -0.36 (13) 0.18 (10) -0.48 (11) -0.45 (10) -0.34 (7) -0.25 (17) -0.22 (9) -0.46 (12)	-0.38 (31) -0.25 (10) 0.24 (10) -0.52 (11) -0.85 (7) -0.38 (7) -0.19 (16) -0.82 (6) -0.56 (9)	-0.35 (32) -0.19 (13) 0.24 (10) -0.51 (11) -0.18 (10) -0.37 (7) -0.11 (17) -0.41 (9) -0.41 (12)	-0.14 (33) 0.32 (10) 0.16 (10) -0.43 (11) 0.40 (9) -0.34 (7) 0.09 (16) -0.11 (8) -0.21 (9)	-0.26 (35) 0.25 (13) 0.21 (10) -0.43 (11) 0.01 (11) -0.23 (7) -0.08 (17) -0.14 (9) -0.37 (13)	M L H M L H M L H	Pearson Correlation Coefficient Planson Correlation Coefficient Jul -	-0.32 (43) -0.44 (10) 0.34 (8) -0.47 (16) -0.61 (6) -0.40 (7) -0.26 (16) -0.47 (7) -0.49 (14) -0.20 (35)	-0.26 (45) -0.36 (13) 0.27 (8) -0.42 (16) -0.57 (9) -0.34 (7) -0.25 (17) -0.22 (9) -0.44 (19)	-0.33 (43) -0.24 (10) 0.43 (8) -0.48 (16) -0.86 (5) -0.38 (7) -0.19 (16) -0.82 (6) -0.48 (14)	-0.29 (45) -0.18 (13) 0.44 (8) -0.48 (16) 0.08 (9) -0.37 (7) -0.12 (17) -0.41 (9) -0.40 (19)	-0.09 (44) 0.38 (11) 0.49 (8) -0.49 (16) 0.70 (7) -0.34 (7) 0.09 (16) -0.11 (8) -0.30 (14)	-0.17 (47) 0.28 (14) 0.47 (8) -0.47 (16) 0.20 (9) -0.23 (7) -0.08 (17) -0.14 (9) -0.40 (20)	м L H M L H M L	- (Dearson Correlation Coefficient
700 LR 850-500 LR	-0.43 (10) 0.19 (10) -0.52 (11) -0.56 (8) -0.40 (7) -0.26 (16) -0.47 (7) -0.56 (9) -0.37 (31)	-0.34 (32) -0.36 (13) 0.18 (10) -0.48 (11) -0.45 (10) -0.34 (7) -0.25 (17) -0.22 (9) -0.46 (12) -0.37 (35)	-0.38 (31) -0.25 (10) 0.24 (10) -0.52 (11) -0.85 (7) -0.38 (7) -0.19 (16) -0.82 (6) -0.56 (9) -0.35 (30)	-0.35 (32) -0.19 (13) 0.24 (10) -0.51 (11) -0.18 (10) -0.37 (7) -0.11 (17) -0.41 (9) -0.41 (12) -0.32 (35)	-0.14 (33) 0.32 (10) 0.16 (10) -0.43 (11) 0.40 (9) -0.34 (7) 0.09 (16) -0.11 (8) -0.21 (9) 0.02 (31)	-0.26 (35) 0.25 (13) 0.21 (10) -0.43 (11) 0.01 (11) -0.23 (7) -0.08 (17) -0.14 (9) -0.37 (13) 0.05 (35)	M L H M L H M L H	From Pearson Correlation Coefficient Jul. Jul.	-0.32 (43) -0.44 (10) 0.34 (8) -0.47 (16) -0.61 (6) -0.40 (7) -0.26 (16) -0.47 (7) -0.49 (14) -0.20 (35)	-0.26 (45) -0.36 (13) 0.27 (8) -0.42 (16) -0.57 (9) -0.34 (7) -0.25 (17) -0.22 (9) -0.44 (19) -0.24 (36)	-0.33 (43) -0.24 (10) 0.43 (8) -0.48 (16) -0.86 (5) -0.38 (7) -0.19 (16) -0.82 (6) -0.48 (14) -0.15 (34)	-0.29 (45) -0.18 (13) 0.44 (8) -0.48 (16) 0.08 (9) -0.37 (7) -0.12 (17) -0.41 (9) -0.40 (19) -0.14 (36)	-0.09 (44) 0.38 (11) 0.49 (8) -0.49 (16) 0.70 (7) -0.34 (7) 0.09 (16) -0.11 (8) -0.30 (14) 0.23 (36)	-0.17 (47) 0.28 (14) 0.47 (8) -0.47 (16) 0.20 (9) -0.23 (7) -0.08 (17) -0.14 (9) -0.40 (20) 0.28 (37)	м L H M L H M L	- (0.00.0 Low Pearson Correlation Coefficient
X 850-700 LR 850-500 LR	-0.43 (10) 0.19 (10) -0.52 (11) -0.56 (8) -0.40 (7) -0.26 (16) -0.47 (7) -0.56 (9) -0.37 (31) 0.18 (27)	-0.34 (32) -0.36 (13) 0.18 (10) -0.48 (11) -0.45 (10) -0.34 (7) -0.25 (17) -0.22 (9) -0.46 (12) -0.37 (35) 0.16 (27)	-0.38 (31) -0.25 (10) 0.24 (10) -0.52 (11) -0.85 (7) -0.38 (7) -0.19 (16) -0.82 (6) -0.56 (9) -0.35 (30) 0.20 (27)	-0.35 (32) -0.19 (13) 0.24 (10) -0.51 (11) -0.18 (10) -0.37 (7) -0.11 (17) -0.41 (9) -0.41 (12) -0.32 (35) 0.22 (27)	-0.14 (33) 0.32 (10) 0.16 (10) -0.43 (11) 0.40 (9) -0.34 (7) 0.09 (16) -0.11 (8) -0.21 (9) 0.02 (31) 0.01 (28)	-0.26 (35) 0.25 (13) 0.21 (10) -0.43 (11) 0.01 (11) -0.23 (7) -0.08 (17) -0.14 (9) -0.37 (13) 0.05 (35) -0.01 (28)	M L H M L H M L	Pearson Correlation Coefficient Planson Correlation Coefficient Jul -	-0.32 (43) -0.44 (10) 0.34 (8) -0.47 (16) -0.61 (6) -0.40 (7) -0.26 (16) -0.47 (7) -0.49 (14) -0.20 (35) -0.01 (18)	-0.26 (45) -0.36 (13) 0.27 (8) -0.42 (16) -0.57 (9) -0.34 (7) -0.25 (17) -0.22 (9) -0.44 (19) -0.24 (36) 0.07 (18)	-0.33 (43) -0.24 (10) 0.43 (8) -0.48 (16) -0.86 (5) -0.38 (7) -0.19 (16) -0.82 (6) -0.48 (14) -0.15 (34) -0.04 (18)	-0.29 (45) -0.18 (13) 0.44 (8) -0.48 (16) 0.08 (9) -0.37 (7) -0.12 (17) -0.41 (9) -0.40 (19) -0.14 (36) 0.03 (18)	-0.09 (44) 0.38 (11) 0.49 (8) -0.49 (16) 0.70 (7) -0.34 (7) 0.09 (16) -0.11 (8) -0.30 (14) 0.23 (36) -0.12 (18)	-0.17 (47) 0.28 (14) 0.47 (8) -0.47 (16) 0.20 (9) -0.23 (7) -0.08 (17) -0.14 (9) -0.40 (20) 0.28 (37) -0.16 (18)	M	- (Dearson Correlation Coefficient
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X 850-700 LR 850-500 LR	-0.43 (10) 0.19 (10) -0.52 (11) -0.56 (8) -0.40 (7) -0.26 (16) -0.47 (7) -0.56 (9) -0.37 (31) 0.18 (27) -0.35 (13) -0.73 (8) -0.22 (9) -0.29 (18)	-0.34 (32) -0.36 (13) 0.18 (10) -0.48 (11) -0.45 (10) -0.32 (7) -0.25 (17) -0.22 (9) -0.46 (12) -0.37 (35) -0.36 (13) -0.36 (13) -0.18 (9) -0.32 (19)	-0.38 (31) -0.25 (10) 0.24 (10) -0.52 (11) -0.85 (7) -0.19 (16) -0.82 (6) -0.56 (9) -0.35 (30) 0.20 (27) -0.34 (12) -0.79 (8) -0.16 (9) -0.20 (18)	-0.35 (32) -0.19 (13) 0.24 (10) -0.51 (11) -0.18 (10) -0.37 (7) -0.11 (17) -0.41 (9) -0.41 (12) -0.32 (35) 0.22 (27) -0.26 (13) -0.45 (10) -0.15 (9) -0.17 (19)	-0.14 (33) 0.32 (10) 0.16 (10) -0.43 (11) 0.40 (9) -0.34 (7) 0.09 (16) -0.11 (8) -0.21 (9) 0.02 (31) 0.01 (28) -0.10 (13) -0.10 (9) -0.05 (9) 0.33 (18)	-0.26 (35) 0.25 (13) 0.21 (10) -0.43 (11) 0.01 (11) -0.23 (7) -0.08 (17) -0.14 (9) -0.37 (13) 0.05 (35) -0.01 (28) -0.22 (13) 0.05 (35) 0.01 (11) -0.13 (9) 0.30 (20)	M L H M L H M L H M L H	- 0.020 - 0.02	-0.32 (43) -0.44 (10) 0.34 (8) -0.47 (16) -0.61 (6) -0.40 (7) -0.26 (16) -0.47 (7) -0.49 (14) -0.20 (35) -0.01 (18) -0.19 (9) -0.30 (13) -0.43 (8)	-0.26 (45) -0.36 (13) 0.27 (8) -0.42 (16) -0.57 (9) -0.34 (7) -0.25 (17) -0.22 (9) -0.44 (19) -0.24 (36) 0.07 (18) -0.17 (9) -0.15 (16) -0.35 (8) -0.42 (22)	-0.33 (43) -0.24 (10) 0.43 (8) -0.48 (16) -0.86 (5) -0.38 (7) -0.19 (16) -0.82 (6) -0.48 (14) -0.15 (34) -0.04 (18) -0.23 (8) -0.29 (13) -0.39 (8) -0.38 (20)	-0.29 (45) -0.18 (13) -0.44 (8) -0.48 (16) -0.08 (9) -0.37 (7) -0.12 (17) -0.41 (9) -0.40 (19) -0.14 (36) -0.32 (37) -0.17 (16) -0.37 (8) -0.32 (22)	-0.09 (44) 0.38 (11) 0.49 (8) -0.49 (16) 0.70 (7) -0.34 (7) 0.09 (16) -0.11 (8) -0.12 (18) 0.04 (9) -0.18 (14) -0.21 (8) 0.19 (22)	-0.17 (47) 0.28 (14) 0.47 (8) -0.47 (16) 0.20 (9) -0.23 (7) -0.14 (9) -0.40 (20) 0.28 (37) -0.16 (18) -0.17 (9) -0.01 (17) -0.25 (8) 0.19 (24)	M L H M L H M L H M L H	- (· · · · · · · · · · · · · · · · · ·	P-value from Pearson Correlation Coefficient
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Kindex 850-700 LR 850-500 LR	-0.43 (10) 0.19 (10) -0.52 (11) -0.56 (8) -0.40 (7) -0.26 (16) -0.47 (7) -0.56 (9) -0.37 (31) -0.18 (27) -0.35 (13) -0.73 (8) -0.22 (18) -0.31 (28) -0.73 (20)	-0.34 (32) -0.36 (13) 0.18 (10) -0.48 (11) -0.45 (10) -0.25 (17) -0.25 (17) -0.26 (10) -0.46 (12) -0.36 (13) -0.11 (10) -0.18 (9) -0.29 (31) -0.05 (23)	-0.38 (31) -0.25 (10) 0.24 (10) -0.52 (11) -0.85 (7) -0.38 (7) -0.19 (16) -0.82 (6) -0.56 (9) -0.35 (30) 0.20 (27) -0.34 (12) -0.79 (8) -0.16 (9) -0.20 (18) -0.30 (28) 0.01 (19)	-0.35 (32) -0.19 (13) 0.24 (10) -0.51 (11) -0.18 (10) -0.37 (7) -0.11 (17) -0.41 (9) -0.41 (12) -0.22 (27) -0.26 (13) -0.45 (10) -0.17 (19) -0.26 (31) 0.05 (23)	-0.14 (33) 0.32 (10) 0.16 (10) -0.43 (11) 0.40 (9) -0.34 (7) 0.09 (16) -0.11 (8) -0.21 (9) 0.02 (31) -0.10 (13) -0.10 (9) -0.05 (31) -0.05 (31) -0.05 (30) -0.05 (21)	-0.26 (35) 0.25 (13) 0.21 (10) -0.43 (11) -0.23 (7) -0.08 (17) -0.14 (9) -0.37 (13) 0.05 (35) -0.01 (28) -0.22 (13) 0.10 (11) -0.13 (9) -0.30 (20) -0.18 (34)	M L H M L H M L H M L H M L	- 0.020 - 0.013 - 0.013	-0.32 (43) -0.44 (10) -0.34 (8) -0.47 (16) -0.61 (6) -0.47 (7) -0.26 (16) -0.47 (7) -0.49 (14) -0.20 (35) -0.01 (18) -0.30 (13) -0.43 (20) -0.26 (29) -0.01 (17)	-0.26 (45) -0.36 (13) 0.27 (8) -0.42 (16) -0.57 (9) -0.34 (7) -0.25 (17) -0.22 (9) -0.44 (19) -0.24 (36) -0.07 (18) -0.17 (9) -0.15 (16) -0.35 (8) -0.42 (22) -0.22 (33) -0.02 (18)	-0.33 (43) -0.24 (10) -0.43 (8) -0.48 (16) -0.86 (5) -0.38 (7) -0.19 (16) -0.82 (6) -0.48 (14) -0.04 (18) -0.23 (8) -0.29 (13) -0.39 (20) -0.38 (20) -0.25 (29) -0.01 (16)	-0.29 (45) -0.18 (13) 0.44 (8) -0.48 (16) 0.08 (9) -0.37 (7) -0.12 (17) -0.41 (9) -0.40 (19) -0.14 (36) 0.03 (18) -0.12 (9) -0.17 (16) -0.37 (8) -0.32 (22) -0.20 (33) 0.03 (18)	-0.09 (44) 0.38 (11) 0.49 (8) -0.49 (16) 0.70 (7) 0.90 (16) -0.11 (8) -0.30 (14) 0.02 (36) -0.12 (18) 0.04 (9) -0.18 (14) -0.21 (8) 0.19 (22) -0.09 (30) -0.02 (18)	-0.17 (47) 0.28 (14) 0.47 (8) -0.47 (16) 0.20 (9) -0.23 (7) -0.08 (17) -0.14 (9) -0.40 (20) 0.28 (37) -0.16 (18) -0.17 (9) -0.01 (17) -0.25 (37) -0.19 (24) -0.11 (35) -0.09 (19)	M L H M L H M L H M L H M L	- (- (- (- (- (- (- (- (- (- (0.020 0.040 o.040 o.040 o.040 o.040 o.040 o.040 o.040 o.040 o.050 o.040 o.050 o.040 o.050 o.
Kindex 850-700 LR 850-500 LR	-0.43 (10) 0.19 (10) -0.52 (11) -0.56 (8) -0.40 (7) -0.26 (16) -0.47 (7) -0.56 (9) -0.37 (31) -0.18 (27) -0.35 (13) -0.22 (9) -0.29 (18) -0.21 (28) -0.07 (20) -0.30 (22)	-0.34 (32) -0.36 (13) 0.18 (10) -0.48 (11) -0.45 (10) -0.25 (17) -0.22 (9) -0.46 (12) -0.37 (35) -0.16 (27) -0.36 (13) -0.18 (9) -0.32 (19) -0.29 (31) -0.05 (23) -0.22 (24)	-0.38 (31) -0.25 (10) 0.24 (10) -0.52 (11) -0.85 (1) -0.87 (10) -0.89 (6) -0.89 (6) -0.56 (9) -0.35 (30) 0.20 (27) -0.34 (12) -0.79 (8) -0.16 (9) -0.20 (28) 0.01 (19) -0.31 (21)	-0.35 (32) -0.19 (13) 0.24 (10) -0.51 (11) -0.18 (10) -0.37 (7) -0.11 (17) -0.41 (9) -0.32 (25) -0.22 (27) -0.26 (13) -0.45 (10) -0.17 (19) -0.26 (31) -0.05 (23) -0.23 (24)	-0.14 (33) 0.32 (10) 0.16 (10) -0.43 (11) 0.40 (9) -0.34 (7) 0.09 (16) -0.11 (8) -0.21 (9) 0.02 (31) -0.10 (13) -0.10 (9) -0.05 (9) 0.33 (18) -0.05 (21) -0.07 (21)	-0.26 (35) 0.25 (13) 0.21 (10) -0.43 (11) -0.23 (7) -0.08 (17) -0.14 (9) -0.37 (13) -0.05 (35) -0.01 (28) -0.22 (13) 0.10 (11) -0.13 (9) 0.30 (20) -0.18 (34) -0.06 (24) -0.10 (24)	M	- 0.050 - 14 - 0.050 - 14 - 0.050 - 17 - 0.050 - 0.050 - 17 - 0.050 - 0.050 - 17 - 0.050 - 0.050 - 17 - 0.050 - 0.050 - 17 - 0.050 - 17 - 0.050 - 17 - 0.050 - 17 - 0.050 - 17 - 0.050 - 17 - 0.050 - 17 - 0.050 - 17 - 0.050 - 17 - 0.050 - 17	0.32 (43) -0.44 (10) 0.34 (8) -0.47 (16) -0.61 (6) -0.40 (7) -0.26 (16) -0.47 (7) -0.47 (7) -0.49 (14) -0.20 (35) -0.01 (18) -0.30 (13) -0.43 (8) -0.43 (20) -0.26 (29) -0.01 (17) -0.29 (21)	-0.26 (45) -0.36 (13) 0.27 (8) -0.42 (16) -0.57 (9) -0.34 (7) -0.25 (17) -0.22 (9) -0.44 (19) -0.15 (16) -0.17 (9) -0.15 (16) -0.35 (8) -0.42 (22) -0.24 (33) -0.02 (18)	-0.33 (43) -0.24 (10) -0.43 (8) -0.48 (16) -0.86 (5) -0.38 (7) -0.19 (16) -0.82 (6) -0.48 (14) -0.04 (18) -0.23 (8) -0.29 (13) -0.39 (8) -0.38 (20) -0.25 (29) -0.01 (16) -0.29 (20)	-0.29 (45) -0.18 (13) 0.44 (8) -0.48 (16) -0.08 (9) -0.37 (7) -0.12 (17) -0.41 (9) -0.40 (19) -0.14 (36) -0.37 (8) -0.37 (8) -0.32 (22) -0.20 (33) -0.03 (18)	-0.09 (44) 0.38 (11) 0.49 (8) -0.49 (16) 0.70 (7) 0.91 (6) -0.11 (8) -0.30 (14) 0.23 (36) -0.12 (18) 0.04 (9) -0.18 (14) -0.21 (8) 0.19 (22) -0.09 (30) -0.09 (30) -0.09 (30) -0.09 (30) -0.02 (18)	-0.17 (47) 0.28 (14) 0.47 (8) -0.47 (16) 0.20 (9) -0.23 (7) -0.08 (17) -0.14 (9) -0.40 (20) 0.28 (37) -0.16 (18) -0.17 (9) -0.01 (17) -0.25 (8) -0.19 (24) -0.11 (35) -0.09 (19) -0.08 (23)	М	- (- (- (- (- (- (- (- (- (- (0.020 b. o.040 b. o.040 b. o.040 c.040
Kindex 850-700 LR 850-500 LR	-0.43 (10) 0.19 (10) -0.52 (11) -0.55 (8) -0.40 (7) -0.56 (9) -0.37 (31) -0.18 (27) -0.35 (13) -0.22 (9) -0.37 (8) -0.31 (28) -0.31 (28) -0.31 (28) -0.30 (22) -0.30 (22)	-0.34 (32) -0.36 (13) 0.18 (10) -0.48 (11) -0.45 (10) -0.34 (7) -0.25 (17) -0.26 (12) -0.37 (35) 0.16 (27) -0.36 (13) -0.18 (9) -0.32 (19) -0.92 (19) -0.95 (23) -0.95 (24) -0.37 (22)	-0.38 (31) -0.25 (10) 0.24 (10) -0.52 (11) -0.85 (7) -0.38 (7) -0.19 (16) -0.82 (6) -0.35 (30) 0.20 (27) -0.34 (12) -0.79 (8) -0.16 (9) -0.20 (18) -0.30 (28) -0.31 (21) -0.29 (19)	-0.35 (32) -0.19 (13) -0.24 (10) -0.51 (11) -0.18 (10) -0.37 (7) -0.11 (17) -0.41 (19) -0.44 (12) -0.32 (35) -0.22 (27) -0.26 (13) -0.45 (10) -0.17 (19) -0.26 (31) -0.05 (33) -0.23 (24) -0.28 (22)	-0.14 (33) 0.32 (10) 0.16 (10) -0.43 (11) 0.40 (9) -0.34 (7) 0.09 (16) -0.11 (8) -0.21 (9) 0.02 (31) 0.01 (28) -0.10 (13) -0.10 (9) 0.33 (18) -0.15 (30) -0.02 (21) -0.12 (22) 0.25 (19)	-0.26 (35) 0.25 (13) 0.21 (10) -0.43 (11) 0.01 (11) -0.23 (7) -0.08 (17) -0.08 (17) -0.05 (35) -0.01 (28) -0.22 (13) 0.10 (11) -0.13 (9) 0.30 (20) -0.18 (34) -0.10 (24) 0.18 (23)	M	- 0.020 - 0.013 - 0.013	0.32 (43) -0.44 (10) 0.34 (8) -0.47 (16) -0.61 (6) -0.40 (7) -0.26 (16) -0.49 (14) -0.20 (35) -0.01 (18) -0.19 (9) -0.30 (13) -0.43 (8) -0.43 (20) -0.26 (29) -0.01 (17) -0.29 (21) -0.33 (32)	-0.26 (45) -0.36 (13) 0.27 (8) -0.42 (16) -0.57 (9) -0.34 (7) -0.25 (17) -0.25 (17) -0.24 (36) 0.07 (18) -0.15 (16) -0.35 (8) -0.42 (22) -0.22 (33) -0.20 (23) -0.20 (23)	-0.33 (43) -0.24 (10) -0.48 (16) -0.48 (16) -0.86 (5) -0.38 (7) -0.19 (16) -0.48 (14) -0.15 (34) -0.04 (18) -0.29 (13) -0.39 (8) -0.38 (20) -0.25 (29) -0.01 (16) -0.29 (20) -0.29 (32)	-0.29 (45) -0.18 (13) 0.44 (8) -0.48 (16) -0.08 (9) -0.37 (7) -0.12 (17) -0.14 (36) -0.33 (18) -0.12 (9) -0.17 (16) -0.37 (8) -0.32 (22) -0.20 (33) -0.03 (18) -0.22 (23) -0.22 (23) -0.26 (36)	-0.09 (44) 0.38 (11) 0.49 (8) -0.49 (16) 0.70 (7) -0.34 (7) 0.09 (16) -0.11 (8) -0.30 (14) 0.23 (36) -0.12 (18) 0.04 (9) -0.18 (14) -0.21 (8) 0.19 (22) -0.09 (30) -0.02 (18) -0.02 (18) -0.01 (21)	-0.17 (47) 0.28 (14) 0.47 (8) -0.47 (16) 0.20 (9) -0.23 (7) -0.08 (17) -0.06 (17) -0.16 (18) -0.17 (9) -0.01 (17) -0.25 (8) 0.19 (24) -0.11 (35) -0.09 (33) 0.12 (39)	М	- (- (- (- (- (- (- (- (- (- (0.020 0.040 o.040 o.040 o.040 o.040 o.040 o.040 o.040 o.040 o.050 o.040 o.050 o.040 o.050 o.

Figure S7: As in Fig. S4 but using p95 AMPR 37.1-GHz PCT as the convective parameter.

355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc			
-0.11 (19)	-0.15 (21)	-0.02 (18)	0.00 (21)	0.25 (21)	0.22 (23)	1н	A	-0.24 (23)	-0.31 (25)	-0.15 (22)	-0.13 (25)	0.10 (25)	0.08 (27)	Тн		
						м	- 0.010							M I		0.010
						1	F ²							l"		
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						L .	e e							4º 1		- 0.040 S
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		7 7				М			2 2					М		elati
						L	inf O							L		- inf
-0.97 (5)	-0.47 (7)	-0.97 (5)	-0.49 (7)	-0.96 (5)	-0.36 (8)	н	Son UR	-0.54 (21)	-0.51 (27)	-0.51 (21)	-0.45 (27)	-0.31 (21)	-0.41 (27)	н		Son
-0.51 (32)	-0.48 (37)	-0.48 (31)	-0.43 (37)	-0.24 (32)	-0.25 (37)	м	Peal 0-700	-0.51 (22)	-0.42 (24)	-0.46 (21)	-0.37 (24)	-0.27 (22)	-0.15 (24)	М		Pea
0.07 (30)	0.11 (30)	0.03 (30)	0.09 (30)	-0.14 (32)	-0.16 (32)	L	- 0.040 💆 🛱	0.01 (24)	0.09 (24)	-0.05 (24)	0.03 (24)	-0.18 (26)	-0.22 (26)	L		- 0.040 💆
-0.61 (14)	-0.60 (15)	-0.51 (13)	-0.42 (15)	-0.16 (14)	-0.25 (15)	н	en en	-0.70 (11)	-0.75 (11)	-0.63 (10)	-0.59 (11)	-0.30 (11)	-0.48 (11)	н		lue
-0.68 (9)	-0.26 (10)	-0.68 (9)	-0.35 (10)	-0.56 (9)	-0.22 (11)	м	P-va Inde	-0.71 (9)	-0.32 (11)	-0.70 (9)	-0.39 (11)	-0.53 (9)	-0.20 (12)	м		P-V
-0.66 (8)	-0.58 (8)	-0.61 (8)	-0.58 (8)	-0.49 (8)	-0.45 (8)	L	- 0.020	-0.35 (10)	-0.30 (10)	-0.28 (10)	-0.26 (10)	-0.19 (10)	-0.26 (10)	L		- 0.020
-0.73 (11)	-0.45 (13)	-0.71 (11)	-0.39 (13)	-0.46 (12)	-0.34 (14)	н		-0.49 (27)	-0.40 (28)	-0.46 (27)	-0.38 (28)	-0.21 (28)	-0.17 (30)	н		
-0.43 (36)	-0.40 (39)	-0.40 (36)	-0.38 (39)	-0.14 (38)	-0.15 (42)	м			-0.43 (23)	-0.41 (20)	-0.37 (23)	-0.26 (21)	-0.32 (25)	м		
0.00 (19)	0.06 (22)	-0.07 (18)	0.10 (22)	-0.13 (20)	-0.17 (23)	L	- 0.013	-0.01 (20)	0.06 (23)	-0.08 (19)	0.09 (23)	-0.12 (21)	-0.17 (24)	L		- 0.013
-0.62 (18)	-0.59 (19)	-0.55 (17)	-0.51 (19)	-0.38 (18)	-0.34 (19)	Н		-0.49 (29)	-0.38 (33)	-0.48 (28)	-0.42 (33)	-0.27 (29)	-0.29 (33)	н		
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																- 0.020
						М	cieni 00-50							М		cien
						L	9							L I		- 0.040 S
						Н								н		5.040 0
		-0.50 (17)				М	elati 0-50	-0.56 (17)		-0.50 (17)			-0.35 (18)	М		elati
-0.85 (7)	-0.44 (9)	-0.96 (6)	-0.39 (9)	-0.09 (8)	-0.04 (9)	L			-0.44 (9)	-0.96 (6)	-0.39 (9)	-0.09 (8)	-0.05 (9)	L		- inf
-0.66 (9)	-0.56 (12)	-0.62 (9)	-0.44 (12)	-0.24 (9)	-0.40 (13)	н	rson 0 LR	-0.64 (14)	-0.58 (19)	-0.62 (14)	-0.51 (19)	-0.44 (14)	-0.50 (20)	н		150n
-0.51 (32)	-0.45 (36)	-0.48 (31)	-0.43 (36)	-0.28 (32)	-0.22 (36)	М	Peai)-700	-0.40 (36)	-0.35 (37)	-0.35 (35)	-0.31 (37)	-0.15 (36)	-0.10 (38)	М		Pear
0.04 (27)	0.10 (27)	-0.00 (27)	0.06 (27)	-0.15 (28)	-0.18 (28)	L	- 0.040 💆 😸	0.01 (18)	0.10 (18)	-0.08 (18)	0.02 (18)	-0.21 (18)	-0.27 (18)	L		- 0.040 E
-0.61 (13)	-0.66 (13)	-0.51 (12)	-0.47 (13)	-0.15 (13)	-0.32 (13)	н	6	-0.44 (9)	-0.50 (9)	-0.31 (8)	-0.23 (9)	0.09 (9)	-0.19 (9)	н		lue 1
-0.85 (9)	-0.30 (11)	-0.88 (9)	-0.47 (11)	-0.73 (9)	-0.30 (12)	М	P-v2	-0.65 (14)	-0.42 (17)	-0.64 (14)	-0.43 (17)	-0.51 (15)	-0.27 (18)	м		P-va
-0.38 (9)	-0.34 (9)	-0.28 (9)	-0.26 (9)	-0.19 (9)	-0.27 (9)	L	- 0.020	-0.66 (8)	-0.58 (8)	-0.61 (8)	-0.58 (8)	-0.49 (8)	-0.45 (8)	L		- 0.020
-0.36 (18)	-0.23 (19)	-0.33 (18)	-0.21 (19)	-0.07 (18)	-0.03 (20)	н		-0.52 (20)	-0.39 (22)	-0.51 (20)	-0.39 (22)	-0.21 (22)	-0.16 (24)	н		
-0.50 (29)	-0.49 (32)	-0.48 (29)	-0.44 (32)	-0.36 (31)	-0.39 (35)	м			-0.41 (34)	-0.42 (30)	-0.36 (34)	-0.26 (31)	-0.28 (36)	м		
-0.01 (20)	0.05 (23)	-0.08 (19)	0.09 (23)	-0.13 (21)	-0.17 (24)	L	- 0.013	-0.00 (17)	0.07 (18)	-0.08 (16)	0.10 (18)	-0.15 (18)	-0.20 (19)	L		- 0.013
	-0.47 (25)	-0.59 (22)	-0.52 (25)	-0.35 (23)	-0.37 (25)	н		-0.59 (22)	-0.47 (24)	-0.59 (21)	-0.52 (24)	-0.35 (22)	-0.36 (24)	н		
-0.59 (23)																4
		-0.32 (19)	-0.27 (22)	0.03 (19)	-0.02 (23)	м	A A	-0.38 (32)	-0.31 (36)	-0.34 (32)	-0.26 (36)	0.01 (35)	-0.08 (39)	м		
-0.59 (23) -0.36 (19) -0.18 (25)	-0.31 (22) -0.19 (27)	-0.32 (19) -0.15 (25)	-0.27 (22) -0.10 (27)	0.03 (19) 0.05 (28)	-0.02 (23) -0.07 (31)	М	- 0.010 N	-0.38 (32) 0.05 (13)	-0.31 (36) -0.03 (15)	-0.34 (32) 0.06 (13)	-0.26 (36) 0.04 (15)	0.01 (35) 0.13 (14)	-0.08 (39) 0.17 (16)	M	Ţ	- 0.010
	-0.43 (43) -0.59 (5) -0.34 (31) -0.52 (27) -0.02 (9) -0.02 (9) -0.06 (15) -0.76 (5) -0.50 (20) -0.43 (5) -0.97 (5) -0.51 (32) -0.61 (14) -0.66 (8) -0.73 (11) -0.41 (20) -0.21 (29) -0.55 (32) -0.16 (9) -0.10 (10) -0.11 (20) -0.10 (1	-0.11 (19) -0.15 (21) -0.43 (43) -0.36 (45) -0.59 (5) -0.01 (8) -0.34 (31) -0.22 (35) -0.52 (27) -0.48 (28) -0.22 (9) -0.04 (11) -0.02 (9) -0.05 (9) -0.56 (9) -0.56 (9) -0.76 (5) -0.75 (5) -0.56 (7) -0.56 (7) -0.56 (7) -0.57 (5) -0.50 (7) -0.51 (32) -0.47 (7) -0.51 (32) -0.47 (7) -0.51 (32) -0.48 (37) -0.77 (30) -0.11 (30) -0.66 (8) -0.26 (10) -0.66 (8) -0.26 (10) -0.66 (8) -0.58 (8) -0.73 (11) -0.45 (13) -0.45 (13) -0.45 (13) -0.45 (13) -0.41 (20) -0.52 (2) -0.52 (2) -0.52 (3) -0.52 (3) -0.52 (3) -0.52 (3) -0.52 (3) -0.52 (3) -0.52 (3) -0.52 (3) -0.52 (3) -0.52 (3) -0.52 (3) -0.52 (3) -0.55 (17) -0.55 (17) -0.55 (17) -0.52 (18) -0.65 (17) -0.52 (18) -0.65 (17) -0.55 (17)	-0.11 (19)	-0.11 (19)	-0.11 (19)	-0.11 (19)	-0.11 (19)	-0.11 (19)	0.11 (19)	0.31 (19)	0.11 (13)	1.1 1.0	1.11 (19)	11 10	11 13 13 12 13 13 13 13	11

Figure S8: As in Fig. S4 but using p95 AMPR 85.5-GHz PCT as the convective parameter.

	355 407	533 AOT	255 5-+	533 5·+	355 B	533 B			355 407	533 AOT	255 5-4	F33 F-+	355 P	533 D		
	355-nm AOT 0.11 (16)	532-nm AOT 0.14 (16)	355-nm Ext 0.10 (15)	532-nm Ext 0.12 (16)	355-nm Bsc 0.27 (18)	532-nm Bsc 0.34 (18)	Тн	A	355-nm AOT 0.12 (18)	532-nm AOT 0.18 (18)	355-nm Ext 0.11 (18)	532-nm Ext 0.13 (18)	355-nm Bsc 0.31 (20)	532-nm Bsc 0.36 (20)	l _H	A
Ē	-0.26 (30)	-0.09 (32)	-0.33 (30)	-0.22 (32)	-0.26 (32)	-0.18 (35)	М	0.010	-0.21 (23)	-0.05 (24)	-0.32 (23)	-0.26 (24)	-0.32 (25)	-0.29 (27)	M	0.010
F									2						M	
-	0.60 (5)	0.53 (6)	0.37 (5)	0.37 (6)	0.63 (5)	0.62 (6)	L		-0.17 (9)	-0.07 (11)	-0.12 (9)	-0.05 (11)	-0.11 (9)	-0.01 (11)	L	
Pa.	0.03 (26)	0.12 (27)	0.01 (25)	0.10 (27)	-0.12 (27)	-0.07 (29)	Н	- 0.013	0.16 (17)	0.15 (18)	0.15 (16)	0.15 (18)	0.28 (18)	0.34 (19)	Н	- 0.013
925 P	-0.42 (19)	-0.31 (19)	-0.51 (19)	-0.50 (19)	-0.24 (21)	-0.19 (22)	М		-0.14 (22)	0.08 (23)	-0.28 (22)	-0.10 (23)	-0.31 (23)	-0.20 (25)	М	
P	0.68 (6)	0.55 (7)	0.50 (6)	0.49 (7)	0.69 (6)	0.70 (7)	L		-0.30 (12)	-0.23 (13)	-0.30 (12)	-0.30 (13)	-0.15 (13)	-0.16 (14)	L	
500 LR	0.27 (7)	0.22 (7)	0.42 (7)	0.44 (7)	0.51 (7)	0.41 (7)	Н	- 0.020	当 0.38 (8)	0.36 (8)	0.46 (8)	0.47 (8)	0.41 (8)	0.44 (8)	Н	- 0.020
700-50	-0.23 (12)	-0.15 (12)	-0.26 (12)	-0.25 (12)	-0.27 (12)	-0.05 (12)	М	rient	-0.32 (10) -0.32 (7)	-0.23 (10)	-0.34 (10)	-0.34 (10)	-0.31 (10)	-0.17 (10)	М	cient
	-0.30 (6)	-0.26 (6)	-0.09 (5)	0.16 (6)	0.59 (7)	0.13 (7)	L.	- 0.040 🖔		-0.33 (7)	0.04 (6)	0.33 (7)	0.65 (8)	0.26 (8)	L	- 0.040 S
0 LR	-0.58 (5)	-0.53 (5)	-0.57 (5)	-0.56 (5)	-0.49 (5)	-0.43 (5)	н	5	-0.46 (8)	-0.40 (8)	-0.44 (8)	-0.43 (8)	-0.33 (8)	-0.22 (8)	Н	
0-200	0.20 (15)	0.30 (15)	0.19 (15)	0.22 (15)	0.13 (15)	0.44 (15)	М	elati	0.34 (9)	0.40 (9)	0.23 (9)	0.21 (9)	-0.11 (9)	0.34 (9)	М	elati
850	0.14 (5)	0.09 (5)	0.22 (4)	0.09 (5)	0.28 (6)	0.26 (6)	L	- inf		0.11 (9)	0.11 (8)	0.16 (9)	0.24 (9)	0.41 (9)	L	Jul -
0 LR	-0.76 (5)	-0.15 (6)	-0.78 (5)	-0.18 (6)	-0.78 (5)	-0.08 (7)	Н	200	-0.45 (14)	-0.33 (17)	-0.44 (14)	-0.31 (17)	-0.33 (14)	-0.29 (18)	Н	So
0-700	-0.39 (22)	-0.31 (24)	-0.43 (21)	-0.43 (24)	-0.13 (22)	-0.18 (24)	М	Pea	-0.22 (18)	-0.17 (18)	-0.23 (17)	-0.25 (18)	0.03 (18)	0.02 (18)	М	Pea
850	0.47 (24)	0.41 (24)	0.39 (24)	0.44 (24)	-0.12 (26)	-0.05 (26)	L	- 0.040 💆	0.40 (19)	0.41 (19)	0.27 (19)	0.37 (19)	-0.22 (21)	-0.16 (21)	L	- 0.040 💆
×	-0.34 (12)	-0.29 (12)	-0.28 (11)	-0.29 (12)	-0.18 (12)	-0.16 (12)	н	alue	-0.40 (9)	-0.35 (9)	-0.45 (9)	-0.36 (9)	-0.26 (9)	-0.30 (9)	Н	alue
-Ind	0.27 (6)	0.43 (6)	-0.02 (6)	-0.07 (6)	0.08 (7)	0.59 (7)	М	₹	-0.33 (7)	-0.19 (7)	-0.18 (7)	-0.17 (7)	0.40 (8)	0.48 (8)	М	3
-	0.11 (7)	0.24 (7)	0.15 (7)	0.18 (7)	0.23 (7)	0.28 (7)	L	- 0.020	0.16 (9)	0.30 (9)	0.16 (9)	0.18 (9)	0.15 (9)	0.31 (9)	L	- 0.020
¥.	-0.45 (10)	-0.44 (10)	-0.47 (10)	-0.50 (10)	-0.35 (11)	-0.47 (11)	н		-0.27 (19) ¥-	-0.24 (19)	-0.27 (19)	-0.27 (19)	-0.10 (21)	-0.10 (21)	н	
ď	-0.11 (23)	-0.03 (25)	-0.08 (23)	-0.03 (25)	0.10 (25)	0.13 (27)	м		-0.28 (13)	0.08 (15)	-0.24 (13)	-0.09 (15)	0.16 (14)	0.01 (17)	м	
_	0.45 (18)	0.42 (18)	0.17 (17)	0.39 (18)	-0.26 (18)	-0.23 (19)	L	- 0.013	0.36 (18)	0.36 (19)	0.06 (18)	0.30 (19)	-0.24 (19)	-0.22 (20)	L	- 0.013
w	-0.13 (11)	-0.09 (11)	-0.08 (10)	-0.06 (11)	0.13 (11)	0.18 (11)	н		υ 0.01 (21)	0.15 (22)	-0.08 (20)	0.04 (22)	-0.26 (21)	-0.22 (22)	н	
NCAPE	-0.28 (17)	-0.05 (18)	-0.40 (17)	-0.21 (18)	-0.39 (17)	-0.22 (19)	м	- 0.010	-0.47 (17)	-0.30 (18)	-0.50 (17)	-0.37 (18)	-0.18 (18)	-0.07 (19)	м	- 0.010
_	0.20 (23)	0.19 (24)	0.13 (23)	0.09 (24)	0.25 (27)	0.29 (27)	L	0.010	0.42 (13)	0.37 (14)	0.33 (13)	0.27 (14)	0.38 (16)	0.46 (17)	L	
	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc	1		355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc	1	
	355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc	,		355-nm AOT	532-nm AOT	355-nm Ext	532-nm Ext	355-nm Bsc	532-nm Bsc	,	
E	355-nm AOT 0.11 (17)	532-nm AOT 0.13 (17)	355-nm Ext 0.09 (16)	532-nm Ext 0.10 (17)	355-nm Bsc 0.26 (18)	532-nm Bsc 0.33 (18)	н	. 0.010	-0.04 (13)	532-nm AOT -0.02 (13)	355-nm Ext -0.05 (12)	532-nm Ext -0.02 (13)	355-nm Bsc 0.15 (14)	532-nm Bsc 0.26 (14)	н	0.010
d 1 km							H M	0.010	-0.04 (13)						н м	0.010
T _d 1 km	0.11 (17)	0.13 (17)	0.09 (16)	0.10 (17)	0.26 (18)	0.33 (18)	1	0.010	-0.04 (13)	-0.02 (13)	-0.05 (12)	-0.02 (13)	0.15 (14)	0.26 (14)	l	- 0.010
hPa	0.11 (17) -0.27 (27)	0.13 (17) -0.09 (29)	0.09 (16) -0.36 (27) 0.51 (7) 0.20 (20)	0.10 (17) -0.24 (29)	0.26 (18) -0.31 (29)	0.33 (18) -0.25 (32)	М	0.010	-0.04 (13) -0.14 (30) -0.21 (8) -0.08 (10)	-0.02 (13) 0.02 (32)	-0.05 (12) -0.22 (30)	-0.02 (13) -0.12 (32)	0.15 (14) -0.25 (33)	0.26 (14) -0.19 (36)	l	- 0.010
925 hPa	0.11 (17) -0.27 (27) 0.60 (7)	0.13 (17) -0.09 (29) 0.34 (8)	0.09 (16) -0.36 (27) 0.51 (7)	0.10 (17) -0.24 (29) 0.48 (8)	0.26 (18) -0.31 (29) -0.00 (7)	0.33 (18) -0.25 (32) -0.03 (8)	M		-0.04 (13) -0.14 (30) -0.21 (8) -0.08 (10) -0.24 (33)	-0.02 (13) 0.02 (32) -0.12 (9)	-0.05 (12) -0.22 (30) -0.16 (8)	-0.02 (13) -0.12 (32) -0.16 (9)	0.15 (14) -0.25 (33) -0.10 (8)	0.26 (14) -0.19 (36) -0.12 (9)	M L	
hPa	0.11 (17) -0.27 (27) 0.60 (7) 0.27 (21)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23)	0.09 (16) -0.36 (27) 0.51 (7) 0.20 (20)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25)	M L H		-0.04 (13) -0.14 (30) -0.21 (8) -0.08 (10)	-0.02 (13) 0.02 (32) -0.12 (9) 0.09 (10)	-0.05 (12) -0.22 (30) -0.16 (8) 0.04 (9)	-0.02 (13) -0.12 (32) -0.16 (9) 0.07 (10)	0.15 (14) -0.25 (33) -0.10 (8) 0.22 (12)	0.26 (14) -0.19 (36) -0.12 (9) 0.30 (12)	M L H	
LR T _d 925 hPa	0.11 (17) -0.27 (27) 0.60 (7) 0.27 (21) -0.50 (22)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23) -0.46 (22)	0.09 (16) -0.36 (27) 0.51 (7) 0.20 (20) -0.54 (22)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23) -0.55 (22)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23) -0.36 (24)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25) -0.35 (25)	M L H		-0.04 (13) -0.14 (30) -0.21 (8) -0.21 (8) -0.24 (33) -0.24 (33) -0.59 (8) -0.43 (6)	-0.02 (13) 0.02 (32) -0.12 (9) 0.09 (10) -0.07 (35)	-0.05 (12) -0.22 (30) -0.16 (8) 0.04 (9) -0.30 (33)	-0.02 (13) -0.12 (32) -0.16 (9) 0.07 (10) -0.20 (35)	0.15 (14) -0.25 (33) -0.10 (8) 0.22 (12) -0.28 (34)	0.26 (14) -0.19 (36) -0.12 (9) 0.30 (12) -0.22 (36)	M L H	
-500 LR T _d 925 hPa	0.11 (17) -0.27 (27) 0.60 (7) 0.27 (21) -0.50 (22) 0.59 (8)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23) -0.46 (22) 0.34 (9)	0.09 (16) -0.36 (27) 0.51 (7) 0.20 (20) -0.54 (22) 0.51 (8)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23) -0.55 (22) 0.48 (9)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23) -0.36 (24) 0.00 (8)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25) -0.35 (25) -0.02 (9)	M L H M L	- 0.013	-0.04 (13) -0.14 (30) -0.21 (8) -0.21 (8) -0.24 (33) -0.24 (33) -0.59 (8) -0.43 (6)	-0.02 (13) 0.02 (32) -0.12 (9) 0.09 (10) -0.07 (35) 0.34 (9)	-0.05 (12) -0.22 (30) -0.16 (8) 0.04 (9) -0.30 (33) 0.51 (8)	-0.02 (13) -0.12 (32) -0.16 (9) 0.07 (10) -0.20 (35) 0.48 (9)	0.15 (14) -0.25 (33) -0.10 (8) 0.22 (12) -0.28 (34) 0.07 (9)	0.26 (14) -0.19 (36) -0.12 (9) 0.30 (12) -0.22 (36) 0.11 (9)	M L H M	- 0.013
LR T _d 925 hPa	0.11 (17) -0.27 (27) 0.60 (7) 0.27 (21) -0.50 (22) 0.59 (8) 0.38 (8)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23) -0.46 (22) 0.34 (9) 0.36 (8)	0.09 (16) -0.36 (27) 0.51 (7) 0.20 (20) -0.54 (22) 0.51 (8) 0.46 (8)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23) -0.55 (22) 0.48 (9) 0.47 (8)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23) -0.36 (24) 0.00 (8) 0.41 (8)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25) -0.35 (25) -0.02 (9) 0.44 (8)	M L H M L	- 0.013 - 0.020 - 0.020	E -0.04 (13) -0.14 (30) -0.21 (8) -0.21 (8) -0.24 (33) -0.24 (33) -0.59 (8) -0.18 (14) -0.06 -0.75 (5)	-0.02 (13) 0.02 (32) -0.12 (9) 0.09 (10) -0.07 (35) 0.34 (9) 0.31 (6)	-0.05 (12) -0.22 (30) -0.16 (8) 0.04 (9) -0.30 (33) 0.51 (8) 0.60 (6)	-0.02 (13) -0.12 (32) -0.16 (9) 0.07 (10) -0.20 (35) 0.48 (9) 0.62 (6)	0.15 (14) -0.25 (33) -0.10 (8) 0.22 (12) -0.28 (34) 0.07 (9) 0.70 (6)	0.26 (14) -0.19 (36) -0.12 (9) 0.30 (12) -0.22 (36) 0.11 (9) 0.68 (6)	M L H M L	- 0.013 - 0.020 - 0.020
LR 700-500 LR T _d 925 hPa	0.11 (17) -0.27 (27) 0.60 (7) 0.27 (21) -0.50 (22) 0.59 (8) 0.38 (8) -0.32 (10)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23) -0.46 (22) 0.34 (9) 0.36 (8) -0.23 (10)	0.09 (16) -0.36 (27) 0.51 (7) 0.20 (20) -0.54 (22) 0.51 (8) 0.46 (8) -0.35 (10)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23) -0.55 (22) 0.48 (9) 0.47 (8) -0.34 (10)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23) -0.36 (24) 0.00 (8) 0.41 (8) -0.30 (10)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25) -0.35 (25) -0.02 (9) 0.44 (8) -0.16 (10)	M L H M L H	- 0.013	E -0.04 (13) -0.14 (30) -0.21 (8) -0.24 (33) -0.24 (33) -0.24 (33) -0.29 (33) -0.43 (6) -0.18 (14) -0.75 (5) -0.45 (6)	-0.02 (13) 0.02 (32) -0.12 (9) 0.09 (10) -0.07 (35) 0.34 (9) 0.31 (6) -0.08 (14)	-0.05 (12) -0.22 (30) -0.16 (8) 0.04 (9) -0.30 (33) 0.51 (8) 0.60 (6) -0.21 (14)	-0.02 (13) -0.12 (32) -0.16 (9) 0.07 (10) -0.20 (35) 0.48 (9) 0.62 (6) -0.21 (14)	0.15 (14) -0.25 (33) -0.10 (8) 0.22 (12) -0.28 (34) 0.07 (9) 0.70 (6) -0.27 (14)	0.26 (14) -0.19 (36) -0.12 (9) 0.30 (12) -0.22 (36) 0.11 (9) 0.68 (6) -0.05 (14)	M L H M L	- 0.013 - 0.020 - 0.020 - 0.040
500 LR 700-500 LR T _d 925 hPa	0.11 (17) -0.27 (27) 0.60 (7) 0.27 (21) -0.50 (22) 0.59 (8) 0.38 (8) -0.32 (10) -0.32 (7)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23) -0.46 (22) 0.34 (9) 0.36 (8) -0.23 (10) -0.33 (7)	0.09 (16) -0.36 (27) 0.51 (7) 0.20 (20) -0.54 (22) 0.51 (8) 0.46 (8) -0.35 (10) 0.04 (6)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23) -0.55 (22) 0.48 (9) 0.47 (8) -0.34 (10) 0.33 (7)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23) -0.36 (24) 0.00 (8) 0.41 (8) -0.30 (10) 0.65 (8)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25) -0.35 (25) -0.02 (9) 0.44 (8) -0.16 (10) 0.26 (8)	M L H M L H M L	- 0.013 - 0.020 - 0.020	E -0.04 (13) -0.14 (30) -0.21 (8) -0.24 (33) -0.24 (33) -0.24 (33) -0.29 (33) -0.43 (6) -0.18 (14) -0.75 (5) -0.45 (6)	-0.02 (13) 0.02 (32) -0.12 (9) 0.09 (10) -0.07 (35) 0.34 (9) 0.31 (6) -0.08 (14) -0.65 (5)	-0.05 (12) -0.22 (30) -0.16 (8) 0.04 (9) -0.30 (33) 0.51 (8) 0.60 (6) -0.21 (14) -0.96 (4)	-0.02 (13) -0.12 (32) -0.16 (9) 0.07 (10) -0.20 (35) 0.48 (9) 0.62 (6) -0.21 (14) -0.53 (5)	0.15 (14) -0.25 (33) -0.10 (8) 0.22 (12) -0.28 (34) 0.07 (9) 0.70 (6) -0.27 (14) 0.70 (6)	0.26 (14) -0.19 (36) -0.12 (9) 0.30 (12) -0.22 (36) 0.11 (9) 0.68 (6) -0.05 (14) 0.11 (6)	M L H M L	- 0.013 - 0.020 - 0.020 - 0.040
LR 700-500 LR T _d 925 hPa	0.11 (17) -0.27 (27) 0.60 (7) 0.27 (21) -0.50 (22) 0.59 (8) 0.38 (8) -0.32 (10) -0.32 (7) -0.45 (6)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23) -0.46 (22) 0.34 (9) 0.36 (8) -0.23 (10) -0.33 (7) -0.39 (6)	0.09 (16) -0.36 (27) 0.51 (7) 0.20 (20) -0.54 (22) 0.51 (8) 0.46 (8) -0.35 (10) 0.04 (6) -0.42 (6)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23) -0.55 (22) 0.48 (9) 0.47 (8) -0.34 (10) 0.33 (7) -0.41 (6)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23) -0.36 (24) 0.00 (8) 0.41 (8) -0.30 (10) 0.65 (8) -0.30 (6)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25) -0.35 (25) -0.02 (9) 0.44 (8) -0.16 (10) 0.26 (8) -0.23 (6)	M L H M L H M L H	- 0.020 - 0.040 - 0.040 - 0.040 - 0.040 - 0.040 - 0.040	0.04 (13) -0.14 (30) -0.21 (8) -0.24 (33) -0.24 (33) -0.24 (33) -0.24 (33) -0.43 (6) -0.18 (14) -0.75 (5) -0.45 (6)	-0.02 (13) 0.02 (32) -0.12 (9) 0.09 (10) -0.07 (35) 0.34 (9) 0.31 (6) -0.08 (14) -0.65 (5) -0.39 (6)	-0.05 (12) -0.22 (30) -0.16 (8) 0.04 (9) -0.30 (33) 0.51 (8) 0.60 (6) -0.21 (14) -0.96 (4) -0.42 (6)	-0.02 (13) -0.12 (32) -0.16 (9) 0.07 (10) -0.20 (35) 0.48 (9) 0.62 (6) -0.21 (14) -0.53 (5) -0.41 (6)	0.15 (14) -0.25 (33) -0.10 (8) 0.22 (12) -0.28 (34) 0.07 (9) 0.70 (6) -0.27 (14) 0.70 (6) -0.30 (6)	0.26 (14) -0.19 (36) -0.12 (9) 0.30 (12) -0.22 (36) 0.11 (9) 0.68 (6) -0.05 (14) 0.11 (6) -0.23 (6)	M L H M L H M L	- 0.000 - 0.000 - 0.000 - 0.00
LR 850-500 LR 700-500 LR T ₀ 925 hPa	0.11 (17) -0.27 (27) 0.60 (7) 0.27 (21) -0.50 (22) 0.59 (8) 0.38 (8) -0.32 (10) -0.32 (7) -0.45 (6) 0.37 (13)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23) -0.46 (22) 0.34 (9) 0.36 (8) -0.23 (10) -0.33 (7) -0.39 (6) 0.42 (13)	0.09 (16) -0.36 (27) 0.51 (7) 0.20 (20) -0.54 (22) 0.51 (8) 0.46 (8) -0.35 (10) 0.04 (6) -0.42 (6) 0.33 (13)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23) -0.55 (22) 0.48 (9) 0.47 (8) -0.34 (10) 0.33 (7) -0.41 (6) 0.33 (13)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23) -0.36 (24) 0.00 (8) 0.41 (8) -0.30 (10) 0.65 (8) -0.30 (6) 0.07 (13)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25) -0.35 (25) -0.02 (9) 0.44 (8) -0.16 (10) 0.26 (8) -0.23 (6) 0.45 (13)	М L H M L H M L H M L H M	- 0.013 - 0.020 - 0.020	B	-0.02 (13) 0.02 (32) -0.12 (9) 0.09 (10) -0.07 (35) 0.34 (9) 0.31 (6) -0.08 (14) -0.65 (5) -0.39 (6) 0.42 (13)	-0.05 (12) -0.22 (30) -0.16 (8) 0.04 (9) -0.30 (33) 0.51 (8) 0.60 (6) -0.21 (14) -0.96 (4) -0.42 (6) 0.33 (13)	-0.02 (13) -0.12 (32) -0.16 (9) 0.07 (10) -0.20 (35) 0.48 (9) 0.62 (6) -0.21 (14) -0.53 (5) -0.41 (6) 0.33 (13)	0.15 (14) -0.25 (33) -0.10 (8) 0.22 (12) -0.28 (34) 0.07 (9) 0.70 (6) -0.27 (14) 0.70 (6) -0.30 (6) 0.07 (13)	0.26 (14) -0.19 (36) -0.12 (9) 0.30 (12) -0.22 (36) 0.11 (9) 0.68 (6) -0.05 (14) 0.11 (6) -0.23 (6) 0.45 (13)	M L H M L H M L	- 0.000 - 0.000 - 0.000 - 0.00
-700 LR 850-500 LR 700-500 LR Td 925 hPa	0.11 (17) -0.27 (27) 0.60 (7) 0.27 (21) -0.50 (22) 0.59 (8) 0.38 (8) -0.32 (10) -0.32 (7) -0.45 (6) 0.37 (13) -0.21 (6)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23) -0.46 (22) 0.34 (9) 0.36 (8) -0.23 (10) -0.33 (7) -0.39 (6) 0.42 (13) -0.14 (6)	0.09 (16) -0.36 (27) 0.51 (7) 0.20 (20) -0.54 (22) 0.51 (8) 0.46 (8) -0.35 (10) 0.04 (6) -0.42 (6) 0.33 (13) -0.24 (5)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23) -0.55 (22) 0.48 (9) 0.47 (8) -0.34 (10) 0.33 (7) -0.41 (6) 0.33 (13) -0.23 (6)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23) -0.36 (24) 0.00 (8) 0.41 (8) -0.30 (10) 0.65 (8) -0.30 (6) 0.07 (13) 0.18 (7)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25) -0.35 (25) -0.02 (9) 0.44 (8) -0.16 (10) 0.26 (8) -0.23 (6) 0.45 (13) 0.04 (7)	 M L H M L H M L	- 0.013 - 0.020 - 0.040 Conflictent - 0.040 Tini	# -0.04 (13)	-0.02 (13) 0.02 (32) -0.12 (9) 0.09 (10) -0.07 (35) 0.34 (9) 0.31 (6) -0.08 (14) -0.65 (5) -0.39 (6) 0.42 (13) -0.14 (6)	-0.05 (12) -0.22 (30) -0.16 (8) -0.04 (9) -0.30 (33) -0.51 (8) -0.60 (6) -0.21 (14) -0.96 (4) -0.42 (6) -0.33 (13) -0.24 (5)	-0.02 (13) -0.12 (32) -0.16 (9) 0.07 (10) -0.20 (35) 0.48 (9) 0.62 (6) -0.21 (14) -0.53 (5) -0.41 (6) 0.33 (13) -0.23 (6)	0.15 (14) -0.25 (33) -0.10 (8) 0.22 (12) -0.28 (34) 0.07 (9) 0.70 (6) -0.27 (14) 0.70 (6) -0.30 (6) 0.07 (13) 0.18 (7)	0.26 (14) -0.19 (36) -0.12 (9) 0.30 (12) -0.22 (36) 0.11 (9) 0.68 (6) -0.05 (14) 0.11 (6) -0.23 (6) 0.45 (13) 0.04 (7)	М L H M L H M L H M L H M L	- 0.013 - 0.020 - 0.0400 - 0.0400 - 0.0400
LR 850-500 LR 700-500 LR T ₀ 925 hPa	0.11 (17) -0.27 (27) 0.60 (7) 0.27 (21) -0.50 (22) 0.59 (8) 0.38 (8) -0.32 (10) -0.32 (7) -0.45 (6) 0.37 (13) -0.21 (6)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23) -0.46 (22) 0.34 (9) 0.36 (8) -0.23 (10) -0.33 (7) -0.39 (6) 0.42 (13) -0.14 (6) -0.37 (9)	0.09 (16) -0.36 (27) 0.51 (7) 0.20 (20) -0.54 (22) 0.51 (8) 0.46 (8) -0.35 (10) 0.04 (6) -0.42 (6) 0.33 (13) -0.24 (5) -0.80 (8)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23) -0.55 (22) 0.48 (9) 0.47 (8) -0.33 (7) -0.41 (6) 0.33 (13) -0.23 (6) -0.38 (9)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23) -0.36 (24) 0.00 (8) 0.41 (8) -0.30 (10) 0.65 (8) -0.30 (6) 0.07 (13) 0.18 (7) -0.75 (8)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25) -0.35 (25) -0.02 (9) 0.44 (8) -0.16 (10) 0.26 (8) -0.23 (6) 0.45 (13) 0.04 (7) -0.33 (10)	M L H M L H M L H	- 0.013 - 0.000 - 0.00	B	-0.02 (13) 0.02 (32) -0.12 (9) 0.09 (10) -0.07 (35) 0.34 (9) 0.31 (6) -0.08 (14) -0.65 (5) -0.39 (6) 0.42 (13) -0.14 (6) -0.38 (13)	-0.05 (12) -0.22 (30) -0.16 (8) 0.04 (9) -0.30 (33) 0.51 (8) 0.60 (6) -0.21 (14) -0.96 (4) -0.42 (6) 0.33 (13) -0.24 (5) -0.59 (10)	-0.02 (13) -0.12 (32) -0.16 (9) 0.07 (10) -0.20 (35) 0.48 (9) 0.62 (6) -0.21 (14) -0.53 (5) -0.41 (6) 0.33 (13) -0.23 (6) -0.39 (13)	0.15 (14) -0.25 (33) -0.10 (8) 0.22 (12) -0.28 (34) 0.07 (9) 0.70 (6) -0.27 (14) 0.70 (6) -0.30 (6) 0.07 (13) 0.18 (7) -0.52 (10)	0.26 (14) -0.19 (36) -0.12 (9) 0.30 (12) -0.22 (36) 0.11 (9) 0.68 (6) -0.05 (14) 0.11 (6) -0.23 (6) 0.45 (13) 0.04 (7) -0.35 (14)	M L H M L H M L H	- inf 0.000 - inf 0.000 - o.000 - o.0000 - o.0000 - o.0000 - o.00000 - o.000000 - o.00000000 - o.0000000000
x 850-700 LR 850-500 LR 700-500 LR T ₀ 925 hPa	0.11 (17) -0.27 (27) 0.60 (7) 0.27 (21) -0.50 (22) 0.59 (8) 0.38 (8) -0.32 (10) -0.32 (7) -0.45 (6) 0.37 (13) -0.21 (6) -0.78 (8) -0.30 (22)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23) -0.46 (22) 0.34 (9) 0.36 (8) -0.23 (10) -0.33 (7) -0.39 (6) 0.42 (13) -0.14 (6) -0.37 (9) -0.25 (23)	0.09 (16) -0.36 (27) 0.51 (7) 0.20 (20) -0.54 (22) 0.51 (8) 0.46 (8) -0.35 (10) 0.04 (6) -0.42 (6) -0.33 (13) -0.24 (5) -0.80 (8) -0.33 (21)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23) -0.55 (22) 0.48 (9) 0.47 (8) -0.34 (10) 0.33 (7) -0.41 (6) 0.33 (13) -0.23 (6) -0.38 (9) -0.34 (23)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23) -0.36 (24) 0.00 (8) 0.41 (8) -0.30 (10) 0.65 (8) -0.30 (6) 0.07 (13) 0.18 (7) -0.75 (8) -0.09 (22)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25) -0.35 (25) -0.02 (9) 0.44 (8) -0.16 (10) 0.26 (8) -0.23 (6) 0.45 (13) 0.04 (7) -0.33 (10) -0.10 (23)	M L H M L H M L H	- 0.013 - 0.020 - 0.040 Conflictent - 0.040 Tini	## -0.04 (13) -0.14 (30) -0.21 (8) -0.08 (10) -0.24 (33) -0.59 (8) -0.43 (6) -0.18 (14) -0.75 (5) -0.45 (6) -0.57 (10) -0.13 (28) -0.53 (12) -0.30 (9)	-0.02 (13) 0.02 (32) -0.12 (9) 0.09 (10) -0.07 (35) 0.34 (9) 0.31 (6) -0.08 (14) -0.65 (5) -0.39 (6) 0.42 (13) -0.14 (6) -0.38 (13) -0.06 (28)	-0.05 (12) -0.22 (30) -0.16 (8) -0.04 (9) -0.30 (33) -0.51 (8) -0.60 (6) -0.21 (14) -0.96 (4) -0.42 (6) -0.33 (13) -0.24 (5) -0.59 (10) -0.14 (27)	-0.02 (13) -0.12 (32) -0.16 (9) 0.07 (10) -0.20 (35) 0.48 (9) 0.62 (6) -0.21 (14) -0.53 (5) -0.41 (6) 0.33 (13) -0.23 (6) -0.39 (13) -0.15 (28)	0.15 (14) -0.25 (33) -0.10 (8) 0.22 (12) -0.28 (34) 0.07 (9) 0.70 (6) -0.27 (14) 0.70 (6) -0.30 (6) 0.07 (13) 0.18 (7) -0.52 (10) 0.01 (29)	0.26 (14) -0.19 (36) -0.12 (9) 0.30 (12) -0.22 (36) 0.11 (9) 0.68 (6) -0.05 (14) 0.11 (6) -0.23 (6) 0.045 (13) 0.04 (7) -0.35 (14) 0.04 (29)	M L H M L H M L H	- 0.000 - 0.000 - 0.000 - 0.00
x 850-700 LR 850-500 LR 700-500 LR T ₀ 925 hPa	0.11 (17) -0.27 (27) 0.60 (7) 0.27 (21) -0.50 (22) 0.59 (8) 0.38 (8) -0.32 (10) -0.32 (7) -0.45 (6) 0.37 (13) -0.21 (6) -0.78 (8) -0.30 (22) 0.45 (21)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23) -0.46 (22) 0.34 (9) 0.36 (8) -0.23 (10) -0.33 (7) -0.39 (6) 0.42 (13) -0.14 (6) -0.37 (9) -0.25 (23) 0.41 (21)	0.09 (16) -0.36 (27) 0.51 (7) 0.20 (20) -0.54 (21) 0.51 (8) 0.46 (8) -0.35 (10) 0.04 (6) -0.42 (6) -0.42 (6) -0.33 (13) -0.24 (5) -0.30 (8) -0.33 (21) 0.36 (21)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23) -0.55 (22) 0.48 (9) 0.47 (8) -0.34 (10) 0.33 (13) -0.23 (6) -0.38 (9) -0.34 (23)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23) -0.36 (24) 0.00 (8) 0.41 (8) -0.30 (10) 0.65 (8) -0.30 (10) 0.70 (13) 0.18 (7) -0.75 (8) -0.09 (22) -0.14 (23)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25) -0.35 (25) -0.02 (9) 0.44 (8) -0.16 (10) 0.26 (8) -0.23 (6) 0.45 (13) 0.04 (7) -0.33 (10) -0.10 (23) -0.07 (23)	M L H M L H M L H M L	- 0.013 - 0.000 - 0.00	## -0.04 (13) -0.14 (30) -0.21 (8) -0.08 (10) -0.24 (33) -0.59 (8) -0.43 (6) -0.18 (14) -0.75 (5) -0.45 (6) -0.57 (10) -0.13 (28) -0.53 (12) -0.30 (9)	-0.02 (13) 0.02 (32) -0.12 (9) -0.09 (10) -0.07 (35) 0.34 (9) 0.31 (6) -0.08 (14) -0.65 (5) -0.39 (6) 0.42 (13) -0.14 (6) -0.38 (13) -0.08 (28) 0.46 (12)	-0.05 (12) -0.22 (30) -0.16 (8) 0.04 (9) -0.30 (33) 0.51 (8) 0.60 (6) -0.21 (14) -0.96 (4) -0.42 (6) 0.33 (13) -0.24 (5) -0.59 (10) -0.14 (27) 0.46 (12)	-0.02 (13) -0.12 (32) -0.16 (2) -0.16 (2) -0.7 (10) -0.20 (35) -0.48 (9) -0.62 (6) -0.21 (14) -0.53 (6) -0.41 (6) -0.33 (13) -0.23 (6) -0.39 (13) -0.15 (28)	0.15 (14) -0.25 (33) -0.10 (8) -0.22 (12) -0.28 (34) -0.70 (6) -0.27 (14) -0.70 (6) -0.30 (6) -0.07 (13) -0.18 (7) -0.52 (10) -0.10 (29) -0.25 (13)	0.26 (14) -0.19 (36) -0.12 (36) -0.12 (36) 0.30 (12) -0.22 (36) 0.11 (9) -0.66 (6) -0.05 (14) -0.11 (6) -0.23 (6) -0.45 (13) -0.40 (7) -0.35 (14) -0.40 (29) -0.23 (13)	M L H M L H M L H M L	- inf 0.000 - inf 0.000 - o.000 - o.0000 - o.0000 - o.0000 - o.00000 - o.000000 - o.00000000 - o.0000000000
-700 LR 850-500 LR 700-500 LR Td 925 hPa	0.11 (17) -0.27 (27) -0.60 (7) -0.70 (21) -0.50 (22) -0.59 (8) -0.32 (10) -0.32 (7) -0.45 (6) -0.37 (13) -0.21 (6) -0.76 (8) -0.30 (22) -0.45 (21) -0.34 (11)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23) -0.46 (22) 0.36 (8) -0.33 (10) -0.33 (7) -0.39 (6) 0.42 (13) -0.14 (6) -0.37 (9) -0.25 (23) -0.41 (21) -0.31 (11)	0.09 (16) -0.36 (27) 0.51 (7) 0.51 (7) 0.00 (20) -0.54 (22) 0.51 (8) 0.46 (8) -0.35 (10) -0.42 (6) -0.33 (13) -0.24 (5) -0.80 (8) -0.35 (21) -0.36 (21)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23) -0.55 (22) 0.48 (9) 0.47 (8) -0.34 (10) 0.33 (7) -0.41 (6) 0.33 (13) -0.23 (6) -0.38 (23) -0.34 (21) -0.25 (11)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23) -0.36 (24) 0.00 (8) 0.41 (8) -0.30 (10) 0.55 (8) -0.30 (6) 0.07 (13) 0.18 (7) -0.75 (8) -0.09 (22) -0.14 (23) -0.14 (11)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25) -0.03 (25) -0.02 (9) 0.44 (8) -0.16 (10) 0.26 (8) -0.23 (6) 0.45 (13) 0.04 (7) -0.33 (10) -0.10 (23) -0.10 (23)	М L Н М L Н М L Н М L Н	- 0.013 - 0.020 - o.040 - o.04	# -0.04 (13) -0.14 (30) -0.21 (8) -0.21 (8) -0.24 (33) -0.34 (6) -0.18 (14) -0.75 (5) # -0.45 (6) 0.37 (13) -0.21 (6) -0.13 (28) 0.53 (12) -0.30 (9)	-0.02 (13) 0.02 (32) -0.12 (9) 0.09 (10) 0.09 (10) 0.31 (6) -0.08 (14) -0.65 (5) -0.39 (6) 0.42 (13) -0.14 (6) -0.08 (13) -0.04 (6) 0.04 (12) 0.05 (13)	-0.05 (12) -0.22 (30) -0.16 (8) -0.16 (8) -0.04 (9) -0.30 (33) -0.51 (8) -0.60 (6) -0.21 (14) -0.42 (6) -0.33 (13) -0.24 (5) -0.59 (10) -0.14 (27) -0.46 (12) -0.89 (6)	-0.02 (13) -0.12 (32) -0.16 (2) -0.16 (2) -0.7 (10) -0.20 (35) -0.48 (9) -0.62 (6) -0.21 (14) -0.53 (5) -0.41 (6) -0.33 (13) -0.23 (6) -0.39 (13) -0.15 (28) -0.41 (2) -0.49 (9)	0.15 (14) -0.25 (33) -0.10 (8) -0.10 (9) -0.26 (34) -0.70 (6) -0.27 (14) -0.70 (6) -0.30 (6) -0.30 (6) -0.71 (13) -0.18 (7) -0.52 (10) -0.1 (29) -0.25 (13) -0.31 (9)	0.26 (14) -0.19 (36) -0.12 (9) -0.22 (36) 0.11 (9) -0.68 (6) -0.05 (14) -0.11 (6) -0.23 (6) -0.45 (13) -0.44 (7) -0.35 (14) -0.42 (3) -0.42 (3) -0.42 (3) -0.44 (9)	. M L H M L H M L H M L H	- inf 0.000 - inf 0.000 - o.000 - o.0000 - o.0000 - o.0000 - o.00000 - o.000000 - o.00000000 - o.0000000000
Kindex 850-700 LR 850-500 LR 700-500 LR T _d 925 jhPa	0.11 (17) -0.27 (27) -0.60 (7) -0.27 (21) -0.50 (22) -0.59 (8) -0.32 (10) -0.32 (10) -0.32 (10) -0.32 (10) -0.32 (10) -0.32 (10) -0.34 (11) -0.34 (11) -0.14 (7)	0.13 (17) -0.09 (29) 0.34 (8) 0.27 (23) -0.46 (22) 0.36 (8) -0.23 (10) -0.39 (6) -0.42 (13) -0.14 (6) -0.37 (9) -0.25 (23) -0.41 (21) -0.31 (11) -0.33 (7)	0.09 (16) -0.36 (27) -0.51 (7) -0.00 (20) -0.00 (20) -0.51 (8) -0.46 (8) -0.35 (10) -0.46 (6) -0.33 (13) -0.24 (5) -0.80 (8) -0.33 (21) -0.62 (10) -0.11 (7)	0.10 (17) -0.24 (29) 0.48 (8) 0.27 (23) -0.45 (8) 0.47 (8) -0.34 (10) 0.33 (13) -0.23 (6) -0.38 (9) -0.34 (21) -0.25 (11) -0.15 (7)	0.26 (18) -0.31 (29) -0.00 (7) -0.09 (23) -0.36 (24) -0.00 (8) -0.36 (10) -0.55 (8) -0.30 (10) -0.55 (8) -0.30 (10) -0.75 (8) -0.77 (13) -0.18 (7) -0.75 (8) -0.09 (22) -0.14 (23) -0.14 (11) -0.06 (8)	0.33 (18) -0.25 (32) -0.03 (8) -0.03 (25) -0.05 (25) -0.02 (9) 0.44 (8) -0.16 (10) 0.26 (6) 0.26 (6) 0.45 (13) 0.04 (7) -0.33 (10) -0.10 (23) -0.07 (23) -0.12 (11) 0.50 (8)	М	- 0.013 - 0.000 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	## -0.04 (13) -0.14 (30) -0.14 (30) -0.14 (30) -0.21 (8) -0.08 (10) -0.24 (33) -1 0.59 (8) -0.43 (6) -0.18 (14) -0.75 (5) ## -0.45 (6) 0.37 (13) -0.21 (6) -0.37 (28) -0.30 (9) -0.28 (9)	-0.02 (13) 0.02 (32) -0.12 (9) 0.09 (10) 0.03 (6) -0.08 (14) -0.08 (14) -0.39 (6) 0.42 (13) -0.14 (6) -0.38 (13) -0.06 (22) 0.34 (9) -0.34 (9) -0.27 (9)	-0.05 (12) -0.22 (30) -0.16 (8) -0.04 (9) -0.30 (33) -0.51 (8) -0.60 (6) -0.21 (14) -0.96 (4) -0.42 (6) -0.33 (13) -0.24 (5) -0.59 (10) -0.14 (27) -0.46 (12) -0.49 (8)	-0.02 (13) -0.12 (32) -0.16 (2) -0.16 (2) -0.7 (10) -0.20 (35) -0.48 (9) -0.62 (6) -0.21 (14) -0.53 (6) -0.33 (13) -0.23 (6) -0.39 (13) -0.15 (28) -0.54 (12) -0.49 (9) -0.32 (9)	0.15 (14) -0.25 (33) -0.10 (8) 0.22 (12) -0.26 (34) 0.07 (9) 0.70 (6) -0.27 (14) 0.70 (6) 0.07 (13) 0.18 (7) -0.52 (10) 0.01 (29) -0.25 (13) 0.31 (9) -0.20 (10)	0.26 (14) -0.19 (36) -0.12 (9) 0.30 (12) -0.22 (36) 0.11 (9) 0.68 (6) -0.05 (14) 0.11 (6) -0.23 (6) 0.45 (13) 0.04 (7) -0.35 (14) 0.04 (2) -0.23 (13) 0.44 (9) -0.02 (10)		- 0.013 - 0.020 - 0.020 - 0.040 - inf
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Figure S9: As in Fig. S4 but using p95 APR-3 Ku-band composite Z_H as the convective parameter.

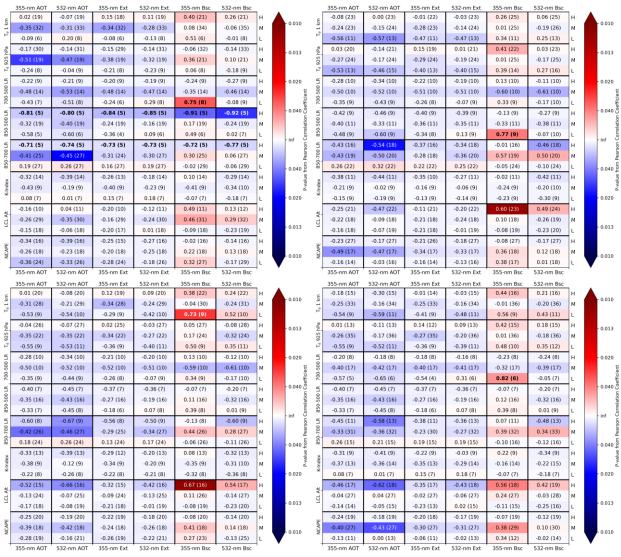


Figure S10: As in Fig. S4 but using the number of APR-3 Ku-band composite Z_H pixels \geq 30 dBZ within a given scene as the convective parameter.



Figure S11: As in Fig. S4 but using p95 APR-3 Ku-/Ka-band dual-frequency ratio (DFR) as the convective parameter.