

General Assembly

Nov 15th  
2022

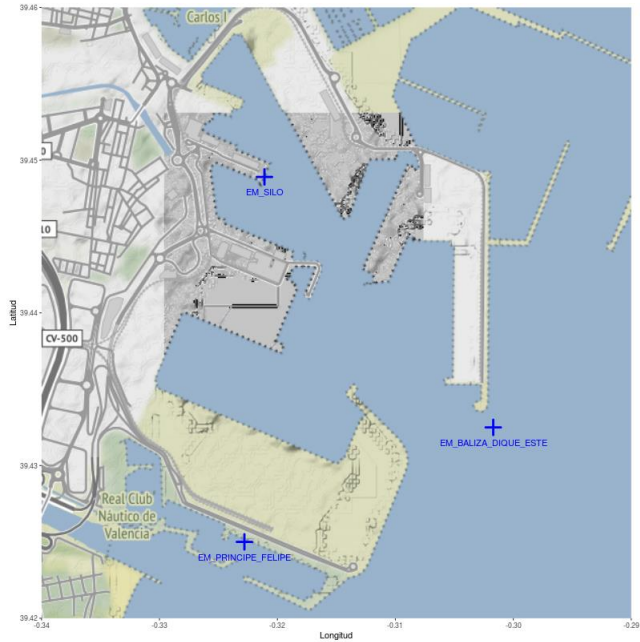
Telco



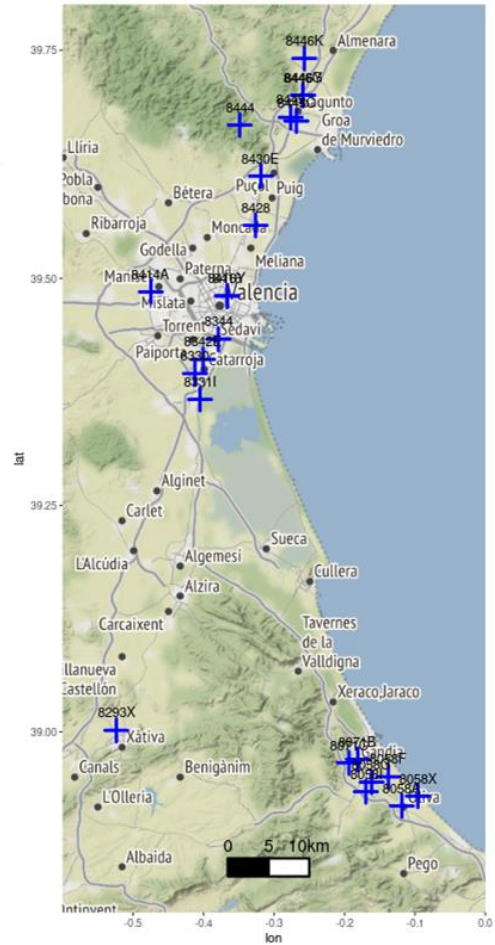
# 2nd General Assembly

Fundación Valenciaport

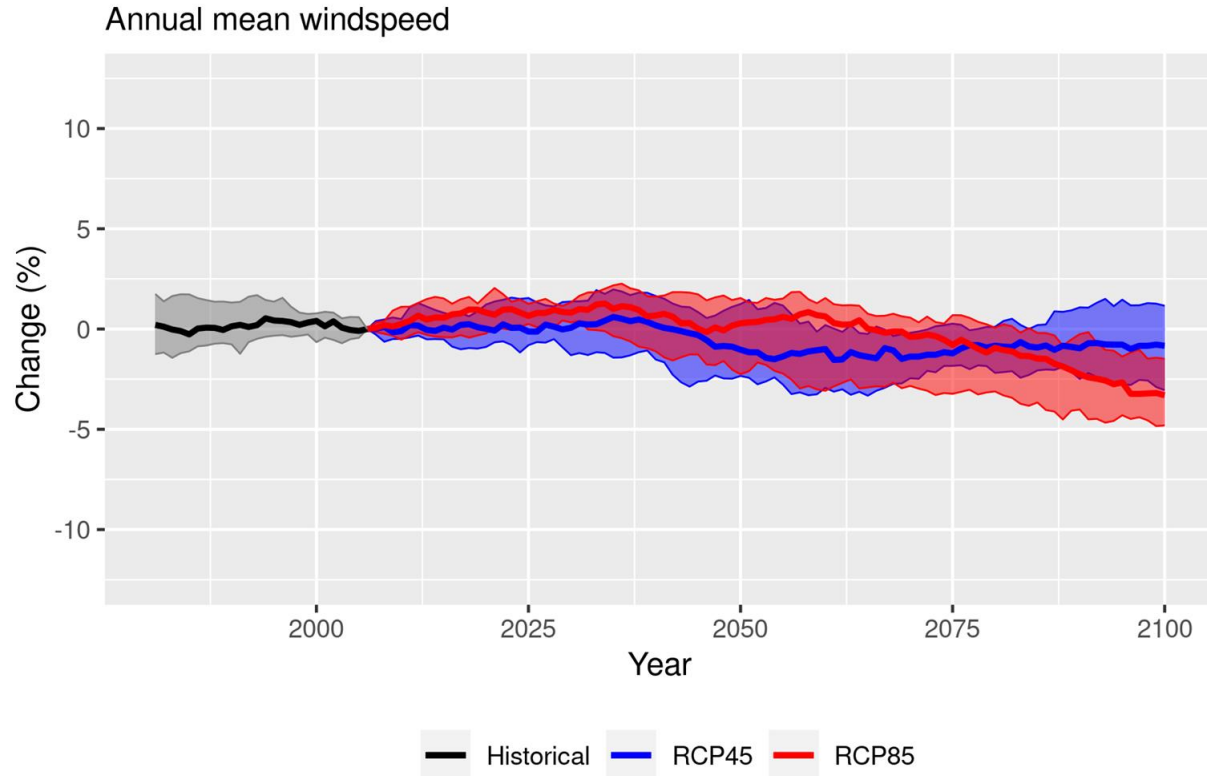
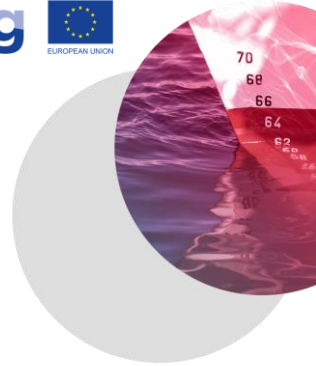
# 5. ECCLIPSE



Weather stations from (in order):  
Port de Valencia; AEMet/AVAMET, SIMAR



# 5. ECCLIPSE - Mean wind

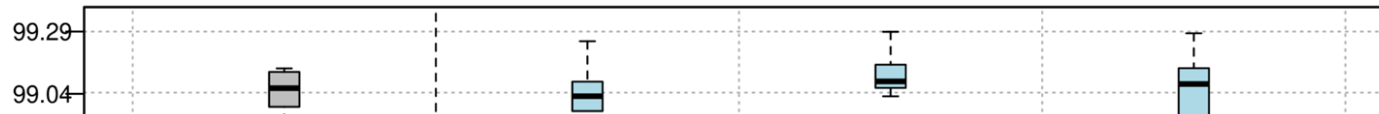


# 5. ECCLIPSE - Mean wind (extremes)



Quantile value EMPF 36km/h

Two C



Quantile values	Median values of 36 km/h threshold			
	Historical	2016-2040	2041-2070	2071-2100
Valencia - EMPF	99	99	99.1	99.1
SIMAR Gandia	98.95	98.9	98.9	99.15
SIMAR Sagunt	99.2	99.2	99.2	99.35



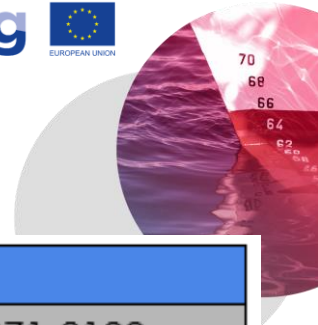
Historical

2016-2040

2041-2070

2071-2100

# 5. ECCLIPSE - Mean wind (extremes)



(km/h)	Median values of 20-year Return Period			
	Historical	2016-2040	2041-2070	2071-2100
Valencia - EMPF	55	50	55	48
SIMAR Gandia	46	44	44	44
SIMAR Sagunt	72	76	68	62

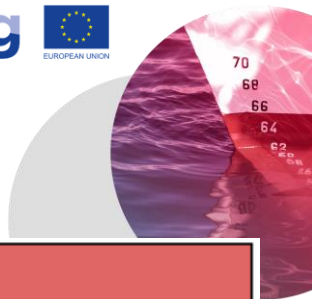
# 5. ECCLIPSE - Wind gusts



No significant changes

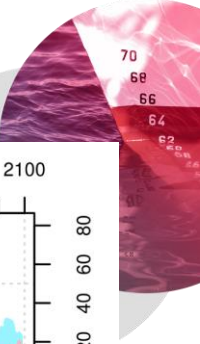
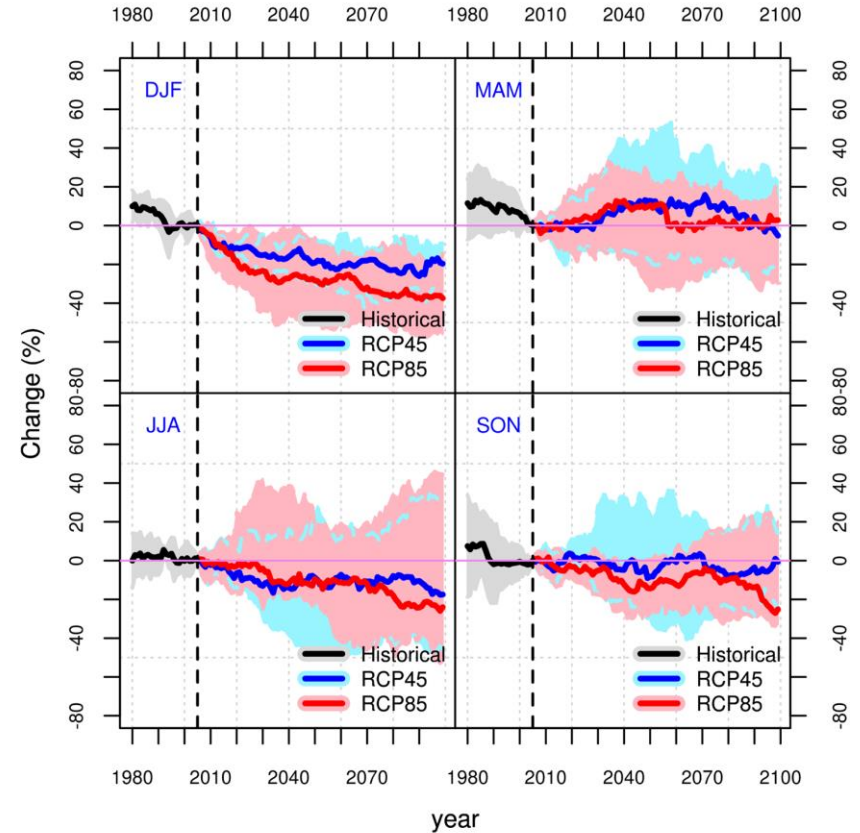
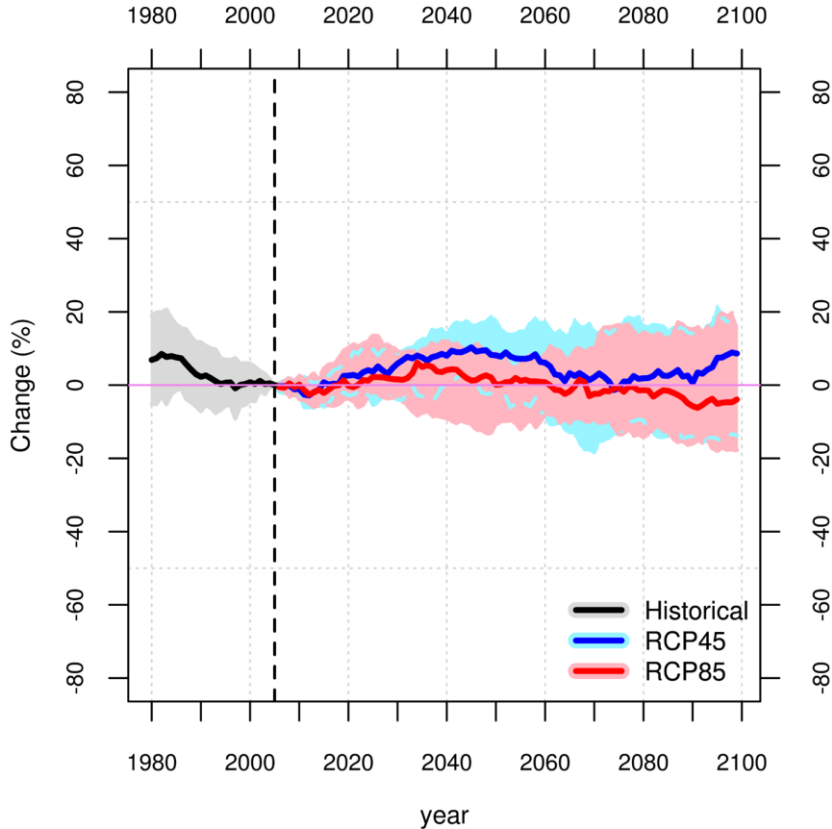
Quantile value	Port of Valencia EMPF			
	Historical	2016-2040	2041-2070	2071-2100
Median quantile 19.8 km/h	79.50	79.90	80.00	81.90
Median quantile 34.9 km/h	97.50	97.50	97.34	97.8
Median quantile 57.6 km/h	99.90	99.85	99.85	99.85
Median quantile 75 km/h	99.99	99.99	99.99	99.99

# 5. ECCLIPSE - Visibility (fog)



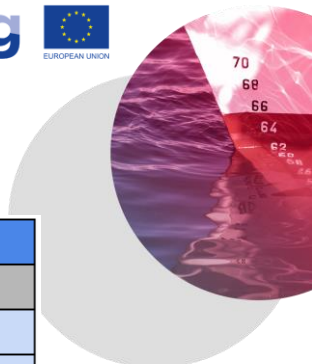
	RCP 4.5			RCP 8.5		
	2016-2040	2041-2070	2071-2100	2016-2040	2041-2070	2071-2100
Port of Valencia	+5% (-10/+30)	-10% (-20/+5)	-15% (-40/+5)	-15% (-20/+10)	-20% (-30/+5)	-25% (-50/-10)
Port of Gandia	0% (-35/+50)	-35% (-50/0)	-50% (-70/+5)	-10% (-50/+25)	-30% (-60/0)	-60% (-80/-40)
Port of Sagunt	+5% (-10/+25)	-10% (-20/+15)	-15% (-25/+5)	0% (-25/+10)	-15% (-25/+5)	-10% (-40/+15)

# 5. ECCLIPSE - Mean Rainfall





# 5. ECCLIPSE - Extreme rainfall

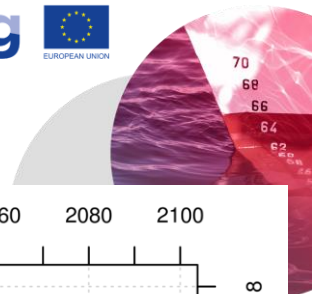


	Port of Valencia			
	Historical	2016-2040	2041-2070	2071-2100
Median 5-y RP (mm)	100	190	220	220
Median 20-y RP (mm)	120	230	290	275
Median 100-y RP (mm)	160	300	360	335

	Port of Sagunt			
	Historical	2016-2040	2041-2070	2071-2100
Median 5-y RP (mm)	165	168	175	175
Median 20-y RP (mm)	205	200	215	210
Median 100-y RP (mm)	245	240	250	245

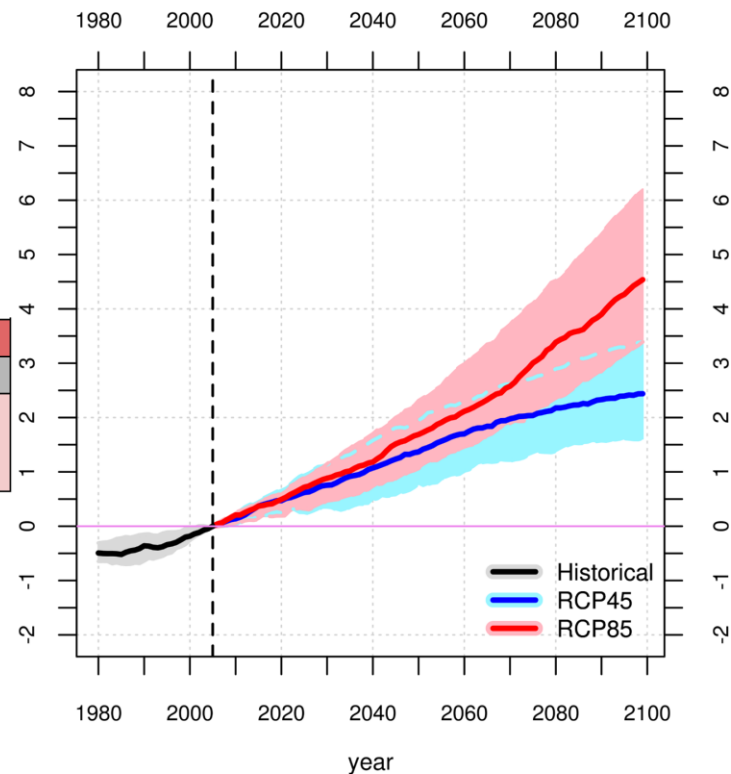
	Port of Gandia			
	Historical	2016-2040	2041-2070	2071-2100
Median 5-y RP (mm)	220	245	270	260
Median 20-y RP (mm)	260	315	315	315
Median 100-y RP (mm)	305	370	400	370

# 5. ECCLIPSE - Temperature



Changes are similar for the three ports.

	RCP 4.5			RCP 8.5		
	2016-2040	2041-2070	2071-2100	2016-2040	2041-2070	2071-2100
Valencia region (° C)	+1 (+0.5/+1.5)	+2 (+1.5/+2.5)	+2.5 (+1.5/+3.5)	+1 (+0.7/+1.7)	+2.5 (+2/+3.5)	+4.5 (+3.5/+6)

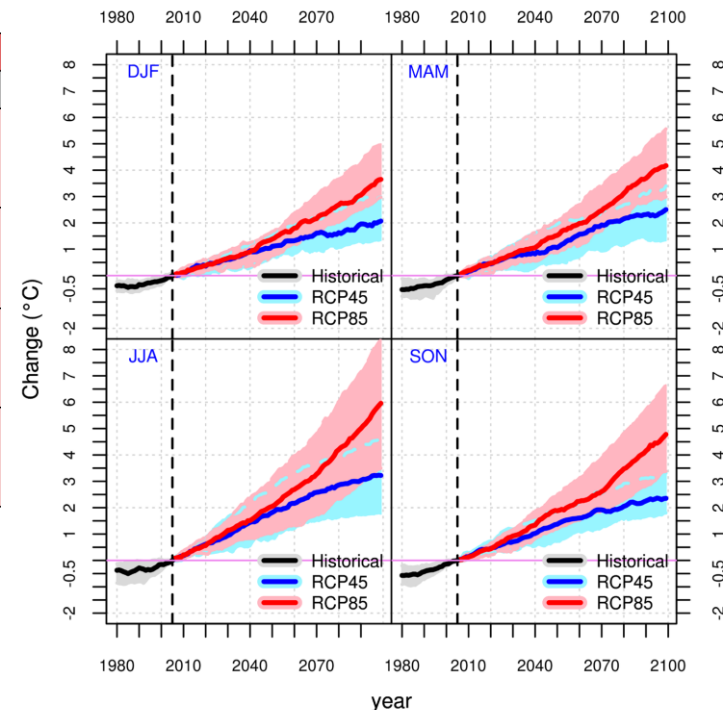


# 5. ECCLIPSE - Temperature

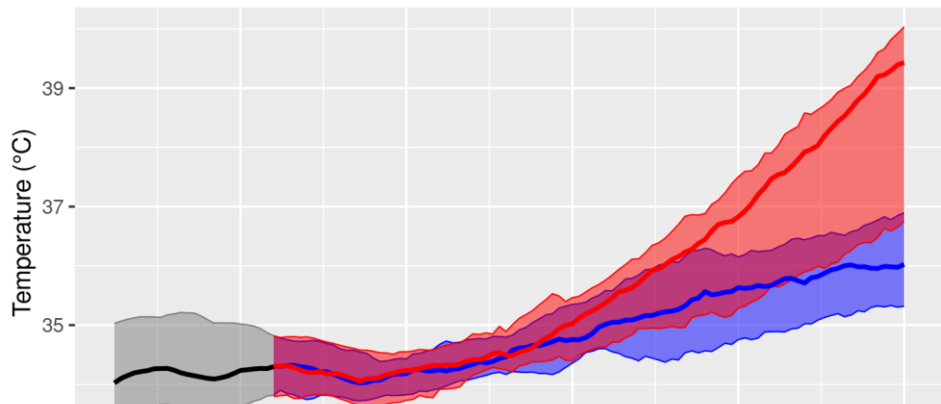


	RCP 4.5			RCP 8.5		
	2016-2040	2041-2070	2071-2100	2016-2040	2041-2070	2071-2100
Valencia region (winter - °C)	+1 (+0.5/+1.5)	+1.5 (+1/+2.2)	+2 (+1.5/+2.5)	+1 (+0.5/+1.5)	+2.5 (+2/+3.5)	+3.5 (+3/+4.5)
Valencia region (spring - °C)	+1 (+0.5/+2)	+2 (+1/+2.5)	+2.5 (+1.5/+3.5)	+1 (+0.5/+2)	+2 (+2/+3.5)	+4 (+3/+5.5)
Valencia region (summer - °C)	+1.5 (+0.5/+2)	+2.5 (+1.5/+3.5)	+3 (+2/+4.5)	+1.5 (+1/+2.5)	+3 (+1.5/+4.5)	+6 (+3.5/+8)
Valencia region (autumn - °C)	+1 (+0.5/+1.5)	+2 (+1/+2.5)	+2.5 (+1.5/+3)	+1.5 (+1/+2)	+2.5 (+2/+3.5)	+5 (+3.5/+6.5)

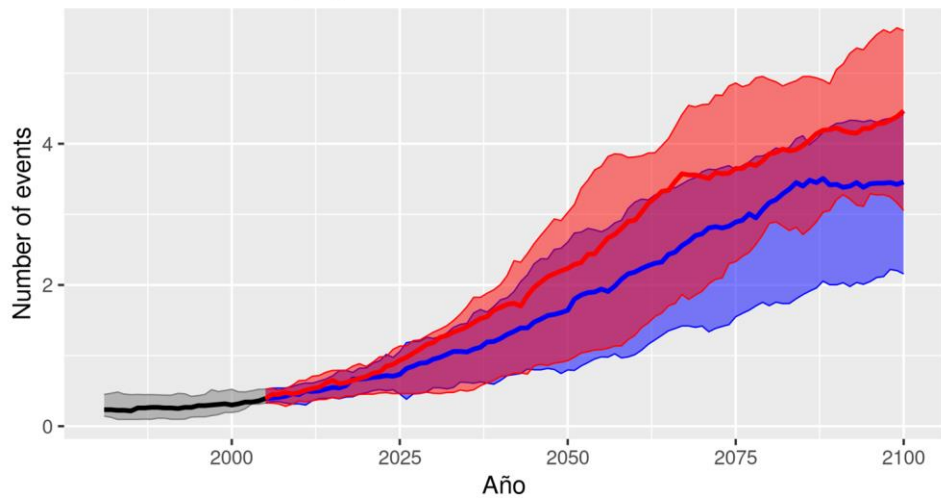
Most remarkable change in **SUMMER**



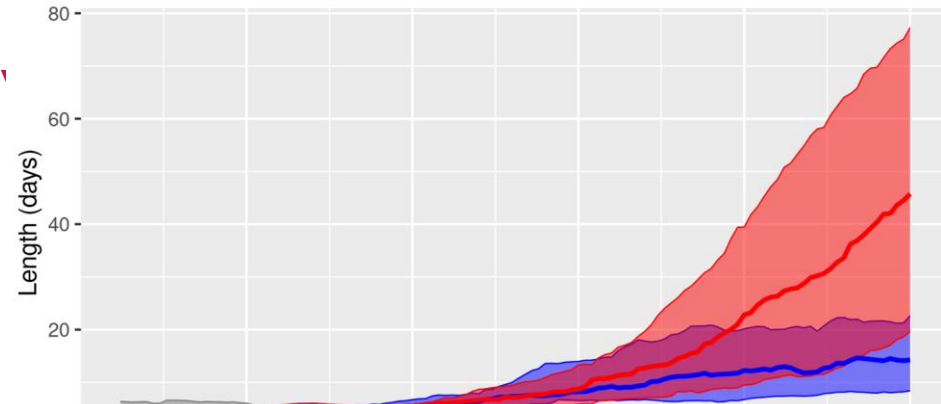
Maximum Temperature of the heat wave days



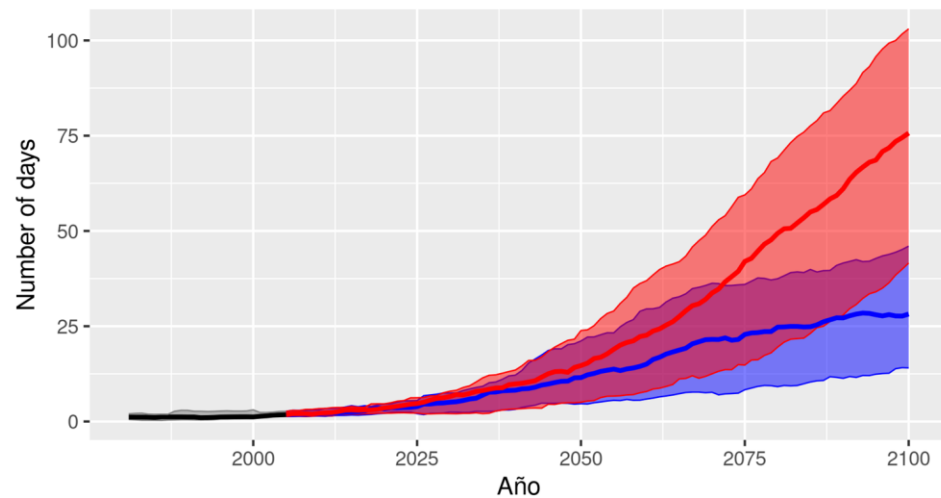
Number of heat waves per year



Maximum heat wave length



Number of days under a heat wave per year



— Historical — RCP45 — RCP85

— Historical — RCP45 — RCP85

# 5. ECCLIPSE - Heatwaves



Valencia Gandia

	Historical	RCP 4.5			RCP 8.5		
		2016-2040	2041-2070	2071-2100	2016-2040	2041-2070	2071-2100
Intensity (°C)	38.0	39.0 (37.7/40.0)	40.0 (39.0/41.2)	41.0 (39.1/42.0)	39.0 (38.0/40.1)	41 (40.0/42.1)	45.5 (42.0/46.5)
Max. length (days)	5	6 (5/8)	10 (8/16)	11 (8/17)	7 (6/8)	15 (8/22)	35 (15/63)
Frequency (n° events)	0.6	1.5 (1/2.5)	3 (1.5/3.6)	3 (2.2/4.5)	1.6 (0.7/3)	3 (1.5/4.5)	4.6 (3.5/5.1)
Heatwave days	3	9 (5/16)	18 (10/20)	20 (10/40)	10 (3/20)	25 (10/45)	63 (32/83)