Outline

1 D splay of CMIP5 and CMIP6 model gr d po nts over Turkey

2 Introduct on of selected models and Cl mate Indexes

3 Compar son of the cl mate ndex results calculated by the models and the Turk sh State Meteorolog cal Serv ce together w th the graph cs

4 Analyz ng the cl mate ndex results accord ng to the graphs

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Purpose of the study

First Purpose

Calculation of climate indices with Climate Data Operator (CDO) for CMIP5 and CMIP6 models
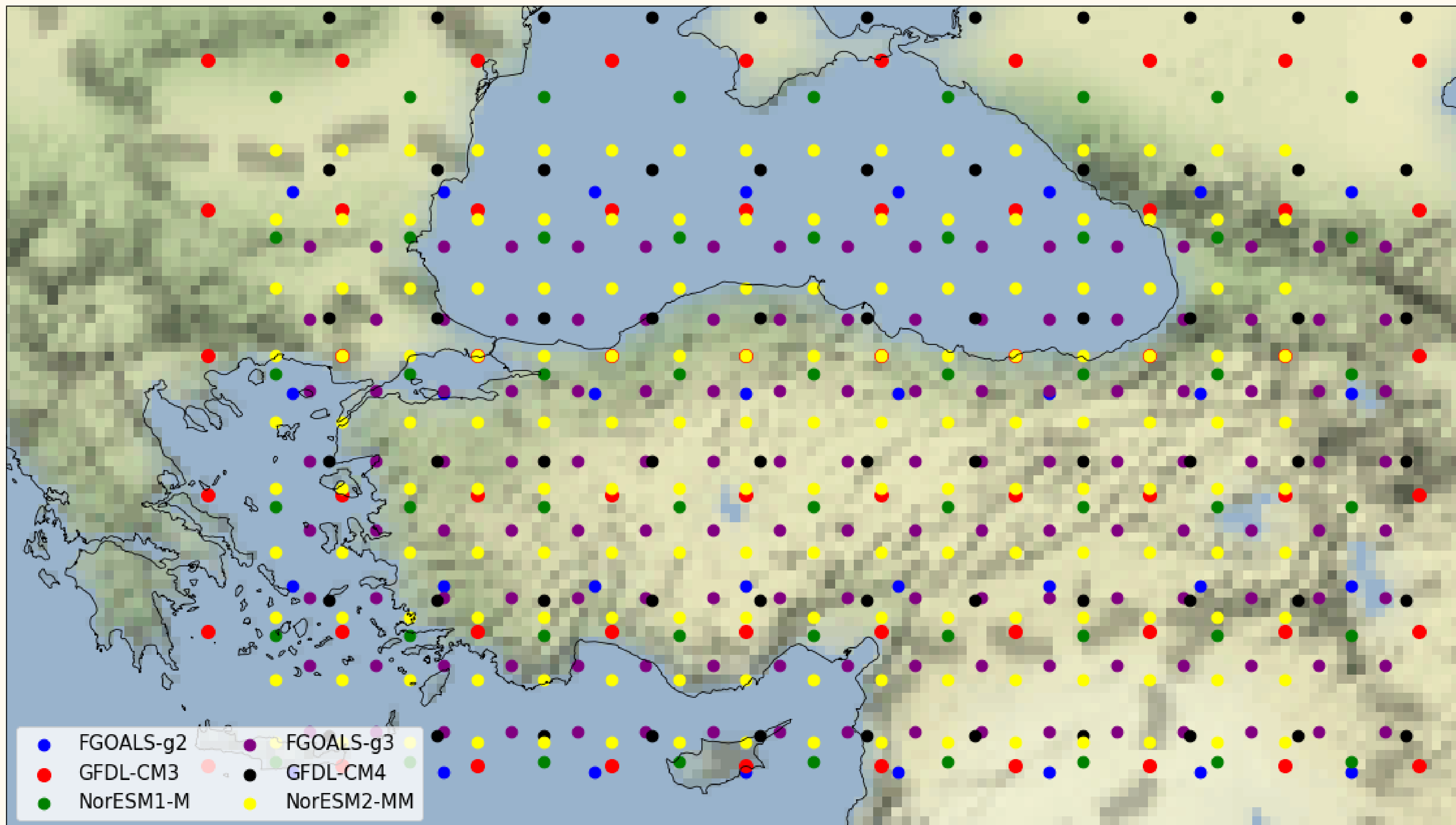
Second Purpose

Comparison of the results of the climate index of the Turkish State Meteorological Service, CMIP5 and CMIP6 data

Third Purpose

To compare the consistency of all models from CMIP5 and CMIP6 on Turkey

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CMIP5 AND CMIP6 MODELS GRID POINTS IN TURKEY

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Legend:
- FGOALS-g2 (blue)
- FGOALS-g3 (purple)
- GFDL-CM3 (red)
- GFDL-CM4 (black)
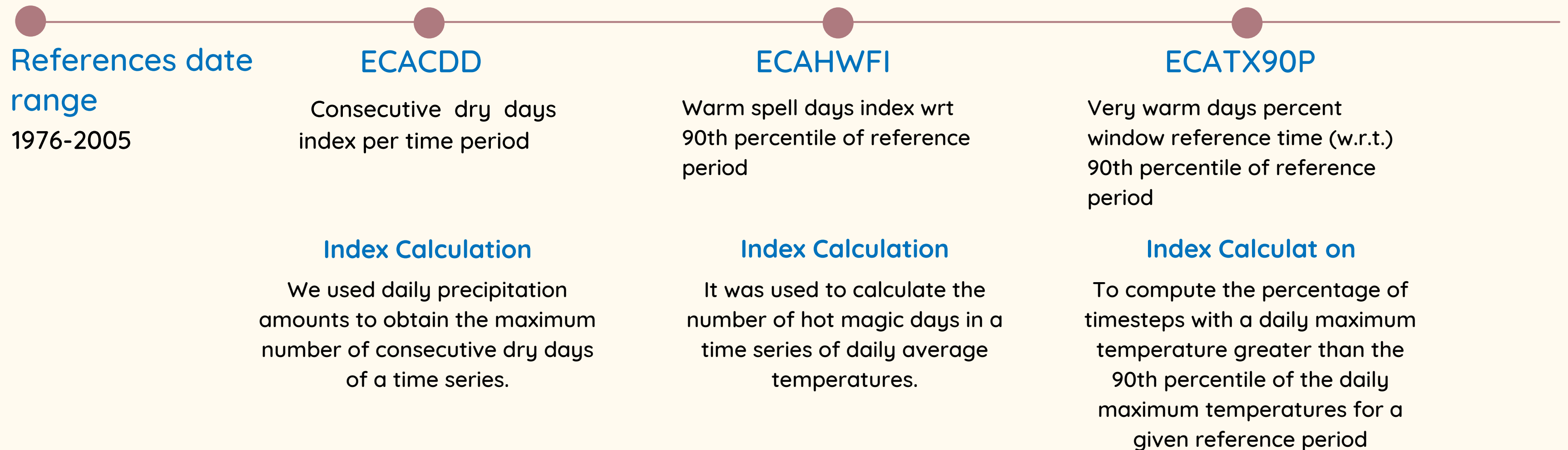- NorESM1-M (green)
- NorESM2-MM (yellow)

Models and Climate Indices with Climate Data Operators (CDO) Used in the Study

CMIP5 Models	CMIP6 Models
FGOALS-g2	FGOALS-g3
GFDL-CM3	GFDL-CM4
NorESM1-M	NorESM2-MM

Climate Indices with CDO	
Temperature	Precipitation
ECATX90P	ECACDD
ECAHWFI	

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References date range
1976-2005

ECACDD

Consecutive dry days index per time period

Index Calculation

We used daily precipitation amounts to obtain the maximum number of consecutive dry days of a time series.

ECAHWFI

Warm spell days index wrt 90th percentile of reference period

Index Calculation

It was used to calculate the number of hot magic days in a time series of daily average temperatures.

ECATX90P

Very warm days percent window reference time (w.r.t.) 90th percentile of reference period

Index Calculat on

To compute the percentage of timesteps with a daily maximum temperature greater than the 90th percentile of the daily maximum temperatures for a given reference period

Thank You For Listening

Quest ons and Comments
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References

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02 fdkslfjsldfjsldjf

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04 fjslkdfjdslfjs

05 fjdslfjlsdj

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