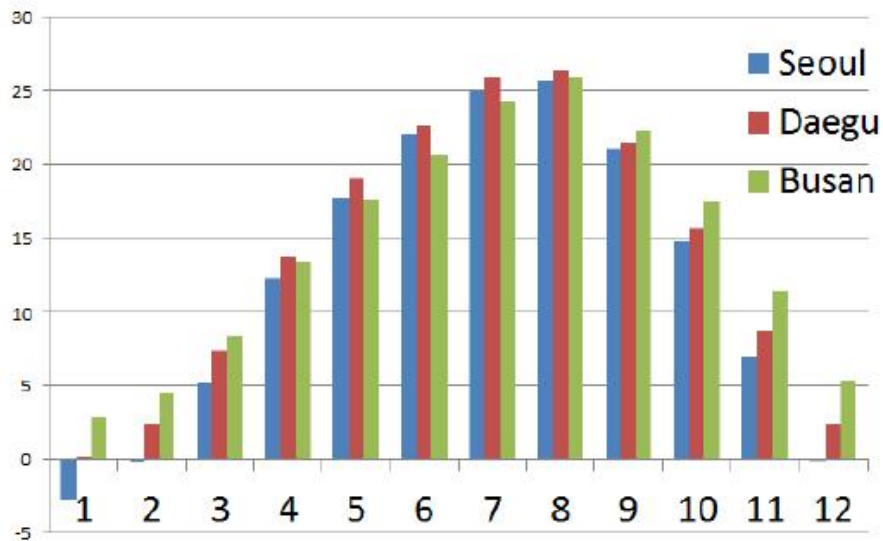


Multi Model Downscaled forecast using CLIK

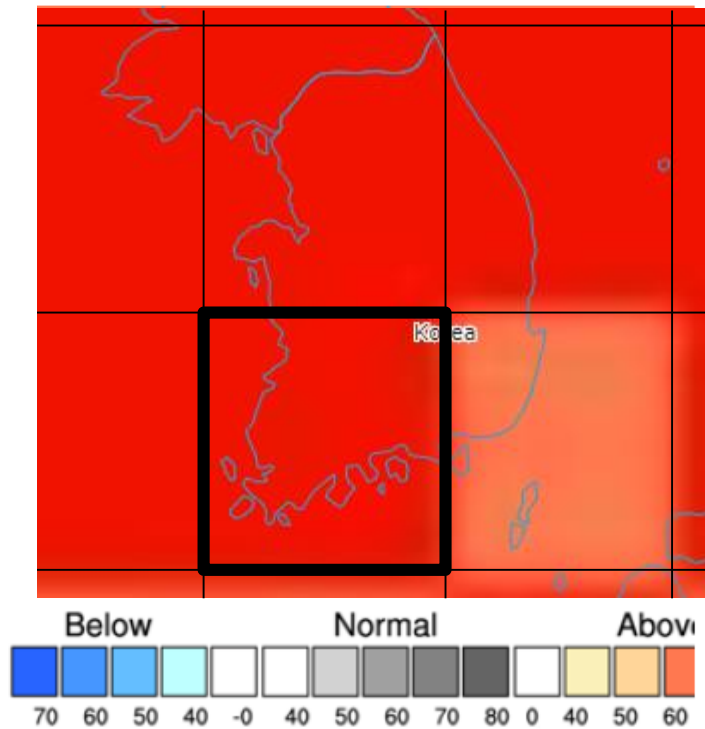
Why downscaled forecast?

1960-2017, temperature



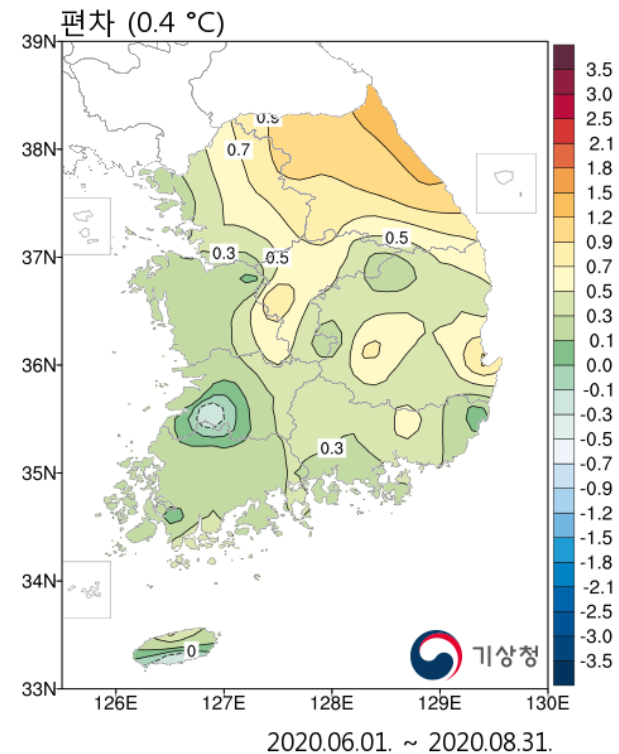
Why downscaled forecast?

2020JJA T2M
PMME FORECAST



1s: GAUS

2020JJA T2M
관측





Precipitation over Daegu for OND 2020?

Downscaling procedure in CLIK:

Precipitation over Daegu for OND 2020

지점자료

- Point (uploaded)

1973								2019
------	--	--	--	--	--	--	--	------

전지구 재분석 자료

- Grid (built-in)
- Reanalysis, CAMS OPI, and OISST

1979							2019
------	--	--	--	--	--	--	------

모델 예측 자료

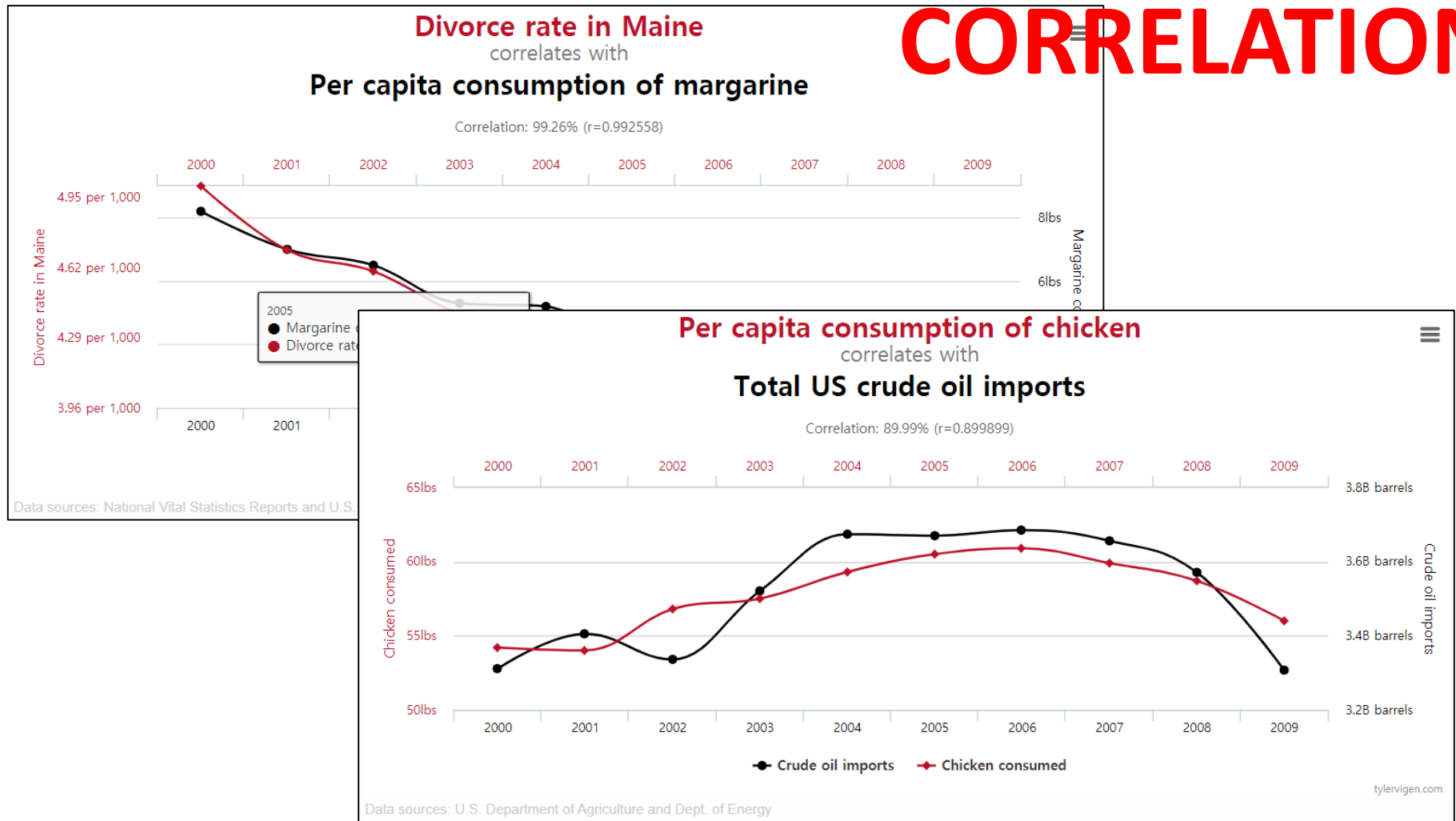
- Grid (built-in)
- Hindcast of dynamical models

**CORRELATION
&
REGRESSION**

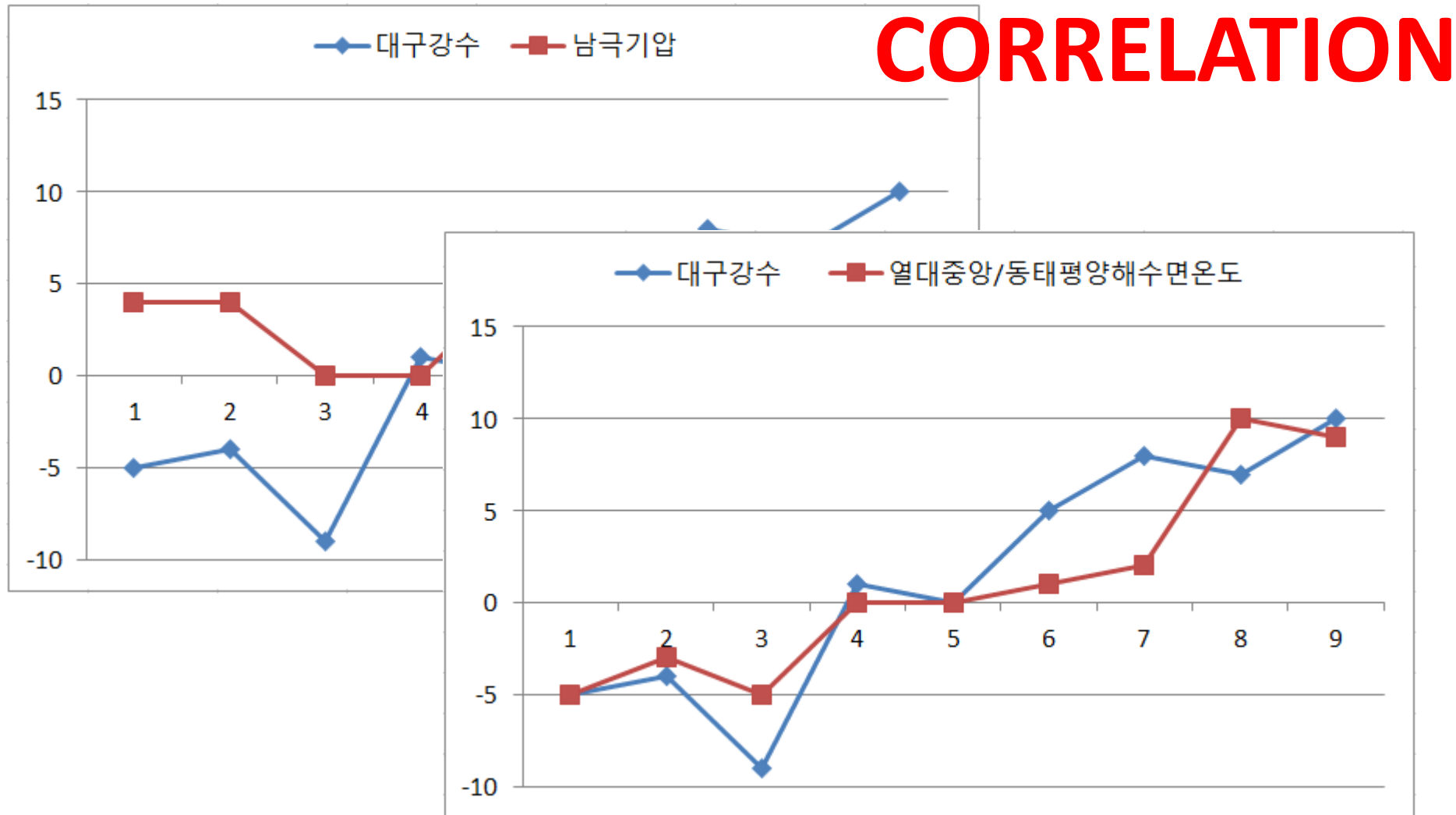
	1983				2014
	1983			2011	
1982				2006	

Correlation does not imply causation!

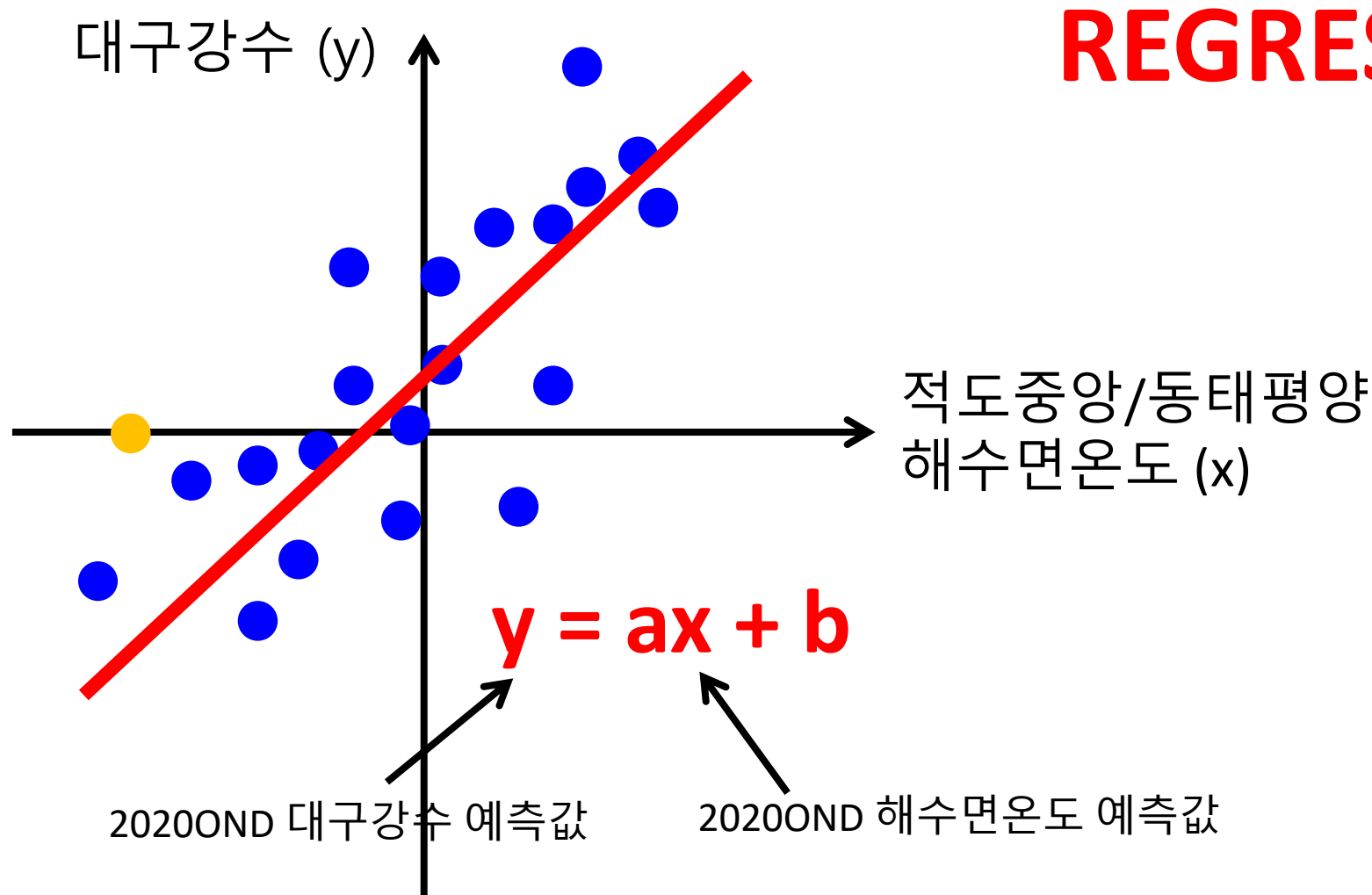
CORRELATION



Correlation does not imply causation!

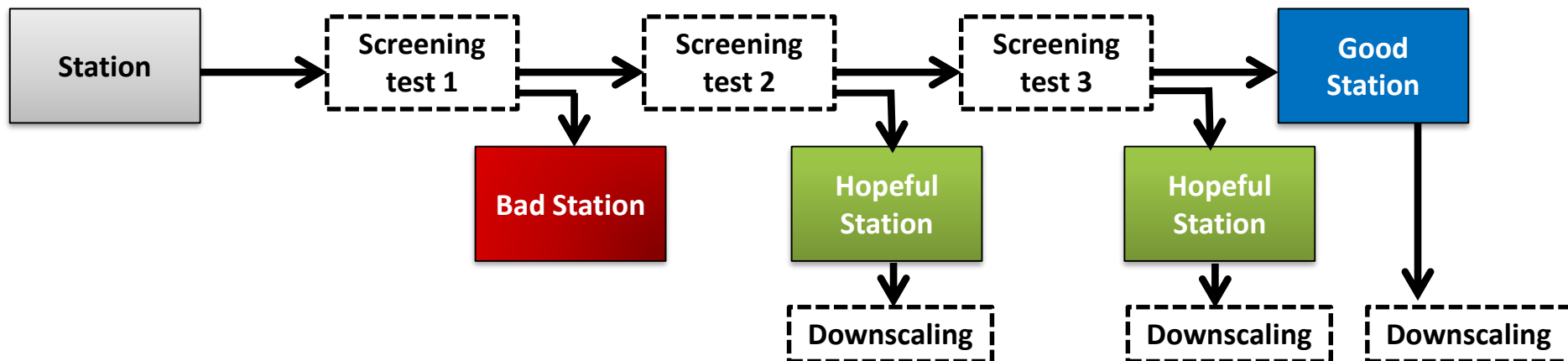


Correlation does not imply causation!



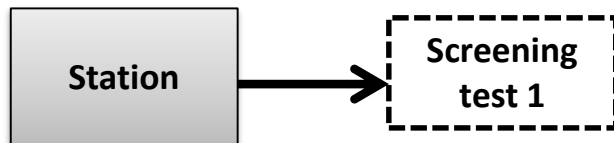
Downscaling procedure in CLIK:

Precipitation over Daegu for OND 2020



Downscaling procedure in CLIK:

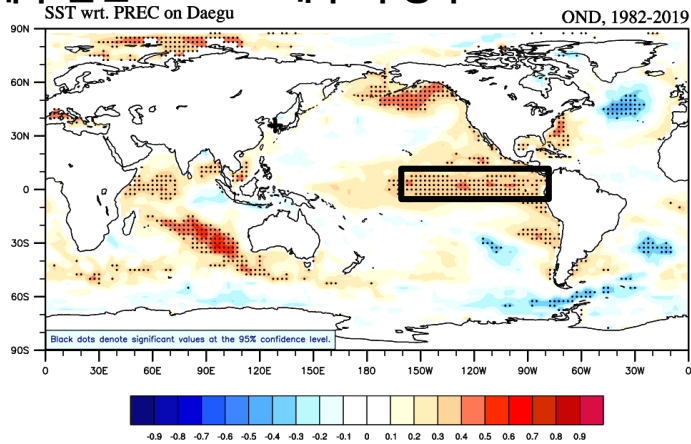
Precipitation over Daegu for OND 2020



Downscaling procedure in CLIK: Precipitation over Daegu for OND 2020

재분석자료와 지점자료의 상관관계

해수면온도 대구의 강수



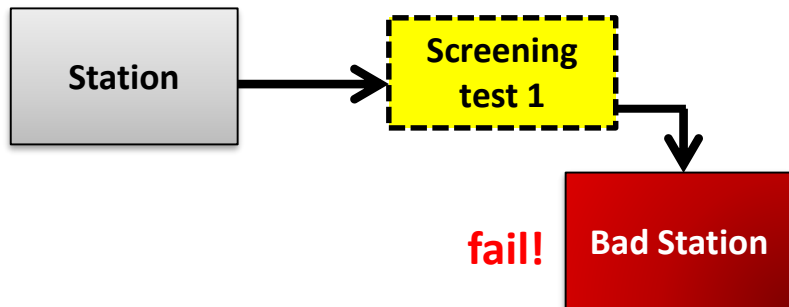
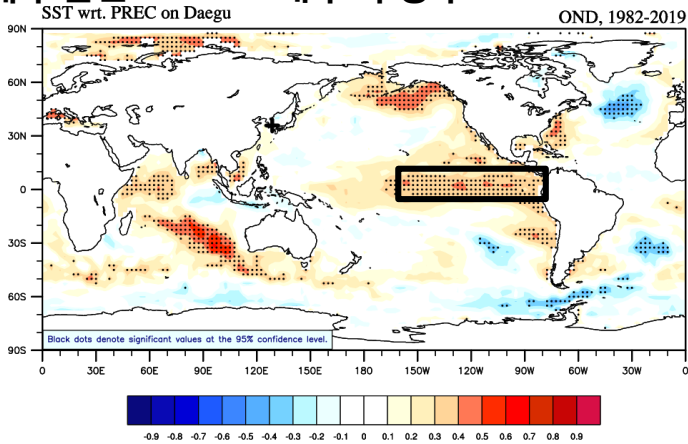
Station

Screening
test 1

Downscaling procedure in CLIK: Precipitation over Daegu for OND 2020

재분석자료와 지점자료의 상관관계

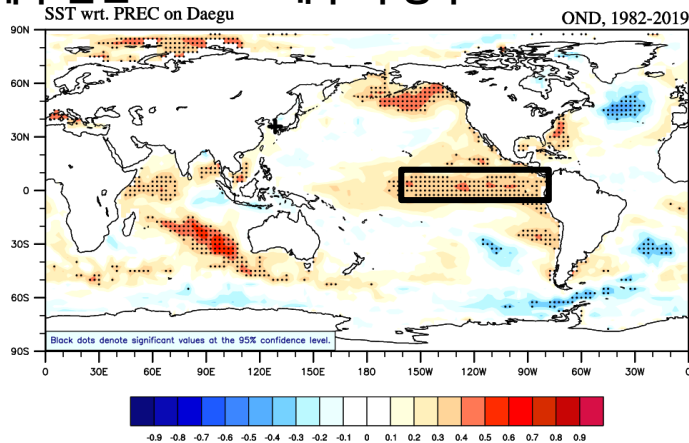
해수면온도 대구의 강수



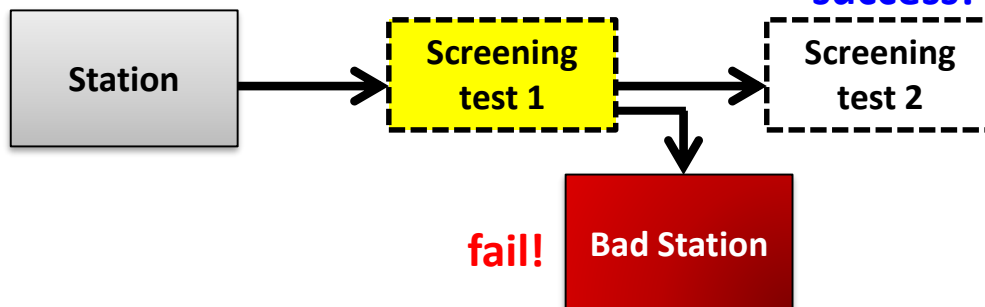
Downscaling procedure in CLIK: Precipitation over Daegu for OND 2020

재분석자료와 지점자료의 상관관계

해수면온도 대구의 강수



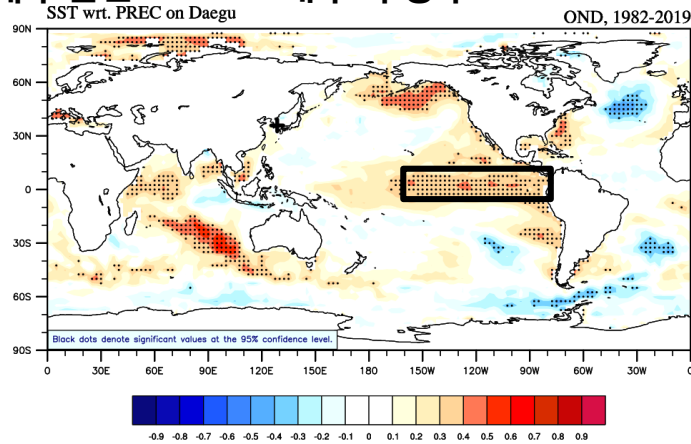
success!



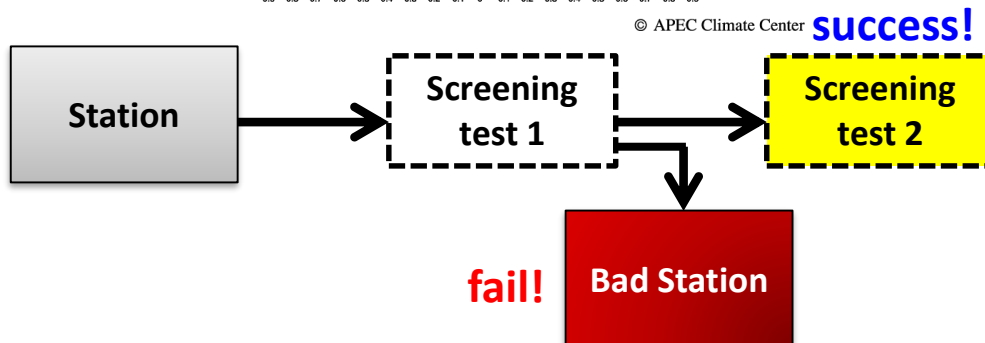
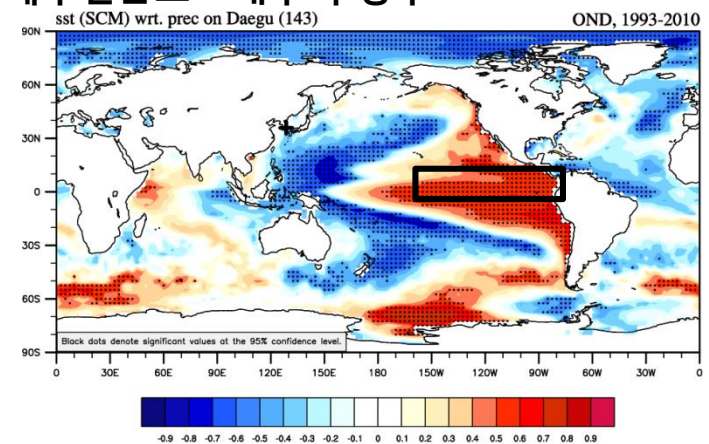
Downscaling procedure in CLIK:

Precipitation over Daegu for OND 2020

재분석자료와 지점자료의 상관관계 해수면온도 대구의 강수



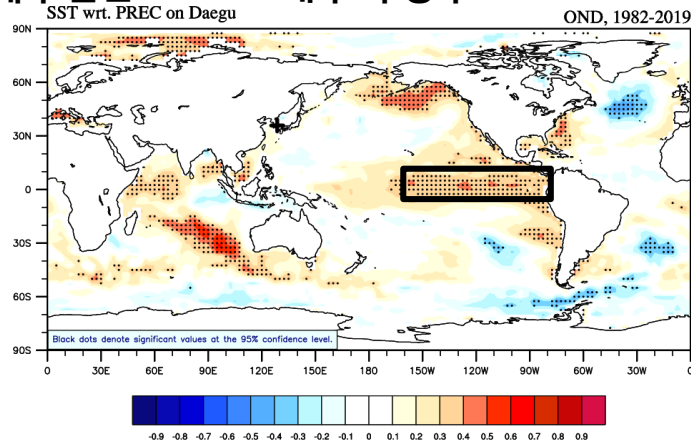
모델자료와 지점자료의 상관관계 계산 해수면온도 대구의 강수



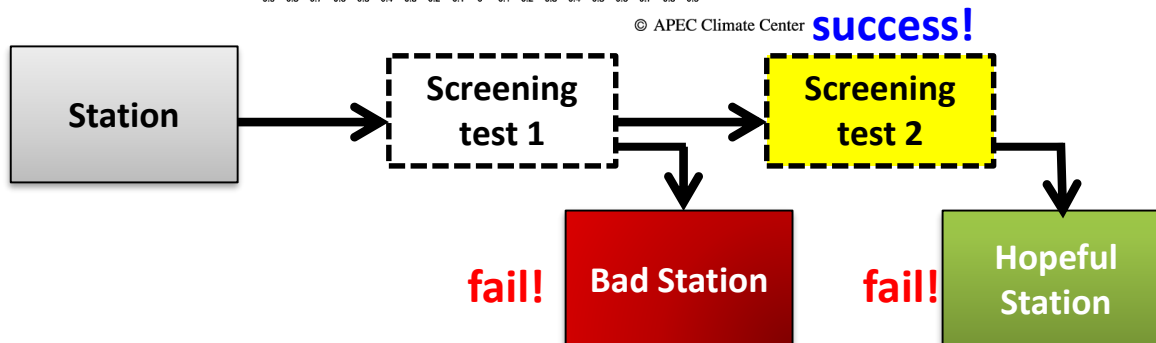
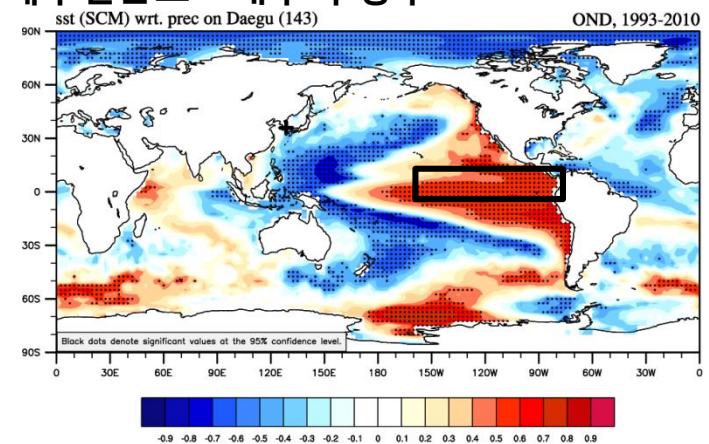
Downscaling procedure in CLIK:

Precipitation over Daegu for OND 2020

재분석자료와 지점자료의 상관관계 해수면온도 대구의 강수



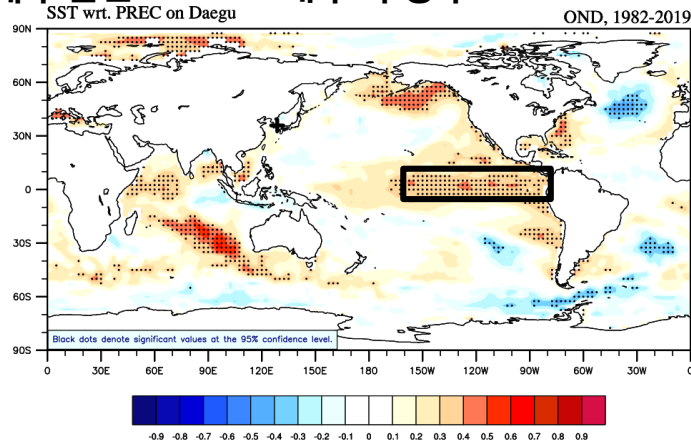
모델자료와 지점자료의 상관관계 계산 해수면온도 대구의 강수



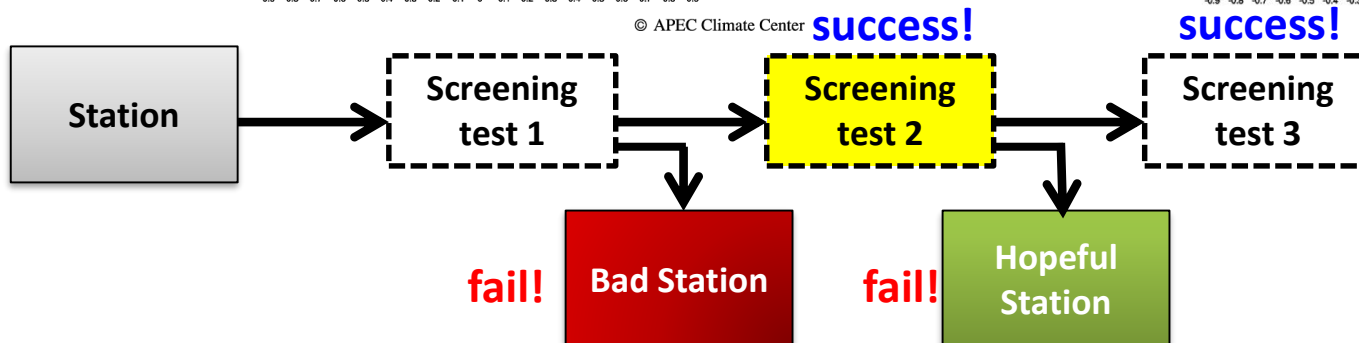
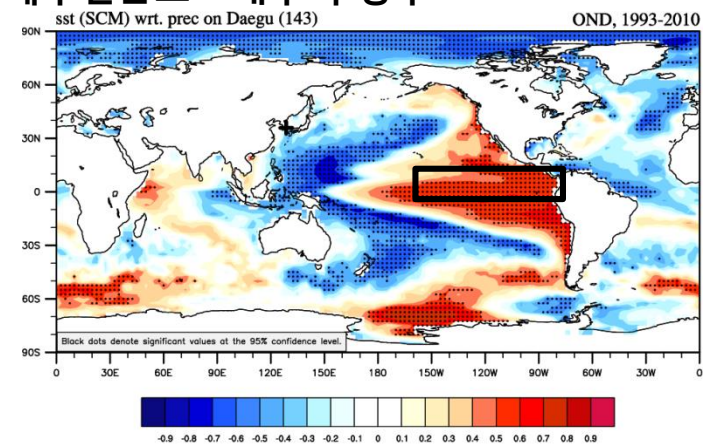
Downscaling procedure in CLIK:

Precipitation over Daegu for OND 2020

재분석자료와 지점자료의 상관관계 해수면온도 대구의 강수



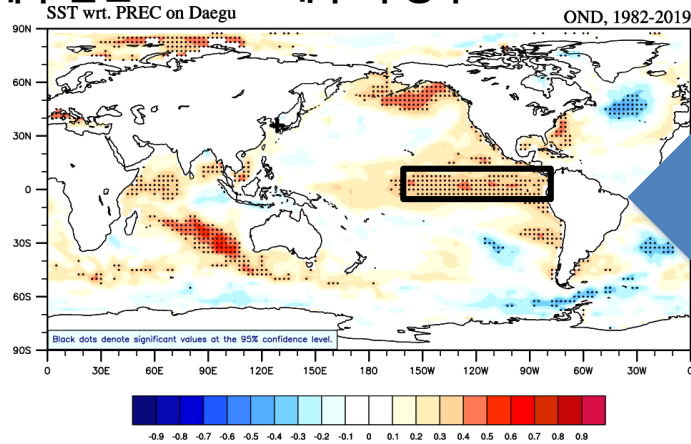
모델자료와 지점자료의 상관관계 계산 해수면온도 대구의 강수



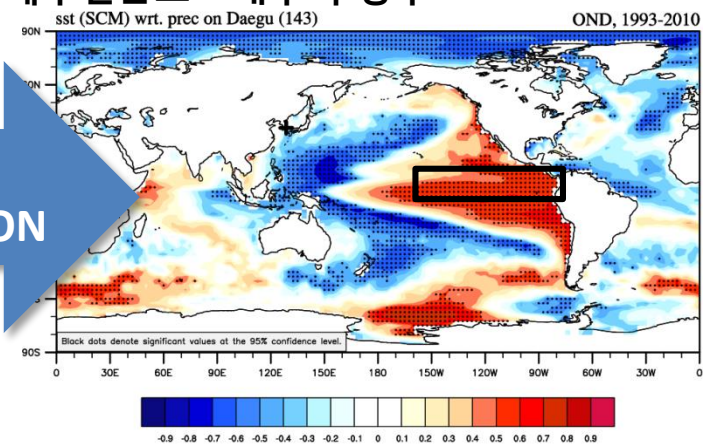
Downscaling procedure in CLIK:

Precipitation over Daegu for OND 2020

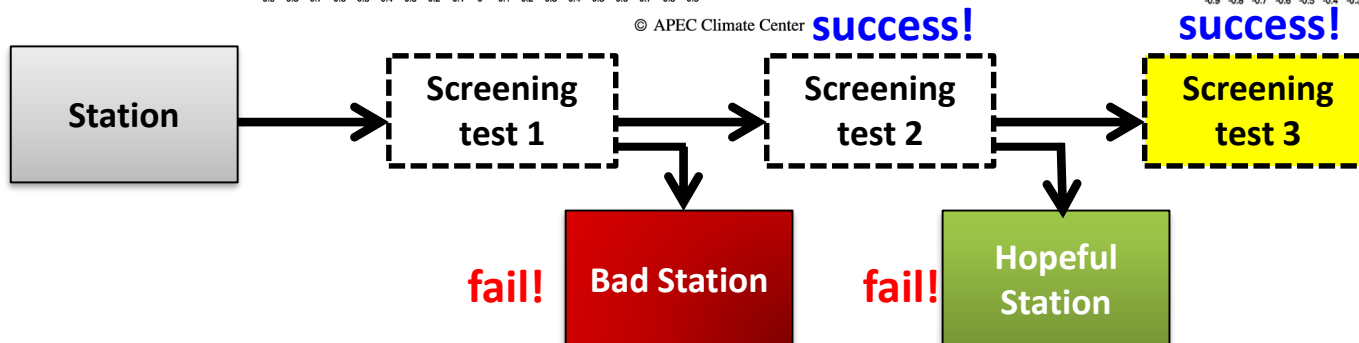
재분석자료와 지점자료의 상관관계
해수면온도 대구의 강수



모델자료와 지점자료의 상관관계 계산
해수면온도 대구의 강수



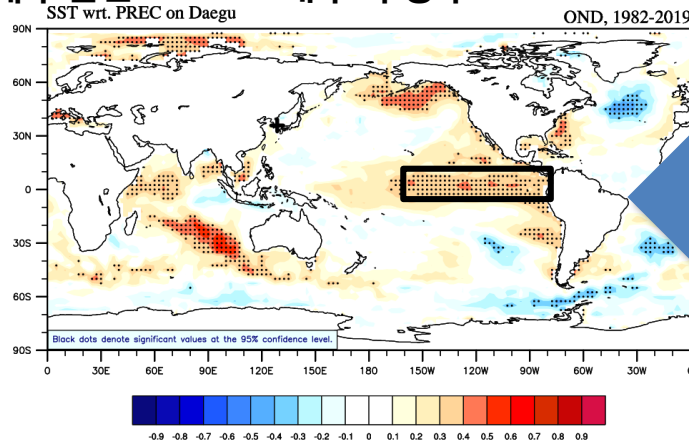
PATTERN
CORRELATION



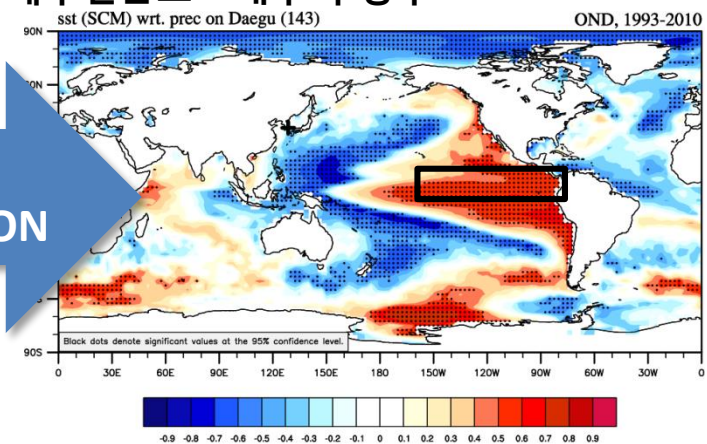
Downscaling procedure in CLIK:

Precipitation over Daegu for OND 2020

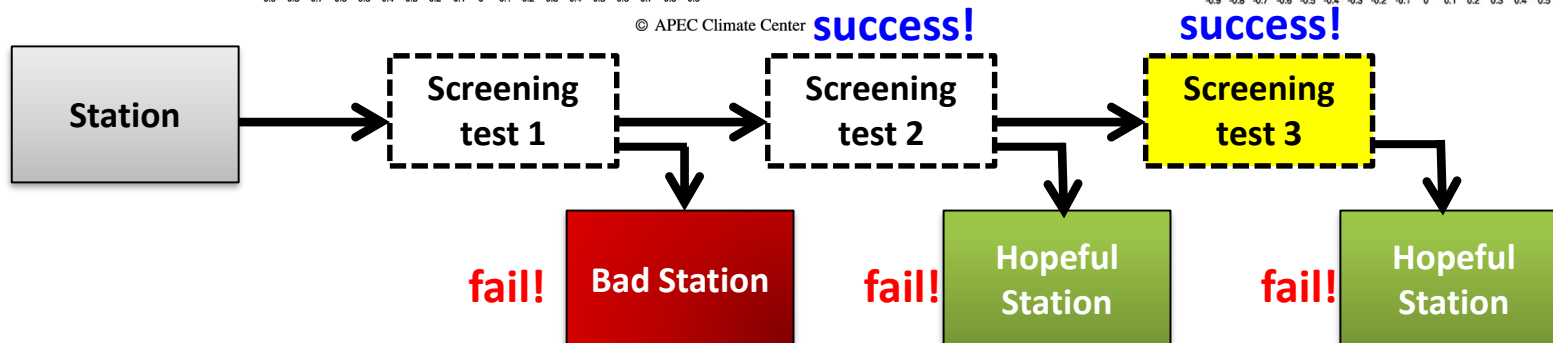
재분석자료와 지점자료의 상관관계
해수면온도 대구의 강수



모델자료와 지점자료의 상관관계 계산
해수면온도 대구의 강수



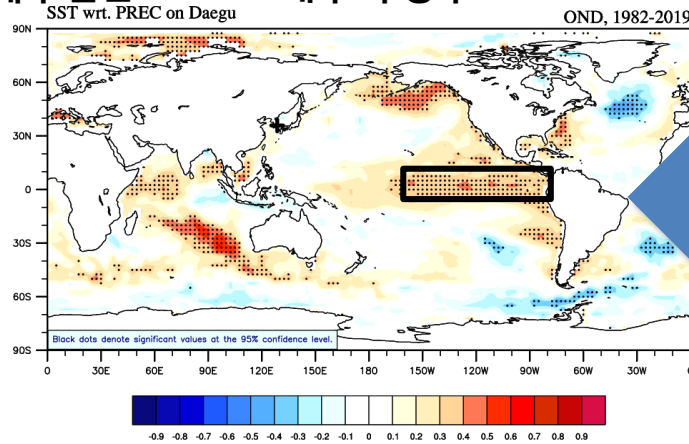
PATTERN
CORRELATION



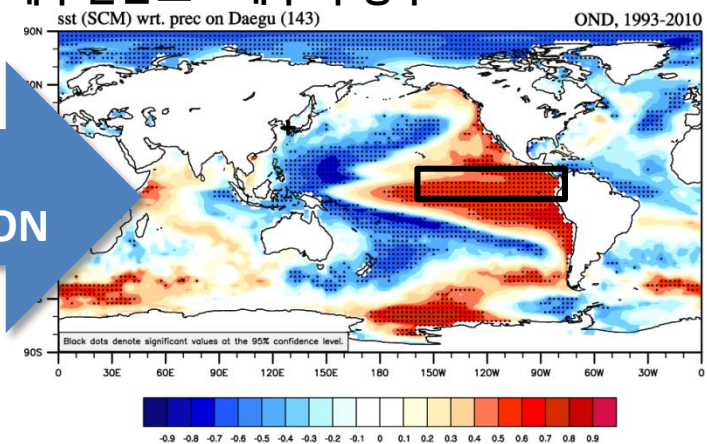
Downscaling procedure in CLIK:

Precipitation over Daegu for OND 2020

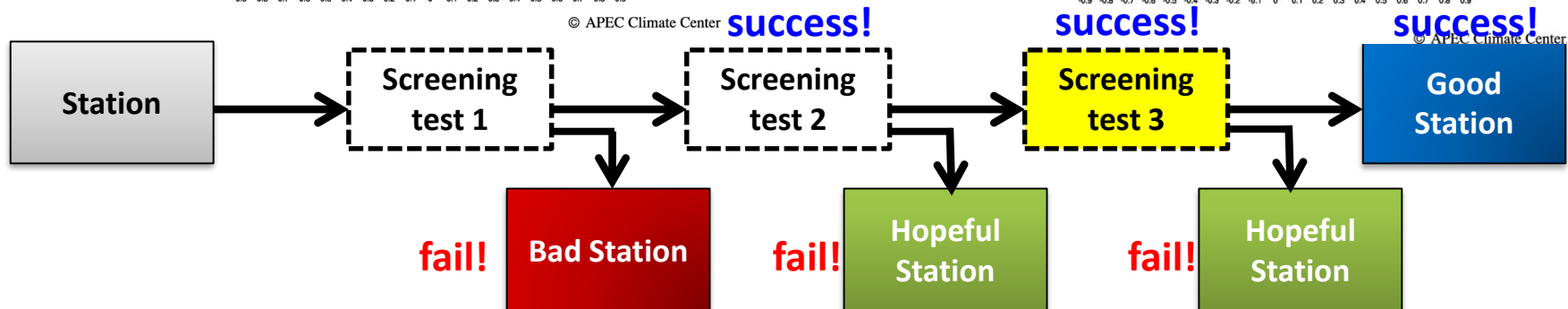
재분석자료와 지점자료의 상관관계
해수면온도 대구의 강수



모델자료와 지점자료의 상관관계 계산
해수면온도 대구의 강수



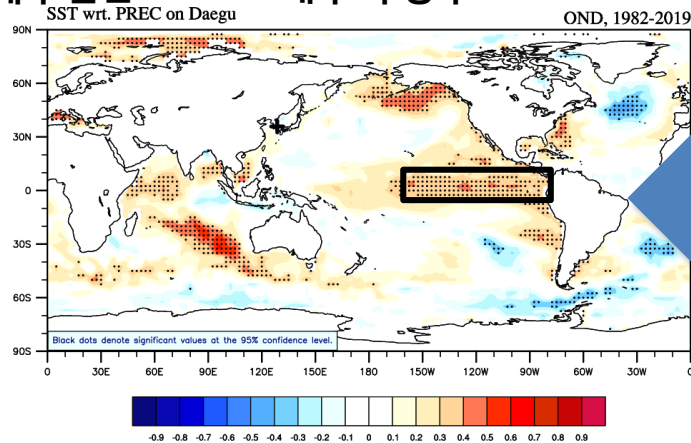
PATTERN
CORRELATION



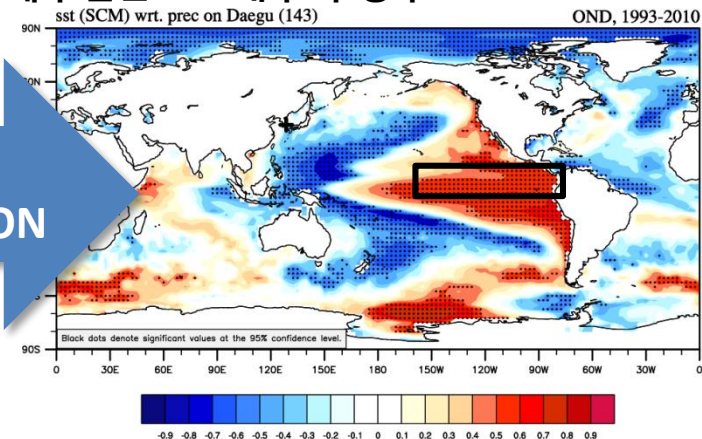
Downscaling procedure in CLIK:

Precipitation over Daegu for OND 2020

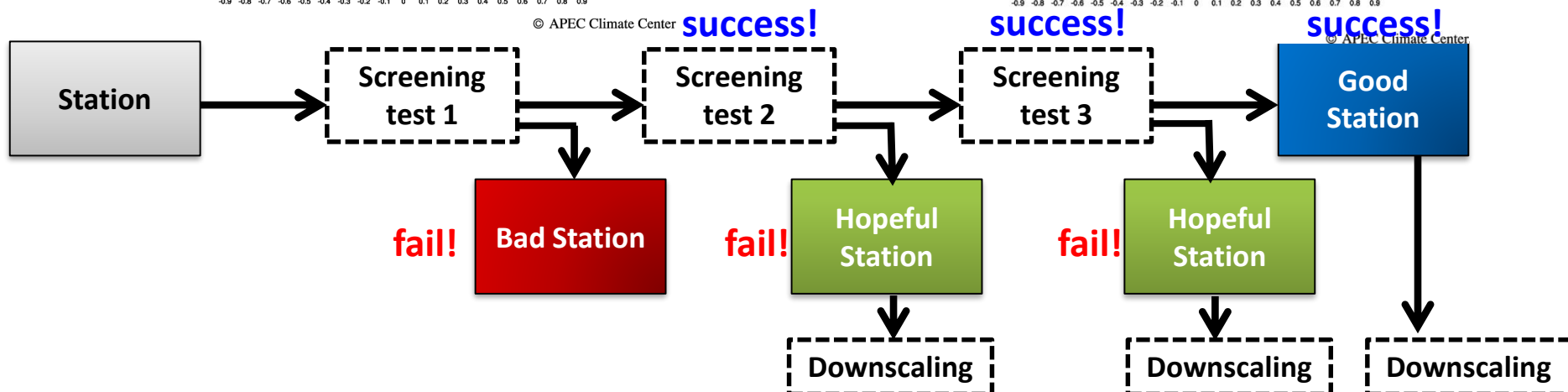
재분석자료와 지점자료의 상관관계
해수면온도 대구의 강수



모델자료와 지점자료의 상관관계 계산
해수면온도 대구의 강수

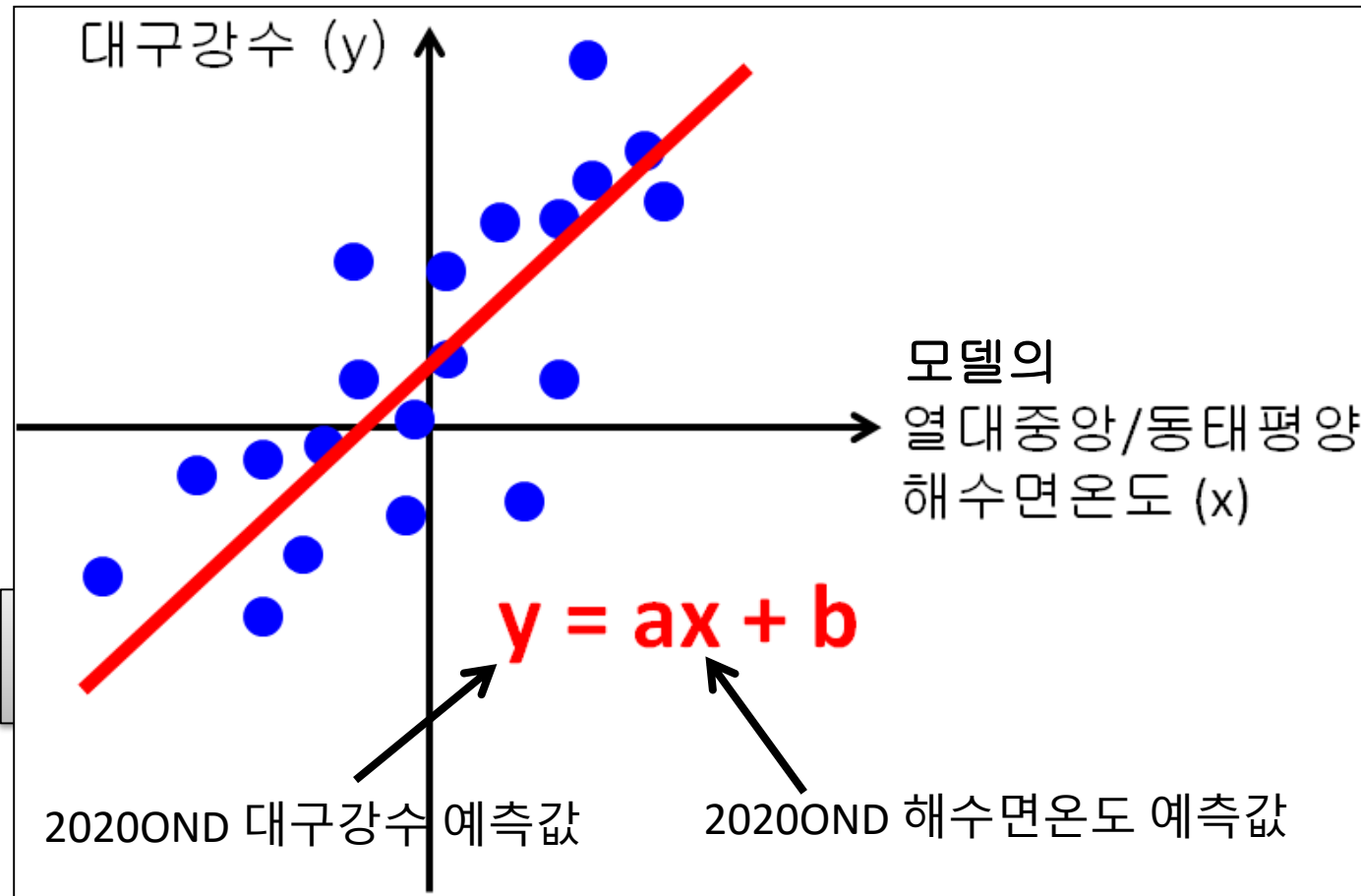


PATTERN
CORRELATION



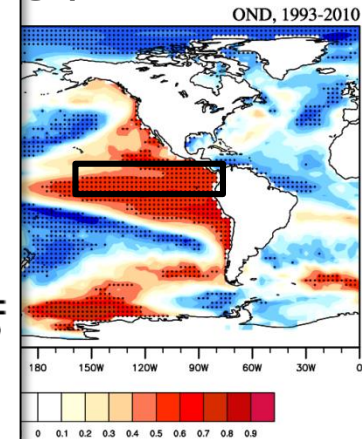
Downscaling procedure in CLIK:

Precipitation over Daegu for OND 2020



자료의 상관관계 계산

강수



success!

© APCC Climate Center

Good Station

Hopeful Station

Downscaling

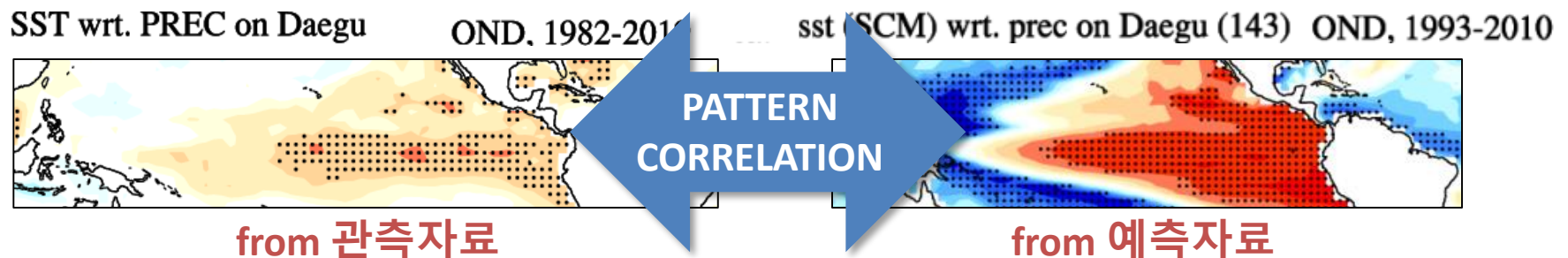
Downscaling

Downscaling

Downscaling procedure in CLIK:

Precipitation over Daegu for OND 2020

Relationship between 대구강수 & 열대중양/동태평양해수면온도



- 과거 대구강수가 과거 열대중양/동태평양해수면온도와 상관관계가 있고,
- 과거 대구강수가 모델이 예측했던 과거 열대중양/동태평양해수면온도와 상관관계가 있으며,
- 그 상관관계의 모습이 유사하다면,


Successful downscaling...?



Precipitation over Daegu for OND 2020?

Produce a downscaled forecast :

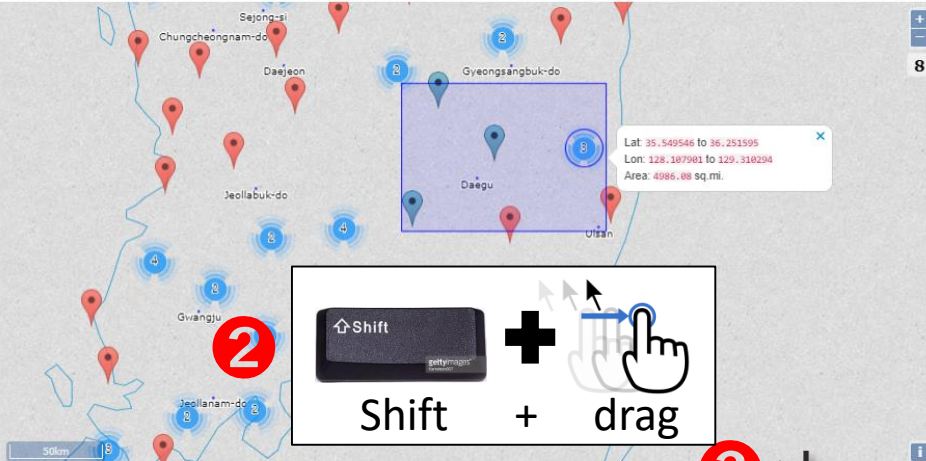
Precipitation over Daegu for OND 2020


MME
Downscale
My Page
Logout
Edit
HelpDesk

Select Dataset / Station

Dataset Name	Countries	Total Stations	Period(prec)	Period(temp)	Public
GHCN	GHCN	3707	1950 ~ 2009	N/A	PUBLIC
Korea 101 Stations	Korea, Republic of	101	1973 ~ 2019	1973 ~ 2019	PUBLIC
MCDW(Monthly Climatic Data for th...	The World	6463	1998 ~ 2014	1998 ~ 2014	PUBLIC

Create
Edit
Remove



Shift

+

drag

Lat: 35.549546 to 36.251595

Lon: 128.187981 to 129.318294

Area: 4986.88 sq.mi.

Stations (6)

Station ID	Name	Precipitation	Temperature
138	Pohang	1973/1 ~ 2019/12	1973/1 ~ 2019/12
143	Daegu	1973/1 ~ 2019/12	1973/1 ~ 2019/12
279	Gumi	1973/1 ~ 2019/12	1973/1 ~ 2019/12
281	Yeongcheon	1973/1 ~ 2019/12	1973/1 ~ 2019/12
283	Gyeongju	2010/1 ~ 2019/12	2010/1 ~ 2019/12


Remove

Next

24

Produce a downscaled forecast :

Precipitation over Daegu for OND 2020



MME **Downscale** My Page Logout Edit HelpDesk

Job description

2020OND / 대구 / 강수 / SST

Predictand

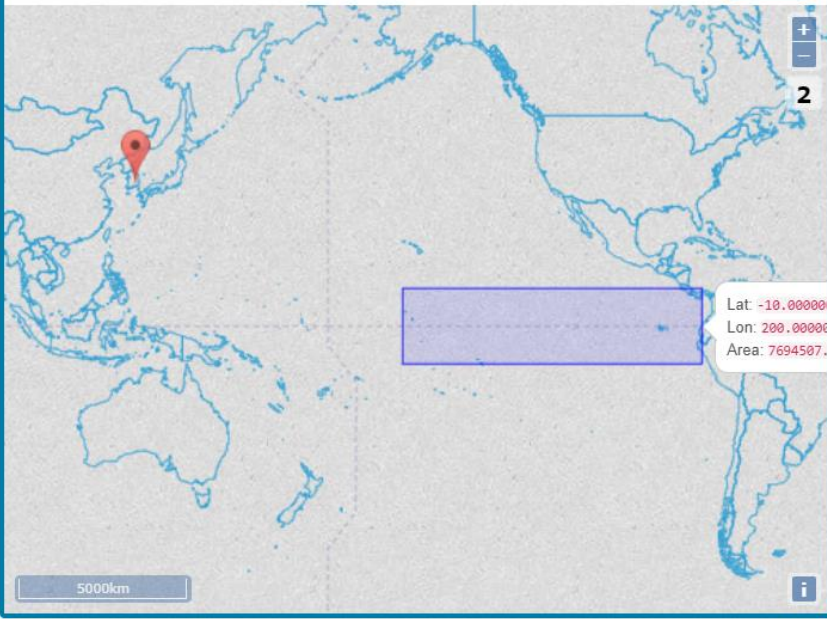
SeasonYear2020SeasonONDVariablePrecipitationTemperature

Predictor

VariablePREC T850 Z500SLP U850 V850U200 V200 SSTModelsAPCC BOM CMCCCWBCWB KMA MSCNASANASA NCEP PNUNUKMOUKMOTraining PeriodForm1993To201018 YearsMethodLinear RegressionAdvanced OptionsSignificance Level5%Minimum Pattern Score0.3

Domain

Latitude:-10~10Longitude:200~280Apply



Run with new selections

Job description
2020OND / 대구
/ 강수 / SST
(up to you)

Produce a downscaled forecast :

Precipitation over Daegu for OND 2020

MME
Downscale
My Page
Logout
Edit
HelpDesk

Job description

2020OND / 대구 / 강수 / SST

Predictand

Season
Year 2020 Season OND
Variable
☒ Precipitation
☐ Temperature

Predictor

Variable

☐ PREC
☐ T850
☐ Z500
☐ SLP
☐ U850
☐ V850
☐ U200
☐ V200
☒ SST

Models

☒ APCC
☒ BOM
☒ CMCC
☐ CWB
☒ KMA
☒ MSC
☒ NASA
☒ NCEP
☒ PNU
☒ UKMO

Training Period

Form 1993 To 2010 18 Years

Method

☒ Linear Regression

Advanced Options

Significance Level 5 %
Minimum Pattern Score 0.3

Domain

Latitude: -10 ~ 10 Longitude: 200 ~ 280
Apply


Run with new selections

Predictand: season

2020 OND

Produce a downscaled forecast :

Precipitation over Daegu for OND 2020



MMEDownscaleMy PageLogoutEditHelpDesk

Job description

2020OND / 대구 / 강수 / SST

Predictand

SeasonYear2020SeasonONDVariable☒ Precipitation☐ Temperature

Predictor

Variable

☐ PREC☐ T850☐ Z500☐ SLP☐ U850☐ V850☐ U200☐ V200☒ SST

Models

☒ APCC☒ BOM☒ CMCC☐ CWB☒ KMA☒ MSC☒ NASA☒ NCEP☒ PNU☒ UKMO

Training Period

Form1993To201018 Years

Method

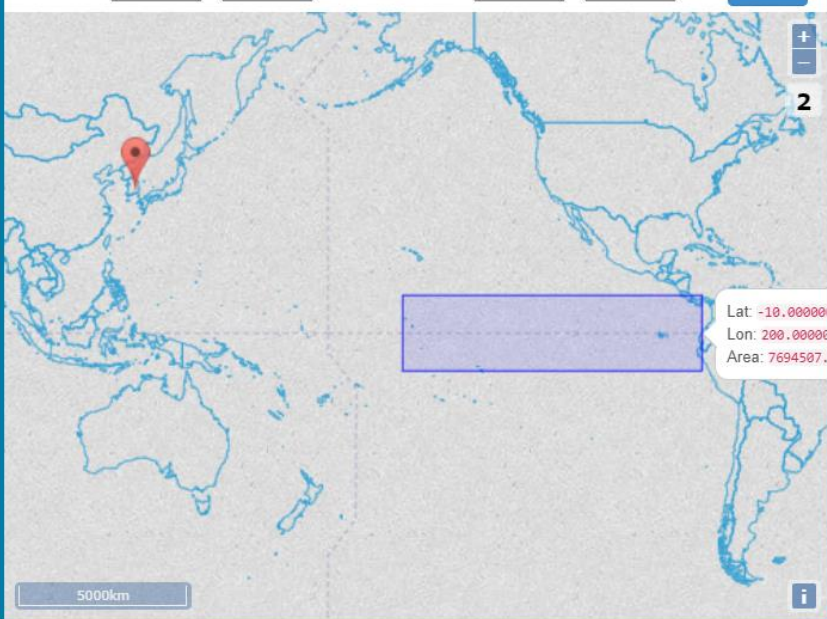
☒ Linear Regression

Advanced Options

Significance Level5%Minimum Pattern Score0.3

Domain

Latitude:-10~10Longitude:200~280Apply



Lat: -10.00000Lon: 200.00000Area: 7694507

5000km

Run with new selections

Predictand: variable

Precipitation

27

Produce a downscaled forecast :

Precipitation over Daegu for OND 2020

clik Climate Information Toolkit

MME **Downscale** Page Logout Edit HelpDesk

Job description

2020OND / 대구 / 강수 / SST

Variable: ☒ Precipitation ☐ Temperature

Season: OND

Predictor

Variable

☐ PREC ☐ T850 ☐ Z500
☐ SLP ☐ U850 ☐ V850
☐ U200 ☐ V200 ☒ SST

Models

☒ APCC ☒ BOM ☒ CMCC
☐ CWB ☒ KMA ☒ MSC
☒ NASA ☒ NCEP ☒ PNU
☒ UKMO

Training Period

Form: 1993 To: 2010 18 Years

Method

☒ Linear Regression

Advanced Options

Significance Level: 5 %
Minimum Pattern Score: 0.3

Domain

Latitude: -10 ~ 10 Longitude: 200 ~ 280 Apply

Map showing the domain over the Pacific Ocean near Daegu, Korea. A red pin marks Daegu. A purple box highlights the domain area. Coordinates: Lat: -10.00000, Lon: 200.00000, Area: 7694507.

5000km

Run with new selections

Predictor: variable
SST

Produce a downscaled forecast :

Precipitation over Daegu for OND 2020

clik Climate Information Toolkit

MME **Downscale** My Page Logout Edit HelpDesk

Job description

2020OND / 대구 / 강수 / SST

Predictand

Season Year 2020 Season OND Variable ☒ Precipitation ☐ Temperature

Predictor

Variable

☐ PREC ☐ T850 ☐ Z500
☐ SLP ☐ U850 ☐ V850
☐ U200 ☐ V200 ☒ SST

Models

☒ APCC ☒ BOM ☒ CMCC
☐ CWB ☒ KMA ☒ MSC
☒ NASA ☒ NCEP ☒ PNU
☒ UKMO

Training Period

Form 1993 To 2010 18 Years

Method

☒ Linear Regression

Advanced Options

Significance Level 5 %
Minimum Pattern Score 0.3

Domain

Latitude: -10 ~ 10 Longitude: 200 ~ 280 Apply

2

Lat: -10.00000
Lon: 200.00000
Area: 7694507.7

5000km

Run with new selections

Predictor: Domain
열대중앙/동태평양
위도 -10~10
경도 200~280

Produce a downscaled forecast : Precipitation over Daegu for OND 2020

clik Climate Information Toolkit

MME **Downscale** My Page Logout Edit HelpDesk

Job description
2020OND / 대구 / 강수 / SST

Predictand
Season Year 2020 Season OND Variable ☒ Precipitation ☐ Temperature

Predictor
Variable
☐ PREC ☐ T850 ☐ Z500
☐ SLP ☐ U850 ☐ V850
☐ U200 ☐ V200 ☒ SST
Models
☒ APCC ☒ BOM ☒ CMCC
☐ CWB ☒ KMA ☒ MSC
☒ NASA ☒ NCEP ☒ PNU
☒ UKMO
Training Period
Form 1993 To 2010 18 Years
Method
☒ Linear Regression
Advanced Options
Significance Level 5 %
Minimum Pattern Score 0.3

Domain
Latitude: -10 ~ 10 Longitude: 200 ~ 280 Apply
HINT for DOMAIN SELECTION!
Map showing the domain selection over the Pacific Ocean. A red pin marks Daegu, Korea. A purple box indicates the domain: Lat: -10.00000, Lon: 200.00000, Area: 7694507. A scale bar shows 5000km.

Run with new selections

Predictor: Domain
열대중앙/동태평양
위도 -10~10
경도 200~280

Produce a downscaled forecast :

Precipitation over Daegu for OND 2020



MME

Downscale

My Page

Logout Edit HelpDesk

Job description

Predictand

Correlation - Chrome

주요 요약 | clik.apcc21.org/view/popup/correlation.html?grdvar=sst&stnvar=prec&season=OND&station=Daegu&stnid=143&s...

Large scale pattern associated with station 143 on Daegu

Season OND

Station variable PREC

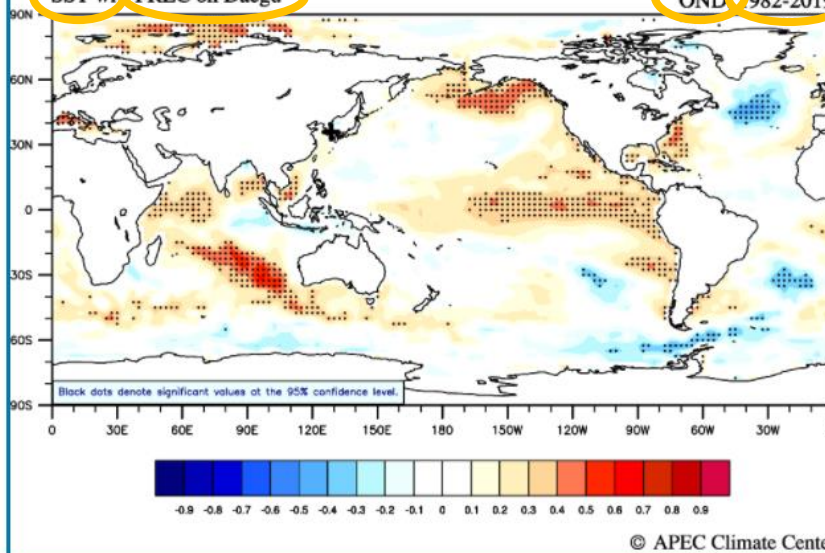
Reanalysis variable SST

Period From 1982 to 2019

Method One point correlation

SST wr PREC on Daegu

OND 1982-2019




Predictor: Domain
열대중앙/동태평양
 위도 -10~10
 경도 200~280

Run with new selections

Produce a downscaled forecast :

Precipitation over Daegu for OND 2020



MME
Downscale
My Page
Logout
Edit
HelpDesk

Job description

2020OND / 대구 / 강수 / SST

Predictand

Season
Year: 2020
Season: OND
Variable:
☒ Precipitation
☐ Temperature

Predictor

Variable

☐ PREC
☐ T850
☐ Z500
☐ SLP
☐ U850
☐ V850
☐ U200
☐ V200
☒ SST

Models

☒ APCC
☒ BOM
☒ CMCC
☐ CWB
☒ KMA
☒ MSC
☒ NASA
☒ NCEP
☒ PNU
☒ UKMO

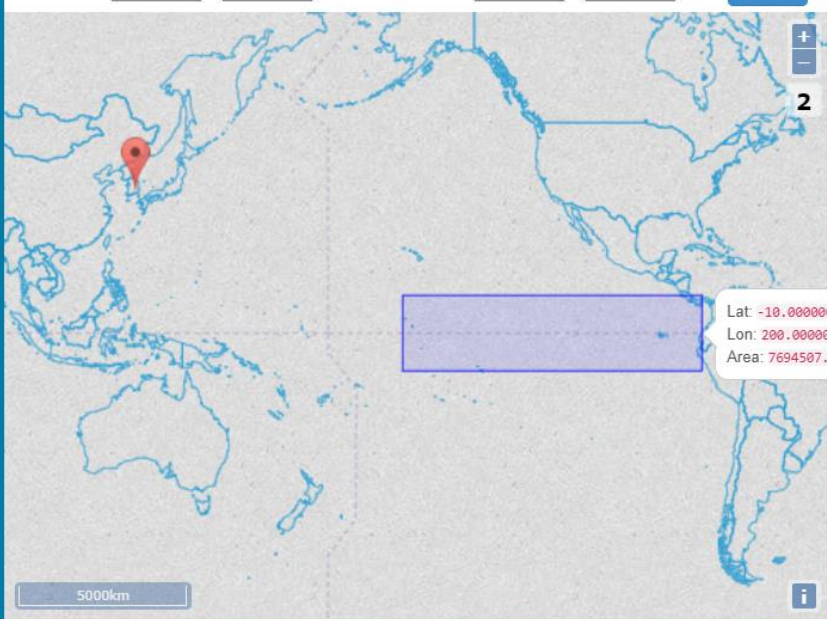
Training Period
Form: 1993
To: 2010
18 Years

Method
☒ Linear Regression

Advanced Options
Significance Level: 5 %
Minimum Pattern Score: 0.3

Domain

Latitude: -10 ~ 10
Longitude: 200 ~ 280
Apply



Run with new selections


Predictor: Models

APCC BOM CMCC
KMA MSC NASA
NCEP PNU UKMO

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Produce a downscaled forecast :

Precipitation over Daegu for OND 2020



MMEDownscaleMy PageLogoutEditHelpDesk

Job description

2020OND / 대구 / 강수 / SST

Predictand

SeasonYear2020SeasonONDVariablePrecipitationTemperature

Predictor

Variable

☐ PREC☐ T850☐ Z500☐ SLP☐ U850☐ V850☐ U200☐ V200☒ SST

Models

☒ APCC☒ BOM☒ CMCC☐ CWB☒ KMA☒ MSC☒ NASA☒ NCEP☒ PNU☒ UKMO

Training Period

Form1993To201018 Years

Method

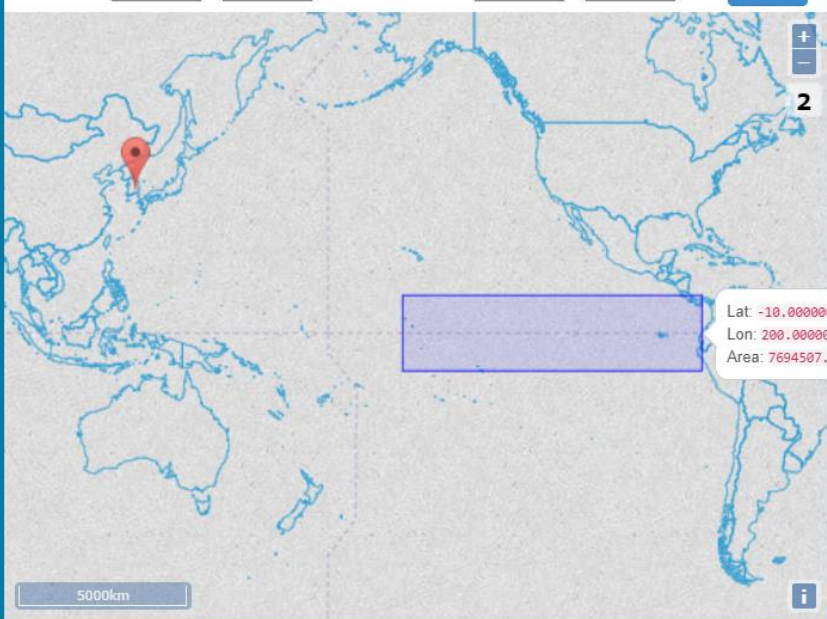
☒ Linear Regression

Advanced Options

Significance Level5%Minimum Pattern Score0.3

Domain

Latitude:-10~10Longitude:200~280Apply



Lat: -10.00000Lon: 200.00000Area: 7694507


5000km

Run with new selections

Predictor: Training Period
Common period
among
station, reanalysis,
and selected model data

Produce a downscaled forecast :

Precipitation over Daegu for OND 2020



MMEDownscaleMy PageLogoutEditHelpDesk

Job description

2020OND / 대구 / 강수 / SST

Predictand

SeasonYear2020SeasonONDVariablePrecipitationTemperature

Predictor

Variable

☐ PREC☐ T850☐ Z500☐ SLP☐ U850☐ V850☐ U200☐ V200☒ SST

Models

☒ APCC☒ BOM☒ CMCC☐ CWB☒ KMA☒ MSC☒ NASA☒ NCEP☒ PNU☒ UKMO

Training Period

Form1993To201018 Years

Method

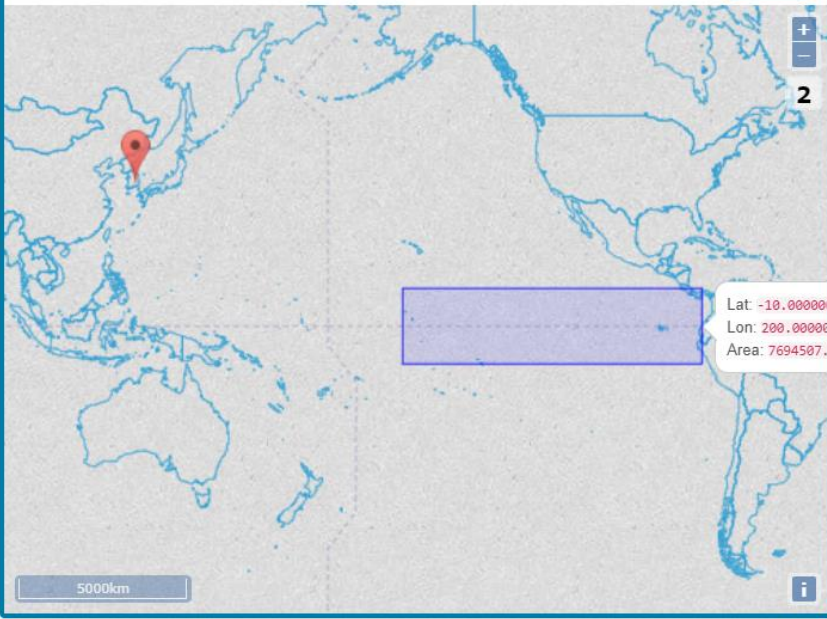
☒ Linear Regression

Advanced Options

Significance Level5%Minimum Pattern Score0.3

Domain

Latitude:-10~10Longitude:200~280Apply



Lat: -10.00000Lon: 200.00000Area: 7694507

Run with new selections

Predictor: Method
Linear Regression

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Produce a downscaled forecast :

Precipitation over Daegu for OND 2020

clik Climate Information Toolkit

MME **Downscale** My Page Logout Edit HelpDesk

Job description

2020OND / 대구 / 강수 / SST

Predictand

Season Year 2020 Season OND Variable ☒ Precipitation ☐ Temperature

Predictor

Variable

☐ PREC ☐ T850 ☐ Z500
☐ SLP ☐ U850 ☐ V850
☐ U200 ☐ V200 ☒ SST

Models

☒ APCC ☒ BOM ☒ CMCC
☐ CWB ☒ KMA ☒ MSC
☒ NASA ☒ NCEP ☒ PNU
☒ UKMO

Training Period

Form 1993 To 2010 18 Years

Method

☒ Linear Regression

Advanced Options

Significance Level 5 %
Minimum Pattern Score 0.3

Domain

Latitude: -10 ~ 10 Longitude: 200 ~ 280 Apply

SST wrt. PREC on Daegu
OND, 1982-2019

SST (SCM) wrt. prec on Daegu (143)
OND, 1993-2010

Run with new selections

Predictor: Advanced Options
Significance Level: 5%
Minimum Pattern Score: 0.3

Produce a downscaled forecast :

Precipitation over Daegu for OND 2020



MME

Downscale

My Page

Logout Edit HelpDesk

Job description

2020OND / 대구 / 강수 / SST

Predictand

Season

Year 2020

Season OND

Variable

☒ Precipitation

☐ Temperature

Predictor

Variable

- ☐ PREC ☐ T850 ☐ Z500
☐ SLP ☐ U850 ☐ V850
☐ U200 ☐ V200 ☒ SST

Models

- ☒ APCC ☒ BOM ☒ CMCC
☐ CWB ☒ KMA ☒ MSC
☒ NASA ☒ NCEP ☒ PNU
☒ UKMO

Training Period

Form 1993 To 2010 18 Years

Method

☒ Linear Regression

Advanced Options

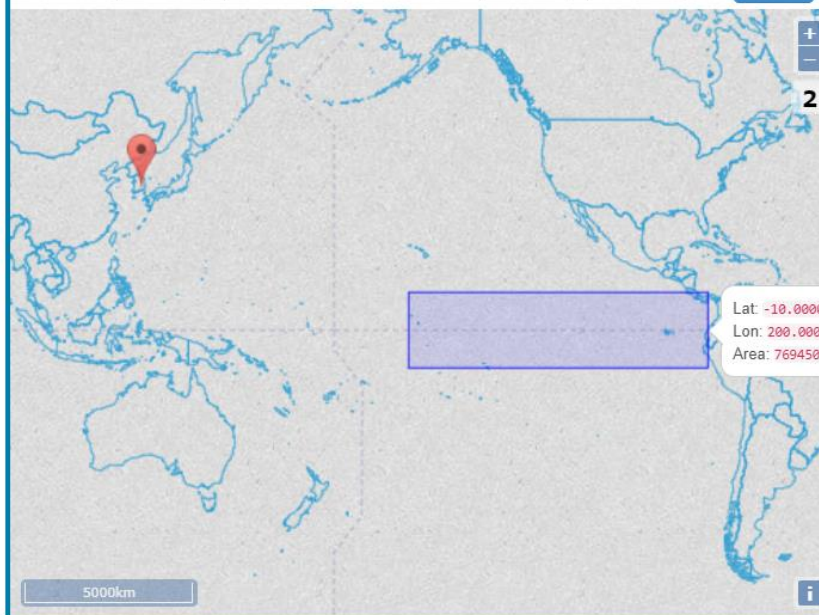
Significance Level 5 %
 Minimum Pattern Score 0.3

Domain

Latitude: -10 ~ 10

Longitude: 200 ~ 280

Apply



Predictor: Domain
 열대중앙/동태평양
 위도 -10~10
 경도 200~280

Run with new selections



Produce a downscaled forecast : Precipitation over Daegu for OND 2020

B. Check results

clik Climate Information Toolkit

MME Downscale **My Page** Logout Edit HelpDesk

My Page

Jobs System Status

Last Updated At : 19:03:21 (auto refresh at about every 60 seconds) Auto Refresh ☒

10 records per page Search:

JOB ID	TYPE	STATE	DESCRIPTION	CREATED	UPDATED	RESULT DATA
10947	Downscale	processing	2020OND / 대구 / 강수 / SST	2020-09-29 19:03:19	2020-09-29 19:04:38	
10946	Downscale	success	2020OND / 대구 / 강수 / SST	2020-09-29 18:45:48	2020-09-29 18:46:01	download
10945	Downscale	success	2020OND / 대구 / 강수 / SST	2020-09-29 18:43:27	2020-09-29 18:43:53	download
10944	Downscale	success	2020OND / 대구 / 강수 / SST	2020-09-29 18:30:08	2020-09-29 18:30:30	download
10943	Downscale	success	2020OND / 대구 / 강수 / SST	2020-09-29 18:27:06	2020-09-29 18:29:12	download
10942	Downscale	success	대구 강수 sst	2020-09-29 18:23:06	2020-09-29 18:25:14	download
10941	Downscale	success	대구 강수 sst	2020-09-29 18:22:49	2020-09-29 18:23:20	download
10940	Downscale	success	대구 강수 sst	2020-09-29 18:20:50	2020-09-29 18:21:23	download
10939	Downscale	success	대구 기온 slp	2020-09-29 18:18:35	2020-09-29 18:18:59	download
10938	Downscale	success	대구 강수 sst	2020-09-29 18:17:30	2020-09-29 18:18:00	download

Showing 1 to 10 of 1,844 entries

Previous 1 2 3 4 5 ... 185 Next

Processing 1 Queued 0 Image Processor 0 CPU Usage 0.3 %

Produce a downscaled forecast :

Precipitation over Daegu for OND 2020

B. Check results

The screenshot shows the 'My Page' section of the CLIK Climate Information Toolkit. The interface includes a navigation bar with 'MME', 'Downscale', and 'My Page' tabs, along with 'Logout', 'Edit', and 'HelpDesk' links. The 'Jobs' tab is active, displaying a list of jobs on the left and a 'Details' panel for the selected job (10947) on the right. The 'Details' panel shows various parameters such as JOB ID, DOWNSCALE ID, PREDICTAND, YEAR/SEASON, DATA SET, STATION, SIGNIFICANCE LEVEL, MINIMUM PATTERN SCORE, and DESCRIPTION. A 'View result' button is visible at the bottom right of the details panel, with a hand cursor pointing to it.

Jobs List:

JOB ID	DOWNSCALE ID	PREDICTAND	YEAR/SEASON	DATA SET	STATION	SIGNIFICANCE LEVEL	MINIMUM PATTERN SCORE	DESCRIPTION
10947	9907	PREC	2020 / 10	Korea 101 Stations [ID:9047]	1 Stations	5%	0.3	2020OND / 대구 / 강수 / SST
10946								
10945								
10944								
10943								
10942								
10941								
10940								
10939								
10938								

Details for Job 10947:

Field	Value
JOB ID	10946
CREATE	2020-09-29 18:45:48
DOWNSCALE ID	9907
UPDATE	2020-09-29 18:46:01
PREDICTAND	
PREDICTOR	
YEAR/SEASON	2020 / 10
TRAINING PERIOD	1993 / 2010
PREDICTAND	PREC
VARIABLE	SST
DATA SET	Korea 101 Stations [ID:9047]
MODELS	APCC,BOM,CMCC,KMA,MSC,NASA,NCEP,PNU,UKMO
STATION	1 Stations
REGION	Lat -10~10/ Lon 200~280
SIGNIFICANCE LEVEL	5%
MINIMUM PATTERN SCORE	0.3
DESCRIPTION	2020OND / 대구 / 강수 / SST
FEEDBACK	

Showing 1 to 10 of 1,8

Processing 1 Queued 0 Image Processor 0 CPU Usage 0.3 %

Produce a downscaled forecast : Precipitation over Daegu for OND 2020

C. Check results.

MME
Downscale
My Page
Logout
Edit
Help

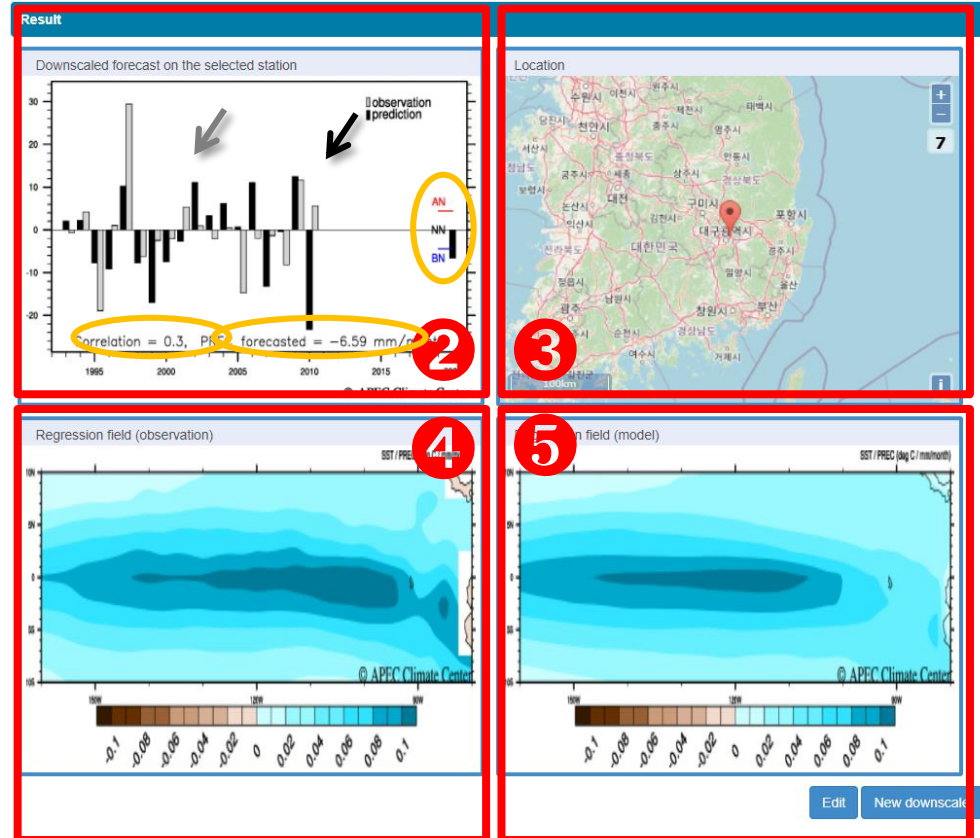
Details

JOB ID	10946	JOB DESCRIPTION	2020OND / 대구 / 강수 / SST
PREDICTAND		PREDICTOR	
YEAR/SEASON	2020 / 10	TRAINING PERIOD	1993 / 2010
PREDICTAND	PREC	VARIABLE	SST
DATASET	Korea 101 Stations	MODELS	<input checked="" type="radio"/> SCM <input type="radio"/> APCC <input type="radio"/> BOM <input type="radio"/> CMCC <input type="radio"/> KMA <input type="radio"/> MSC <input type="radio"/> NASA <input type="radio"/> NCEP <input type="radio"/> PNU <input type="radio"/> UKMO
REGION	1 Stations	REGION	Lat : -10 ~ 10 , Lon : 200 ~ 280
SIGNIFICANCE LEVEL	5%		
MINIMUM PATTERN SCORE	0.3		

Reload

Selected Stations

Station ID	Result	Name	Data period for PREC	Data period for TEMP	Correlation
143	Good	Daegu	1973/1 ~ 2019/12	1973/1 ~ 2019/12	0.304612



1. Job summary
2. Historical time series of downscaled hindcast data, station data, correlation coefficient between them, deterministic forecast, and tercile category of the forecast
3. Location of station
4. Regressed predictor (SST; observation) field onto the predictand (precipitation) over the selected domain
5. Regressed predictor (SST; model) field onto the predictand (precipitation) over the selected domain

Produce a downscaled forecast :

Precipitation over Daegu for OND 2020

C. Check results.

MME
Downscale
My Page
Logout
Edit
Help

Details

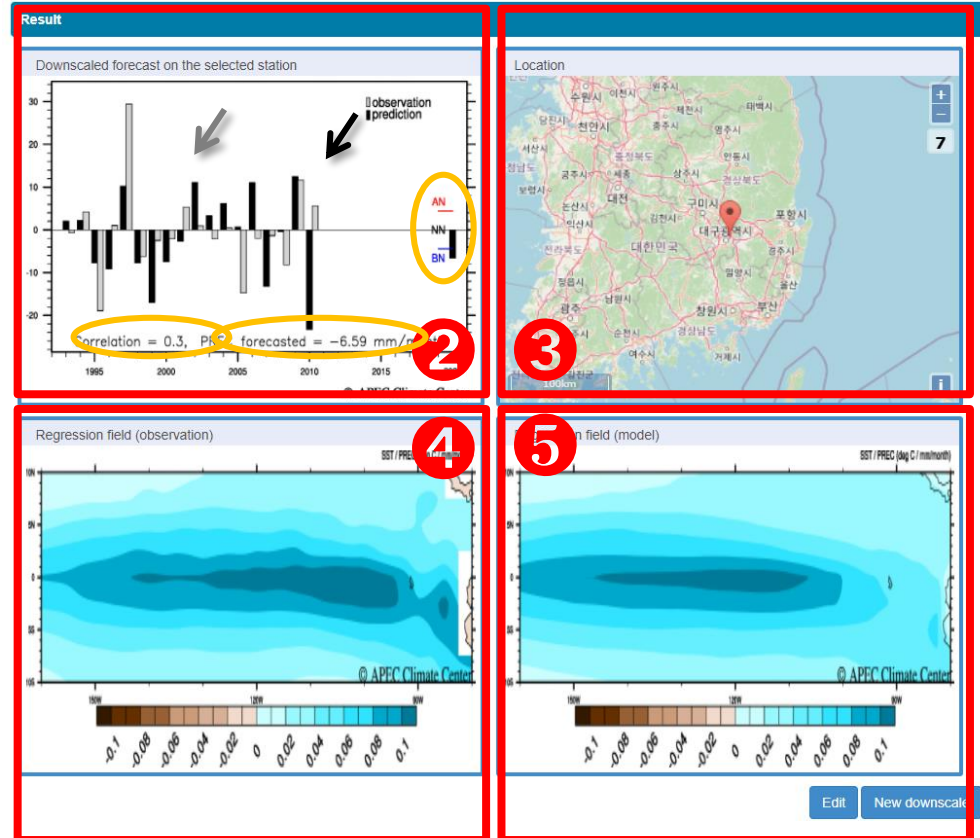
JOB ID	10946	JOB DESCRIPTION	2020OND / 대구 / 강수 / SST
PREDICTAND		PREDICTOR	
YEAR/SEASON	2020 / 10	TRAINING PERIOD	1993 / 2010
PREDICTAND	PREC	VARIABLE	SST
DATA SET	Korea 101 Stations	MODELS	<input checked="" type="radio"/> SCM <input type="radio"/> APCC <input type="radio"/> BOM <input type="radio"/> CMCC <input type="radio"/> KMA <input type="radio"/> MSC <input type="radio"/> NASA <input type="radio"/> NCEP <input type="radio"/> PNU <input type="radio"/> UKMO
REGION	1 Stations	REGION	Lat : -10 ~ 10 , Lon : 200 ~ 280
SIGNIFICANCE LEVEL	5%		
MINIMUM PATTERN SCORE	0.3		

Reload

Selected Stations

Station ID	Result	Name	Data period for PREC	Data period for TEMP	Correlation
143	Good	Daegu	1973/1 ~ 2019/12	1973/1 ~ 2019/12	0.304612

- SCM
- Below-normal prec
- Good
- Cor. Coefficient: 0.30



Produce a downscaled forecast :

Precipitation over Daegu for OND 2020

C. Check results.

MME
Downscale
My Page
Logout

Details

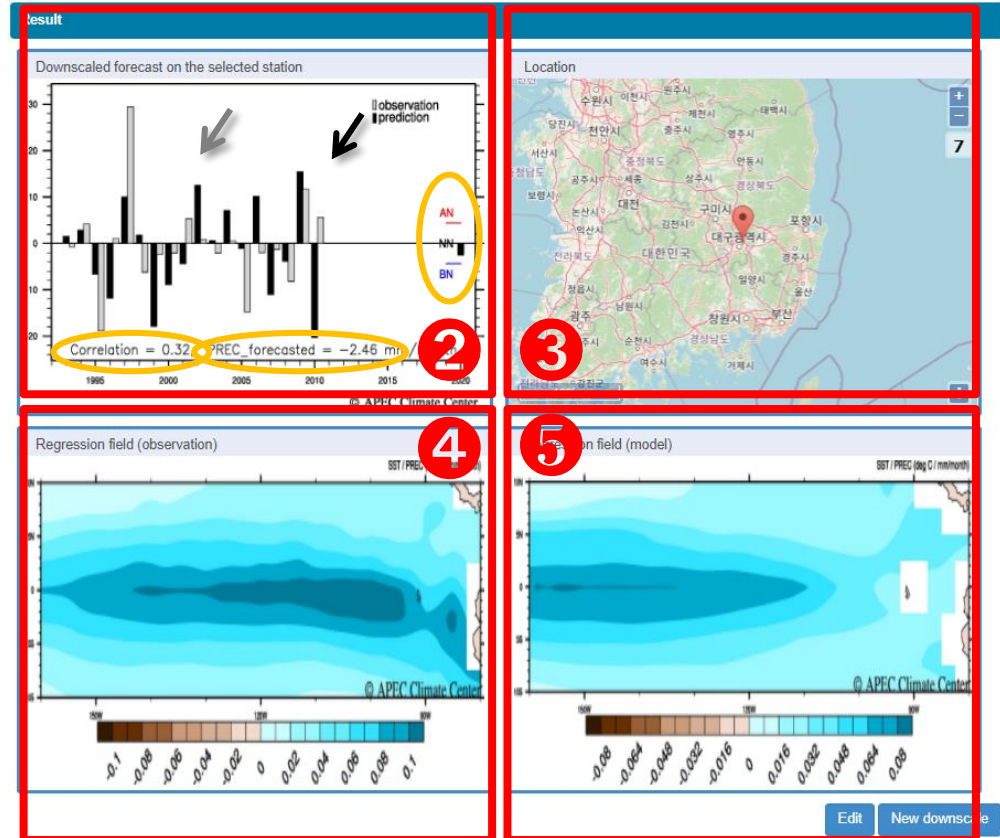
JOB ID	10947	JOB DESCRIPTION	2020OND / 대구 / 강수 / SST
PREDICTAND		PREDICTOR	
YEAR/SEASON	2020 / 10	TRAINING PERIOD	1993 / 2010
PREDICTAND	PREC	VARIABLE	SST
DATA SET	Korea 101 Stations	MODELS	<input type="radio"/> SCM <input checked="" type="radio"/> APCC <input type="radio"/> BOM <input type="radio"/> CMCC <input type="radio"/> KMA <input type="radio"/> MSC <input type="radio"/> NASA <input type="radio"/> NCEP <input type="radio"/> PNU <input type="radio"/> UKMO
REGION	1 Stations	REGION	Lat : -10 ~ 10 , Lon : 200 ~ 280
SIGNIFICANCE LEVEL	5%		
MINIMUM PATTERN SCORE	0.3		

Reload

Selected Stations

Station ID	Result	Name	Data period for PREC	Data period for TEMP	Correlation
143	Good	Daegu	1973/1 ~ 2019/12	1973/1 ~ 2019/12	0.319241

- APCC
- Near-normal prec
- Good
- Cor. Coefficient: 0.32



Produce a downscaled forecast :

Precipitation over Daegu for OND 2020

C. Check results.

MME
Downscale
My Page
Logout

Details

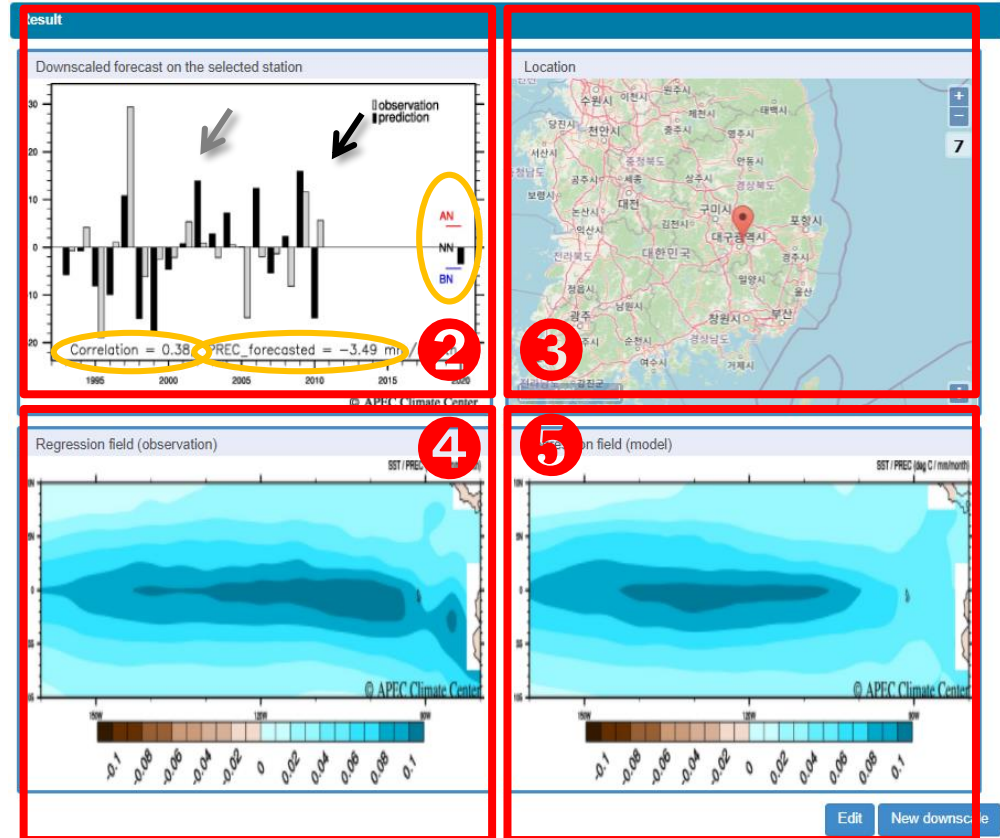
JOB ID	10947	JOB DESCRIPTION	2020OND / 대구 / 강수 / SST
PREDICTAND		PREDICTOR	
YEAR/SEASON	2020 / 10	TRAINING PERIOD	1993 / 2010
PREDICTAND	PREC	VARIABLE	SST
DATA SET	Korea 101 Stations	MODELS	<input type="radio"/> SCM <input type="radio"/> APCC <input type="radio"/> BOM <input type="radio"/> CMCC <input type="radio"/> KMA <input type="radio"/> MSC <input type="radio"/> NASA <input checked="" type="radio"/> NCEP <input type="radio"/> PNU <input type="radio"/> UKMO
REGION	1 Stations	REGION	Lat : -10 ~ 10 , Lon : 200 ~ 280
SIGNIFICANCE LEVEL	5%		
MINIMUM PATTERN SCORE	0.3		

Reload

Selected Stations


Station ID	Result	Name	Data period for PREC	Data period for TEMP	Correlation
143	Good	Daegu	1973/1 ~ 2019/12	1973/1 ~ 2019/12	0.384827

- NCEP
- Near-normal prec
- Good
- Cor. Coefficient: 0.38



Exercise

Make your own seasonal climate outlook for OND 2020!



MME
Downscale
My Page
2020 OND
Logout Edit HelpDesk

Job description

Predictand

Variable

☐ PREC
☐ T850
☐ Z500
☐ SLP
☐ U850
☐ V850
☐ U200
☐ V200
☐ SST

Models

Select Variable

Training Period

Form
To

Method

☒ Linear Regression


Advanced Options

Significance Level
Minimum Pattern Score

5
0.3
%

Domain

Latitude:
Longitude:



Previous
Downscale



Thank you!