



**GOVERNMENT OF TAMILNADU
WATER RESOURCES DEPARTMENT
STATE GROUND AND SURFACE WATER RESOURCES DATA CENTRE**

**CONSOLIDATED DATA OF
FULL CLIMATIC STATIONS IN TAMILNADU
FOR THE YEAR 2005**



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PREFACE

The Ground Water wing of Public Works Department, Tamilnadu is doing scientific studies on various aspects of ground water. This wing is maintaining 45 Full climatic stations and 6 Automatic Weather stations spread over the entire state. These stations have been located in different types of soil in various river basins.

The objectives of full climatic stations are:

- To collect climatic data like Rainfall, Temperature (Maximum, Minimum, Dry Bulb, Wet Bulb), Relative Humidity, Pan Evaporation, Water Temperature, Wind Speed, Wind Direction, Sunshine Hours twice daily through out the state.
- Using all the above data evapo-transpiration by Modified Penmann's method is being calculated.
- The meteorological data thus collected are sent to IMD.
- Some of the stations are either reporting or recording stations for IMD on Co-opting basis.

The first publication was brought out furnishing the location of watershed stations with description of instruments in the watersheds and other salient details in watersheds. Subsequently basic data like total rainfall, total evaporation, average mean temperature, average sunshine hours, average wind velocity etc. from 1973-1983 were compiled in respect of each watershed and published separately. In continuation of this nine booklets were prepared comprising the monthly consolidated details for each watershed in Tamil Nadu for the years 1984 to 1992. The eleventh and twelfth publication of the above nature consisting various parameters with maximum value and its date of occurrence for the years 1993 to 1998 and 1999.

The 15th, 16th, 17th and 18th Publication of the annual data for watersheds for the years 2001-2004 were published during 2005. This is the nineteenth Publication of the above nature consisting annual climatic data for the year 2005.

The Publication will be very useful to ascertain the hydro-meteorological data in respect of all the Full climatic stations are maintained by the Ground Water Wing of Public Works Department, Tamil Nadu for the year 2005. This study includes 43 full climatic stations except Chithode and KRP FCS.

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STATE GROUND AND SURFACE WATER RESOURCES DATA CENTRE,
THARAMANI, CHENNAI - 600 113.

**ANNUAL DATA FOR FULL CLIMATIC STATIONS
2005**

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CT ABSTRACT OF ANNUAL DATA FOR 2005

Sl. No.	Station	Total Annual Rainfall in mm	Annual Average							
			Max. Temp. in °C	Min. Temp. in °C	Mean Temp. in °C	Relative Humidity	Wind Velocity in KMPH	Sunshine Hours	Evaporat i-on in mm	Evapotra -nspiration in mm/day
1	Aliyar Nagar	1043.70	33.73	22.59	28.18	80.02	3.36	5.00	3.36	4.54
2	Aralvoimozhi	1011.70	31.34	28.96	31.04	68.31	8.27	6.49	9.82	5.86
3	Bhavanisagar	-	34.74	23.43	29.09	68.18	1.74	6.06	5.23	4.44
4	Cheranmadevi	678.40	32.22	28.40	29.35	67.27	2.24	5.78	6.59	4.70
5	Chithiraichavadi	954.80	32.26	21.78	27.04	74.38	3.36	5.19	4.81	4.22
6	Dusi Ayyangarkulam	1503.20	32.27	24.70	28.89	68.91	3.14	5.39	4.70	4.61
7	Gollapally	842.80	31.64	23.41	27.37	83.60	3.64	6.37	3.93	4.38
8	Grand Anicut	1441.60	33.64	25.44	29.07	69.92	6.22	7.19	7.09	6.17
9	IMTI - Thuvakkudy	1141.40	29.66	-	-	76.13	4.40	-	-	-
10	K.Paramathi	886.40	32.69	24.30	27.95	66.81	4.13	6.79	4.31	4.99
11	Kalpampatti	511.50	31.68	25.43	28.60	69.20	3.60	7.08	5.61	4.90
12	Kamatchipuram	991.40	33.20	24.20	27.93	62.62	5.83	7.08	5.13	5.83
13	Karunguzhi	1671.60	33.81	28.63	30.52	72.84	3.12	6.55	5.97	4.88
14	Kavaiur	981.70	34.09	25.13	28.36	72.17	4.59	6.26	3.61	5.54
15	Kiladayalam	949.30	30.09	25.68	28.62	76.21	6.38	-	6.27	-
16	Kilanatchipattu	1406.10	30.14	23.88	26.99	71.33	5.61	5.55	5.58	4.81
17	Koradacheri	-	29.08	24.79	27.07	82.96	1.54	6.19	4.05	4.41
18	Kundrakudi	1326.80	30.95	-	21.50	78.48	1.84	6.38	5.61	4.80
19	Kurungulam	1130.30	34.18	25.48	28.34	79.41	2.78	11.67	4.51	5.89
20	Lekkur	1733.80	34.04	25.21	29.00	65.90	4.02	6.84	5.24	5.76
21	Lower Anicut	1513.60	34.05	25.20	26.54	69.74	3.36	5.80	4.50	4.27
22	Mangalapuram	1429.50	31.81	23.03	27.04	69.66	2.35	6.14	5.75	4.51
23	Mayanur	1144.60	35.68	26.11	28.90	72.39	2.94	7.37	5.03	4.90
24	Mayiladumparai	1208.50	29.99	26.20	28.44	90.77	1.56	5.58	4.98	4.60
25	Mela Eral	664.00	32.05	24.23	28.97	85.23	6.74	6.51	5.62	4.73
26	Melumalai	1142.80	32.05	21.48	25.81	72.78	2.72	6.65	9.39	4.77
27	Nambiyar	680.30	33.01	24.43	29.56	74.42	2.56	6.37	5.28	5.19
28	Palur	-	33.15	23.74	28.42	76.44	5.68	5.67	4.78	5.08
29	Parthibanur	754.00	33.37	25.48	29.77	69.59	2.57	6.43	4.51	5.64
30	Perambalur	1423.90	33.30	26.02	28.80	67.94	3.23	5.22	6.08	4.32
31	Pudukkottai	1668.50	35.24	26.16	30.05	70.35	3.39	6.30	5.85	5.07
32	Rayaraghunadha-samudhiram	1569.90	34.74	25.88	29.80	70.46	3.62	7.16	4.74	5.01
33	Savasupuram	-	34.65	25.78	29.01	63.55	4.98	7.67	-	-
34	Sethumadai	-	31.67	25.82	27.89	72.80		4.76	4.17	4.00
35	Sundakkampalayam	-	33.81	23.94	28.40	70.93	3.11	6.15	2.49	3.99
36	Thanjavur	1411.00	33.19	25.27	28.85	71.17	3.28	6.78	4.97	5.25
37	Thirukovilur	1129.20	29.95	24.58	28.23	78.60	2.10	5.56	5.69	4.96
38	Thiruthani	1652.10	35.60	26.70	30.70	72.28	3.37	4.98	2.95	4.81
39	Thiruthuraipoondi	1300.70	30.98	-	-	83.72	2.31	4.28	4.10	-
40	Uthamapalayam	846.80	30.11	22.86	28.17	83.98	3.61	6.50	3.32	4.26

41	Vaniyar Reservoir	1389.20	30.23	25.94	28.09	71.26	2.99	6.24	6.19	4.72
42	Vembakkottai	981.60	33.41	20.54	27.08	68.60	5.32	6.11	6.26	5.49
43	Viralipatti	908.40	33.57	25.03	28.72	63.57	6.92	6.44	8.00	5.92
	N.A. - NOT AVAILABLE									
	Maximum	1733.80	35.68	28.96	31.04	90.77	8.27	11.67	9.82	6.17
	Minimum	511.50	29.08	20.54	21.50	62.62	1.54	4.28	2.49	3.99

BRIEF NOTE ON HYDROMETEOROLOGICAL DATA FOR THE YEAR 2005

The year 2005 is typical wet year received above normal rainfall. Many places in Tamilnadu got inundated. The annual rainfall in water shed ranges from 1733.80 mm to 511.50 mm with maximum annual rainfall at Lekkur and the minimum at Kalampatti. In general the average daily maximum temperature ranges from 35.68°C to 29.08°C, the average daily minimum temperature ranges from 28.96°C to 20.54°C and the mean daily temperature ranges from 31.04°C to 21.50°C. The average daily humidity is found to be high at Mayiladumparai (90.77%) whereas the same found to be low at Kamatchipuram (62.62%). The range of daily wind velocity is 8.27 KMPH to 1.54 KMPH. The highest being at Aralvoimozhi and low at Koradachery. The highest average daily bright sunshine is observed at Kurungulam (11.67 Hrs.) whereas lowest was observed at Thiruthuraipoondi (4.28 Hrs.). The average daily evaporation is found to be highest at Aralvoimozhi as 9.82 mm with the lowest at Sundakkampalayam as 2.49 mm. The highest evapotranspiration is found to be 6.17 mm/day at Grand Anicut and the lowest was 3.99 mm/day at Sundakkampalayam.

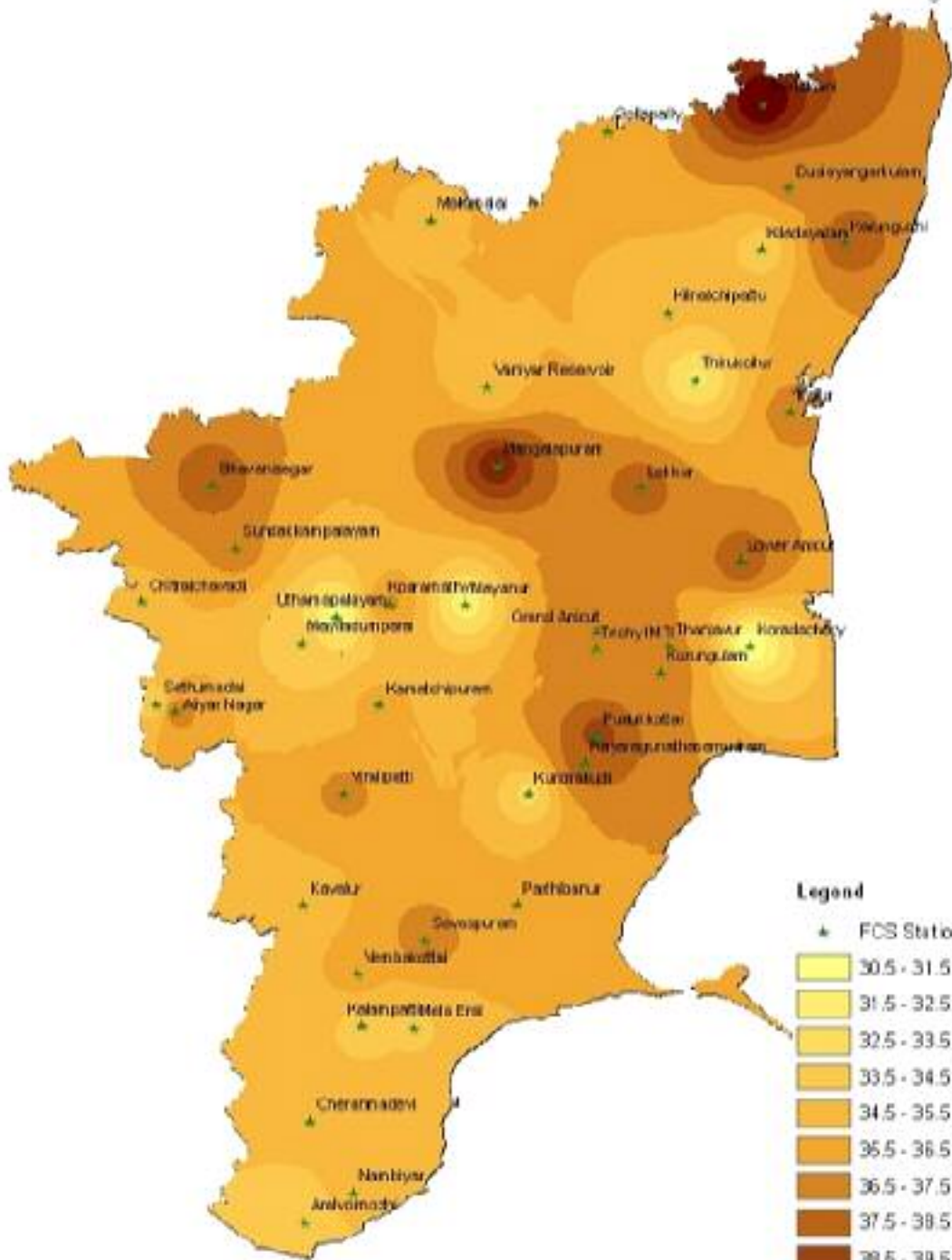
SALIENT FEATURES OF DATA FOR 2005

Sl. No.	Station	Highest Value with Date					Lowest Min. Temp. in °C with Date
		Rainfall in mm	Evaporation in mm	Max. Temp. in °C	Wind Velocity in KMPH	Sunshine Hours	
1	Aliyar Nagar	67.20	6.00	41.00	10.60	9.80	14.00
		24-Nov	3-Jan	28-Mar	21-Nov	31-Aug	13-Feb
2	Aralvoimozhi	93.00	18.00	39.80	56.00	10.80	20.00
		5-Apr	30-Mar	26-Mar	15-Jul	20-Aug	12-Jan
3	Bhavanisagar	-	11.00	42.00	8.60	10.00	12.00
		-	25-Mar	30-Mar	12-Aug	10-Feb	10-Feb
4	Cheranmadevi	-	12.50	40.00	7.70	10.50	-
		-	26-Sep	25-Mar	1-Jul	25-Aug	-
5	Chithiraichavadi	82.20	7.50	38.00	19.58	10.40	14.00
		22-Oct	19-May	21-May	09-Aug	22-Aug	8-Jan
6	Dusi Ayyangarkulam	90.00	13.40	42.00	7.90	9.80	17.00
		22-Nov	8-Jan	10-May	19-Dec	13-May	2-Jan
7	Gollapally	77.40	9.40	42.00	8.36	10.90	12.00
		24-Oct	7-Sep	17-May	21-Aug	19-May	10-Jan
8	Grand Anicut	158.80	9.60	40.20	16.71	11.90	17.20
		24-Nov	6-Jul	26-May	25-Jul	12-Jul	28-Feb
9	IMTI - Thuvakkudy	133.80	9.20	40.00	10.50	-	-
		11-Nov	21-Aug	23-May	20-Sep	-	-
10	K.Paramathi	116.40	6.60	41.60	16.17	11.00	16.50
		4-Dec	8-Aug	29-Apr	2-Aug	1-Jun	18-Nov
11	Kalampatti	75.00	8.50	39.00	10.30	11.40	14.00
		11-Oct	19-May	18-Jun	27-Jul	31-May	10-Jan
12	Kamatchipuram	188.30	12.00	39.50	16.40	11.90	15.00
		24-Nov	26-Apr	25-Mar	7-Aug	18-Jul	12-Feb
13	Karunguzhi	182.00	12.80	41.00	8.52	11.00	20.00
		3-Dec	19-May	11-May	28-Oct	14-Apr	11-Jan
14	Kavalur	200.00	12.80	40.50	12.65	11.60	17.50
		24-Nov	8-Aug	18-May	8-Aug	1-Jun	27-Dec
15	Kiladayalam	-	9.80	40.80	17.92	-	22.50
		-	20-May	23-May	16-May	-	4-Dec
16	Kilnatchipattu	125.60	14.00	39.00	16.82	11.00	16.80
		24-Nov	8-Jul	17-May	29-Jul	15-Apr	12-Jan
17	Koradacheri	-	7.00	36.00	5.05	10.90	16.00
		-	1-May	7-Aug	1-Aug	21-Apr	30-Dec
18	Kundrakudi	180.00	9.20	36.00	9.20	10.70	5.00
		21-Nov	16-May	23-May	16-Dec	27-Feb	22-Nov
19	Kurungulam	90.00	7.00	39.40	11.08	11.50	18.00
		3-Nov	17-Jul	27-May	13-Jun	17-May	12-Jan

20	Lekkur	140.20	10.50	41.00	11.97	11.80	16.00
		24-Nov	19-Aug	23-May	18-Aug	18-Mar	12-Jan
21	Lower Anicut	167.20	10.00	41.00	10.60	11.70	20.40
		24-Nov	21-Jun	10-May	2-Aug	1-Jun	18-Nov
22	Mangalapuram	140.00	8.00	39.00	11.40	10.80	14.00
		24-Nov	8-Jan	23-Jan	1-Mar	22-Apr	13-Feb
23	Mayanur	227.00	8.40	46.60	11.37	11.10	18.00
		24-Nov	3-Jul	29-May	21-Sep	12-Jul	10-Dec
24	Mayiladumparai	107.80	12.00	38.00	10.00	10.60	15.00
		4-Dec	14-Apr	21-May	1-Jun	29-Oct	10-Dec
25	Mela Eral	74.60	12.00	39.00	26.77	11.45	17.00
		11-Dec	1-Sep	25-Feb	21-Sep	1-Jun	12-Jan
26	Melumalai	84.50	16.10	39.50	10.49	11.70	10.00
		13-Oct	13-Jun	18-May	2-Aug	19-Mar	10-Jan
27	Nambiyar	67.00	10.70	40.00	12.48	11.00	18.00
		5-Apr	28-Sep	30-Mar	23-Jul	6-Aug	16-Feb
28	Palur	-	10.80	40.00	12.80	11.00	16.50
		-	12-Jun	11-May	25-Jul	31-May	10-Jan
29	Parthibanur	40.50	14.50	41.00	10.83	11.60	18.00
		20-Apr	18-Jul	11-May	10-Jun	27-May	14-Jan
30	Perambalur	213.00	9.00	41.60	12.80	10.50	19.20
		24-Nov	6-Jul	7-Jun	16-Nov	31-Oct	16-Dec
31	Pudukkottai	150.00	8.90	41.20	8.23	10.94	19.60
		24-Nov	23-May	18-May	11-Dec	18-May	30-Dec
32	Rayaraghnadhasamudhiram	104.00	9.80	41.20	18.80	11.20	17.50
		25-Nov	12-Aug	23-May	3-Dec	12-May	27-Aug
33	Savasupuram	-	-	-	-	-	-
		-	-	-	-	-	-
34	Sethumadai	-	10.00	37.00	0.70	10.20	17.00
		-	7-Feb	21-Mar	7-Jun	21-Jan	15-Feb
35	Sundakkampalayam	-	5.30	41.00	9.76	10.20	15.00
		-	8-May	23-May	17-Sep	15-Oct	10-Jan
36	Thanjavur	152.50	8.90	39.00	13.17	11.50	18.00
		24-Nov	12-Jul	17-May	17-Dec	17-May	12-Dec
37	Thirukovilur	142.00	9.00	39.00	6.86	10.50	18.00
		24-Nov	20-May	18-May	12-Dec	22-Apr	14-Feb
38	Thiruthani	127.00	5.40	44.00	10.50	11.00	15.00
		22-Dec	1-Jan	11-May	28-Jul	1-Jun	17-Nov
39	Thiruthuraipoondi	104.40	7.70	-	-	-	-
		6-Nov	18-Jan	-	-	-	-
40	Uthamapalayam	108.00	8.00	39.50	19.11	11.50	18.00
		24-Nov	5-Jun	9-Jun	29-Jun	18-Jul	31-Dec
41	Vaniyar Reservoir	114.50	10.50	39.00	11.90	10.20	20.00
		17-Nov	13-Mar	19-Jun	25-Aug	18-Apr	8-Jan

42	Vembakkottai	65.20	12.40	40.50	17.00	10.80	12.00
		27-Sep	15-Aug	23-Mar	20-Sep	7-Feb	15-Feb
43	Viralipatti	102.60	11.50	39.20	20.88	11.00	15.40
		24-Nov	30-Apr	19-May	20-May	8-Jun	14-Feb

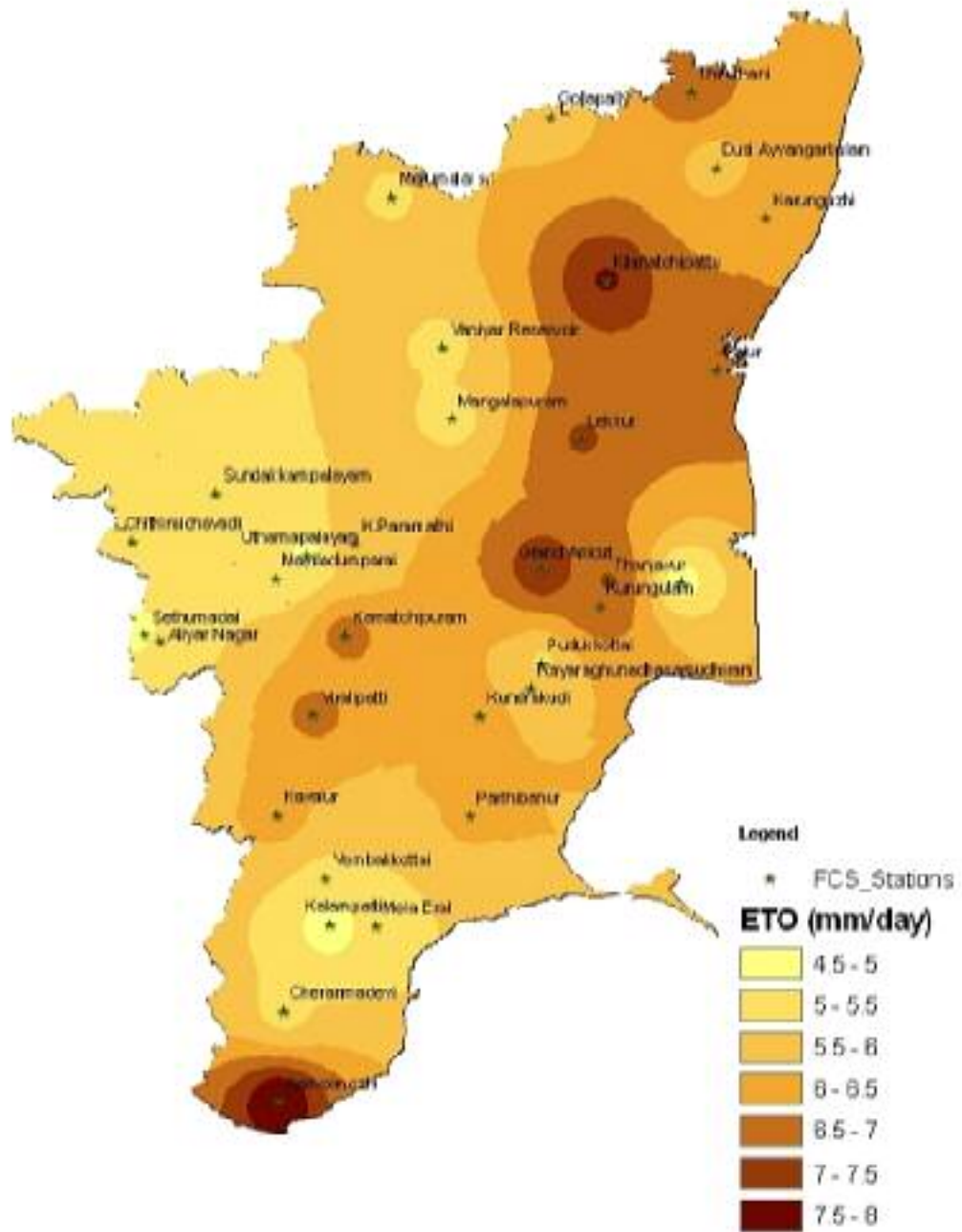
Tamilnadu Maximum Temperature - May 2005



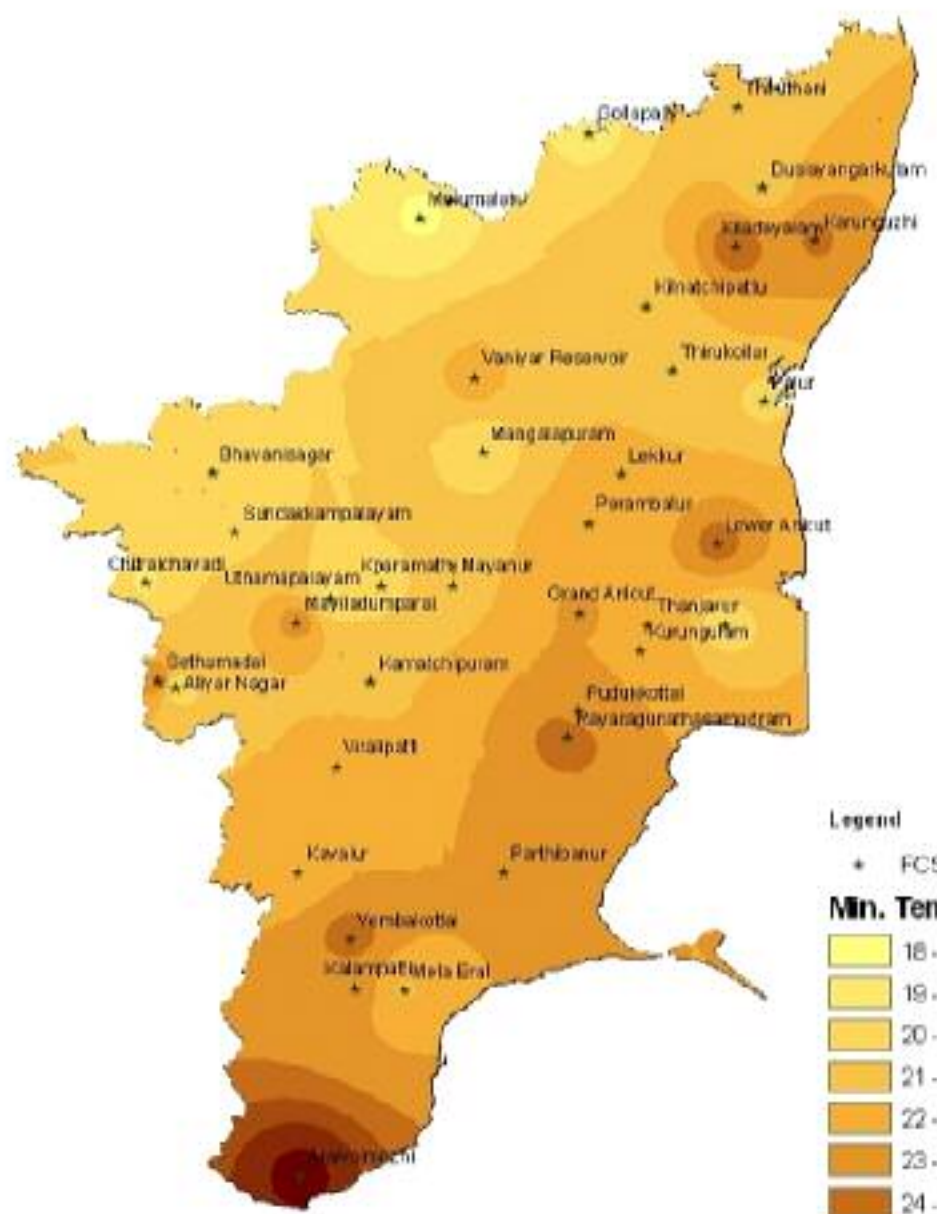
Legend

- ▲ FCS Stations
- 30.5 - 31.5
- 31.5 - 32.5
- 32.5 - 33.5
- 33.5 - 34.5
- 34.5 - 35.5
- 35.5 - 36.5
- 36.5 - 37.5
- 37.5 - 38.5
- 38.5 - 39.5
- 39.5 - 40.5
- 40.5 - 41.5

Tamilnadu Evapotranspiration - May 2005



Tamilnadu Minimum Temperature - December 2005



Legend

+ FCS Stations

Min. Temp. (°C)

18 - 19
19 - 20
20 - 21
21 - 22
22 - 23
23 - 24
24 - 25
25 - 26
26 - 27
27 - 28