

TABLA : HOJA DE DATOS - TEMPERATURA (°C)



GRRNyGA
GERENCIA REGIONAL
DE RECURSOS NATURALES
Y GESTIÓN AMBIENTAL

Ciudad : Tacna
Nombre/Número de la Estación : EMCA-02
Ubicación : IESTP - FRANCISCO DE PAULA GONZALES VIGIL
Equipo de Muestreo : Sensor de Temperatura del Aire PR20/HC2S3
Última Calibración del Equipo : julio - 2024
Coordenadas UTM (WGS 84)
Este : 368367
Norte : 8010120

Periodo : 17 al 31 de julio
Año : 2024
Responsable : GORE - TACNA
Tipo de Data : Horario
Unidades : °C
Limite de Deteccion : ---°C

DÍA \ HORA	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Prom.	Max.	Min.
7/17/2024	10.4	10.8	10.4	10.2	10.1	9.8	9.7	9.3	9.6	10.5	12.7	14.1	15.1	16.0	16.9	17.2	16.8	15.6	12.7	12.1	11.8	11.6	11.5	11.6	12.4	17.2	9.3
7/18/2024	11.7	11.5	11.3	11.1	10.8	10.6	9.3	9.4	12.6	12.9	15.4	16.1	17.7	19.7	20.0	18.1	17.4	16.3	14.0	12.8	12.8	12.7	12.6	12.4	13.7	20.0	9.3
7/19/2024	10.7	10.5	10.5	9.7	10.2	9.7	8.7	9.2	9.3	11.2	12.2	13.8	16.2	17.7	19.1	18.9	17.2	15.3	13.3	12.7	12.7	12.5	12.5	12.3	12.7	19.1	8.7
7/20/2024	12.2	11.8	11.6	11.3	11.1	11.1	11.0	10.9	11.0	11.9	12.9	13.8	15.4	16.3	16.4	16.9	17.3	16.5	13.9	13.1	12.4	12.2	11.8	11.8	13.1	17.3	10.9
7/21/2024	11.9	11.8	11.7	11.7	11.5	11.4	11.4	11.3	11.5	12.0	12.9	14.2	15.2	16.3	17.4	18.0	17.7	15.7	13.4	12.2	11.7	11.6	11.6	11.5	13.1	18.0	11.3
7/22/2024	11.4	11.1	11.0	10.4	9.7	9.6	9.8	9.7	10.3	11.0	12.3	14.0	15.7	17.0	18.7	18.4	17.5	15.5	13.4	12.8	12.7	12.6	12.5	12.4	12.9	18.7	9.6
7/23/2024	11.9	11.6	11.5	11.3	10.5	9.2	9.5	10.6	13.7	13.8	15.3	16.7	17.9	19.0	19.9	19.0	17.4	15.7	13.5	12.5	12.2	12.4	12.1	12.1	13.7	19.9	9.2
7/24/2024	11.8	11.0	10.3	10.0	10.2	10.2	9.8	9.4	10.0	13.5	16.7	18.3	18.8	19.5	20.3	19.1	18.3	16.3	14.5	13.2	12.4	11.7	11.7	11.9	13.7	20.3	9.4
7/25/2024	11.7	11.3	11.3	11.4	11.4	10.8	10.5	10.8	11.5	12.4	13.8	16.2	19.1	20.6	20.6	19.5	17.1	15.2	13.5	13.4	13.2	12.7	12.8	12.6	13.9	20.6	10.5
7/26/2024	10.5	12.7	14.1	15.1	16.0	16.9	17.2	16.8	15.6	12.7	12.1	11.8	11.6	11.5	11.6	11.7	11.5	11.3	11.1	10.8	10.6	9.3	9.4	12.6	12.7	17.2	9.3
7/27/2024	12.9	15.4	16.1	17.7	19.7	20.0	18.1	17.4	16.3	14.0	12.8	12.8	12.7	12.6	12.4	10.7	10.5	10.5	9.7	10.2	9.7	8.7	9.2	9.3	13.3	20.0	8.7
7/28/2024	11.2	12.2	13.8	16.2	17.7	19.1	18.9	17.2	15.3	13.3	12.7	12.7	12.5	12.5	12.3	12.2	11.8	11.6	11.3	11.1	11.1	11.0	10.9	11.0	13.3	19.1	10.9
7/29/2024	11.9	12.9	13.8	15.4	16.3	16.4	16.9	17.3	16.5	13.9	13.1	12.4	12.2	11.8	11.8	11.9	11.8	11.7	11.7	11.5	11.4	11.4	11.3	11.5	13.2	17.3	11.3
7/30/2024	12.0	12.9	14.2	15.2	16.3	17.4	18.0	17.7	15.7	13.4	12.2	11.7	11.6	11.6	11.5	11.4	11.1	11.0	10.4	9.7	9.6	9.8	9.7	10.3	12.7	18.0	9.6
7/31/2024	11.0	12.3	14.0	15.7	17.0	18.7	18.4	17.5	15.5	13.4	12.8	12.7	12.6	12.5	12.4	11.9	11.6	11.5	11.3	10.5	9.2	9.5	10.6	13.7	13.2	18.7	9.2
Prom.	11.5	12.0	12.4	12.8	13.2	13.4	13.1	13.0	13.0	12.6	13.3	14.1	14.9	15.6	16.1	15.7	15.0	14.0	12.5	11.9	11.6	11.3	11.3	11.8			
Max.	12.9	15.4	16.1	17.7	19.7	20.0	18.9	17.7	16.5	14.0	16.7	18.3	19.1	20.6	20.6	19.5	18.3	16.5	14.5	13.4	13.2	12.7	12.8	13.7			
Min.	10.4	10.5	10.3	9.7	9.7	9.2	8.7	9.2	9.3	10.5	12.1	11.7	11.6	11.5	11.5	10.7	10.5	10.5	9.7	9.7	9.2	8.7	9.2	9.3			

Observaciones : Corte de Luz (*), Mantenimiento (**), Calibracion (***) y Otros (****)

Reporta: SGGA - GRRNyGA

TABLA : HOJA DE DATOS - HUMEDAD RELATIVA (%)



GRRNyGA
GERENCIA REGIONAL
DE RECURSOS NATURALES
Y GESTIÓN AMBIENTAL

Ciudad : Tacna
Nombre/Número de la Estación : EMCA-02
Ubicación : IESTP - FRANCISCO DE PAULA GONZALES VIGIL
Equipo de Muestreo : Sensor de Humedad Relativa
Última Calibración del Equipo : julio - 2024
Coordenadas UTM (WGS 84)
Este : 368367
Norte : 8010120

Periodo : 17 al 31 de julio
Año : 2024
Responsable : GORE - TACNA
Tipo de Data : Horario
Unidades : %
Limite de Deteccion : ---%

DÍA-HORA	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Prom.	Max.	Min.
7/17/2024	83.2	83.9	85.7	85.7	85.8	85.5	84.9	84.6	80.8	75.3	67.0	65.4	61.5	58.9	55.8	56.4	58.9	71.3	78.2	78.5	80.1	79.9	79.9	79.3	75.3	85.8	55.8
7/18/2024	79.2	79.3	79.7	80.2	81.1	81.3	84.7	77.2	72.1	66.3	57.9	57.5	47.4	44.7	49.5	57.2	58.8	67.3	76.3	77.7	78.4	77.2	76.5	80.4	70.3	84.7	44.7
7/19/2024	85.7	85.8	86.1	81.2	85.5	87.2	86.6	87.7	88.0	77.0	78.0	64.7	59.4	50.1	51.5	55.9	66.4	75.0	79.8	81.8	81.2	81.6	82.4	82.1	76.7	88.0	50.1
7/20/2024	83.0	85.0	84.1	85.7	83.9	83.9	83.5	83.3	81.4	74.4	73.1	67.1	61.4	62.4	60.1	58.7	59.6	66.2	77.5	79.3	80.1	81.1	81.7	80.7	75.7	85.7	58.7
7/21/2024	80.3	80.2	80.0	79.5	79.9	79.3	79.0	78.7	77.1	73.2	68.1	62.1	58.3	54.9	51.1	51.0	57.6	68.7	75.9	80.3	80.5	80.6	80.5	80.6	72.4	80.6	51.0
7/22/2024	80.6	81.5	82.0	84.2	84.8	85.9	85.2	85.1	82.1	79.4	73.3	63.9	59.5	52.3	53.1	57.2	63.8	71.7	76.6	79.1	80.1	80.5	80.0	80.4	75.1	85.9	52.3
7/23/2024	81.9	82.8	81.6	83.2	86.0	87.2	83.4	76.0	71.7	70.0	64.2	58.8	54.8	52.1	53.2	58.5	64.7	71.3	78.4	81.5	82.5	81.6	78.3	81.5	73.6	87.2	52.1
7/24/2024	82.0	86.8	87.9	88.4	88.5	88.7	89.1	89.2	86.5	64.0	55.6	52.9	57.1	54.6	55.0	59.1	64.0	72.6	77.3	80.8	84.7	86.2	85.6	85.3	75.9	89.2	52.9
7/25/2024	85.8	86.7	86.0	85.6	85.5	86.7	86.8	86.2	84.6	79.3	68.7	58.8	52.7	50.1	52.1	60.1	68.6	76.6	81.7	80.0	83.8	83.7	83.5	84.2	76.6	86.8	50.1
7/26/2024	75.3	67.0	65.4	61.5	58.9	55.8	56.4	58.9	71.3	78.2	78.5	80.1	79.9	79.9	79.3	79.2	79.3	79.7	80.2	81.1	81.3	84.7	77.2	72.1	73.4	84.7	55.8
7/27/2024	66.3	57.9	57.5	47.4	44.7	49.5	57.2	58.8	67.3	76.3	77.7	78.4	77.2	76.5	80.4	85.7	85.8	86.1	81.2	85.5	87.2	86.6	87.7	88.0	72.8	88.0	44.7
7/28/2024	77.0	78.0	64.7	59.4	50.1	51.5	55.9	66.4	75.0	79.8	81.8	81.2	81.6	82.4	82.1	83.0	85.0	84.1	85.7	83.9	83.9	83.5	83.3	81.4	75.9	85.7	50.1
7/29/2024	74.4	73.1	67.1	61.4	62.4	60.1	58.7	59.6	66.2	77.5	79.3	80.1	81.1	81.7	80.7	80.3	80.2	80.0	79.5	79.9	79.3	79.0	78.7	77.1	74.1	81.7	58.7
7/30/2024	73.2	68.1	62.1	58.3	54.9	51.1	51.0	57.6	68.7	75.9	80.3	80.5	80.6	80.5	80.6	80.6	81.5	82.0	84.2	84.8	85.9	85.2	85.1	82.1	73.9	85.9	51.0
7/31/2024	79.4	73.3	63.9	59.5	52.3	53.1	57.2	63.8	71.7	76.6	79.1	80.1	80.5	80.0	80.4	81.9	82.8	81.6	83.2	86.0	87.2	83.4	76.0	71.7	74.4	87.2	52.3
Prom.	79.1	77.9	75.6	73.4	72.3	72.4	73.3	74.2	76.3	74.9	72.2	68.8	66.2	64.1	64.3	67.0	70.5	75.6	79.7	81.4	82.4	82.3	81.1	80.5			
Max.	85.8	86.8	87.9	88.4	88.5	88.7	89.1	89.2	88.0	79.8	81.8	81.2	81.6	82.4	82.1	85.7	85.8	86.1	85.7	86.0	87.2	86.6	87.7	88.0			
Min.	66.3	57.9	57.5	47.4	44.7	49.5	51.0	57.6	66.2	64.0	55.6	52.9	47.4	44.7	49.5	51.0	57.6	66.2	75.9	77.7	78.4	77.2	76.0	71.7			

Observaciones : Corte de Luz (*), Mantenimiento (**), Calibracion (***) y Otros (****)

Reporta: SGGA - GRRNyGA

TABLA : HOJA DE DATOS - VELOCIDAD DEL VIENTO (m/s)



GRRNyGA
GERENCIA REGIONAL
DE RECURSOS NATURALES
Y GESTIÓN AMBIENTAL

Ciudad : Tacna
Nombre/Número de la Estación : EMCA-02
Ubicación : IESTP - FRANCISCO DE PAULA GONZALES VIGIL
Equipo de Muestreo : Sensor de Velocidad y Dirección del Aire - WINDSONIC I
Última Calibración del Equipo : julio - 2024
Coordenadas UTM (WGS 84)
Este : 368367
Norte : 8010120

Periodo : 17 al 31 de julio
Año : 2024
Responsable : GORE - TACNA
Tipo de Data : Horario
Unidades : m/s
Limite de Deteccion : ---m/s

HORA	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Prom.	Max.	Min.
7/17/2024	0.9	0.9	1.0	0.9	1.2	1.2	1.2	1.6	1.0	1.0	1.3	1.6	1.8	1.9	2.0	2.0	2.1	2.4	2.3	1.6	1.7	1.3	1.3	0.8	1.5	2.4	0.8
7/18/2024	0.9	1.0	0.8	0.9	0.8	1.0	1.8	0.7	0.9	1.4	1.0	2.0	1.3	1.8	2.6	2.5	1.9	2.1	2.1	0.9	0.7	0.6	0.5	0.9	1.3	2.6	0.5
7/19/2024	1.0	0.4	0.6	0.5	1.0	1.3	0.8	1.1	0.7	1.2	1.9	1.1	1.9	1.7	1.9	2.3	2.5	2.1	1.4	1.4	1.0	0.9	1.0	0.9	1.3	2.5	0.4
7/20/2024	0.9	1.3	0.9	1.0	1.1	1.2	1.3	1.2	1.2	0.9	1.2	1.4	1.6	2.4	2.0	1.7	1.9	2.3	1.9	1.5	1.6	1.5	1.7	0.8	1.4	2.4	0.8
7/21/2024	1.0	0.9	1.0	1.0	1.3	1.1	1.0	1.0	0.6	1.2	1.1	1.7	1.9	1.8	1.7	1.8	2.2	2.3	2.0	1.8	1.2	0.8	1.0	1.0	1.4	2.3	0.6
7/22/2024	1.2	0.9	1.5	1.3	1.2	0.9	1.0	0.9	0.8	0.7	0.9	1.2	1.7	1.5	1.7	2.3	2.4	2.5	1.9	1.6	1.2	0.9	0.8	0.9	1.3	2.5	0.7
7/23/2024	1.3	0.7	0.8	1.0	1.1	1.4	0.7	0.5	0.7	1.3	1.4	1.5	1.8	1.8	2.3	2.5	2.3	2.1	2.0	1.3	0.9	0.5	0.8	0.6	1.3	2.5	0.5
7/24/2024	0.6	1.1	0.7	0.6	0.6	0.6	1.1	1.2	0.9	0.7	0.9	1.7	2.3	2.0	2.0	2.3	2.3	2.0	1.3	1.1	1.4	0.9	1.1	1.1	1.3	2.3	0.6
7/25/2024	0.8	1.1	1.0	0.6	0.7	1.2	1.0	0.8	0.8	1.2	1.1	1.2	1.2	1.8	2.5	2.5	2.4	2.1	1.7	1.0	1.5	0.7	1.1	0.8	1.3	2.5	0.6
7/26/2024	1.0	1.1	1.4	0.7	0.5	0.7	1.3	1.4	1.5	1.8	1.8	2.3	2.5	2.3	2.1	2.0	1.3	0.9	0.5	0.8	0.6	0.6	1.1	0.7	1.3	2.5	0.5
7/27/2024	0.6	0.6	0.6	1.1	1.2	0.9	0.7	0.9	1.7	2.3	2.0	2.0	2.3	2.3	2.0	1.3	1.1	1.4	0.9	1.1	1.1	0.8	1.1	1.0	1.3	2.3	0.6
7/28/2024	0.6	0.7	1.2	1.0	0.8	0.8	1.2	1.1	1.2	1.2	1.8	2.5	2.5	2.4	2.1	1.7	1.0	1.5	0.7	1.1	0.8	0.8	0.7	1.0	1.3	2.5	0.6
7/29/2024	0.7	0.5	0.7	1.3	1.4	1.5	1.8	1.8	2.3	2.5	2.3	2.1	2.0	1.3	0.9	0.5	0.8	0.6	0.6	1.1	0.7	0.6	0.6	0.6	1.2	2.5	0.5
7/30/2024	1.1	1.2	0.9	0.7	0.9	1.7	2.3	2.0	2.0	2.3	2.3	2.0	1.3	1.1	1.4	0.9	1.1	1.1	0.8	1.1	1.0	0.6	0.7	1.2	1.3	2.3	0.6
7/31/2024	1.0	0.8	0.8	1.2	1.1	1.2	1.2	1.8	2.5	2.5	2.4	2.1	1.7	1.0	1.5	0.7	1.1	0.8	0.8	0.7	1.0	1.4	1.0	1.1	1.3	2.5	0.7
Prom.	0.9	0.9	0.9	0.9	1.0	1.1	1.2	1.2	1.3	1.5	1.5	1.8	1.9	1.8	1.9	1.8	1.7	1.7	1.4	1.2	1.1	0.9	1.0	0.9			
Max.	1.3	1.3	1.5	1.3	1.4	1.7	2.3	2.0	2.5	2.5	2.4	2.5	2.5	2.4	2.6	2.5	2.5	2.5	2.3	1.8	1.7	1.5	1.7	1.2			
Min.	0.6	0.4	0.6	0.5	0.5	0.6	0.7	0.5	0.6	0.7	0.9	1.1	1.2	1.0	0.9	0.5	0.8	0.6	0.5	0.7	0.6	0.5	0.5	0.6			

Observaciones : Corte de Luz (*), Mantenimiento (**), Calibracion (***) y Otros (****)

Reporta: SGGA - GRRNyGA



Periodo	: 17 al 31 de julio
Año	: 2024
Responsable	: GORE - TACNA
Tipo de Data	: Horario
Unidades	: kW/m²
Limite de Deteccion	: ---kW/m²

Observaciones : Corte de Luz (*), Mantenimiento (**), Calibración (***) y Otros (****)

Reporta: SGGa - GRRNyGA

TABLA : HOJA DE DATOS - PRESIÓN ATMOSFÉRICA (mbar)



GRRNyGA
 GERENCIA REGIONAL
 DE RECURSOS NATURALES
 Y GESTIÓN AMBIENTAL

Ciudad : Tacna
 Nombre/Número de la Estación : EMCA-02
 Ubicación : IESTP - FRANCISCO DE PAULA GONZALES VIGIL
 Equipo de Muestreo : Sensor Presión Atmosférica - CS106
 Última Calibración del Equipo : julio - 2024
 Coordenadas UTM (WGS 84)
 Este : 368367
 Norte : 8010120

Periodo : 17 al 31 de julio
 Año : 2024
 Responsable : GORE - TACNA
 Tipo de Data : Horario
 Unidades : mbar
 Limite de Deteccion : ---mbar

HORA	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Prom.	Max.	Min.
7/17/2024	943.5	943.4	943.4	943.3	943.2	943.3	943.6	944.1	944.5	945.1	945.1	945.1	944.7	944.0	943.5	943.3	943.3	943.7	944.7	945.6	946.1	946.3	946.5	946.6	944.4	946.6	943.2
7/18/2024	946.4	946.2	945.6	945.1	945.6	945.6	945.5	945.6	945.6	946.3	946.3	946.2	945.5	944.8	944.4	944.1	943.9	943.9	944.5	944.9	945.1	945.3	945.5	945.4	945.3	946.4	943.9
7/19/2024	945.8	945.6	945.4	944.9	944.6	944.5	943.8	944.6	945.4	945.9	946.6	946.3	944.9	944.2	943.7	943.7	944.0	944.6	945.2	945.2	945.6	945.5	945.5	945.4	945.0	946.6	943.7
7/20/2024	945.6	945.6	944.8	944.4	943.9	944.2	944.8	945.5	946.2	946.8	947.6	947.9	947.2	946.5	946.1	946.1	945.9	946.5	947.4	947.6	948.4	948.4	948.2	947.8	946.4	948.4	943.9
7/21/2024	947.5	947.3	946.7	946.1	945.8	946.0	946.0	946.0	946.4	946.9	947.3	947.1	946.6	945.8	945.0	944.6	944.4	944.5	944.8	944.8	945.0	944.8	944.7	944.6	945.8	947.5	944.4
7/22/2024	944.0	944.1	943.7	943.2	943.0	942.9	943.2	943.6	944.4	945.1	945.5	945.4	944.8	944.1	943.1	943.1	943.7	944.3	945.1	945.5	946.0	946.2	946.3	946.7	944.5	946.7	942.9
7/23/2024	946.8	946.6	946.3	945.9	945.3	944.9	944.8	945.4	945.9	946.7	947.3	947.2	947.1	946.9	946.2	945.9	945.9	945.9	946.5	947.0	947.5	947.7	948.0	947.8	946.5	948.0	944.8
7/24/2024	947.4	947.2	946.7	946.4	946.6	947.1	947.4	947.7	948.0	948.4	948.2	947.8	947.9	947.2	946.7	946.6	946.7	947.0	946.9	947.1	947.2	947.6	947.4	947.5	947.3	948.4	946.4
7/25/2024	948.0	947.4	947.1	946.7	946.5	946.4	946.6	946.8	947.8	948.5	948.6	948.1	947.1	945.8	945.1	945.1	945.4	945.5	946.4	947.1	947.9	948.2	947.9	947.8	947.0	948.6	945.1
7/26/2024	945.9	945.3	944.9	944.8	945.4	945.9	946.7	947.3	947.2	947.1	946.9	946.2	945.9	945.9	945.9	946.5	947.0	947.5	947.7	948.0	947.8	947.4	947.2	946.7	946.5	948.0	944.8
7/27/2024	946.4	946.6	947.1	947.4	947.7	948.0	948.4	948.2	947.8	947.9	947.2	946.7	946.6	946.7	947.0	946.9	947.1	947.2	947.6	947.4	947.5	948.0	947.4	947.1	947.3	948.4	946.4
7/28/2024	946.7	946.5	946.4	946.6	946.8	947.8	948.5	948.6	948.1	947.1	945.8	945.1	945.1	945.4	945.5	946.4	947.1	947.9	948.2	947.9	947.8	947.4	947.0	946.8	946.9	948.6	945.1
7/29/2024	944.8	945.4	945.9	946.7	947.3	947.2	947.1	946.9	946.2	945.9	945.9	945.9	946.5	947.0	947.5	947.7	948.0	947.8	947.4	947.2	946.7	946.4	946.6	947.1	946.7	948.0	944.8
7/30/2024	947.4	947.7	948.0	948.4	948.2	947.8	947.9	947.2	946.7	946.6	946.7	947.0	946.9	947.1	947.2	947.6	947.4	947.5	948.0	947.4	947.1	946.7	946.5	946.4	947.3	948.4	946.4
7/31/2024	946.6	946.8	947.8	948.5	948.6	948.1	947.1	945.8	945.1	945.1	945.4	945.5	946.4	947.1	947.9	948.2	947.9	947.8	947.4	947.0	946.8	946.1	944.8	945.0	946.8	948.6	944.8
Prom.	946.2	946.1	946.0	945.9	945.9	946.0	946.1	946.2	946.4	946.6	946.7	946.5	946.2	945.9	945.6	945.7	945.8	946.1	946.5	946.7	946.8	946.8	946.6	946.6			
Max.	948.0	947.7	948.0	948.5	948.6	948.1	948.5	948.6	948.1	948.5	948.6	948.1	947.9	947.2	947.9	948.2	948.0	947.9	948.2	948.0	948.4	948.4	948.2	947.8			
Min.	943.5	943.4	943.4	943.2	943.0	942.9	943.2	943.6	944.4	945.1	945.1	945.1	944.7	944.0	943.1	943.1	943.3	943.7	944.5	944.8	945.0	944.8	944.7	944.6			

Observaciones : Corte de Luz (*), Mantenimiento (**), Calibracion (***) y Otros (****)

Reporta: SGGA - GRRNyGA

TABLA : HOJA DE DATOS - MATERIAL PARTICULADO RESPIRABLE (PM₁₀)



Ciudad : Tacna
 Nombre/Número de la Estación : EMCA-02
 Ubicación : IESTP - FRANCISCO DE PAULA GONZALES VIGIL
 Equipo de Muestreo : THERMO SCIENTIFIC - TEOM 1405
 Última Calibración del Equipo : julio - 2024
 Coordenadas UTM (WGS 84)

Este : 368367
 Norte : 8010120

Periodo : 17 al 31 de julio
 Año : 2024
 Responsable : GORE - TACNA
 Tipo de Data : Horario
 Unidades : ug/m³
Limite de Deteccion : --- ug/m³

HORA	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Prom.	Max.	Min.
7/17/2024	40.0	39.8	28.4	29.6	29.9	22.3	23.8	25.8	29.8	56.5	50.2	51.7	47.1	85.2	0.0	0.0	39.0	46.3	30.4	25.2	28.8	26.7	23.3	27.3	33.6	85.2	0.0
7/18/2024	32.8	30.3	28.3	29.2	22.1	29.6	35.5	54.2	101.5	58.2	79.1	65.0	57.4	62.0	57.9	59.5	45.9	42.9	31.2	38.6	50.3	82.8	84.1	78.1	52.3	101.5	22.1
7/19/2024	30.7	25.7	9.7	59.7	33.1	3.0	31.9	34.1	43.5	62.3	76.0	86.4	69.2	56.8	48.9	32.5	48.5	41.3	23.1	68.4	55.7	21.4	51.5	47.5	44.2	86.4	3.0
7/20/2024	44.1	33.8	36.6	17.2	36.1	31.5	37.1	39.6	31.7	36.4	44.7	46.9	46.4	42.4	42.0	33.6	43.0	45.8	31.0	27.6	29.9	22.9	22.8	21.6	35.2	46.9	17.2
7/21/2024	25.0	16.8	20.8	16.4	15.7	17.2	15.1	19.8	24.2	28.3	57.5	23.3	19.5	22.0	22.4	21.0	28.2	29.4	23.3	20.6	26.7	24.7	22.1	23.5	23.5	57.5	15.1
7/22/2024	29.5	24.2	27.2	24.1	21.0	22.6	23.1	29.2	37.9	37.8	22.6	27.9	43.3	40.0	55.9	46.1	41.3	28.6	29.4	32.3	27.3	26.6	31.5	36.2	31.9	55.9	21.0
7/23/2024	41.1	37.9	27.3	33.0	35.4	30.4	47.8	62.1	51.4	48.0	33.7	28.2	33.7	34.4	36.8	38.6	31.7	28.8	26.6	33.0	27.9	35.1	74.4	69.3	39.4	74.4	26.6
7/24/2024	39.6	0.0	21.7	23.3	31.6	20.1	23.3	19.8	28.0	49.4	76.0	80.3	48.3	65.4	43.8	84.0	30.9	39.5	36.2	56.9	41.5	40.1	70.1	50.0	42.5	84.0	0.0
7/25/2024	42.3	46.8	44.2	50.8	47.3	53.4	53.6	57.1	73.5	72.0	50.2	90.9	90.3	96.1	57.1	49.4	46.5	54.8	29.6	47.9	44.9	40.7	46.7	47.8	55.6	96.1	29.6
7/26/2024	21.7	23.3	31.6	20.1	23.3	19.8	28.0	49.4	76.0	80.3	48.3	65.4	43.8	84.0	30.9	39.5	36.2	56.9	41.5	40.1	70.1	50.0	42.3	46.8	44.6	84.0	19.8
7/27/2024	44.2	50.8	47.3	53.4	53.6	57.1	73.5	72.0	50.2	90.9	90.3	96.1	57.1	49.4	46.5	54.8	29.6	47.9	44.9	40.7	46.7	47.8	85.1	40.0	57.1	96.1	29.6
7/28/2024	31.6	20.1	23.3	19.8	28.0	49.4	76.0	80.3	48.3	65.4	43.8	84.0	30.9	39.5	36.2	56.9	41.5	40.1	70.1	50.0	42.3	46.8	44.2	50.8	46.6	84.0	19.8
7/29/2024	47.3	53.4	53.6	57.1	73.5	72.0	50.2	90.9	90.3	96.1	57.1	49.4	46.5	54.8	29.6	47.9	44.9	40.7	46.7	47.8	85.1	40.0	18.1	48.8	55.9	96.1	18.1
7/30/2024	23.3	19.8	28.0	49.4	76.0	80.3	48.3	65.4	43.8	84.0	30.9	39.5	36.2	56.9	41.5	40.1	70.1	50.0	42.3	46.8	44.2	50.8	47.3	53.4	48.7	84.0	19.8
7/31/2024	53.6	57.1	73.5	72.0	50.2	90.9	90.3	96.1	57.1	49.4	46.5	54.8	29.6	47.9	44.9	40.7	46.7	47.8	85.1	40.0	18.1	48.8	18.8	17.2	53.2	96.1	17.2
Prom.	36.5	32.0	33.4	37.0	38.5	40.0	43.8	53.0	52.5	61.0	53.8	59.3	46.6	55.8	39.6	43.0	41.6	42.7	39.4	41.1	42.6	40.3	45.5	43.9			
Max.	53.6	57.1	73.5	72.0	76.0	90.9	90.3	96.1	101.5	96.1	90.3	96.1	90.3	96.1	57.9	84.0	70.1	56.9	85.1	68.4	85.1	82.8	85.1	78.1			
Min.	21.7	0.0	9.7	16.4	15.7	3.0	15.1	19.8	24.2	28.3	22.6	23.3	19.5	22.0	0.0	0.0	28.2	28.6	23.1	20.6	18.1	21.4	18.1	17.2			

Observaciones : Corte de Luz (*), Mantenimiento (**), Calibracion (***) y Otros (****)

Reporta: SGGA - GRRNyGA

TABLA : HOJA DE DATOS - MATERIAL PARTICULADO RESPIRABLE (PM_{2,5})



Ciudad

: Tacna

Nombre/Número de la Estación

: EMCA-02

Ubicación

: IESTP - FRANCISCO DE PAULA GONZALES VIGIL

Equipo de Muestreo

: THERMO SCIENTIFIC - TEOM 1405

Última Calibración del Equipo

: julio - 2024

Coordenadas UTM (WGS 84)

Este

: 368367

Norte

: 8010120

Periodo

: 17 al 31 de julio

Año

: 2024

Responsable

: GORE - TACNA

Tipo de Data

: Horario

Unidades

: ug/m³

Limite de Deteccion

: --- ug/m³

HORA	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Prom.	Max.	Min.
7/17/2024	22.7	24.0	18.3	19.7	18.9	16.2	17.9	18.1	18.4	19.5	23.2	18.2	18.0	68.5	0.0	0.0	16.3	20.1	12.8	9.9	12.4	11.5	9.4	13.6	17.8	68.5	0.0
7/18/2024	15.6	13.7	13.7	14.6	11.4	15.4	22.4	29.5	38.0	25.3	32.5	27.4	26.0	22.8	22.9	28.3	24.8	18.9	11.8	18.3	23.7	27.5	35.1	30.8	22.9	38.0	11.4
7/19/2024	17.2	12.0	0.0	25.7	16.6	0.0	19.3	19.5	23.0	31.3	29.8	23.7	29.1	23.2	16.6	2.5	23.3	20.2	0.7	48.6	34.3	0.0	24.0	23.6	19.3	48.6	0.0
7/20/2024	24.7	20.4	23.6	5.2	21.5	19.4	23.6	24.4	18.8	19.4	23.2	26.9	24.4	23.4	22.4	18.6	23.0	26.4	15.3	14.5	17.5	10.5	12.0	12.3	19.6	26.9	5.2
7/21/2024	17.0	9.7	13.6	9.2	9.3	10.9	8.5	11.8	11.4	13.6	39.5	13.3	10.9	9.9	10.7	10.3	10.9	11.6	10.1	7.8	10.7	11.7	9.3	10.8	12.2	39.5	7.8
7/22/2024	15.4	13.4	13.9	15.2	15.9	16.6	13.4	17.3	21.3	18.7	10.5	8.9	15.2	16.6	19.8	16.6	15.4	9.0	11.2	13.9	12.0	10.6	13.3	17.0	14.6	21.3	8.9
7/23/2024	17.3	18.0	14.2	16.6	17.4	19.9	29.5	35.7	26.7	18.5	10.5	8.5	13.6	13.4	12.8	12.6	12.1	10.5	8.2	11.4	12.3	14.6	26.9	27.7	17.0	35.7	8.2
7/24/2024	14.5	0.0	16.9	16.6	22.0	13.8	17.6	16.9	16.9	25.3	33.7	29.7	18.1	42.9	25.1	62.0	1.7	14.4	9.5	34.4	19.2	23.8	25.0	21.0	21.7	62.0	0.0
7/25/2024	23.8	24.9	24.7	28.9	27.6	29.8	30.0	33.7	50.8	40.9	24.1	49.2	39.4	49.2	27.3	19.7	17.2	27.5	6.1	19.1	15.8	14.1	15.7	21.3	27.5	50.8	6.1
7/26/2024	16.9	16.6	22.0	13.8	17.6	16.9	16.9	25.3	33.7	29.7	18.1	42.9	25.1	62.0	1.7	14.4	9.5	34.4	19.2	23.8	25.0	21.0	23.8	24.9	23.1	62.0	1.7
7/27/2024	24.7	28.9	27.6	29.8	30.0	33.7	50.8	40.9	24.1	49.2	39.4	49.2	27.3	19.7	17.2	27.5	6.1	19.1	15.8	14.1	15.7	21.3	54.7	8.0	28.1	54.7	6.1
7/28/2024	22.0	13.8	17.6	16.9	16.9	25.3	33.7	29.7	18.1	42.9	25.1	62.0	1.7	14.4	9.5	34.4	19.2	23.8	25.0	21.0	23.8	24.9	24.7	28.9	24.0	62.0	1.7
7/29/2024	27.6	29.8	30.0	33.7	50.8	40.9	24.1	49.2	39.4	49.2	27.3	19.7	17.2	27.5	6.1	19.1	15.8	14.1	15.7	21.3	54.7	8.0	0.0	31.0	27.2	54.7	0.0
7/30/2024	17.6	16.9	16.9	25.3	33.7	29.7	18.1	42.9	25.1	62.0	1.7	14.4	9.5	34.4	19.2	23.8	25.0	21.0	23.8	24.9	24.7	28.9	27.6	29.8	24.9	62.0	1.7
7/31/2024	30.0	33.7	50.8	40.9	24.1	49.2	39.4	49.2	27.3	19.7	17.2	27.5	6.1	19.1	15.8	14.1	15.7	21.3	54.7	8.0	0.0	31.0	12.4	6.2	25.6	54.7	0.0
Prom.	20.5	18.4	20.3	20.8	22.2	22.5	24.3	29.6	26.2	31.0	23.7	28.1	18.8	29.8	15.1	20.3	15.7	19.5	16.0	19.4	20.1	17.3	20.9	20.4			
Max.	30.0	33.7	50.8	40.9	50.8	49.2	50.8	49.2	50.8	62.0	39.5	62.0	39.4	68.5	27.3	62.0	25.0	34.4	54.7	48.6	54.7	31.0	54.7	31.0			
Min.	14.5	0.0	0.0	5.2	9.3	0.0	8.5	11.8	11.4	13.6	1.7	8.5	1.7	9.9	0.0	0.0	1.7	9.0	0.7	7.8	0.0	0.0	0.0	6.2			

Observaciones : Corte de Luz (*), Mantenimiento (**), Calibracion (***) y Otros (****)

Reporta: SGGA - GRRNyGA

TABLA : HOJA DE DATOS - DIÓXIDO DE NITRÓGENO (NO₂)



GRRNyGA
GERENCIA REGIONAL
DE RECURSOS NATURALES
Y GESTIÓN AMBIENTAL

Ciudad : Tacna
Nombre/Número de la Estación : EMCA-02
Ubicación : IESTP - FRANCISCO DE PAULA GONZALES VIGIL
Equipo de Muestreo : THERMO SCIENTIFIC - ANALIZADOR 42i
Última Calibración del Equipo : julio - 2024
Coordenadas UTM (WGS 84)
Este : 368367
Norte : 8010120

Periodo : 17 al 31 de julio
Año : 2024
Responsable : GORE - TACNA
Tipo de Data : Horario
Unidades : ug/m³
Limite de Deteccion : --- ug/m³

HORA	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Prom.	Max.	Min.
7/17/2024	30.1	19.9	9.6	10.4	12.1	13.5	15.8	20.2	26.1	33.5	25.1	17.3	16.4	15.7	15.5	16.3	21.3	32.7	32.5	36.5	35.0	29.6	24.1	24.2	22.2	36.5	9.6
7/18/2024	23.2	20.0	15.3	13.7	10.6	13.2	23.1	40.0	60.6	37.6	50.3	30.5	28.0	34.4	25.0	19.3	21.5	29.9	29.3	47.6	72.2	66.1	72.0	67.7	35.5	72.2	10.6
7/19/2024	23.1	28.4	29.2	40.9	29.5	18.1	42.3	50.0	47.2	61.3	46.2	32.7	41.9	29.7	26.9	23.5	24.8	31.0	35.3	45.0	47.3	46.5	48.7	41.9	37.1	61.3	18.1
7/20/2024	27.5	15.8	14.2	12.9	22.2	20.3	23.8	21.6	19.1	25.5	33.7	26.1	23.5	20.9	17.5	18.3	30.1	36.7	41.7	43.8	38.2	38.1	25.9	24.4	25.9	43.8	12.9
7/21/2024	19.6	16.3	15.2	13.4	11.1	15.0	15.1	22.7	18.7	26.6	19.2	15.1	11.2	10.4	10.9	11.1	16.5	22.5	22.4	31.5	21.9	28.1	30.1	24.0	18.7	31.5	10.4
7/22/2024	22.8	16.7	14.7	16.4	18.0	19.3	25.4	30.1	35.2	35.0	21.8	20.1	22.4	20.8	30.7	21.8	25.8	28.7	37.8	36.4	32.7	30.6	35.5	34.6	26.4	37.8	14.7
7/23/2024	33.9	30.0	18.4	20.0	27.8	32.6	37.8	46.1	47.3	36.5	21.2	19.6	17.0	16.3	20.2	18.8	19.5	25.2	28.3	31.4	39.1	56.1	51.4	53.7	31.2	56.1	16.3
7/24/2024	52.8	30.9	25.4	33.5	33.1	28.9	34.2	33.7	36.8	53.6	75.3	63.3	25.3	19.7	19.5	19.7	24.7	27.4	47.6	57.0	52.3	41.2	60.0	58.7	39.8	75.3	19.5
7/25/2024	42.5	49.8	47.1	42.2	41.5	45.1	46.4	46.3	44.8	42.6	34.9	47.3	55.7	39.4	24.3	26.1	25.2	29.1	34.0	42.2	51.4	48.1	59.4	57.3	42.6	59.4	24.3
7/26/2024	20.0	27.8	32.6	37.8	46.1	47.3	36.5	21.2	19.6	17.0	16.3	20.2	18.8	19.5	25.2	28.3	31.4	39.1	56.1	51.4	53.7	52.8	30.9	25.4	32.3	56.1	16.3
7/27/2024	33.5	33.1	28.9	34.2	33.7	36.8	53.6	75.3	63.3	25.3	19.7	19.5	19.7	24.7	27.4	47.6	57.0	52.3	41.2	60.0	58.7	42.5	49.8	47.1	41.0	75.3	19.5
7/28/2024	42.2	41.5	45.1	46.4	46.3	44.8	42.6	34.9	47.3	55.7	39.4	24.3	26.1	25.2	29.1	34.0	42.2	51.4	48.1	59.4	57.3	55.9	45.7	24.4	42.1	59.4	24.3
7/29/2024	37.8	46.1	47.3	36.5	21.2	19.6	17.0	16.3	20.2	18.8	19.5	25.2	28.3	31.4	39.1	56.1	51.4	53.7	52.8	30.9	25.4	33.5	33.1	28.9	32.9	56.1	16.3
7/30/2024	34.2	33.7	36.8	53.6	75.3	63.3	25.3	19.7	19.5	19.7	24.7	27.4	47.6	57.0	52.3	41.2	60.0	58.7	42.5	49.8	47.1	42.2	41.5	45.1	42.4	75.3	19.5
7/31/2024	46.4	46.3	44.8	42.6	34.9	47.3	55.7	39.4	24.3	26.1	25.2	29.1	34.0	42.2	51.4	48.1	59.4	57.3	55.9	45.7	24.4	27.9	45.6	29.6	41.0	59.4	24.3
Prom.	32.6	30.4	28.3	30.3	30.9	31.0	33.0	34.5	35.3	34.3	31.5	27.8	27.7	27.2	27.7	28.7	34.1	38.4	40.4	44.6	43.8	42.6	43.6	39.1			
Max.	52.8	49.8	47.3	53.6	75.3	63.3	55.7	75.3	63.3	61.3	75.3	63.3	55.7	57.0	52.3	56.1	60.0	58.7	56.1	60.0	72.2	66.1	72.0	67.7			
Min.	19.6	15.8	9.6	10.4	10.6	13.2	15.1	16.3	18.7	17.0	16.3	15.1	11.2	10.4	10.9	11.1	16.5	22.5	22.4	30.9	21.9	27.9	24.1	24.0			

Observaciones : Corte de Luz (*), Mantenimiento (**), Calibracion (***) y Otros (****)

Reporta: SGGA - GRRNyGA

TABLA : HOJA DE DATOS - DIOXIDO DE AZUFRE (SO₂)



Ciudad

: Tacna

Nombre/Número de la Estación

: EMCA-02

Ubicación

: IESTP - FRANCISCO DE PAULA GONZALES VIGIL

Equipo de Muestreo

: THERMO SCIENTIFIC - ANALIZADOR 450i

Última Calibración del Equipo

: julio - 2024

Coordenadas UTM (WGS 84)

Este

: 368367

Norte

: 8010120

Periodo

: 17 al 31 de julio

Año

: 2024

Responsable

: GORE - TACNA

Tipo de Data

: Horario

Unidades

: ug/m³

Limite de Deteccion

: --- ug/m³

HORA	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Prom.	Max.	Min.
7/17/2024	4.1	4.3	3.9	4.2	3.9	4.1	3.9	4.3	4.6	5.4	6.7	6.4	6.0	5.3	4.8	5.3	4.7	4.8	4.1	3.8	4.7	4.6	4.1	4.0	4.7	6.7	3.8
7/18/2024	3.7	4.2	3.5	4.2	3.9	4.1	3.5	5.4	5.5	5.5	4.7	6.2	12.5	9.4	6.5	5.6	4.9	4.9	5.1	4.8	5.8	7.1	7.3	7.5	5.7	12.5	3.5
7/19/2024	5.5	4.2	4.2	5.2	5.8	4.5	4.3	5.1	5.1	5.9	5.6	5.2	5.1	5.5	5.7	6.4	5.8	5.0	4.8	4.8	4.4	4.6	4.9	4.5	5.1	6.4	4.2
7/20/2024	4.4	4.4	4.1	3.8	4.2	4.6	4.3	4.1	4.3	3.7	4.8	4.6	4.4	6.7	5.9	5.6	5.6	5.6	4.4	4.4	4.6	3.7	4.3	3.9	4.6	6.7	3.7
7/21/2024	4.1	3.7	3.5	3.8	4.0	3.5	4.0	4.1	4.0	3.5	4.2	3.9	4.3	4.4	4.7	4.6	4.6	4.4	4.8	4.0	5.0	3.2	3.9	4.0	4.1	5.0	3.2
7/22/2024	4.1	3.0	3.8	3.7	4.2	3.4	3.6	3.3	3.6	4.5	4.3	4.0	4.1	5.1	6.0	4.5	5.3	4.4	2.9	4.0	3.5	3.7	4.4	4.5	4.1	6.0	2.9
7/23/2024	4.3	3.6	4.2	4.3	4.6	4.6	5.8	6.3	6.5	6.2	4.4	5.1	6.2	6.0	6.5	5.9	5.4	4.9	4.6	3.9	3.9	4.4	4.9	6.6	5.1	6.6	3.6
7/24/2024	6.1	4.9	4.3	4.3	4.6	5.0	3.9	4.4	5.6	5.8	6.6	6.0	6.0	4.7	5.6	6.5	5.5	5.0	4.5	4.5	4.8	4.2	4.8	6.0	5.2	6.6	3.9
7/25/2024	4.7	4.5	4.5	4.7	4.7	4.7	5.9	6.3	11.5	8.3	6.3	6.0	6.4	7.0	9.4	5.7	5.6	4.4	4.8	4.8	5.3	4.9	4.8	4.6	5.8	11.5	4.4
7/26/2024	4.3	4.6	4.6	5.8	6.3	6.5	6.2	4.4	5.1	6.2	6.0	6.5	5.9	5.4	4.9	4.6	3.9	3.9	4.4	4.9	6.6	6.1	4.9	4.3	5.3	6.6	3.9
7/27/2024	4.3	4.6	5.0	3.9	4.4	5.6	5.8	6.6	6.0	6.0	4.7	5.6	6.5	5.5	5.0	4.5	4.5	4.8	4.2	4.8	6.0	4.7	4.5	4.5	5.1	6.6	3.9
7/28/2024	4.7	4.7	4.7	5.9	6.3	11.5	8.3	6.3	6.0	6.4	7.0	9.4	5.7	5.6	4.4	4.8	4.8	5.3	4.9	4.8	4.6	4.6	4.2	3.8	5.8	11.5	3.8
7/29/2024	5.8	6.3	6.5	6.2	4.4	5.1	6.2	6.0	6.5	5.9	5.4	4.9	4.6	3.9	3.9	4.4	4.9	6.6	6.1	4.9	4.3	4.3	4.6	5.0	5.3	6.6	3.9
7/30/2024	3.9	4.4	5.6	5.8	6.6	6.0	6.0	4.7	5.6	6.5	5.5	5.0	4.5	4.5	4.8	4.2	4.8	6.0	4.7	4.5	4.5	4.7	4.7	4.7	5.1	6.6	3.9
7/31/2024	5.9	6.3	11.5	8.3	6.3	6.0	6.4	7.0	9.4	5.7	5.6	4.4	4.8	4.8	5.3	4.9	4.8	4.6	4.6	4.2	3.8	4.6	4.4	5.2	5.8	11.5	3.8
Prom.	4.7	4.5	4.9	4.9	5.0	5.3	5.2	5.2	6.0	5.7	5.4	5.6	5.8	5.6	5.6	5.2	5.0	5.0	4.6	4.5	4.8	4.6	4.7	4.9			
Max.	6.1	6.3	11.5	8.3	6.6	11.5	8.3	7.0	11.5	8.3	7.0	9.4	12.5	9.4	9.4	6.5	5.8	6.6	6.1	4.9	6.6	7.1	7.3	7.5			
Min.	3.7	3.0	3.5	3.7	3.9	3.4	3.5	3.3	3.6	3.5	4.2	3.9	4.1	3.9	3.9	4.2	3.9	3.9	2.9	3.8	3.5	3.2	3.9	3.8			

Observaciones : Corte de Luz (*), Mantenimiento (**), Calibracion (***) y Otros (****)

Reporta: SGGA - GRRNyGA

TABLA : HOJA DE DATOS - SULFURO DE HIDRÓGENO (H₂S)



GRRNyGA
 GERENCIA REGIONAL
 DE RECURSOS NATURALES
 Y GESTIÓN AMBIENTAL

Ciudad : Tacna
 Nombre/Número de la Estación : EMCA-02
 Ubicación : IESTP - FRANCISCO DE PAULA GONZALES VIGIL
 Equipo de Muestreo : THERMO SCIENTIFIC - ANALIZADOR 450i
 Última Calibración del Equipo : julio - 2024
 Coordenadas UTM (WGS 84)
 Este : 368367
 Norte : 8010120

Periodo : 17 al 31 de julio
 Año : 2024
 Responsable : GORE - TACNA
 Tipo de Data : Horario
 Unidades : ug/m³
 Limite de Deteccion : --- ug/m³

HORA	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Prom.	Max.	Min.
7/17/2024	3.0	2.4	3.6	3.6	3.4	3.4	3.5	3.3	2.2	2.2	1.9	1.0	0.8	0.8	1.1	1.9	2.6	4.3	4.1	3.8	1.8	3.0	5.4	2.6	2.7	5.4	0.8
7/18/2024	2.1	1.8	2.1	1.7	1.5	1.3	1.6	1.6	2.4	1.8	2.0	3.1	6.0	3.1	2.6	3.1	2.7	4.9	7.2	7.7	6.2	6.4	6.3	5.4	3.5	7.7	1.3
7/19/2024	2.1	2.2	1.6	2.3	1.3	1.2	2.1	1.6	2.0	1.7	2.3	1.5	1.5	0.9	1.5	3.5	4.8	5.2	3.2	4.6	4.1	3.0	3.7	3.7	2.6	5.2	0.9
7/20/2024	4.2	5.9	5.7	5.2	3.5	3.4	2.5	3.2	3.1	3.5	4.6	4.9	4.7	4.3	3.5	3.2	2.8	3.2	6.5	2.2	1.2	0.9	0.6	0.9	3.5	6.5	0.6
7/21/2024	1.0	2.2	2.9	3.2	2.6	1.9	1.5	1.6	1.3	1.4	1.6	2.2	2.1	1.4	1.5	1.5	1.4	3.8	3.6	4.8	8.1	6.4	5.8	3.9	2.8	8.1	1.0
7/22/2024	3.0	3.8	2.4	3.3	3.0	2.7	2.8	2.8	2.9	2.0	1.1	0.9	0.8	0.7	0.6	1.3	2.8	4.0	5.7	2.9	1.5	1.3	1.3	2.1	2.3	5.7	0.6
7/23/2024	2.4	2.3	2.5	3.7	2.9	2.9	3.0	3.2	3.0	2.1	1.3	0.9	1.1	2.0	2.0	2.2	1.2	0.9	1.4	4.2	2.7	1.9	2.6	2.5	2.3	4.2	0.9
7/24/2024	2.2	3.7	4.1	4.2	3.3	3.3	3.9	3.8	3.0	3.5	3.4	3.0	1.6	1.6	2.3	5.1	3.1	1.2	4.8	6.7	5.5	3.6	4.4	4.0	3.6	6.7	1.2
7/25/2024	3.2	4.2	4.4	3.5	3.5	3.9	3.4	3.2	3.7	4.8	4.9	4.8	4.6	5.5	5.1	4.6	4.9	6.0	8.2	6.6	4.3	3.8	5.3	5.1	4.7	8.2	3.2
7/26/2024	4.1	4.2	3.3	3.3	3.9	3.8	3.0	3.5	3.4	3.0	1.6	1.6	2.3	5.1	3.1	1.2	4.8	6.7	5.5	3.6	4.4	4.0	3.2	4.2	3.6	6.7	1.2
7/27/2024	4.4	3.5	3.5	3.9	3.4	3.2	3.7	4.8	4.9	4.8	4.6	5.5	5.1	4.6	4.9	6.0	8.2	6.6	4.3	3.8	5.3	5.1	4.7	4.7	4.7	8.2	3.2
7/28/2024	3.3	3.3	3.9	3.8	3.0	3.5	3.4	3.0	1.6	1.6	2.3	5.1	3.1	1.2	4.8	6.7	5.5	3.6	4.4	4.0	3.2	4.2	4.4	3.5	3.6	6.7	1.2
7/29/2024	3.5	3.9	3.4	3.2	3.7	4.8	4.9	4.8	4.6	5.5	5.1	4.6	4.9	6.0	8.2	6.6	4.3	3.8	5.3	5.1	4.7	4.7	4.6	4.3	4.8	8.2	3.2
7/30/2024	3.9	3.8	3.0	3.5	3.4	3.0	1.6	1.6	2.3	5.1	3.1	1.2	4.8	6.7	5.5	3.6	4.4	4.0	3.2	4.2	4.4	3.5	3.5	3.9	3.6	6.7	1.2
7/31/2024	3.4	3.2	3.7	4.8	4.9	4.8	4.6	5.5	5.1	4.6	4.9	6.0	8.2	6.6	4.3	3.8	5.3	5.1	4.7	4.7	4.6	4.3	4.4	5.8	4.9	8.2	3.2
Prom.	3.0	3.4	3.3	3.5	3.2	3.1	3.0	3.2	3.0	3.2	3.0	3.1	3.4	3.4	3.4	3.6	3.9	4.2	4.8	4.6	4.1	3.8	4.0	3.8			
Max.	4.4	5.9	5.7	5.2	4.9	4.8	4.9	5.5	5.1	5.5	5.1	6.0	8.2	6.7	8.2	6.7	8.2	6.7	8.2	7.7	8.1	6.4	6.3	5.8			
Min.	1.0	1.8	1.6	1.7	1.3	1.2	1.5	1.6	1.3	1.4	1.1	0.9	0.8	0.7	0.6	1.2	1.2	0.9	1.4	2.2	1.2	0.9	0.6	0.9			

Observaciones : Corte de Luz (*), Mantenimiento (**), Calibracion (***) y Otros (****)

Reporta: SGGA - GRRNyGA

TABLA : HOJA DE DATOS - MONOXIDO DE CARBONO (CO PROMEDIO DE UNA HORA)



Ciudad
Nombre/Número de la Estación
Ubicación
Equipo de Muestreo
Última Calibración del Equipo
Coordenadas UTM (WGS 84)

Este
Norte

: Tacna
: EMCA-02
: IESTP - FRANCISCO DE PAULA GONZALES VIGIL
: THERMO SCIENTIFIC - ANALIZADOR 48i
: julio - 2024

: 368367
: 8010120

Periodo
Año
Responsable
Tipo de Data
Unidades
Limite de Deteccion

: 17 al 31 de julio
: 2024
: GORE - TACNA
: Horario
: ug/m³
: --- ug/m³

HORA	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Prom.	Max.	Min.
7/17/2024	408.4	355.2	290.8	296.5	309.6	322.2	329.4	352.9	415.8	454.8	407.3	325.1	304.6	283.7	271.4	267.3	288.3	340.9	365.8	372.0	364.7	343.3	317.1	326.9	338.1	454.8	267.3
7/18/2024	331.9	319.4	289.5	292.3	265.9	285.6	356.2	553.2	880.7	495.9	571.8	382.7	352.3	388.2	292.4	261.7	271.2	320.4	338.7	438.5	666.0	766.9	1105.3	1095.8	471.8	1105.3	261.7
7/19/2024	325.0	345.8	362.9	609.8	385.0	309.7	517.3	543.2	594.1	801.8	628.9	438.8	499.3	377.0	354.8	310.0	332.1	371.3	387.0	460.5	464.8	459.5	503.8	462.9	451.9	801.8	309.7
7/20/2024	400.9	334.6	329.7	315.6	373.5	355.2	380.5	368.0	358.1	410.3	489.6	430.7	417.0	369.1	342.3	346.9	389.6	417.7	460.2	488.6	449.6	434.9	391.8	385.8	393.3	489.6	315.6
7/21/2024	367.1	342.8	342.5	327.0	312.4	321.5	329.7	354.7	348.2	394.3	391.8	355.3	320.6	303.3	306.3	285.0	304.5	344.3	357.0	422.2	374.5	416.8	442.8	403.1	352.8	442.8	285.0
7/22/2024	406.1	376.6	371.9	399.3	413.9	419.1	434.0	475.3	495.7	505.6	416.3	425.7	439.9	417.2	465.1	390.9	415.5	430.6	497.0	490.6	472.3	448.0	482.4	492.4	440.9	505.6	371.9
7/23/2024	497.6	484.5	434.4	451.6	516.7	586.8	768.5	989.0	784.8	590.6	462.4	444.2	430.0	408.3	427.8	400.6	404.9	427.3	460.7	475.6	502.6	630.9	675.9	745.9	541.7	989.0	400.6
7/24/2024	738.8	539.8	498.0	564.0	557.0	518.4	574.5	591.6	740.4	905.2	1000.6	822.1	482.6	443.3	446.4	452.6	463.7	486.5	596.8	643.4	649.6	557.3	672.1	734.1	611.6	1000.6	443.3
7/25/2024	617.4	698.7	703.3	647.2	655.0	739.3	802.8	838.7	810.1	796.4	687.3	757.6	780.4	649.9	533.0	505.4	502.2	523.4	552.6	592.5	713.2	655.6	721.3	703.1	674.4	838.7	502.2
7/26/2024	451.6	516.7	586.8	768.5	989.0	784.8	590.6	462.4	444.2	430.0	408.3	427.8	400.6	404.9	427.3	460.7	475.6	502.6	630.9	675.9	745.9	738.8	539.8	498.0	556.7	989.0	400.6
7/27/2024	564.0	557.0	518.4	574.5	591.6	740.4	905.2	1000.6	822.1	482.6	443.3	446.4	452.6	463.7	486.5	596.8	643.4	649.6	557.3	672.1	734.1	617.4	698.7	703.3	621.7	1000.6	443.3
7/28/2024	647.2	655.0	739.3	802.8	838.7	810.1	796.4	687.3	757.6	780.4	649.9	533.0	505.4	502.2	523.4	552.6	592.5	713.2	655.6	721.3	703.1	743.0	696.6	569.2	674.0	838.7	502.2
7/29/2024	768.5	989.0	784.8	590.6	462.4	444.2	430.0	408.3	427.8	400.6	404.9	427.3	460.7	475.6	502.6	630.9	675.9	745.9	738.8	539.8	498.0	564.0	557.0	518.4	560.3	989.0	400.6
7/30/2024	574.5	591.6	740.4	905.2	1000.6	822.1	482.6	443.3	446.4	452.6	463.7	486.5	596.8	643.4	649.6	557.3	672.1	734.1	617.4	698.7	703.3	647.2	655.0	739.3	638.5	1000.6	443.3
7/31/2024	802.8	838.7	810.1	796.4	687.3	757.6	780.4	649.9	533.0	505.4	502.2	523.4	552.6	592.5	713.2	655.6	721.3	703.1	743.0	696.6	569.2	601.4	750.3	616.7	670.9	838.7	502.2
Prom.	454.8	421.9	402.6	433.7	421.0	428.7	499.2	562.9	603.1	595.0	561.8	486.9	447.4	404.4	382.2	357.8	374.7	406.9	446.2	487.1	517.5	523.7	590.3	594.4			
Max.	738.8	698.7	703.3	647.2	655.0	739.3	802.8	989.0	880.7	905.2	1000.6	822.1	780.4	649.9	533.0	505.4	502.2	523.4	596.8	643.4	713.2	766.9	1105.3	1095.8			
Min.	325.0	319.4	289.5	292.3	265.9	285.6	329.4	352.9	348.2	394.3	391.8	325.1	304.6	283.7	271.4	261.7	271.2	320.4	338.7	372.0	364.7	343.3	317.1	326.9			

Observaciones : Corte de Luz (*), Mantenimiento (**), Calibracion (***) y Otros (****)

Reporta: SGGA - GRRNyGA

TABLA : HOJA DE DATOS - MONOXIDO DE CARBONO (CO MEDIA MOVIL DE 8 HORAS)



GRRNyGA
 GERENCIA REGIONAL
 DE RECURSOS NATURALES
 Y GESTIÓN AMBIENTAL

Ciudad : Tacna
 Nombre/Número de la Estación : EMCA-02
 Ubicación : IESTP - FRANCISCO DE PAULA GONZALES VIGIL
 Equipo de Muestreo : THERMO SCIENTIFIC - ANALIZADOR 48i
 Última Calibración del Equipo : julio - 2024
 Coordenadas UTM (WGS 84)
 Este : 368367
 Norte : 8010120

Periodo : 17 al 31 de julio
 Año : 2024
 Responsable : GORE - TACNA
 Tipo de Data : Horario
 Unidades : ug/m³
 Limite de Deteccion : --- ug/m³

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HORA	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Prom.	Max.	Min.
7/17/2024	****	****	****	****	****	330.4	317.3	333.1	334.0	346.5	361.1	364.6	364.0	359.2	352.0	341.3	325.3	311.1	305.9	311.8	319.3	326.7	332.4	339.9	335.6	364.6	305.9
7/18/2024	345.3	342.6	333.1	323.1	310.8	303.6	308.5	336.7	405.4	427.4	462.7	474.0	484.8	497.6	489.6	453.2	377.0	355.1	325.9	332.9	372.1	419.5	521.1	625.4	401.1	625.4	303.6
7/19/2024	632.1	635.3	638.3	659.7	624.6	567.4	493.9	424.8	458.5	515.5	548.7	527.4	541.6	550.1	529.7	500.6	467.8	414.0	383.8	386.5	382.2	392.5	411.1	430.2	504.8	659.7	382.2
7/20/2024	438.8	434.2	427.1	409.0	397.6	384.5	369.1	357.3	351.9	361.4	381.4	395.7	401.2	402.9	398.1	395.5	399.4	400.4	396.7	403.9	408.0	416.2	422.4	427.3	399.2	438.8	351.9
7/21/2024	424.5	415.1	400.4	380.2	363.0	348.8	341.1	337.2	334.8	341.3	347.4	351.0	352.0	349.7	346.8	338.1	332.6	326.4	322.1	330.4	337.1	351.3	368.4	383.1	355.1	424.5	322.1
7/22/2024	395.8	399.9	401.7	398.9	403.8	404.1	403.0	412.0	423.2	439.3	444.9	448.2	451.4	451.2	455.1	444.5	434.5	425.1	435.2	443.3	447.4	451.2	453.4	466.1	430.6	466.1	395.8
7/23/2024	476.4	483.1	475.3	470.4	476.0	493.3	529.1	591.1	627.0	640.3	643.8	642.9	632.0	609.7	567.1	493.6	446.1	425.7	425.5	429.4	438.5	466.3	497.3	540.5	521.7	643.8	425.5
7/24/2024	582.2	596.3	600.9	612.0	618.8	604.7	592.1	572.8	573.0	618.6	681.5	713.7	704.4	695.0	679.0	661.7	627.1	574.7	524.2	501.9	522.8	537.0	565.2	600.4	606.7	713.7	501.9
7/25/2024	619.6	646.2	659.5	660.0	660.6	683.4	699.7	712.8	736.9	749.1	747.1	760.9	776.6	765.4	731.7	690.0	651.5	617.4	600.6	579.9	571.5	572.2	595.8	620.5	671.2	776.6	571.5
7/26/2024	470.4	476.0	493.3	529.1	591.1	627.0	640.3	643.8	642.9	632.0	609.7	567.1	493.6	446.1	425.7	425.5	429.4	438.5	466.3	497.3	540.5	582.2	596.3	600.9	536.0	643.8	425.5
7/27/2024	612.0	618.8	604.7	592.1	572.8	573.0	618.6	681.5	713.7	704.4	695.0	679.0	661.7	627.1	574.7	524.2	501.9	522.8	537.0	565.2	600.4	619.6	646.2	659.5	612.8	713.7	501.9
7/28/2024	660.0	660.6	683.4	699.7	712.8	736.9	749.1	747.1	760.9	776.6	765.4	731.7	690.0	651.5	617.4	600.6	579.9	571.5	572.2	595.8	620.5	650.6	672.2	674.3	674.2	776.6	571.5
7/29/2024	529.1	591.1	627.0	640.3	643.8	642.9	632.0	609.7	567.1	493.6	446.1	425.7	425.5	429.4	438.5	466.3	497.3	540.5	582.2	596.3	600.9	612.0	618.8	604.7	552.5	643.8	425.5
7/30/2024	592.1	572.8	573.0	618.6	681.5	713.7	704.4	695.0	679.0	661.7	627.1	574.7	524.2	501.9	522.8	537.0	565.2	600.4	619.6	646.2	659.5	660.0	660.6	683.4	619.8	713.7	501.9
7/31/2024	699.7	712.8	736.9	749.1	747.1	760.9	776.6	765.4	731.7	690.0	651.5	617.4	600.6	579.9	571.5	572.2	595.8	620.5	650.6	672.2	674.3	675.4	680.0	675.2	675.3	776.6	571.5
Prom.	534.1	541.8	546.8	553.0	557.4	545.0	545.0	548.0	556.0	559.8	560.9	551.6	540.2	527.8	513.3	496.3	482.1	476.3	476.5	486.2	499.7	515.5	536.1	555.4			
Max.	699.7	712.8	736.9	749.1	747.1	760.9	776.6	765.4	760.9	776.6	765.4	760.9	776.6	765.4	731.7	690.0	651.5	620.5	650.6	672.2	674.3	675.4	680.0	683.4			
Min.	345.3	342.6	333.1	323.1	310.8	303.6	308.5	333.1	334.0	341.3	347.4	351.0	352.0	349.7	346.8	338.1	325.3	311.1	305.9	311.8	319.3	326.7	332.4	339.9			

Observaciones : Corte de Luz (*), Mantenimiento (**), Calibracion (***) y Otros (****)

Reporta: SGGA - GRRNyGA

TABLA : HOJA DE DATOS - OZONO TROPOSFÉRICO (O₃)



Ciudad : Tacna
Nombre/Número de la Estación : EMCA-02
Ubicación : IESTP - FRANCISCO DE PAULA GONZALES VIGIL
Equipo de Muestreo : THERMO SCIENTIFIC - ANALIZADOR 48i
Última Calibración del Equipo : julio - 2024
Coordenadas UTM (WGS 84)
 Este : 368367
 Norte : 8010120

Periodo : 17 al 31 de julio
Año : 2024
Responsable : GORE - TACNA
Tipo de Data : Horario
Unidades : ug/m³
Limite de Deteccion : --- ug/m³

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HORA	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Prom.	Max.	Min.
7/17/2024	****	****	****	****	****	28.6	29.7	27.2	27.2	26.0	25.2	25.7	27.0	28.7	30.5	33.3	36.6	38.9	39.3	38.2	36.8	35.6	34.8	33.0	31.7	39.3	25.2
7/18/2024	31.1	30.6	30.9	31.5	32.8	32.9	30.6	27.8	25.0	23.8	22.9	23.9	25.5	28.6	33.2	38.1	42.2	43.4	43.7	40.4	34.3	27.6	21.3	16.0	30.8	43.7	16.0
7/19/2024	13.7	12.0	10.6	9.2	11.0	14.3	14.7	14.9	13.2	12.3	12.5	15.8	17.8	19.7	24.7	29.5	33.7	36.0	36.2	34.3	31.7	27.4	23.0	19.0	20.3	36.2	9.2
7/20/2024	16.1	15.8	16.5	18.2	19.0	20.4	21.4	22.4	22.7	21.9	20.8	20.7	22.9	25.4	28.5	31.9	34.5	36.7	36.9	35.3	33.0	30.0	27.6	24.7	25.1	36.9	15.8
7/21/2024	22.4	21.1	22.3	24.3	26.3	28.0	29.0	29.5	30.0	29.7	29.9	30.4	31.3	33.0	35.2	38.1	40.4	41.9	42.0	40.6	38.9	36.2	32.7	29.4	31.8	42.0	21.1
7/22/2024	26.4	25.2	24.6	24.5	23.4	23.0	22.4	21.0	19.6	18.2	18.5	20.1	22.6	26.1	30.5	35.0	39.0	40.9	39.7	37.8	35.4	31.9	27.6	23.2	27.4	40.9	18.2
7/23/2024	19.1	17.0	17.3	17.2	16.2	14.3	12.7	11.4	11.3	12.5	14.0	16.8	20.8	26.1	32.2	37.4	40.9	42.0	40.9	38.3	34.7	29.2	23.2	17.8	23.5	42.0	11.3
7/24/2024	13.2	10.9	9.7	8.2	7.4	8.3	8.7	9.1	10.1	10.0	10.4	13.0	17.1	21.3	27.3	33.1	37.3	40.1	40.1	37.6	33.9	30.2	23.9	17.8	19.9	40.1	7.4
7/25/2024	13.5	9.6	7.9	7.5	6.7	5.1	5.0	5.1	5.1	6.2	8.3	11.1	15.0	20.3	26.5	32.5	36.7	39.2	39.4	38.1	35.0	30.9	24.9	19.0	18.7	39.4	5.0
7/26/2024	17.2	16.2	14.3	12.7	11.4	11.3	12.5	14.0	16.8	20.8	26.1	32.2	37.4	40.9	42.0	40.9	38.3	34.7	29.2	23.2	17.8	13.2	10.9	9.7	22.7	42.0	9.7
7/27/2024	8.2	7.4	8.3	8.7	9.1	10.1	10.0	10.4	13.0	17.1	21.3	27.3	33.1	37.3	40.1	40.1	37.6	33.9	30.2	23.9	17.8	13.5	9.6	7.9	19.8	40.1	7.4
7/28/2024	7.5	6.7	5.1	5.0	5.1	5.1	6.2	8.3	11.1	15.0	20.3	26.5	32.5	36.7	39.2	39.4	38.1	35.0	30.9	24.9	19.0	14.0	10.7	10.2	18.8	39.4	5.0
7/29/2024	12.7	11.4	11.3	12.5	14.0	16.8	20.8	26.1	32.2	37.4	40.9	42.0	40.9	38.3	34.7	29.2	23.2	17.8	13.2	10.9	9.7	8.2	7.4	8.3	21.7	42.0	7.4
7/30/2024	8.7	9.1	10.1	10.0	10.4	13.0	17.1	21.3	27.3	33.1	37.3	40.1	40.1	37.6	33.9	30.2	23.9	17.8	13.5	9.6	7.9	7.5	6.7	5.1	19.6	40.1	5.1
7/31/2024	5.0	5.1	5.1	6.2	8.3	11.1	15.0	20.3	26.5	32.5	36.7	39.2	39.4	38.1	35.0	30.9	24.9	19.0	14.0	10.7	10.2	10.0	8.8	9.0	19.2	39.4	5.0
Prom.	15.3	14.1	13.9	14.0	14.4	16.2	17.0	17.9	19.4	21.1	23.0	25.7	28.2	30.5	32.9	34.6	35.2	34.5	32.6	29.6	26.4	23.0	19.5	16.7			
Max.	31.1	30.6	30.9	31.5	32.8	32.9	30.6	29.5	32.2	37.4	40.9	42.0	40.9	40.9	42.0	40.9	42.2	43.4	43.7	40.6	38.9	36.2	34.8	33.0			
Min.	5.0	5.1	5.1	5.0	5.1	5.1	5.0	5.1	5.1	6.2	8.3	11.1	15.0	19.7	24.7	29.2	23.2	17.8	13.2	9.6	7.9	7.5	6.7	5.1			

Observaciones : Corte de Luz (*), Mantenimiento (**), Calibracion (***) y Otros (****)

Reporta: SGGA - GRRNyGA