CONSORZIO
LaMMA

meteo

REPORT METEOROLOGICO

Agosto 2018

Per info: previsori@lamma.rete.toscana.it

Consorzio LaMMA - Laboratorio di Monitoraggio e Modellistica Ambientale

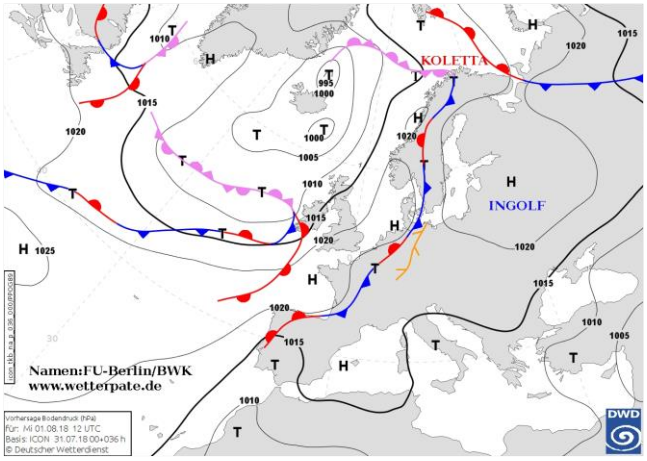
CONSORZIO LaMMA

Regione Toscana

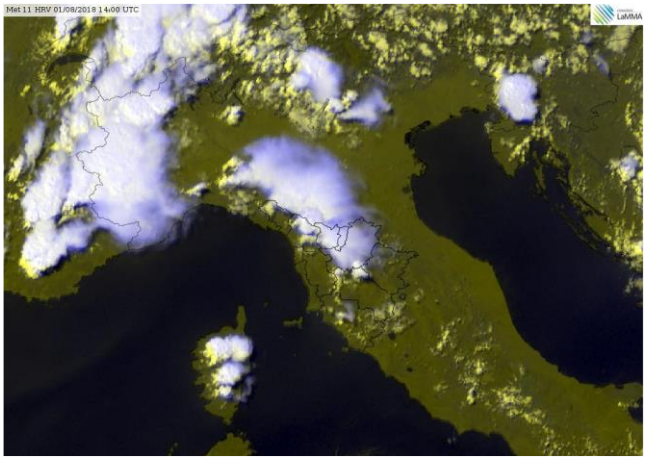
Consiglio Nazionale delle Ricerche

Mercoledi' 1 Agosto 2018

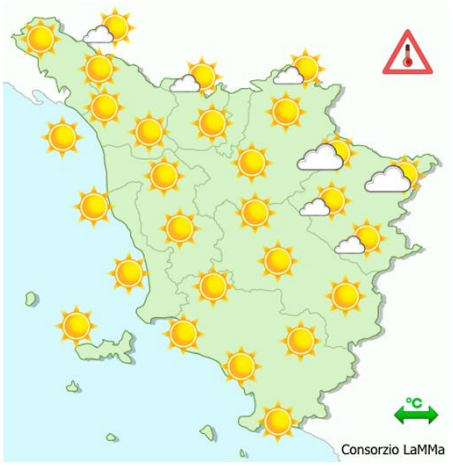
Situazione: un promontorio anticiclonico di matrice afro-mediterranea si estende dalla penisola iberica all'Italia centro settentrionale garantendo condizioni di stabilità. L'alta pressione tende a disporsi maggiormente sui meridiani e favorisce infiltrazioni d'aria fredda in quota dapprima sulle regioni settentrionali e successivamente su quelle centro meridionali.



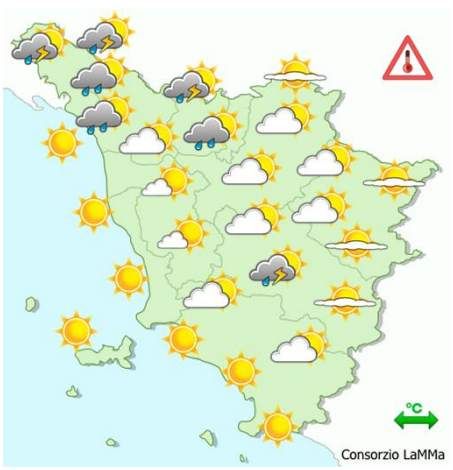
Pressione al suolo e fronti del 01 Agosto alle 12 UTC


Meteosat HRV del 01 Agosto alle 14 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso in mattinata con addensamenti sulla provincia di Arezzo in graduale attenuazione. Aumento di nubi cumuliformi durante le ore pomeridiane sulle zone interne, in particolare sull'Appennino settentrionale, Chianti senese, Metallifere e M. Amiata.

Fenomeni: temporali pomeridiani sull'Appennino settentrionale, parte del Chianti senese e Colline Metallifere. Massimi in Appennino fino a 30-40 mm.

Venti: deboli settentrionali con rinforzi di Maestrale nel pomeriggio e in serata su costa e Arcipelago.

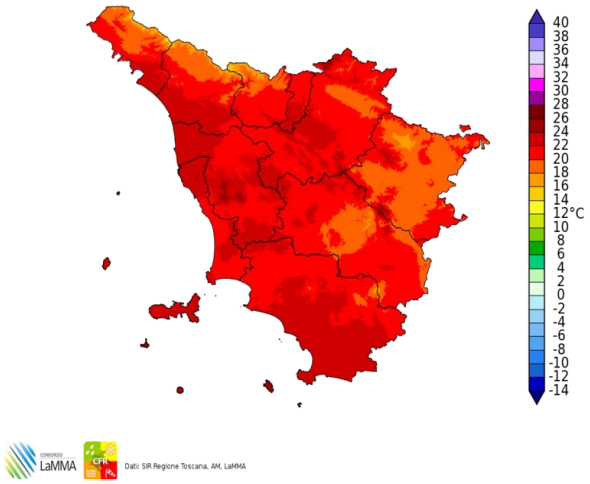
Mari: poco mossi o localmente mossi a sud dell'Elba.

Temperature: in ulteriore aumento, ben al di sopra delle medie stagionali.

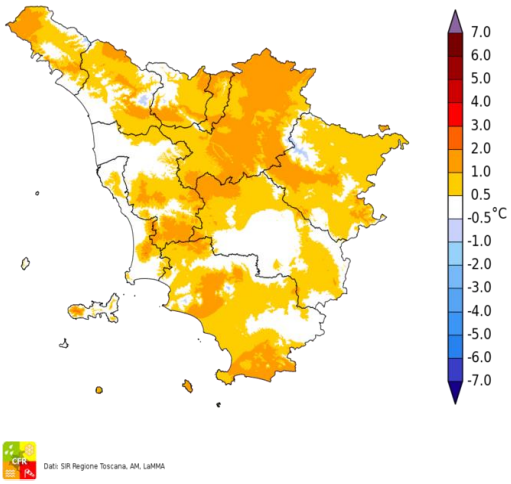
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	20	22	24	N.D.	22	24	21	22	24	24
	anomalia*	5	3	6	N.D.	4	4	3	3	4	5
T. max	osservata	35	39	39	N.D.	37	33	35	36	38	36
	anomalia*	3	6	7	N.D.	5	3	4	3	6	5
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

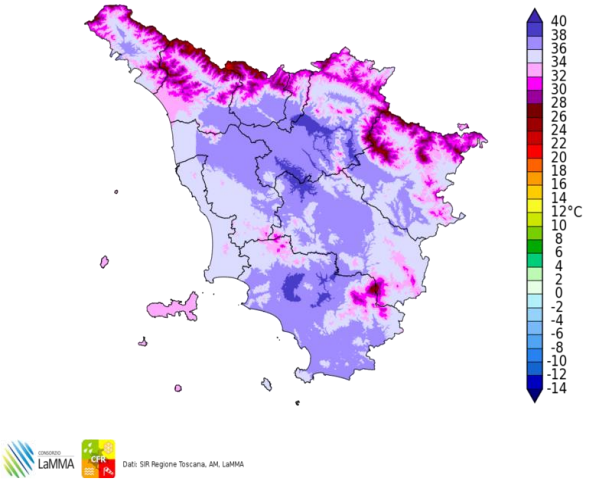
Temperatura Minima del 01/08/2018



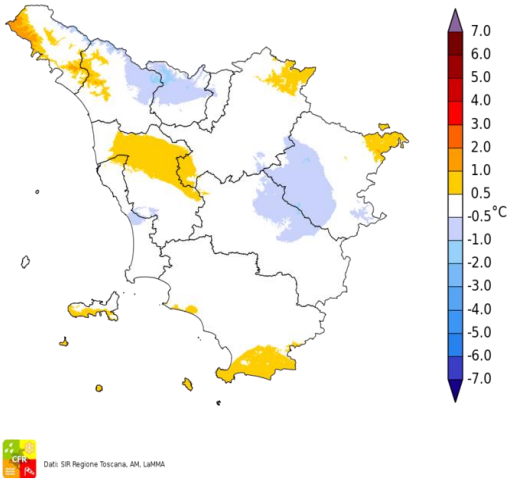
Differenza della Temperatura Minima tra 01/08/2018 e 31/07/2018



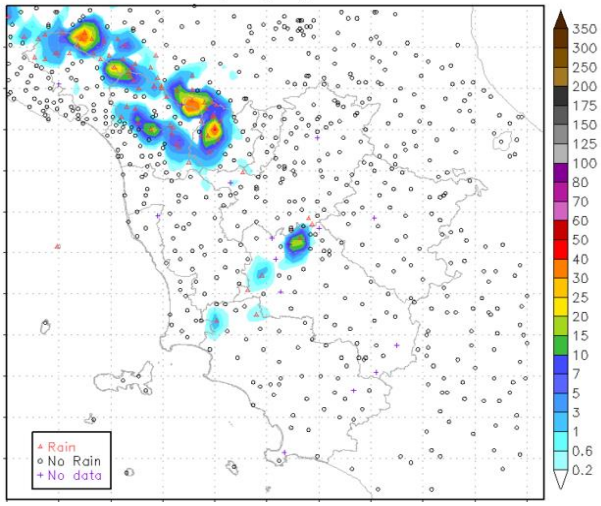
Temperatura Massima del 01/08/2018



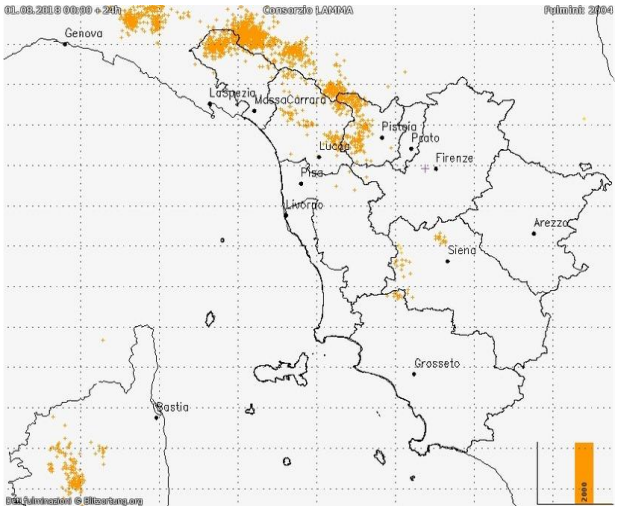
Differenza della Temperatura Massima tra 01/08/2018 e 31/07/2018



Total Precipitation [mm] cumulated on Wed, 01/08/2018

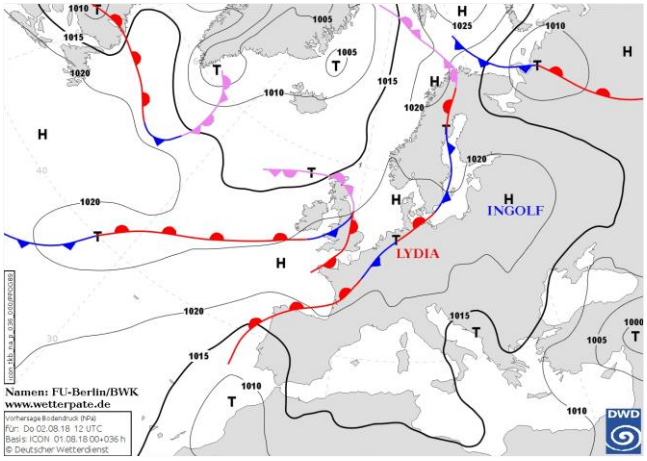


Fulminazioni osservate il giorno 01 Agosto

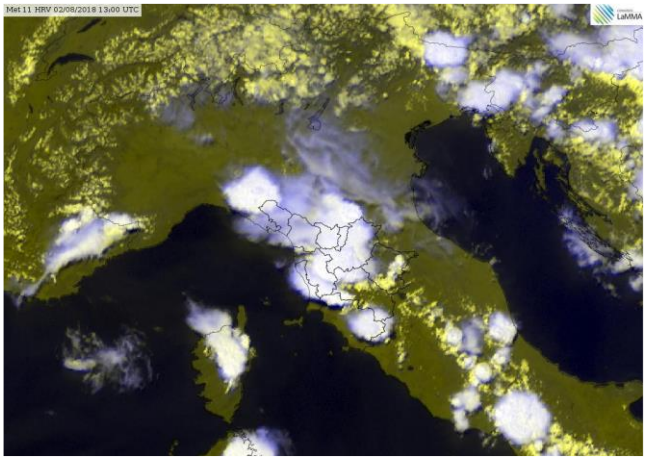


Giovedi' 2 Agosto 2018

Situazione: alta pressione sull'Europa occidentale; sul bordo orientale del promontorio anticiclonico, e cioè sul Mediterraneo centrale, affluisce aria più fresca alla media troposfera che favorisce condizioni di locale instabilità.

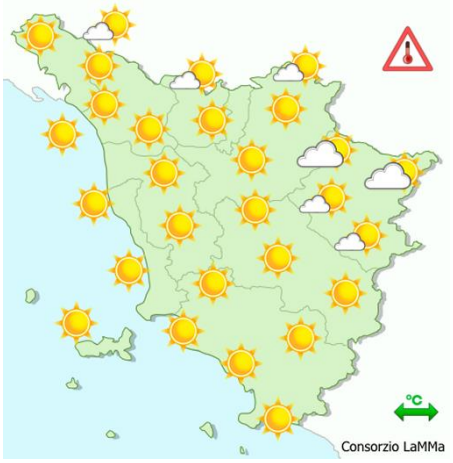


Pressione al suolo e fronti del 02 Agosto alle 12 UTC

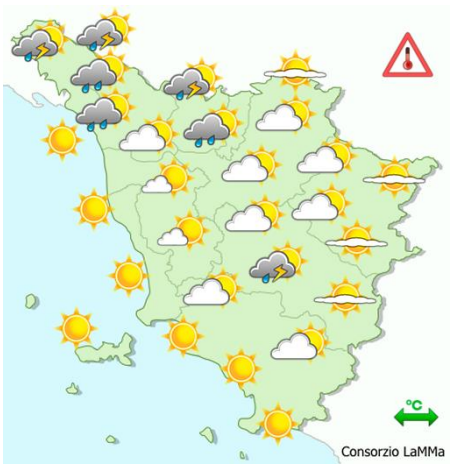


Meteosat HRV del 02 Agosto alle 13 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno con sviluppo di nubi cumuliformi dalla tarda mattina a partire dalle zone appenniniche.

Fenomeni: temporali sparsi di breve durata su gran parte della regione, localmente associati a grandine e colpi di vento.

Venti: deboli da nord-est nell'interno, da nord-ovest sulla costa.

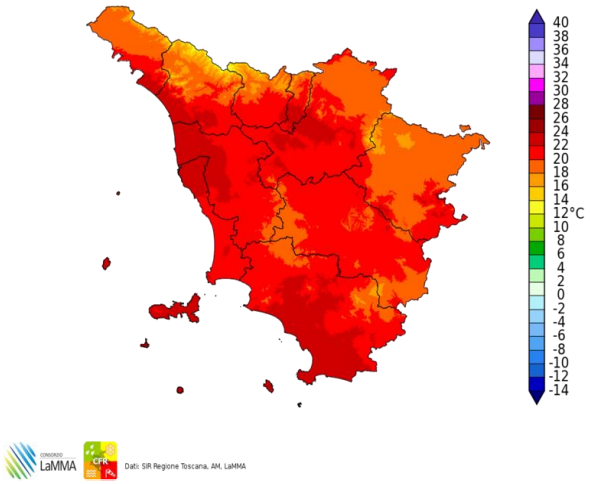
Mari: poco mossi, o localmente mossi a largo a sud dell'Elba.

Temperature: in calo.

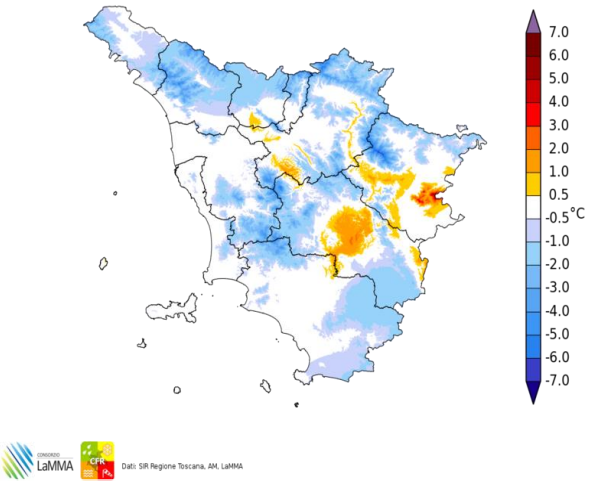
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	20	22	23	N.D.	22	24	22	21	24	22
	anomalia*	5	4	4	N.D.	4	4	4	3	4	4
T. max	osservata	32	35	34	N.D.	36	32	32	35	35	36
	anomalia*	0	3	3	N.D.	4	2	2	3	3	5
Precipitazione (mm/24ore)		0	4	0	0	0	0	0	2	9	1

*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

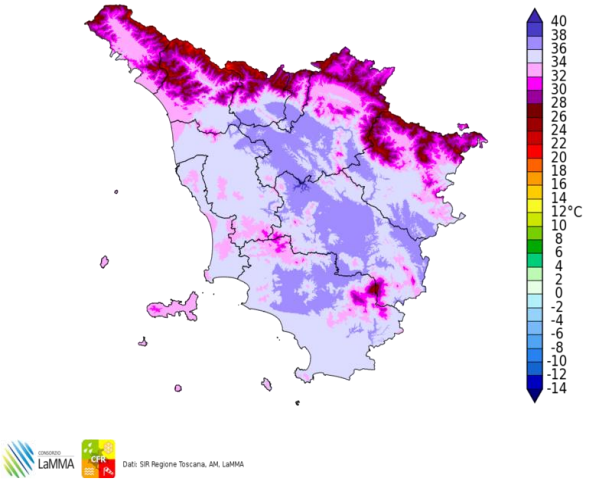
Temperatura Minima del 02/08/2018



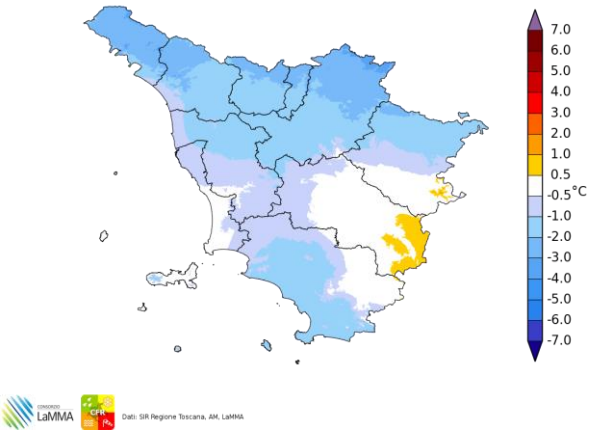
Differenza della Temperatura Minima tra 02/08/2018 e 01/08/2018



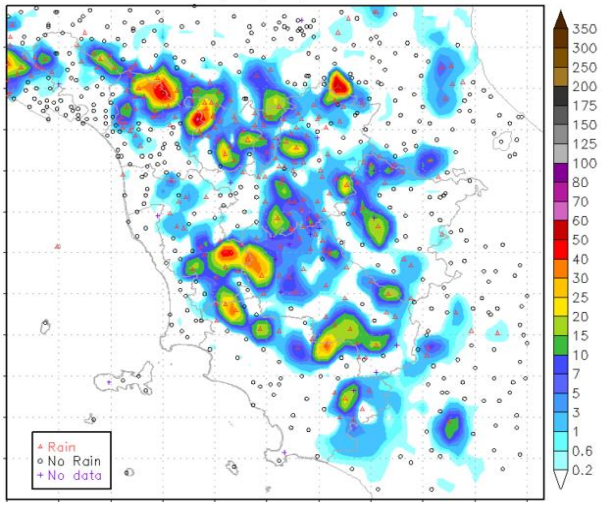
Temperatura Massima del 02/08/2018



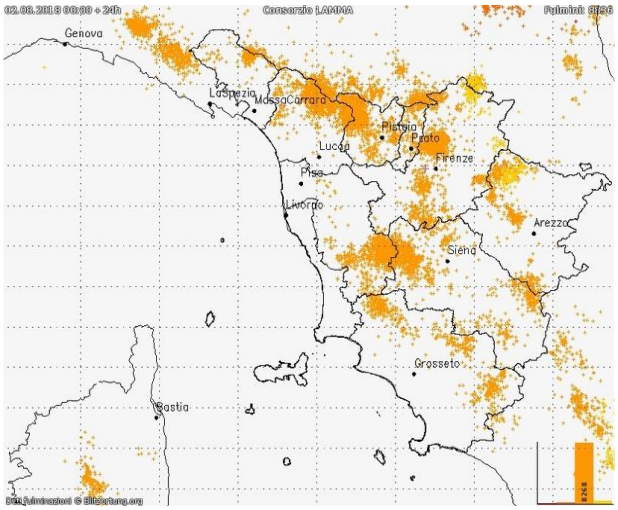
Differenza della Temperatura Massima tra 02/08/2018 e 01/08/2018



Total Precipitation [mm] cumulated on Thu, 02/08/2018

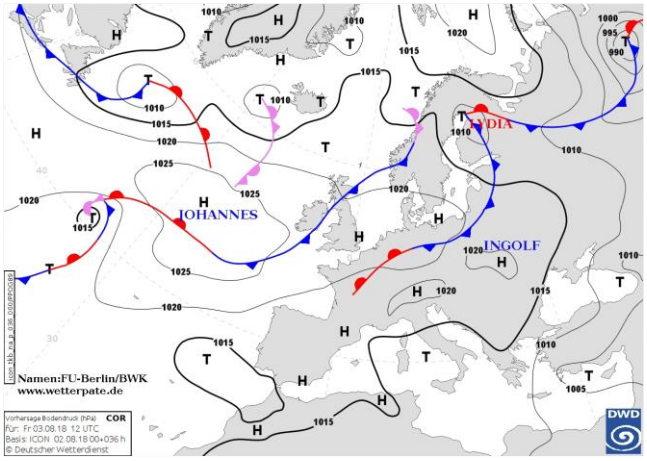


Fulminazioni osservate il giorno 02 Agosto

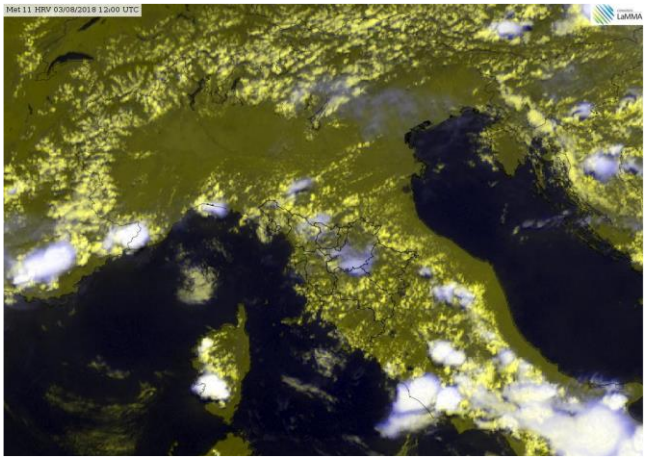


Venerdi' 3 Agosto 2018

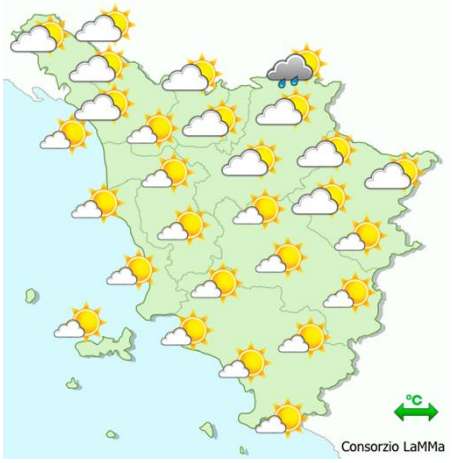
Situazione: alta pressione sull'Europa centrale e sul Mediterraneo occidentale, mentre sul Mediterraneo centrale affluisce aria più fresca alla media troposfera che favorisce condizioni di instabilità sul centro-sud Italia. Un minimo al suolo tra mar Ionio e mar Egeo determina l'afflusso di correnti di Grecale più asciutte rispetto ai giorni precedenti.



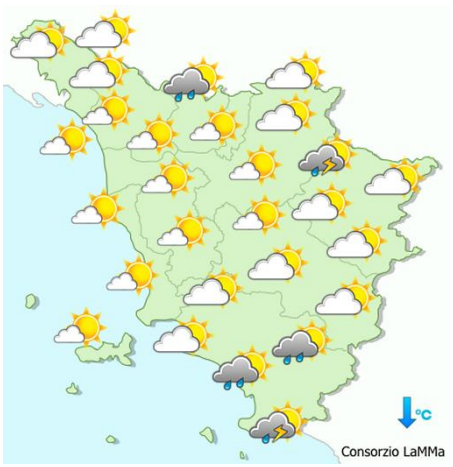
Pressione al suolo e fronti del 03 Agosto alle 12 UTC


Meteosat HRV del 03 Agosto alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: parzialmente nuvoloso al primo mattino, con ampi rasserenamenti tra metà mattinata e primo pomeriggi; da metà pomeriggio sviluppo di addensamenti compatti sul grossetano in particolare.

Fenomeni: rovesci mattutini su Appennino orientale, temporali pomeridiani sul grossetano.

Venti: di Grecale, tra deboli e moderati nell'interno con locali rinforzi sui rilievi, da nord, nord-ovest sulla costa.

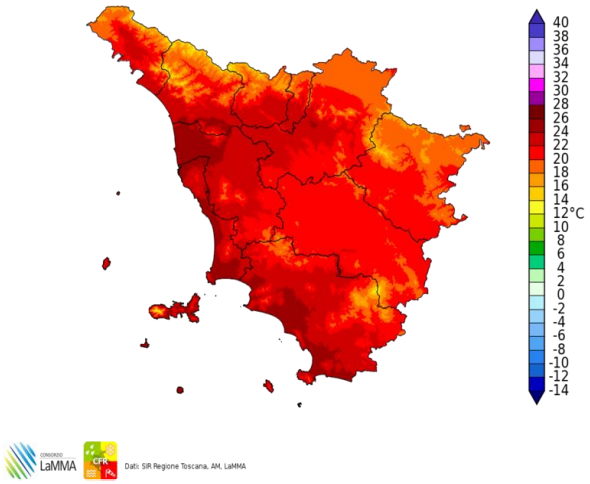
Mari: poco mossi o temporaneamente mossi nel pomeriggio al largo e a sud dell'Elba.

Temperature: massime in lieve calo.

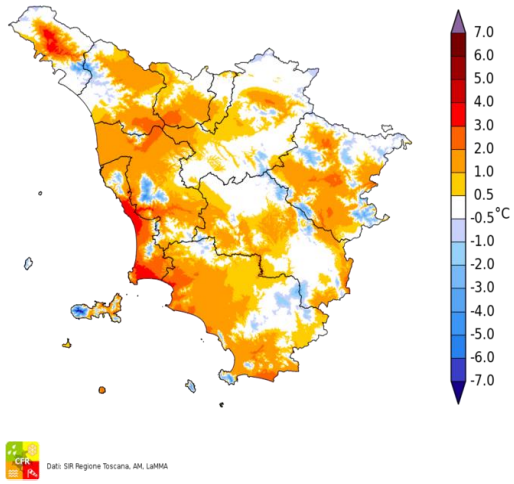
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	23	24	23	N.D.	21	24	21	22	26	22
	anomalia*	8	5	5	N.D.	3	4	3	4	6	4
T. max	osservata	28	30	32	N.D.	34	35	31	32	33	32
	anomalia*	-4	-3	0	N.D.	3	5	0	0	0	1
Precipitazione (mm/24ore)		N.D.	0	0	0	0	0	N.D.	0	0	0

*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

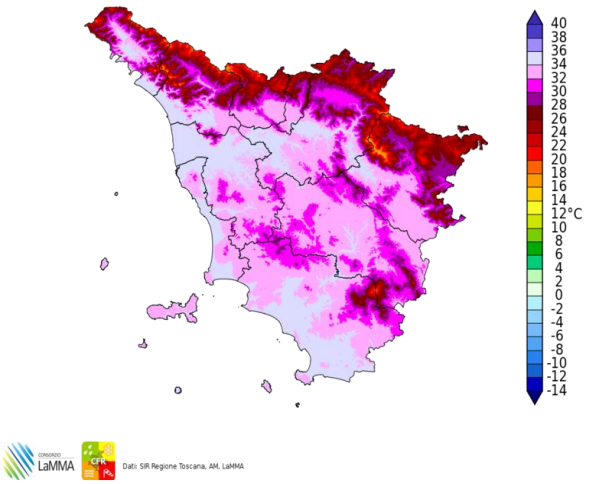
Temperatura Minima del 03/08/2018



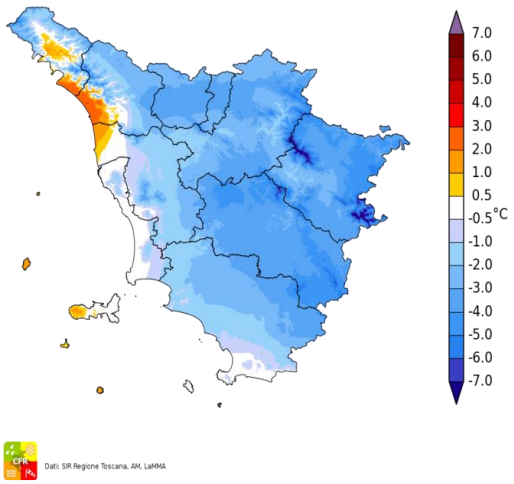
Differenza della Temperatura Minima tra 03/08/2018 e 02/08/2018



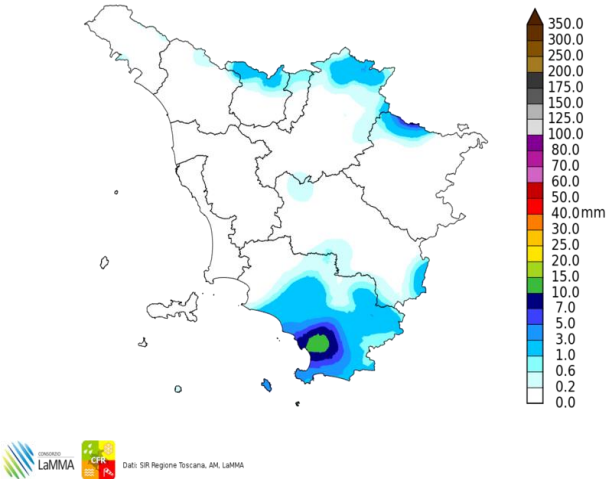
Temperatura Massima del 03/08/2018



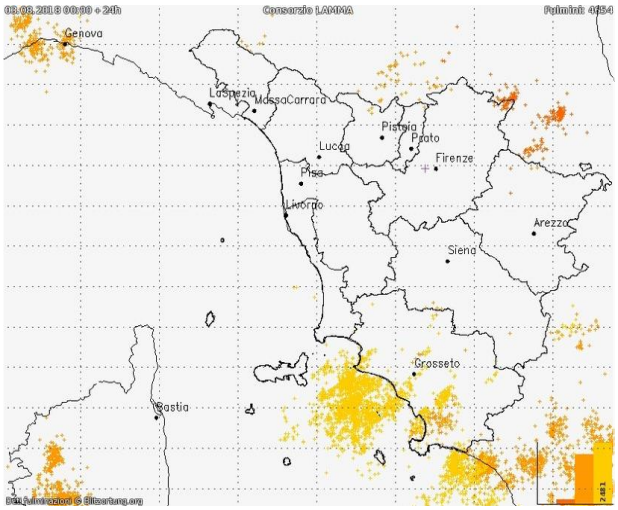
Differenza della Temperatura Massima tra 03/08/2018 e 02/08/2018



Precipitazione del 03/08/2018

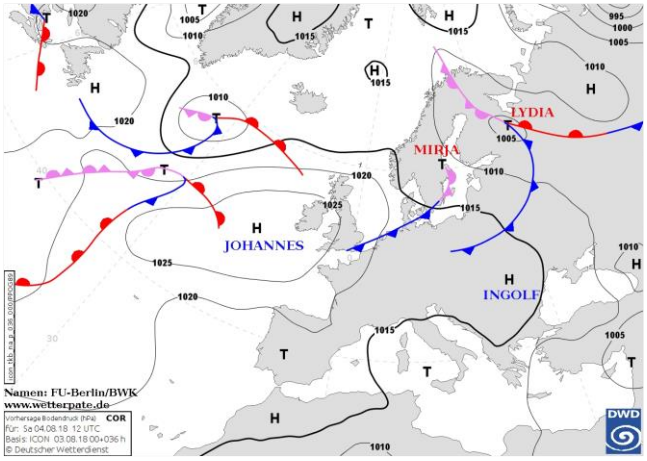


Fulminazioni osservate il giorno 03 Agosto

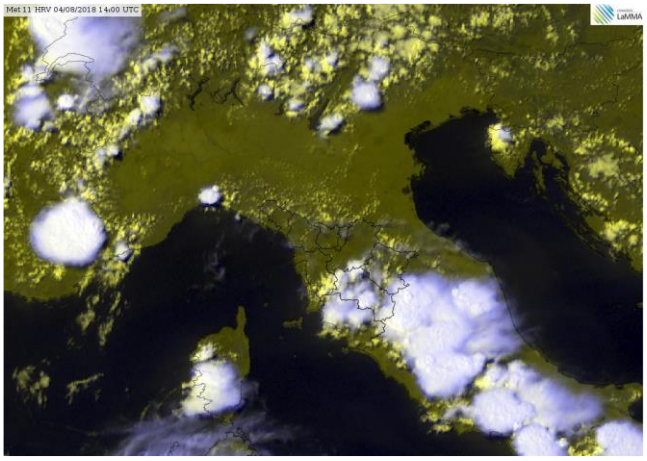


Sabato 4 Agosto 2018

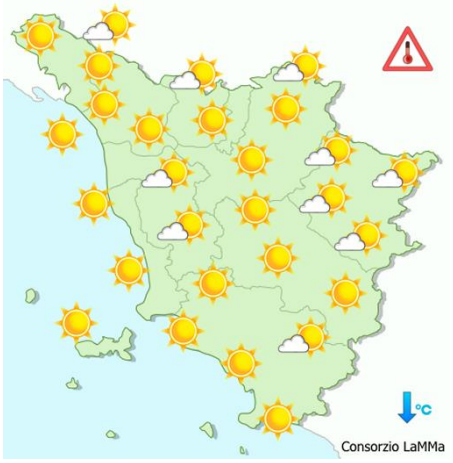
Situazione: alta pressione su Isole Britanniche e gran parte dell'Europa centrale, mentre sul Mediterraneo centrale affluiscono correnti nord orientali per la presenza di un minimo tra Mar Ionio e Mar Egeo.



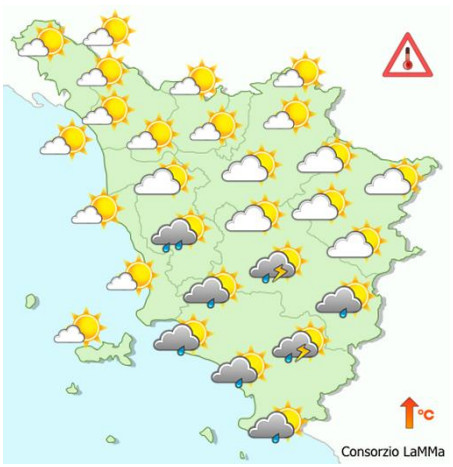
Pressione al suolo e fronti del 04 Agosto alle 12 UTC


Meteosat HRV del 04 Agosto alle 14 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: bel tempo al mattino. Sviluppo di nubi cumuliformi nel pomeriggio in particolare al centro-sud.

Fenomeni: locali e brevi temporali pomeridiani nelle province di Siena, Grosseto, Livorno e Pisa.

Venti: settentrionali, deboli nell'interno, fino a moderati di Maestrale sulla costa nel corso del pomeriggio.

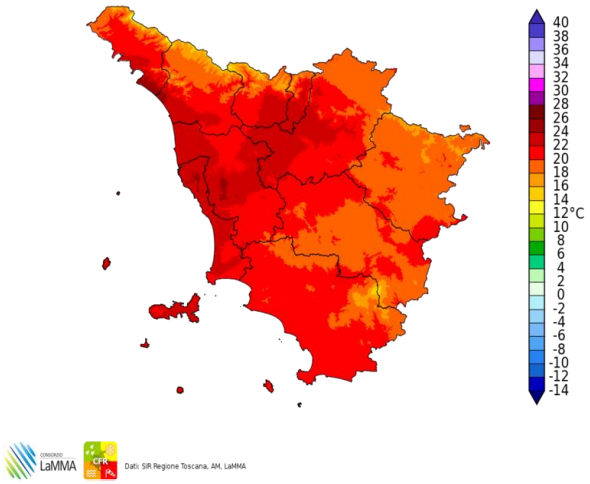
Mari: poco mossi (temporaneamente mossi nel pomeriggio sottocosta).

Temperature: minime in calo e massime in aumento.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	21	23	21	N.D.	22	25	22	22	24	22
	anomalia*	5	4	3	N.D.	3	6	3	4	5	3
T. max	osservata	34	35	33	N.D.	36	33	35	34	35	34
	anomalia*	2	2	2	N.D.	5	3	4	2	3	4
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	23

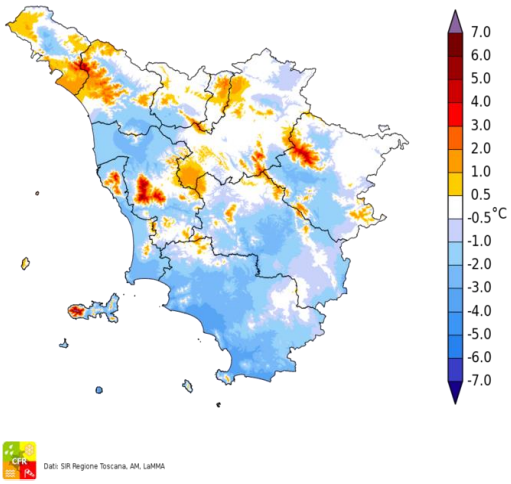
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 04/08/2018



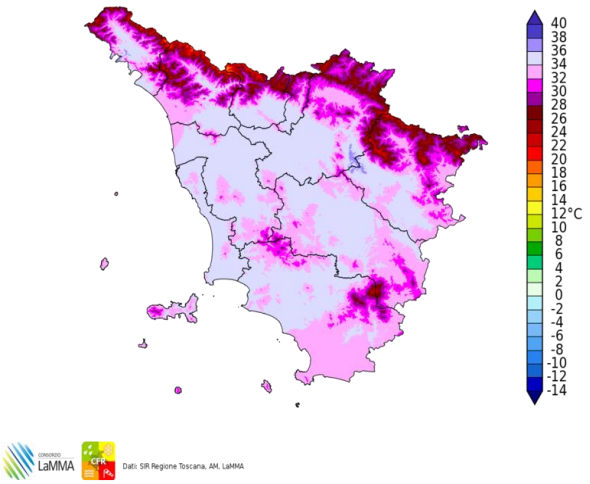
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 04/08/2018 e 03/08/2018



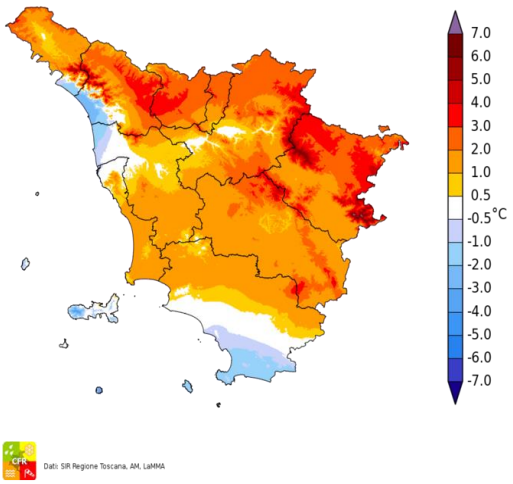
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 04/08/2018



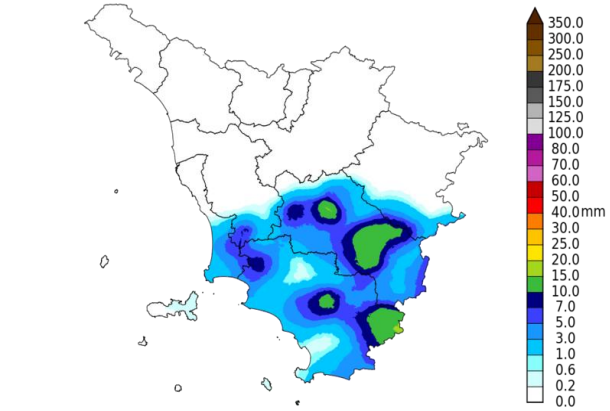
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 04/08/2018 e 03/08/2018



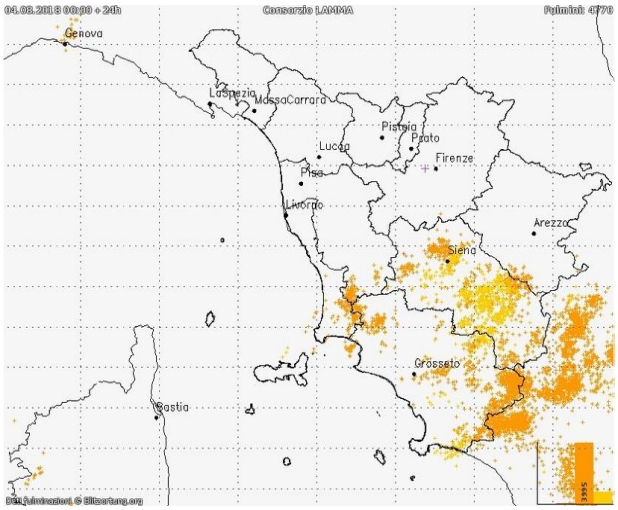
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 04/08/2018



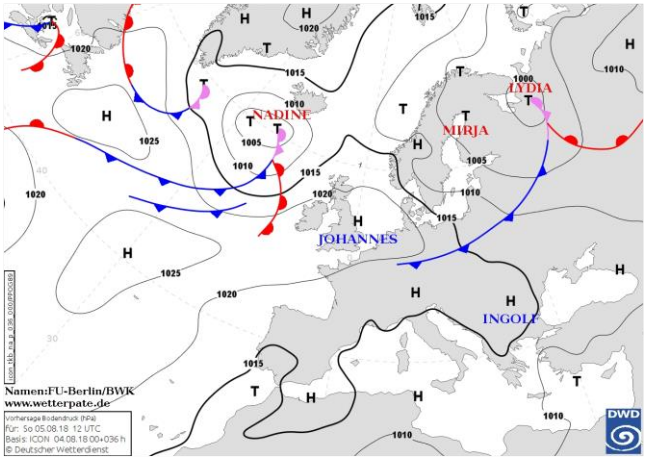
Dati: SIR Regione Toscana, AM, LaMMA

Fulminazioni osservate il giorno 04 Agosto

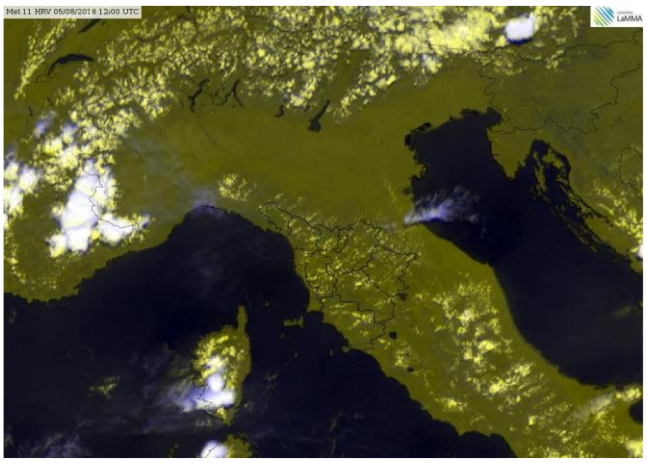


Domenica 5 Agosto 2018

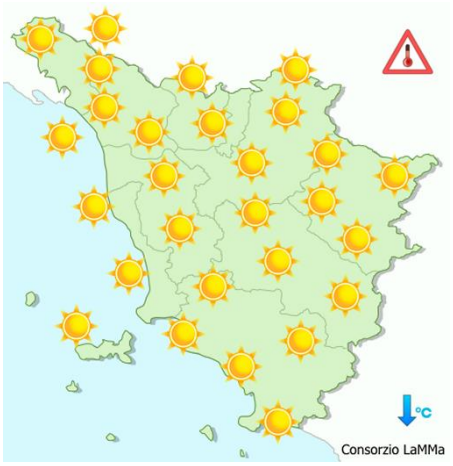
Situazione: alta pressione con massimo sulle Isole Britanniche che si estende a gran parte dell'Europa centrale e al Mediterraneo centro-occidentale, a garanzie di tempo prevalentemente stabile sull'Italia centrale.



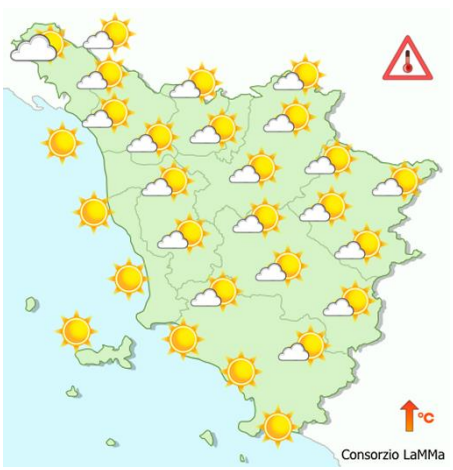
Pressione al suolo e fronti del 05 Agosto alle 12 UTC


Meteosat HRV del 05 Agosto alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: soleggiato

Fenomeni: nessuno.

Venti: deboli settentrionali, temporaneamente moderati di Maestrale sulla costa centro-meridionale.

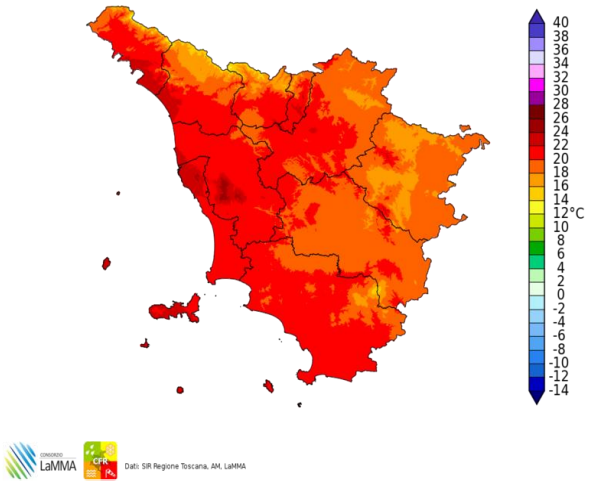
Mari: poco mossi.

Temperature: superiori alle medie.

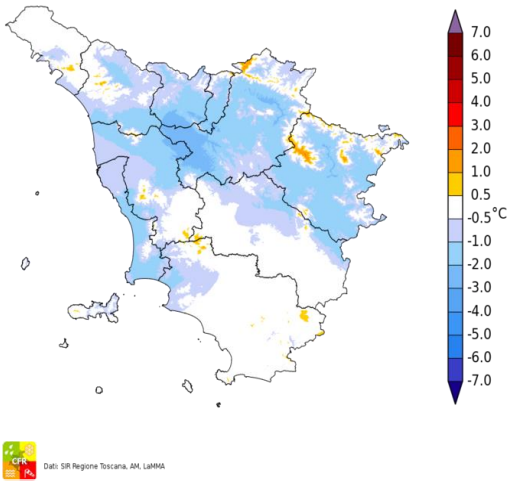
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	19	21	21	N.D.	21	25	21	21	25	22
	anomalia*	4	2	3	N.D.	2	6	3	3	5	3
T. max	osservata	34	37	33	N.D.	37	34	34	35	36	35
	anomalia*	2	4	1	N.D.	6	4	4	3	3	4
Precipitazione (mm/24ore)		N.D.	0	0	0	0	0	N.D.	0	0	0

*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

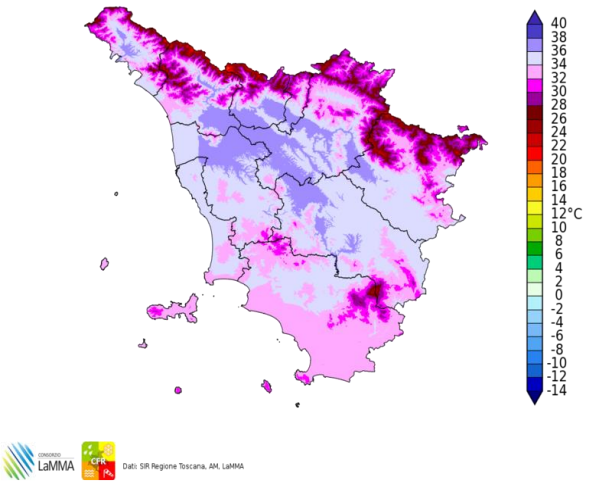
Temperatura Minima del 05/08/2018



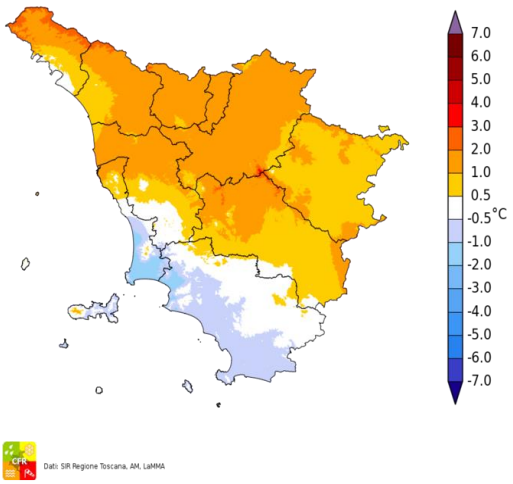
Differenza della Temperatura Minima tra 05/08/2018 e 04/08/2018



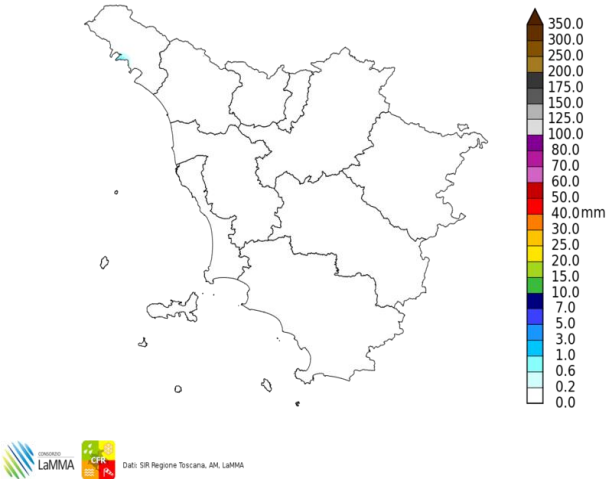
Temperatura Massima del 05/08/2018



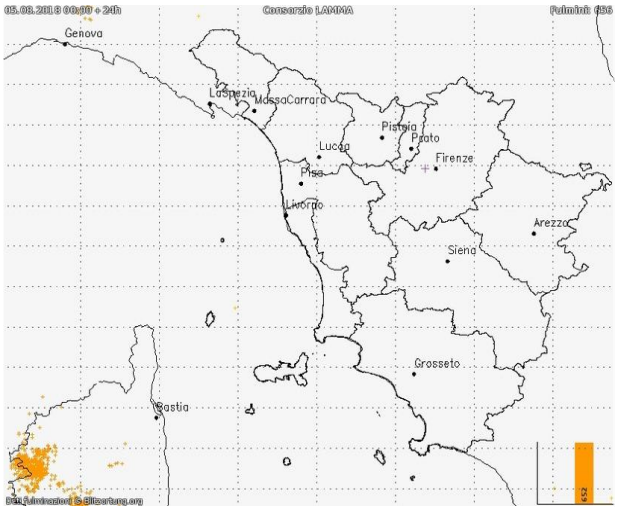
Differenza della Temperatura Massima tra 05/08/2018 e 04/08/2018



Precipitazione del 05/08/2018

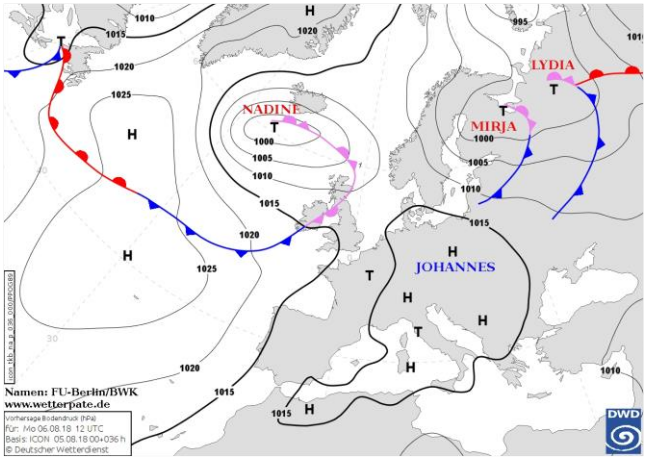


Fulminazioni osservate il giorno 05 Agosto

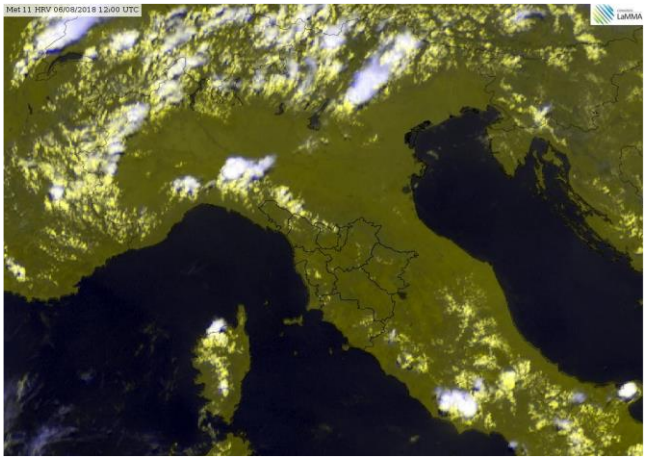


Lunedi' 6 Agosto 2018

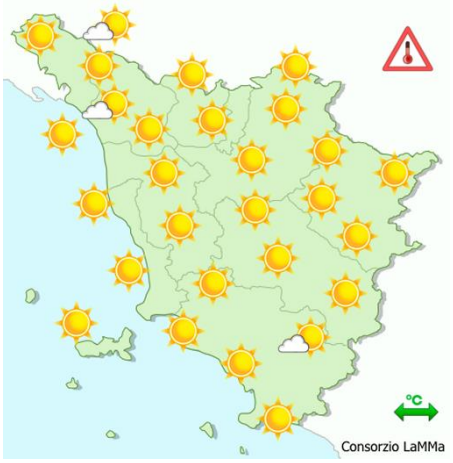
Situazione: alta pressione con massimo sulla Germania si estende a gran parte dell'Europa centrale e al Mediterraneo, a garanzie di tempo prevalentemente stabile sull'Italia centrale, mentre l'instabilità riguarderà soprattutto l'arco alpino, le regioni meridionali e solo marginalmente i rilievi della Toscana.



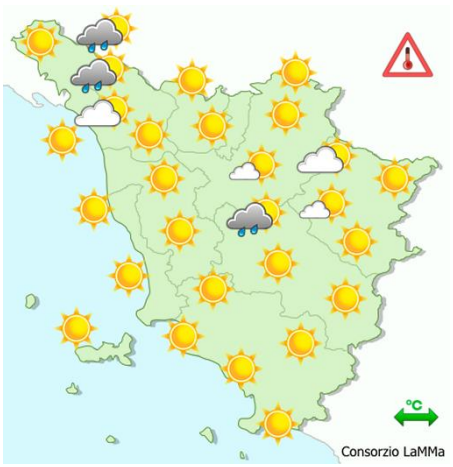
Pressione al suolo e fronti del 06 Agosto alle 12 UTC


Meteosat HRV del 06 Agosto alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: inizialmente sereno o poco nuvoloso con moderato aumento di nuvolosità cumuliforme nel corso delle ore pomeridiane, più consistente sull'Appennino settentrionale.

Fenomeni: isolati e brevi rovesci temporaleschi nel pomeriggio sull'Appennino settentrionale con massimi fino a 20-25 mm. Brevi rovesci in zona Chianti con cumulati poco significativi.

Venti: deboli da ovest, nord-ovest.

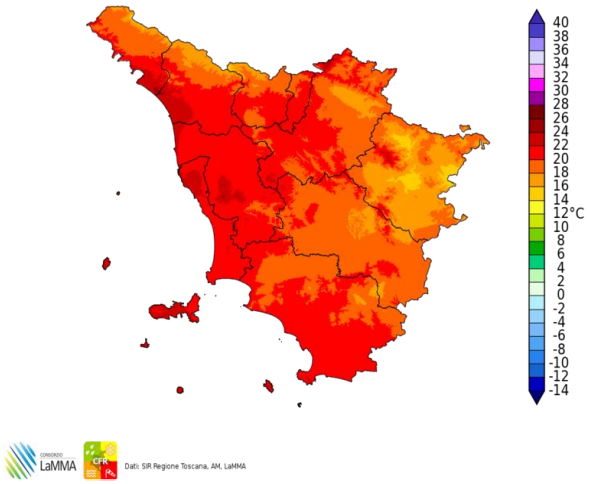
Mari: poco mossi.

Temperature: sulle pianure interne della regione minime in lieve calo e massime in lieve aumento. minime senza variazioni di rilievo in prossimità della costa e massime in calo.

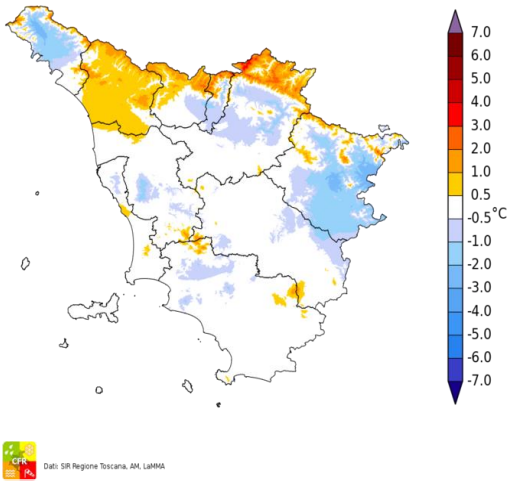
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	17	20	21	N.D.	22	24	21	20	23	22
	anomalia*	2	1	3	N.D.	3	4	3	2	4	3
T. max	osservata	34	38	33	N.D.	35	32	32	36	38	35
	anomalia*	3	5	2	N.D.	4	1	2	4	5	4
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

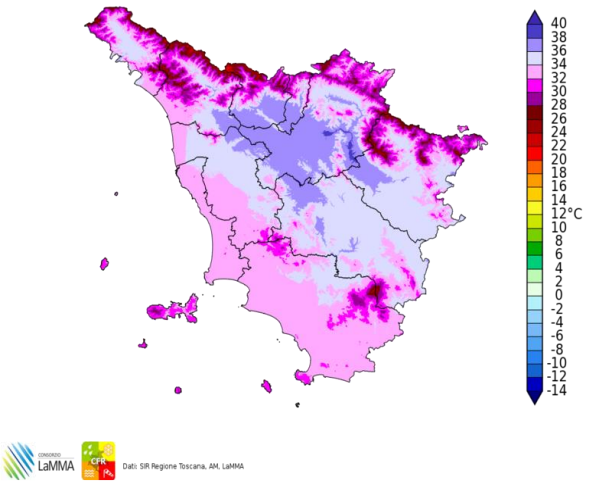
Temperatura Minima del 06/08/2018



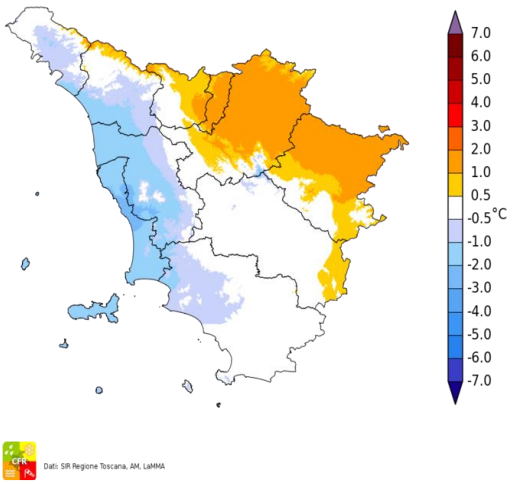
Differenza della Temperatura Minima tra 06/08/2018 e 05/08/2018



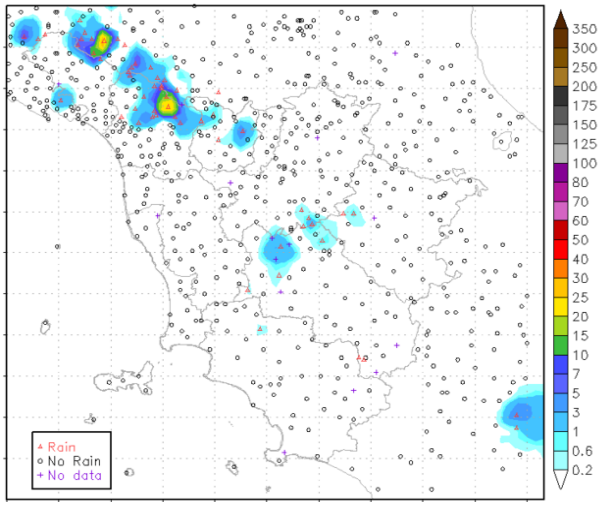
Temperatura Massima del 06/08/2018



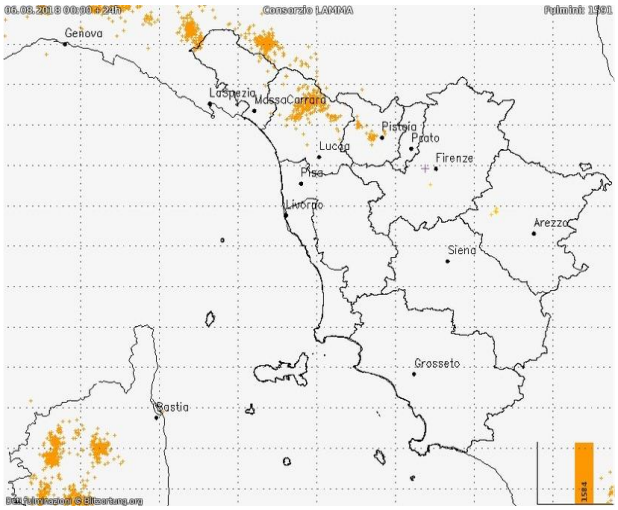
Differenza della Temperatura Massima tra 06/08/2018 e 05/08/2018



Total Precipitation [mm] cumulated on Mon, 06/08/2018

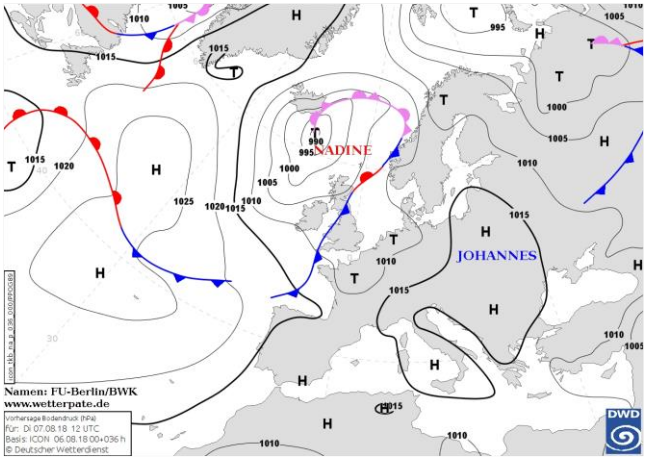


Fulminazioni osservate il giorno 06 Agosto

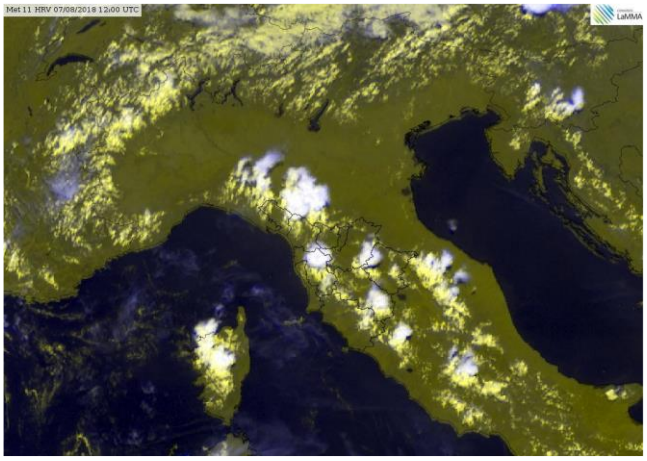


Martedi' 7 Agosto 2018

Situazione: alta pressione sul Mediterraneo centrale con conseguenti condizioni in prevalenza soleggiate, tuttavia infiltrazioni di aria più fresca in quota determinano un aumento dell'instabilità.

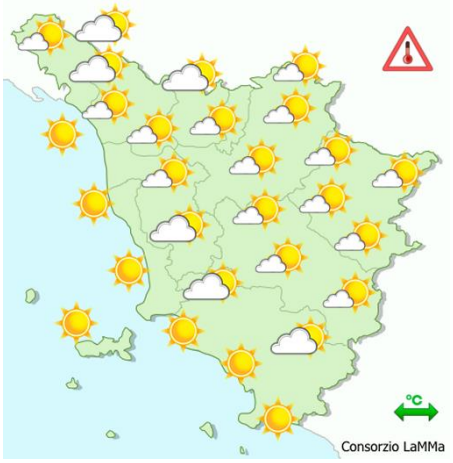


Pressione al suolo e fronti del 07 Agosto alle 12 UTC

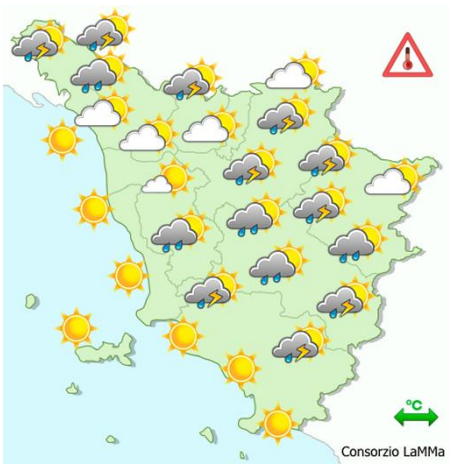


Meteosat HRV del 07 Agosto alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: bel tempo al mattino; nel pomeriggio sviluppo di nubi cumuliformi.

Fenomeni: temporali pomeridiani nelle zone interne, localmente intensi e associati a colpi di vento e grandine.

Venti: deboli da sud, sud-ovest.

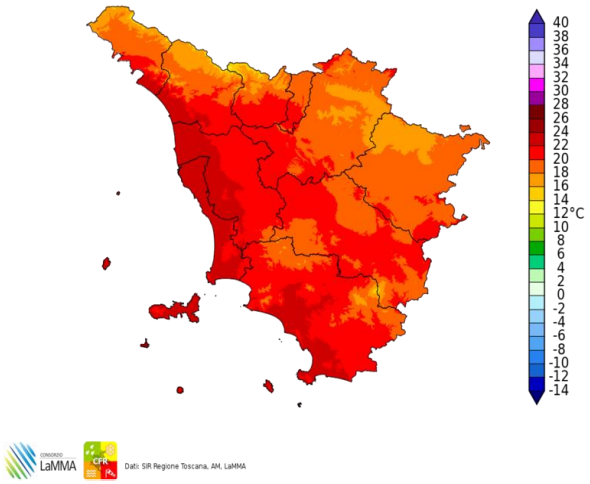
Mari: poco mossi.

Temperature: massime in calo; minime in calo nelle vallate settentrionali ed in aumento altrove.

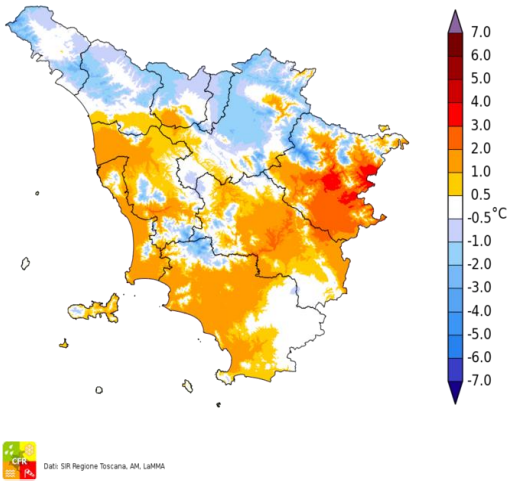
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	N.D.	N.D.	N.D.	N.D.	22	24	N.D.	20	22	22
	anomalia*	N.D.	N.D.	N.D.	N.D.	4	4	N.D.	2	3	3
T. max	osservata	N.D.	N.D.	N.D.	N.D.	34	30	N.D.	34	36	36
	anomalia*	N.D.	N.D.	N.D.	N.D.	2	0	N.D.	1	4	5
Precipitazione (mm/24ore)		N.D.	34	0	0	1	0	N.D.	0	2	1

*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

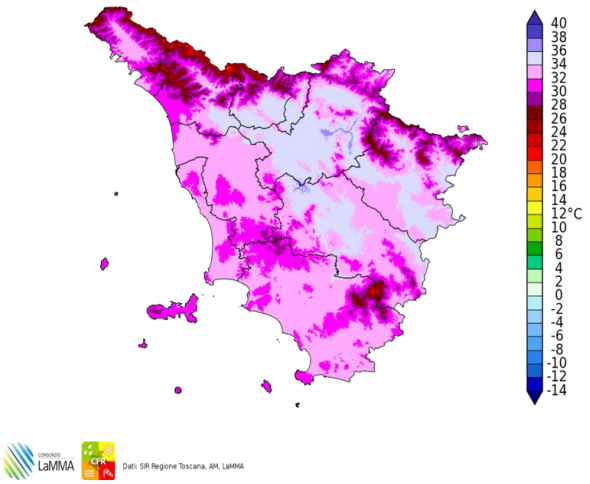
Temperatura Minima del 07/08/2018



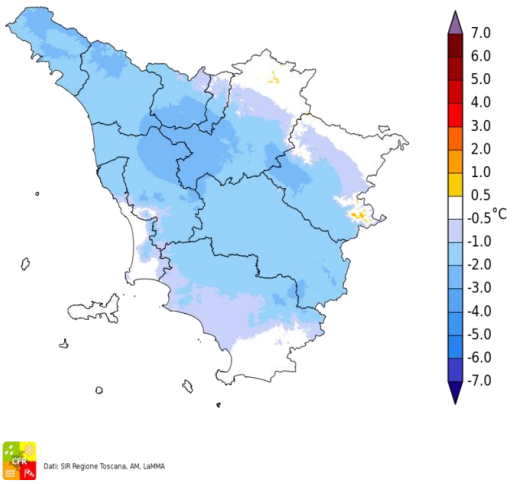
Differenza della Temperatura Minima tra 07/08/2018 e 06/08/2018



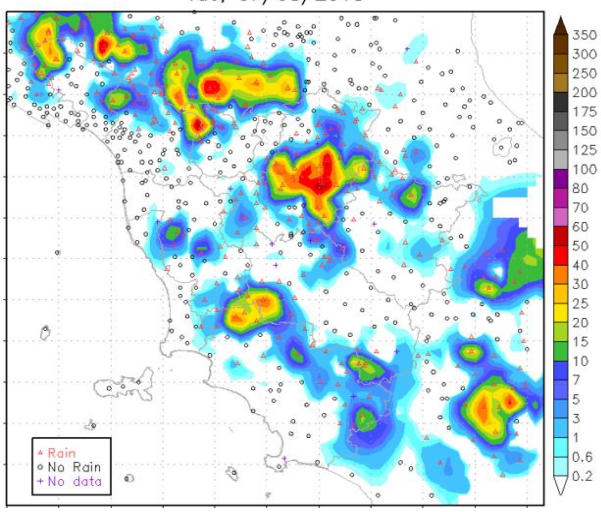
Temperatura Massima del 07/08/2018



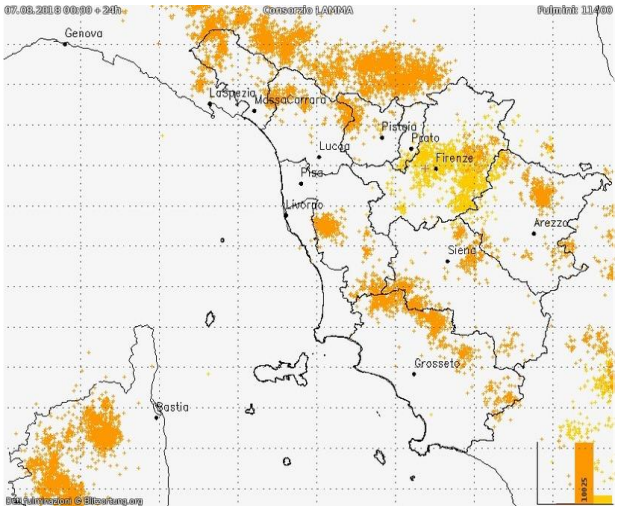
Differenza della Temperatura Massima tra 07/08/2018 e 06/08/2018



Total Precipitation [mm] cumulated on Tue, 07/08/2018

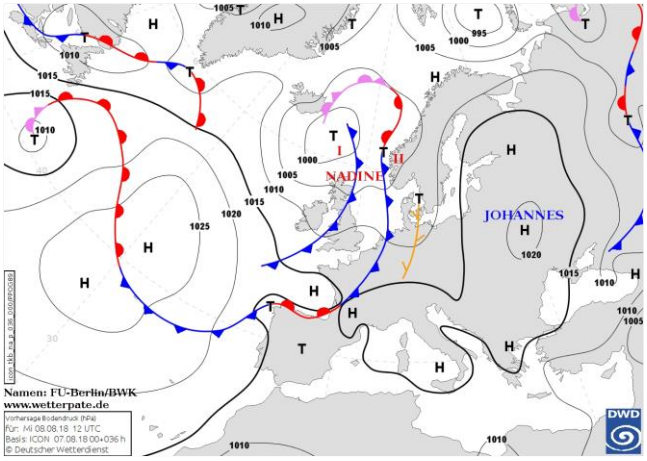


Fulminazioni osservate il giorno 07 Agosto

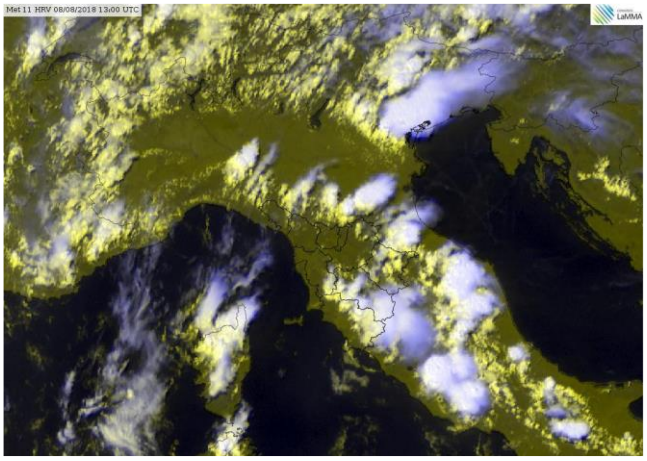


Mercoledi' 8 Agosto 2018

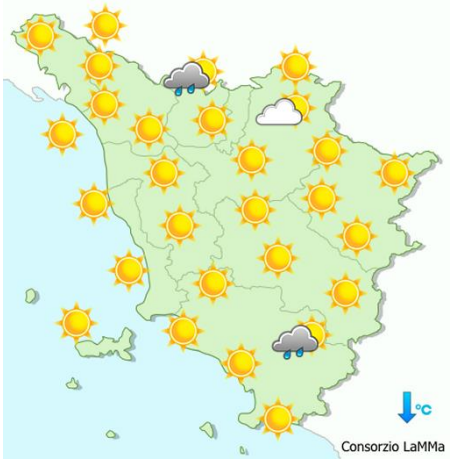
Situazione: parziale indebolimento dell'alta pressione sul Mediterraneo centro-occidentale a causa di infiltrazioni di aria più fresca in quota, che determinano un aumento dell'instabilità nel corso delle ore più calde.



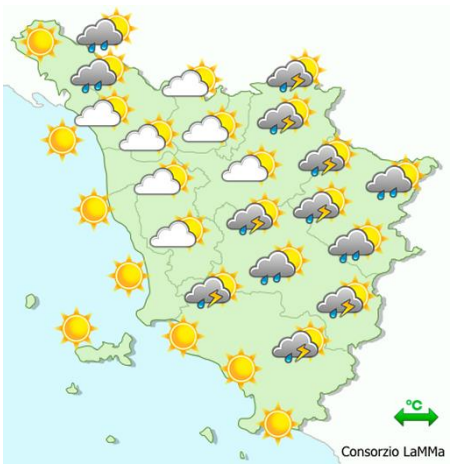
Pressione al suolo e fronti del 08 Agosto alle 12 UTC


Meteosat HRV del 08 Agosto alle 13 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso in mattinata, sviluppo di nubi cumuliformi nel pomeriggio sulle zone interne. Di nuovo sereno o poco nuvoloso in serata.

Fenomeni: temporali sparsi nel pomeriggio sulle zone interne, in particolare sulle province di Prato, Firenze, Siena, Arezzo e Grosseto.

Venti: deboli da ovest sud-ovest.

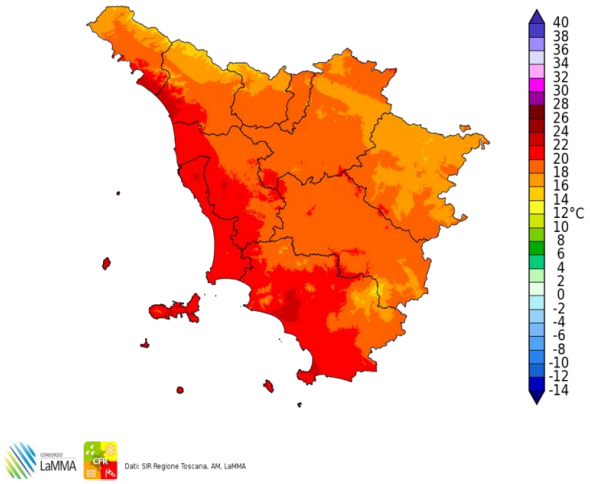
Mari: poco mossi.

Temperature: minime in aumento, massime in lieve calo.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	19	19	21	N.D.	21	24	20	19	21	20
	anomalia*	4	0	3	N.D.	2	4	2	1	1	2
T. max	osservata	34	36	33	N.D.	33	30	32	34	36	36
	anomalia*	2	3	1	N.D.	2	0	2	1	3	5
Precipitazione (mm/24ore)		2	0	0	0	0	0	0	0	0	6

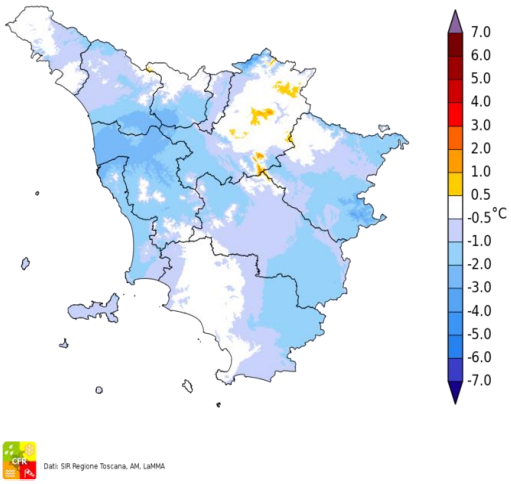
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 08/08/2018



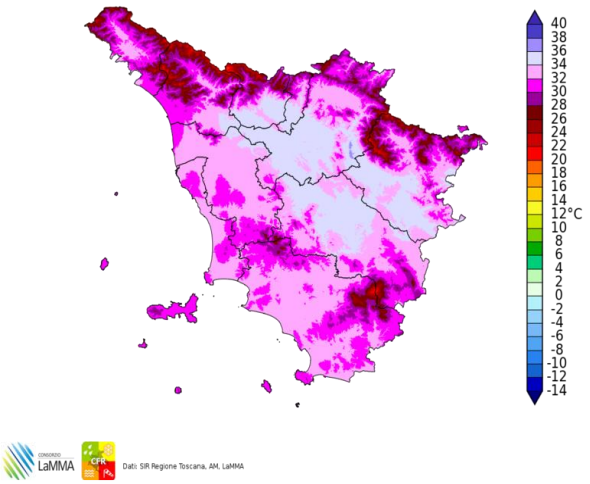
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 08/08/2018 e 07/08/2018



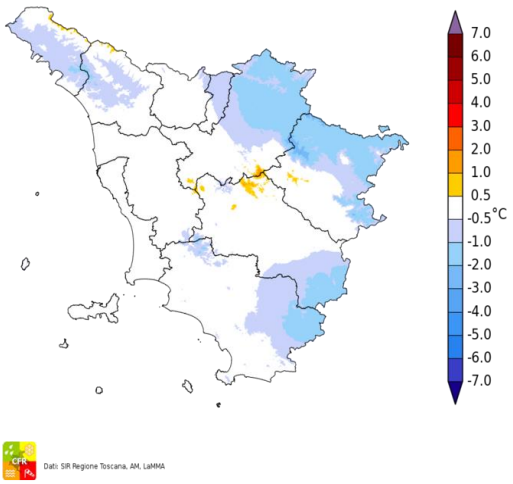
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 08/08/2018



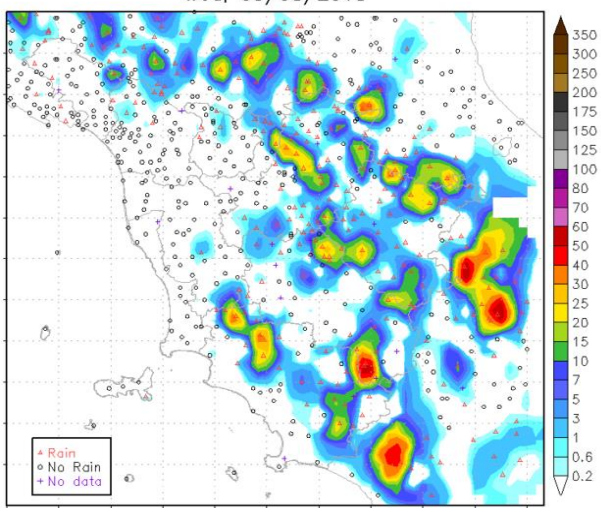
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 08/08/2018 e 07/08/2018

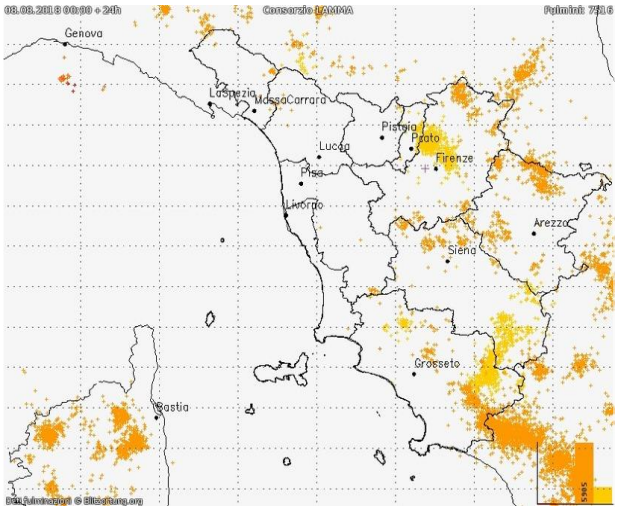


Dati: SIR Regione Toscana, AM, LaMMA

Total Precipitation [mm] cumulated on Wed, 08/08/2018

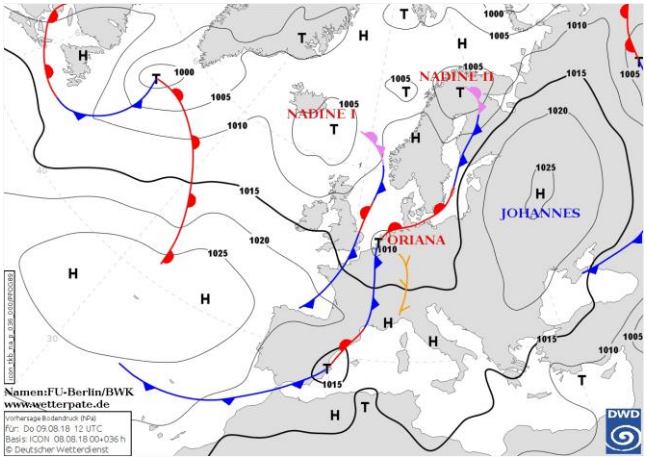


Fulminazioni osservate il giorno 08 Agosto

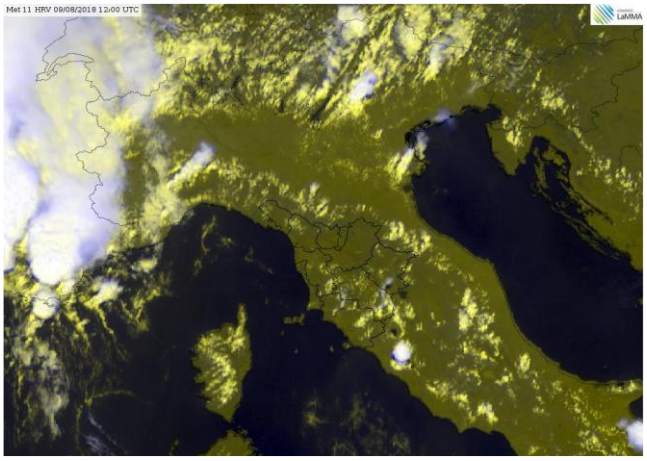


Giovedi' 9 Agosto 2018

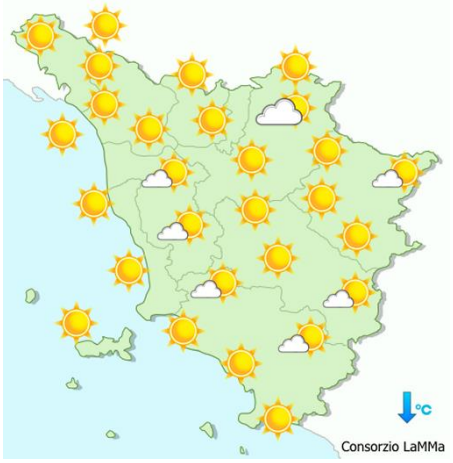
Situazione: alta pressione sul Mediterraneo centrale. Il transito di un fronte nel pomeriggio sull'Italia settentrionale determina un moderato aumento dell'instabilità anche sulla Toscana.



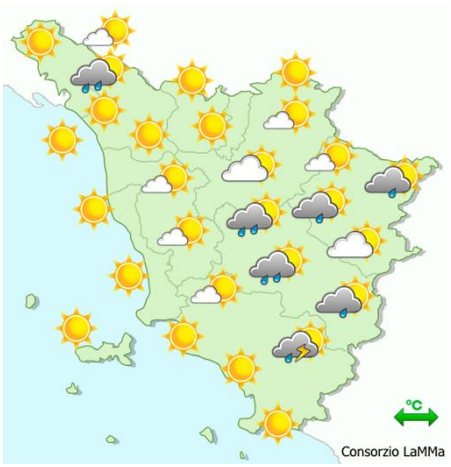
Pressione al suolo e fronti del 09 Agosto alle 12 UTC


Meteosat HRV del 09 Agosto alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso con locale sviluppo di nubi cumuliformi sulle zone interne nelle ore pomeridiane.

Fenomeni: locali rovesci e temporali nel pomeriggio sulle province di Siena e Arezzo e sulla zona dell'Amiata.

Venti: deboli occidentali.

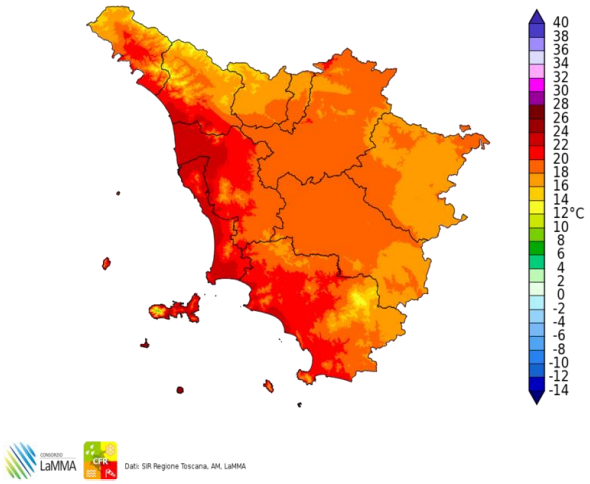
Mari: poco mossi.

Temperature: minime in lieve calo nell'interno, massime in leggero aumento.

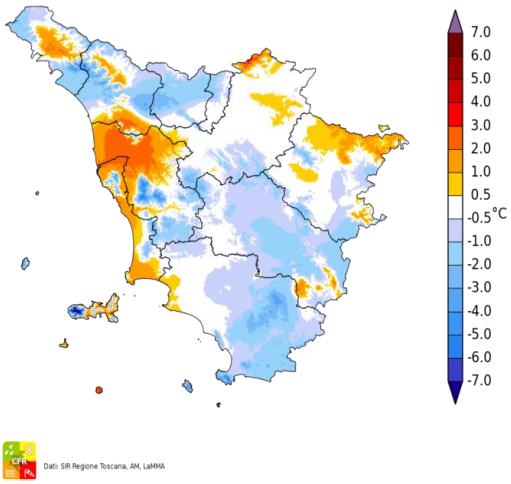
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	18	19	20	N.D.	20	22	20	19	20	20
	anomalia*	3	0	2	N.D.	1	3	2	1	1	1
T. max	osservata	33	35	34	N.D.	34	30	32	34	35	35
	anomalia*	3	3	2	N.D.	3	1	2	1	3	4
Precipitazione (mm/24ore)		N.D.	0	0	3	0	0	N.D.	0	0	0

*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

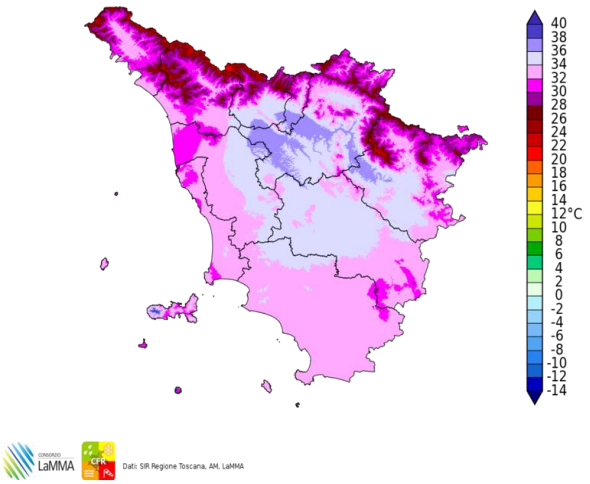
Temperatura Minima del 09/08/2018



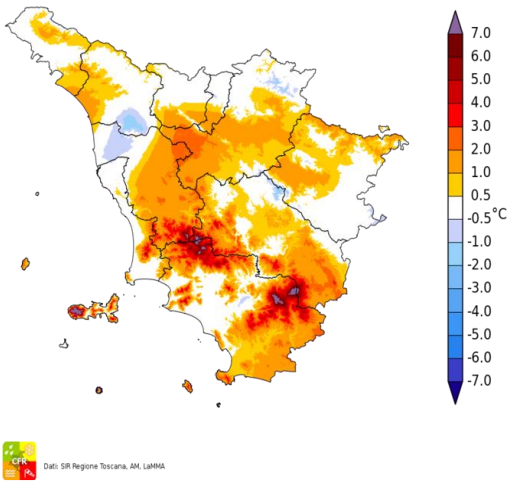
Differenza della Temperatura Minima tra 09/08/2018 e 08/08/2018



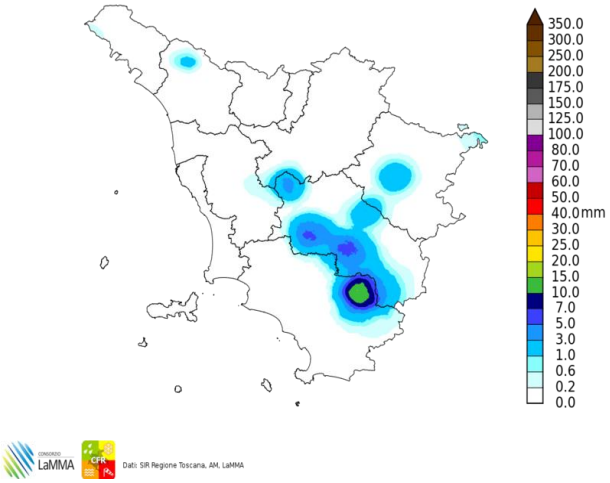
Temperatura Massima del 09/08/2018



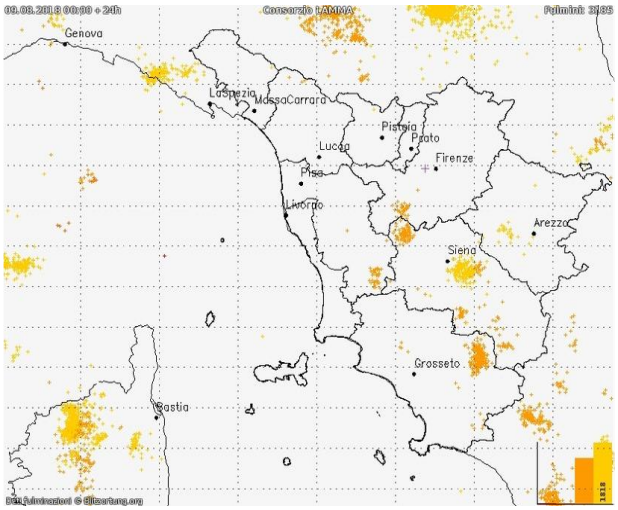
Differenza della Temperatura Massima tra 09/08/2018 e 08/08/2018



Precipitazione del 09/08/2018

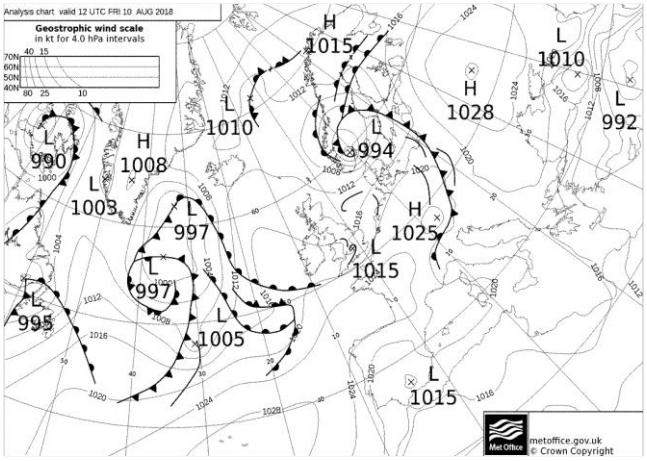


Fulminazioni osservate il giorno 09 Agosto

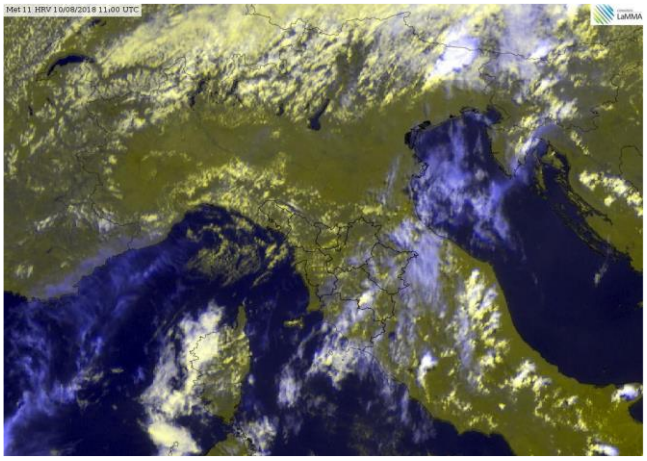


Venerdi' 10 Agosto 2018

Situazione: fronte freddo in transito a nord dell'arco alpino e blando minimo sul Ligure.

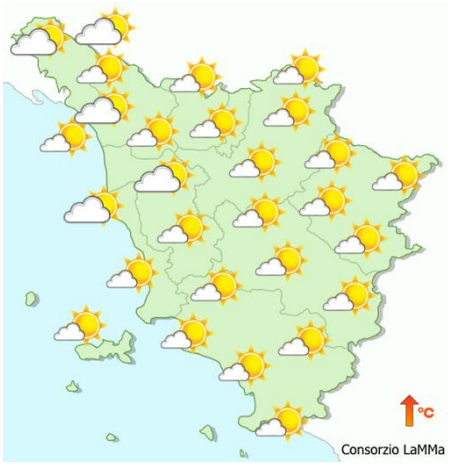


Pressione al suolo e fronti del 10 Agosto alle 12 UTC

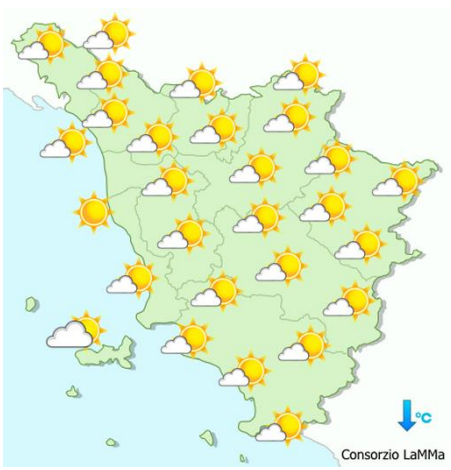


Meteosat HRV del 10 Agosto alle 11 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: parzialmente nuvoloso. Sereno in serata.

Fenomeni: isolato breve temporale nella prima parte della notte sulla costa livornese; isolati e brevi piovaschi su centro-sud della regione.

Venti: in prevalenza deboli occidentali con rinforzi sui rilievi.

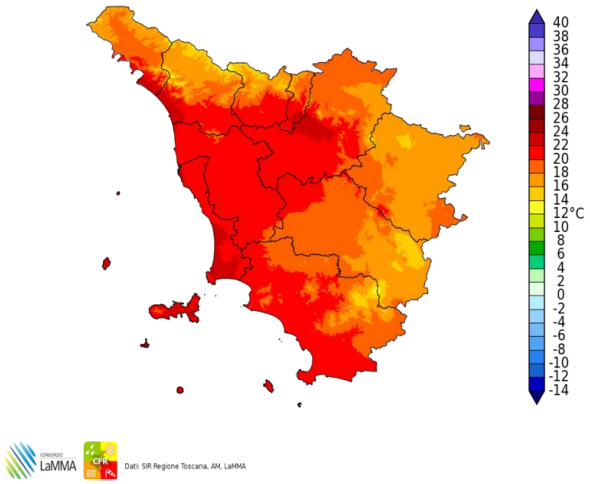
Mari: poco mossi, tendenti a divenire mossi a nord di Capraia.

Temperature: minime in lieve aumento, massime in lieve diminuzione.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	18	22	22	N.D.	22	23	21	21	22	21
	anomalia*	3	4	4	N.D.	3	3	3	3	3	2
T. max	osservata	32	34	35	N.D.	32	30	31	31	32	32
	anomalia*	0	1	3	N.D.	0	-1	0	-1	0	2
Precipitazione (mm/24ore)		0	0	0	0	0	0	3	0	0	0

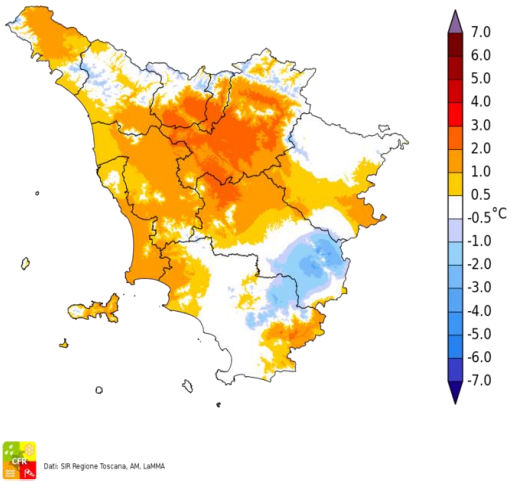
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 10/08/2018



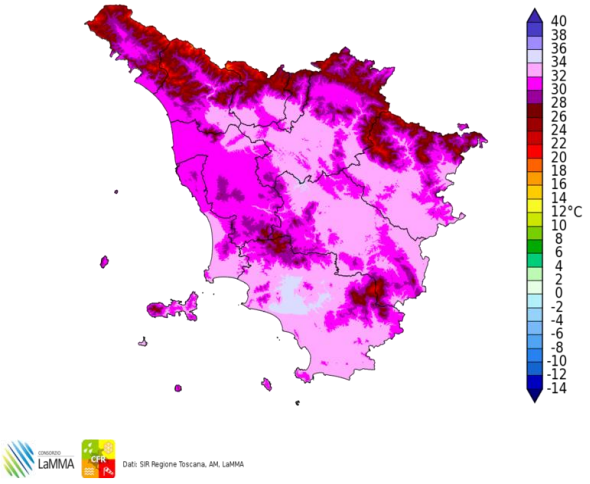
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 10/08/2018 e 09/08/2018



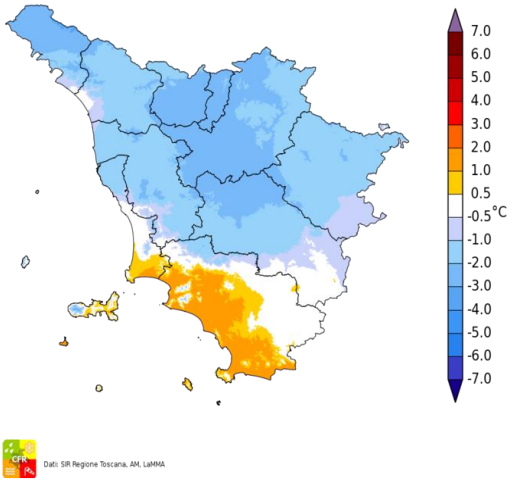
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 10/08/2018



Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 10/08/2018 e 09/08/2018



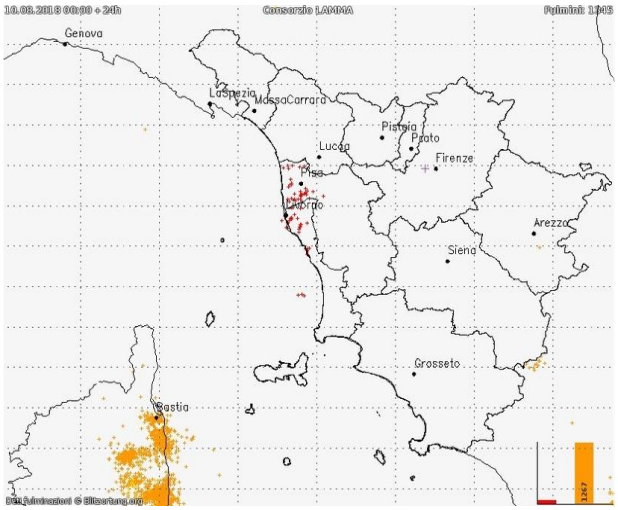
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 10/08/2018



Dati: SIR Regione Toscana, AM, LaMMA

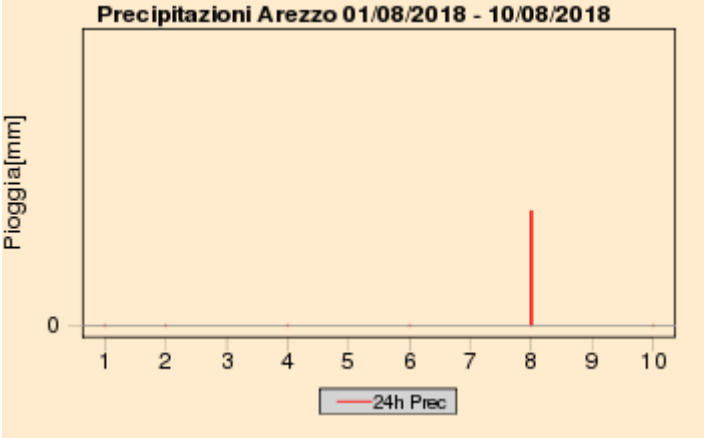
Fulminazioni osservate il giorno 10 Agosto

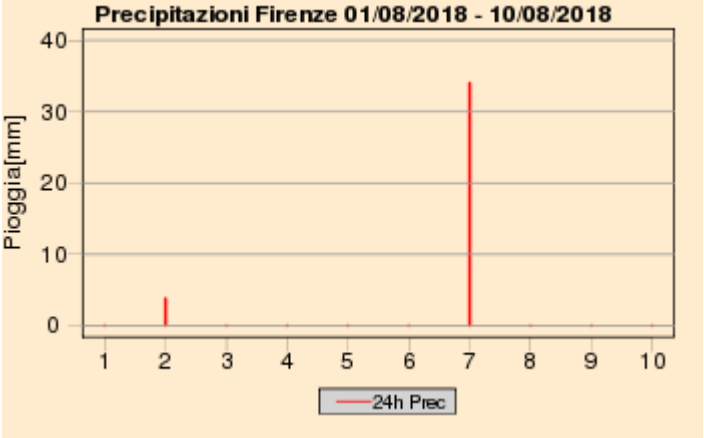


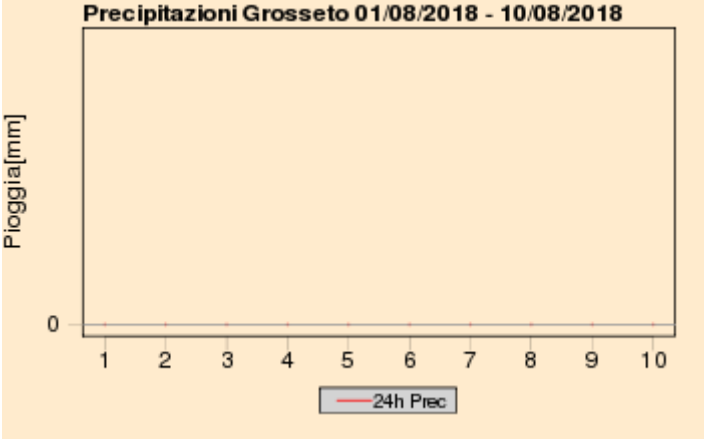
I decade - Quadro regionale – Precipitazioni

Le piogge osservate nel corso della prima decade di Agosto sulla Toscana sono dovute quasi esclusivamente a temporali pomeridiani che si sono sviluppati in particolare sulle zone interne e nelle ore centrali delle giornate, e che sono stati favoriti dalle frequenti condizioni di instabilità atmosferica che si sono avute nel corso della decade.

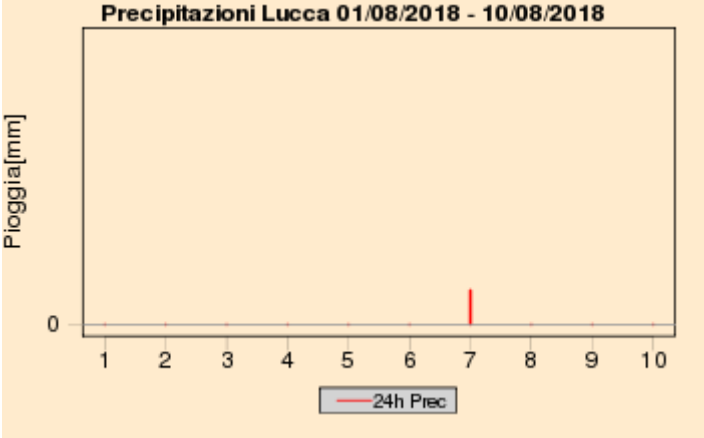
La distribuzione dei cumulati osservati nei 10 giorni è risultata quindi estremamente eterogenea: su gran parte delle zone costiere non si sono in pratica osservate precipitazioni significative, mentre sulle zone interne e in particolare in Appennino e sui rilievi centrali

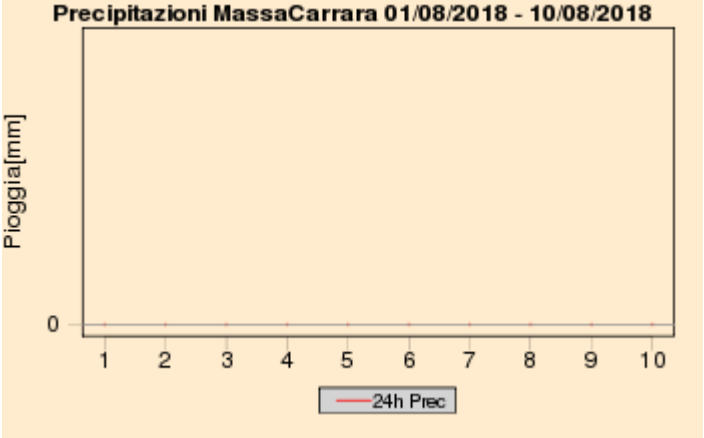


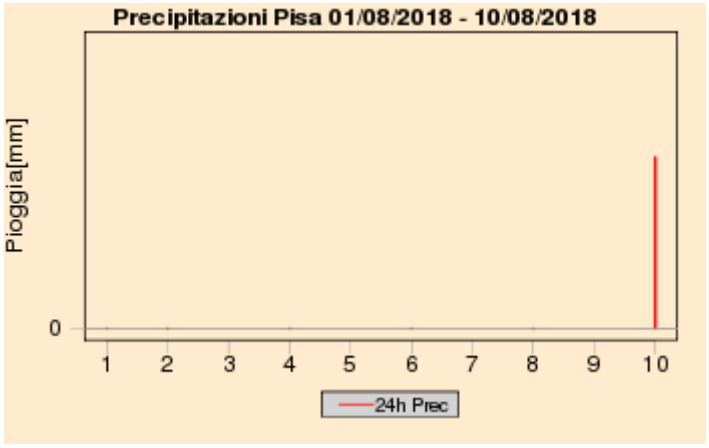


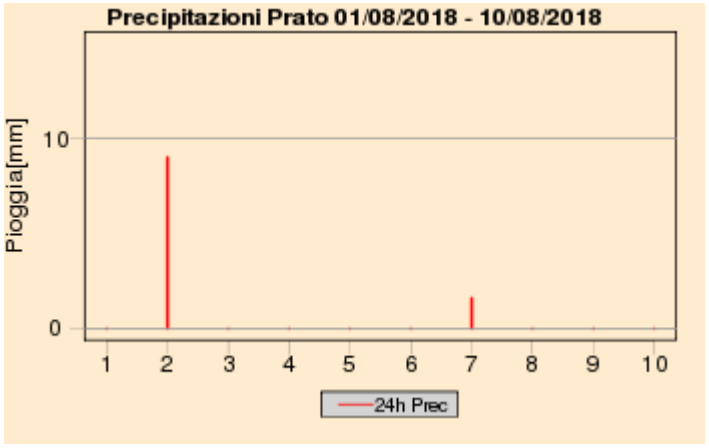


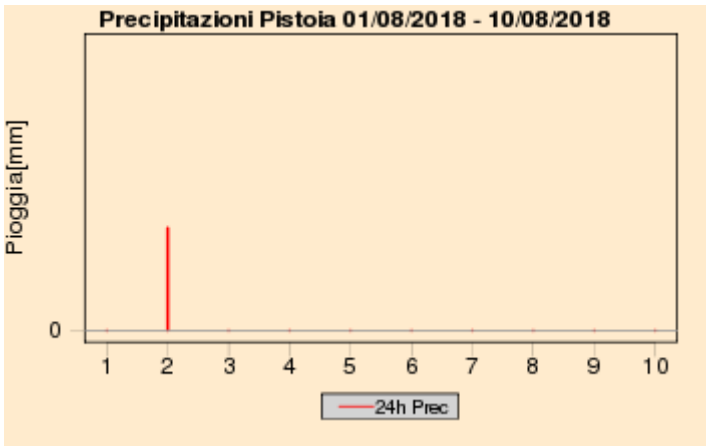


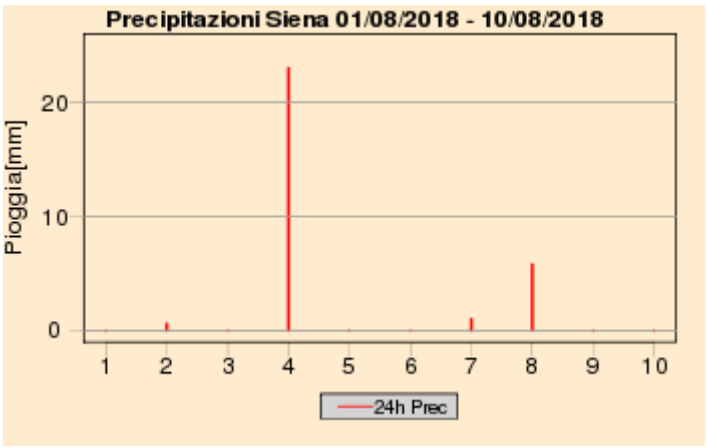




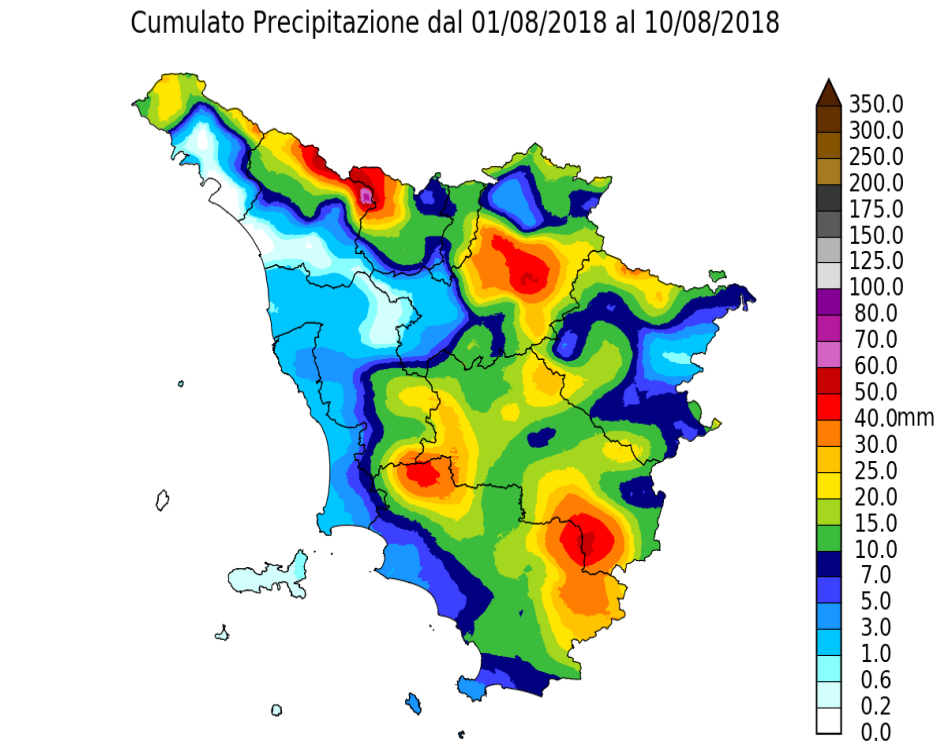






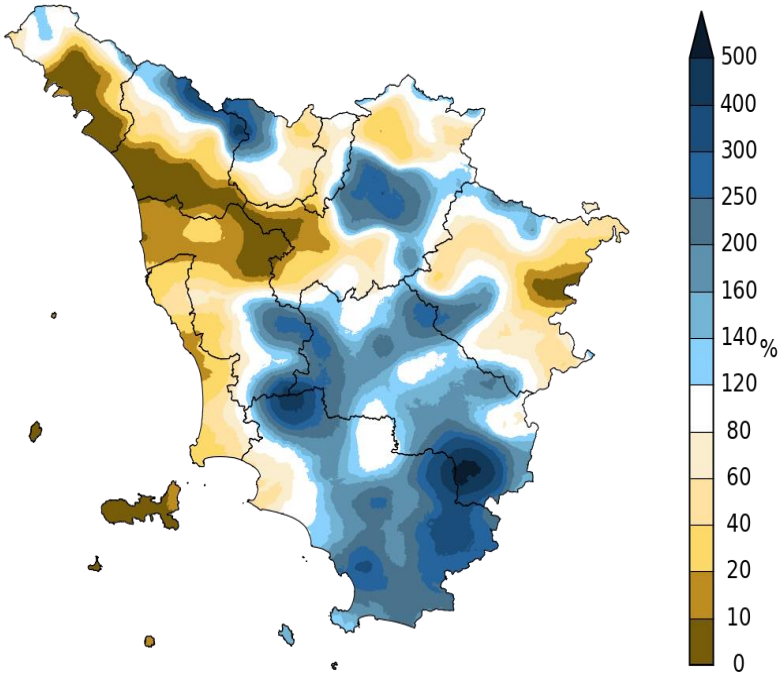


Quadro regionale – Cumulati decadali di precipitazione, anomalia di precipitazione e numero di giorni di pioggia



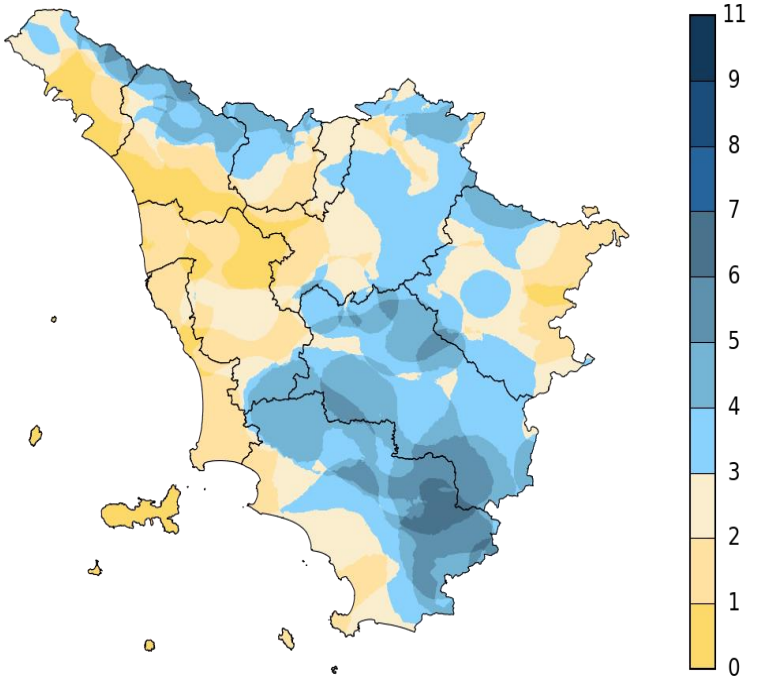
Dati: SIR Regione Toscana, AM, LaMMA

Percentuale di Precipitazione rispetto alla media climatica
dal 01/08/2018 al 10/08/2018



Dati: SIR Regione Toscana, AM, LaMMA

Giorni con Pioggia ≥ di 1 mm dal 01/08/2018 al 10/08/2018

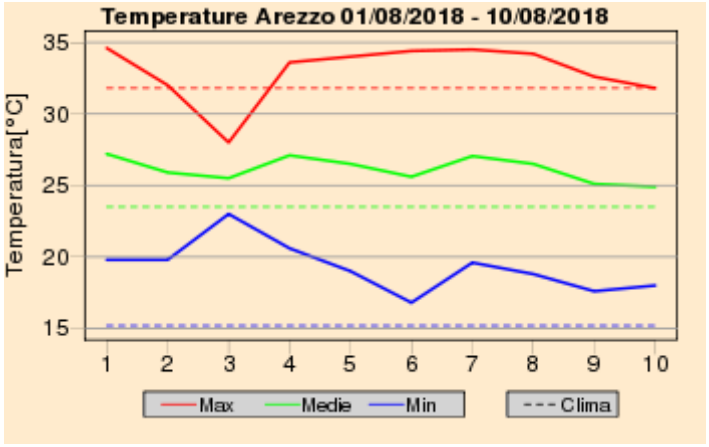


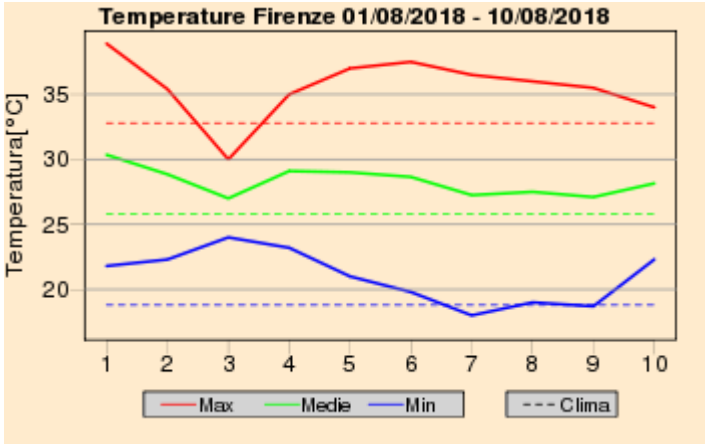
Dati: SIR Regione Toscana, AM, LaMMA

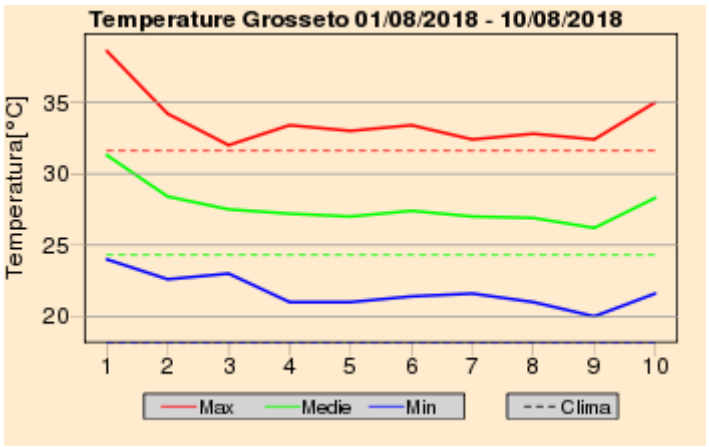
I decade - Quadro regionale – Temperature

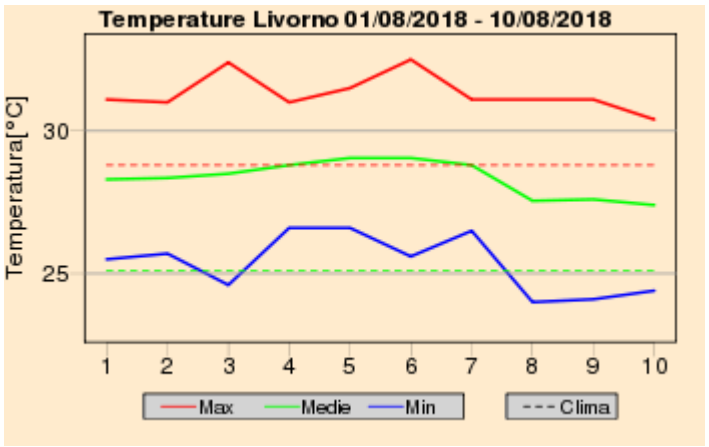
La prima decade di Agosto è risultata più calda rispetto alla media climatologica 1981-2010, e probabilmente le più calda del 2018.

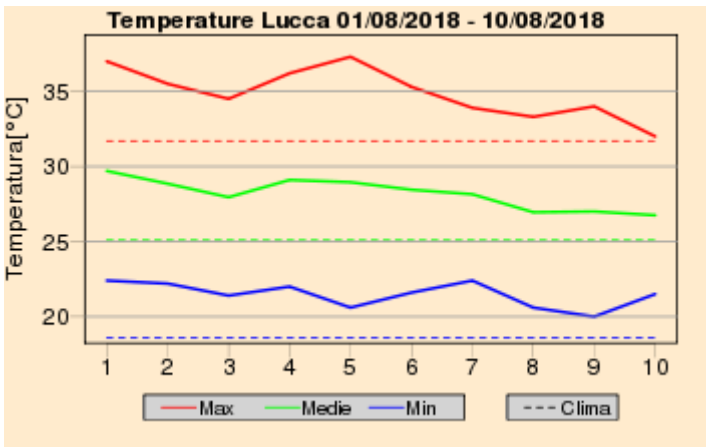
Sia le minime che le massime si sono mantenute per quasi tutti i giorni della decade su valori leggermente superiori a quelli tipici del periodo e nel complesso hanno fatto registrare mediamente nei 10 giorni una anomalia positiva tra 2 e 3 gradi.

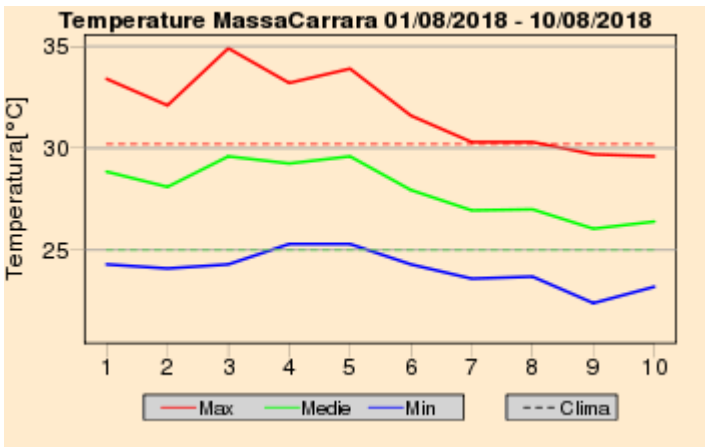


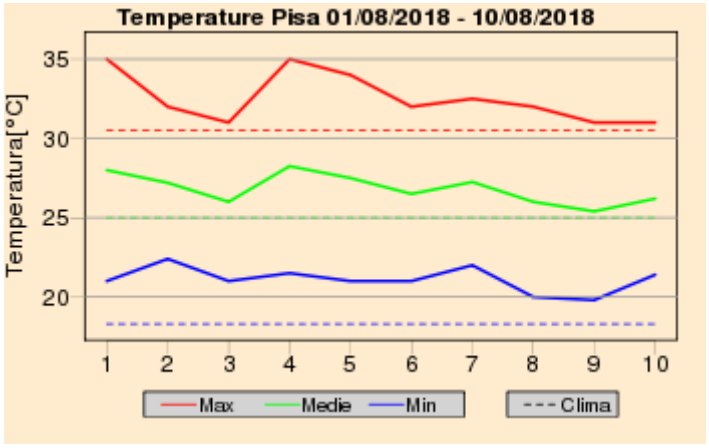


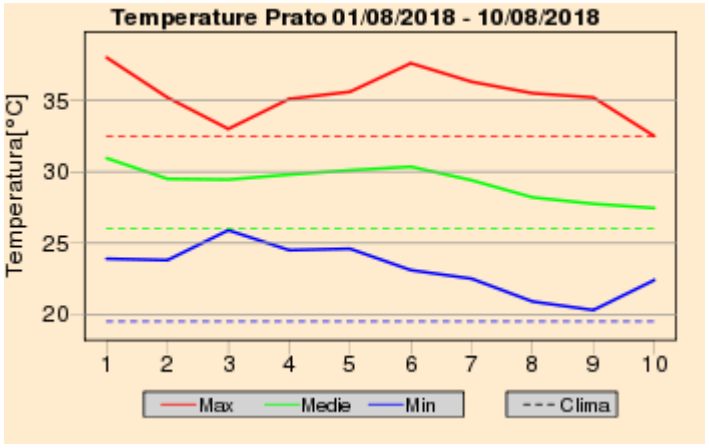


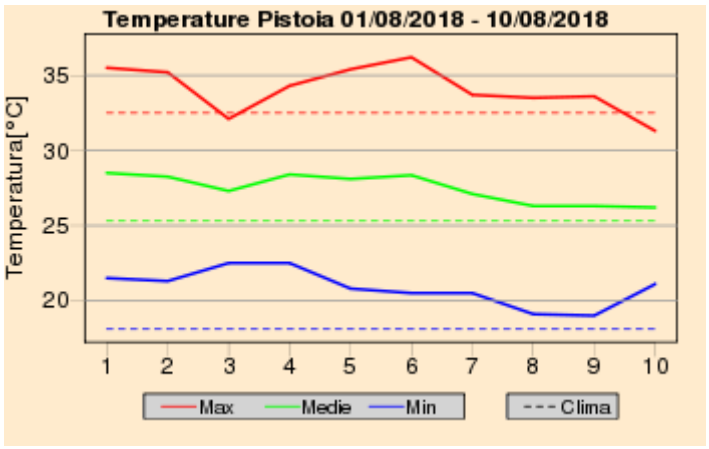


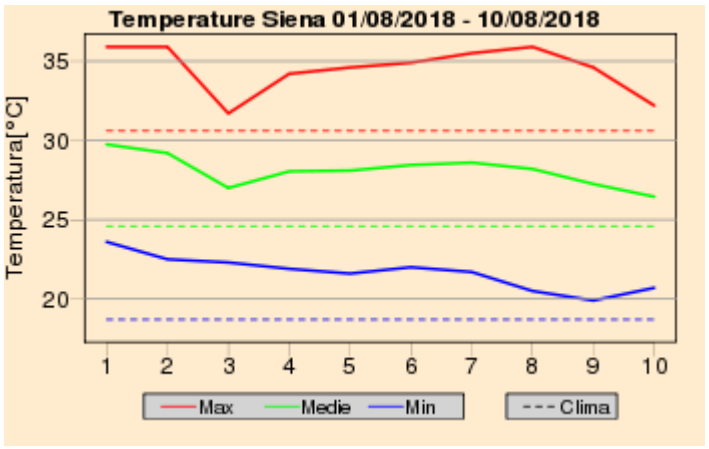




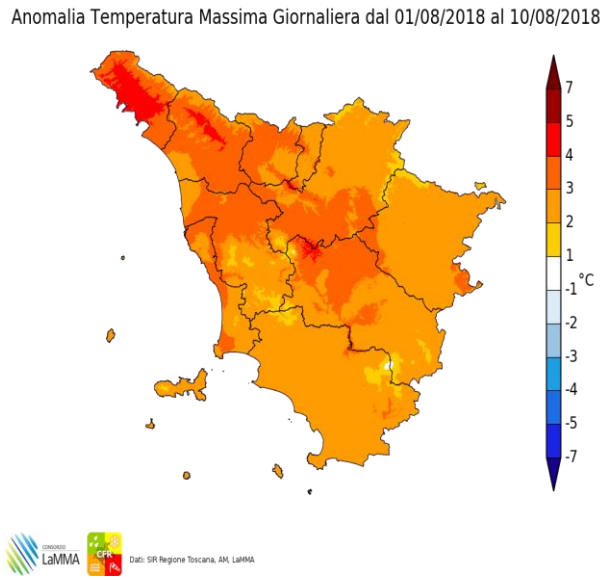


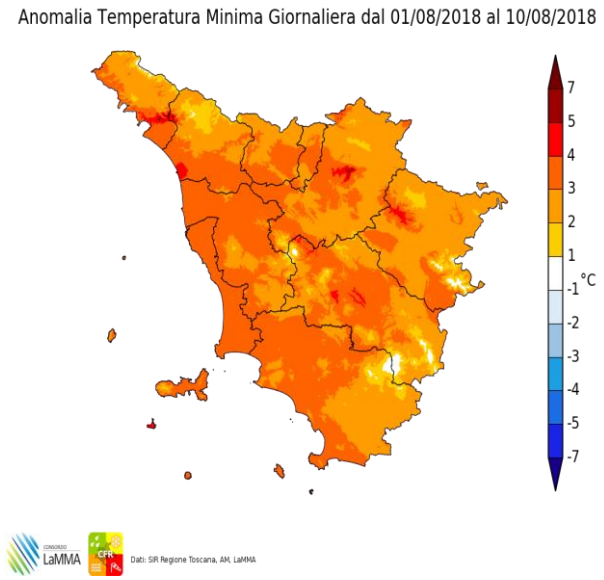






Quadro regionale – Anomalie termiche

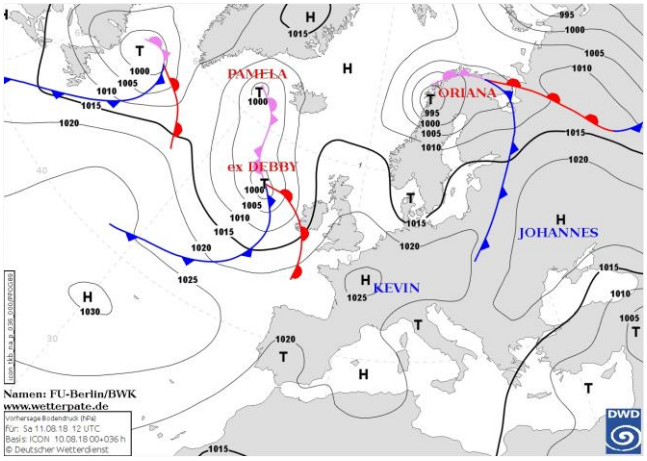




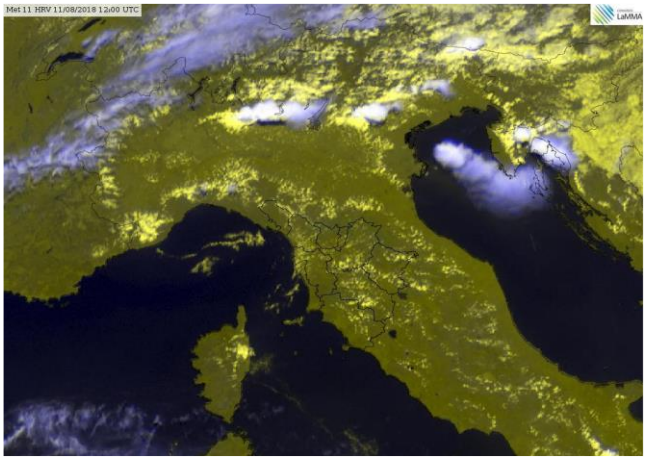
Anomalia termica decadale per le temperature massime e minime giornaliere

Sabato 11 Agosto 2018

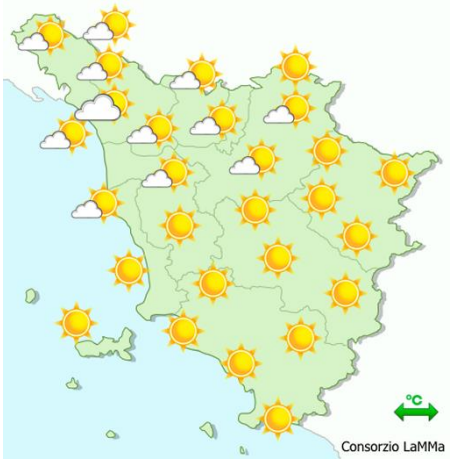
Situazione: l'anticiclone delle Azzorre si estende sul Mediterraneo centro-occidentale e sull'Italia, mantenendo tempo nel complesso stabile.



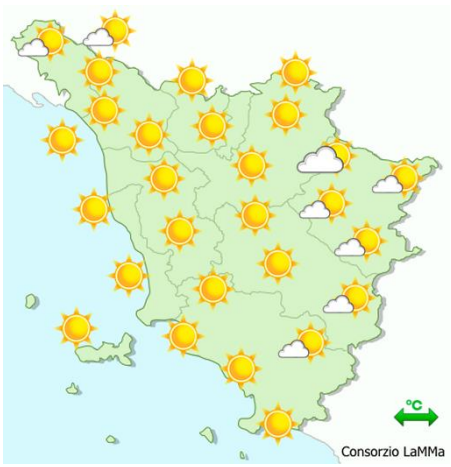
Pressione al suolo e fronti del 11 Agosto alle 12 UTC


Meteosat HRV del 11 Agosto alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso.

Fenomeni: nessuno.

Venti: moderati di Libeccio sulla costa livornese, deboli da ovest, nord-ovest con locali rinforzi altrove.

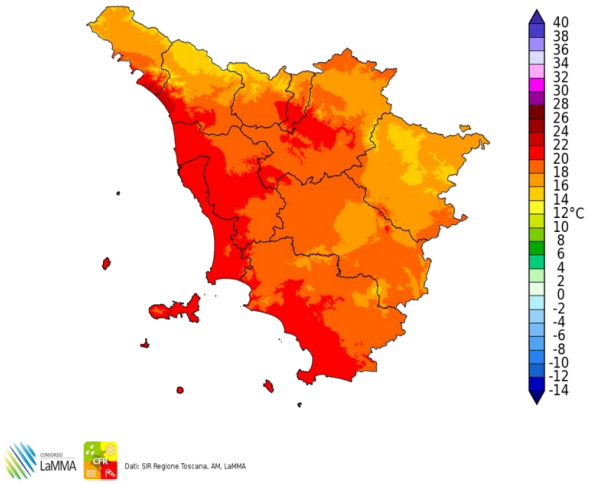
Mari: mossi a nord dell'Elba, poco mossi o localmente mossi in serata a sud dell'isola.

Temperature: minime in lieve calo, massime stazionarie.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	17	21	20	N.D.	20	22	20	19	22	20
	anomalia*	3	2	2	N.D.	2	3	2	2	2	2
T. max	osservata	32	33	33	N.D.	32	29	30	31	33	32
	anomalia*	0	1	2	N.D.	1	0	0	-1	1	2
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

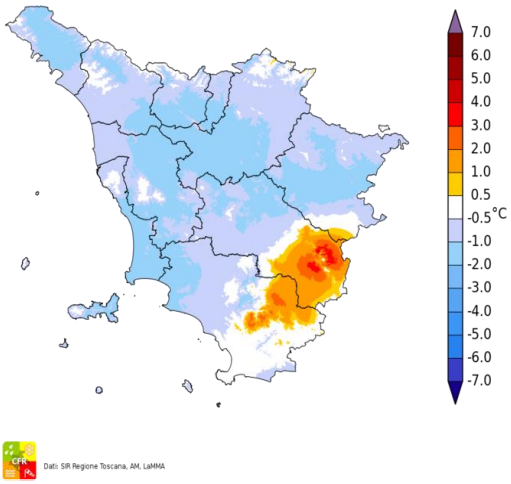
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 11/08/2018



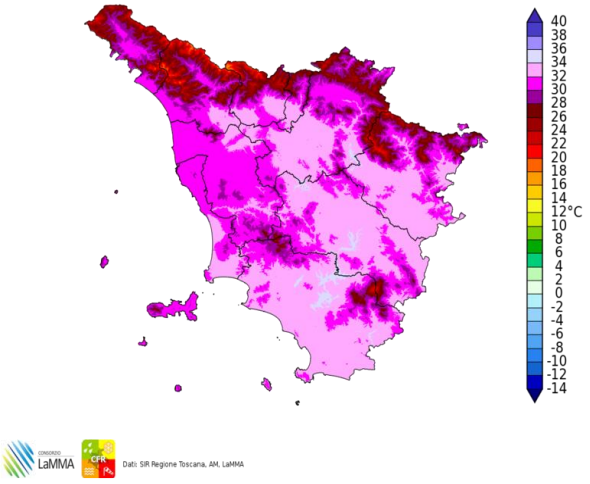
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 11/08/2018 e 10/08/2018



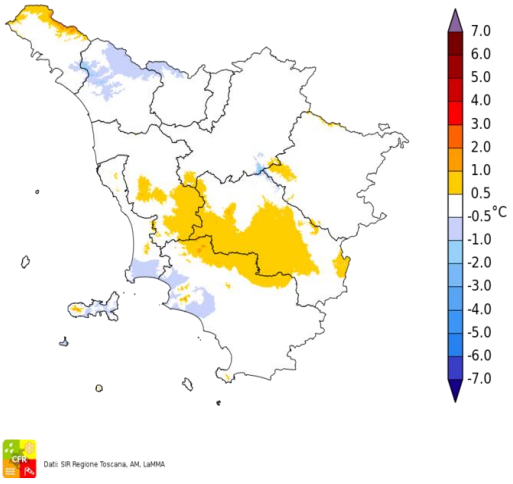
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 11/08/2018



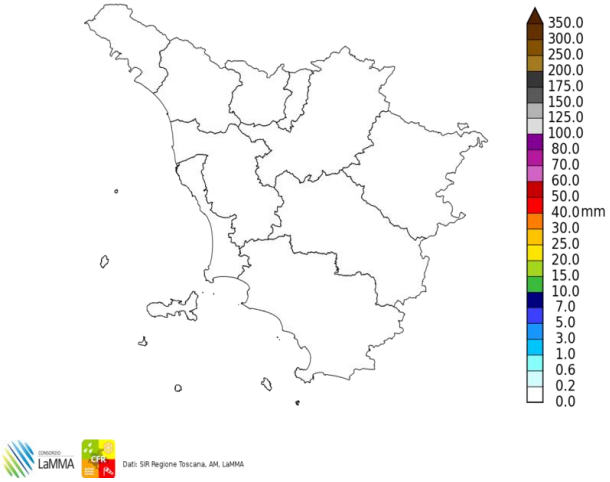
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 11/08/2018 e 10/08/2018



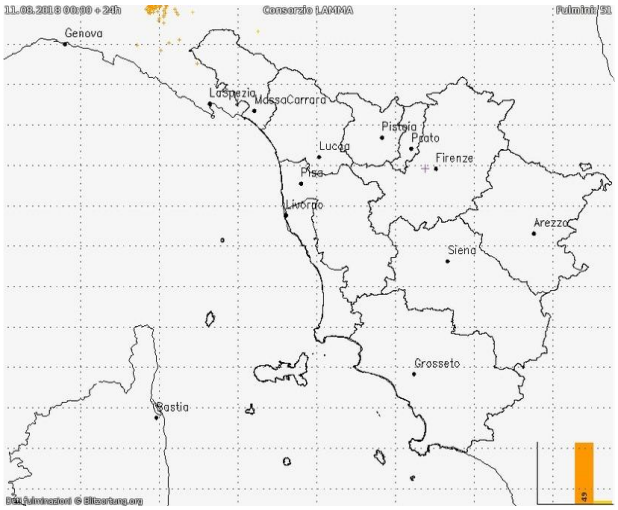
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 11/08/2018



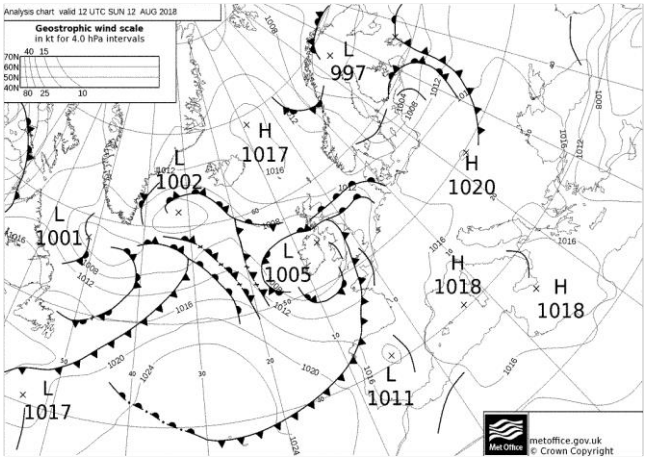
Dati: SIR Regione Toscana, AM, LaMMA

Fulminazioni osservate il giorno 11 Agosto

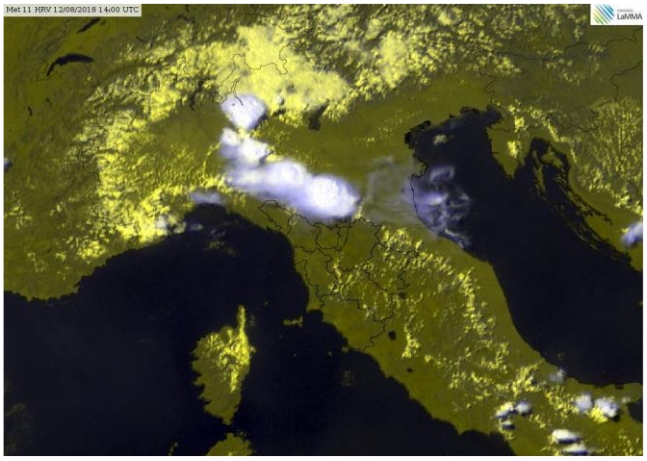


Domenica 12 Agosto 2018

Situazione: l'anticiclone delle Azzorre si estende fin sul Mediterraneo centrale garantendo condizioni di stabilità.

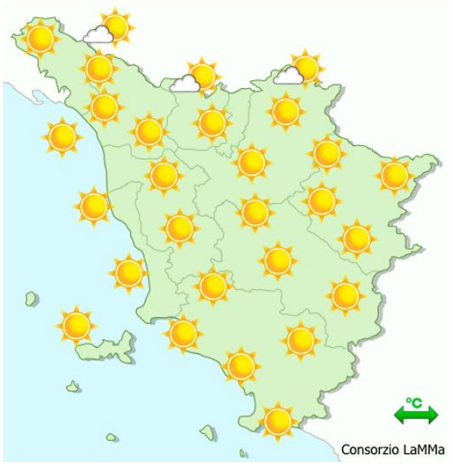


Pressione al suolo e fronti del 12 Agosto alle 12 UTC

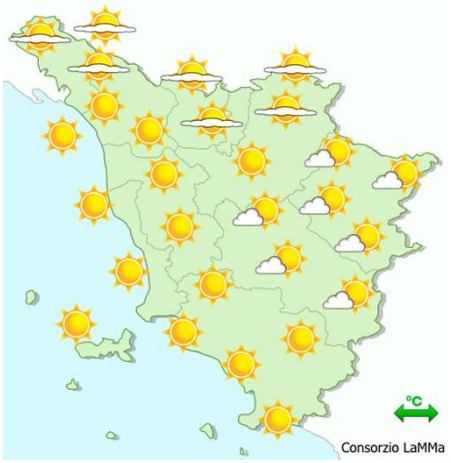


Meteosat HRV del 12 Agosto alle 14 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso. Parzialmente nuvoloso in Appennino nel pomeriggio.

Fenomeni: nessuno.

Venti: deboli occidentali.

Mari: poco mossi o temporaneamente mossi nella prima parte della giornata a nord dell'Elba.

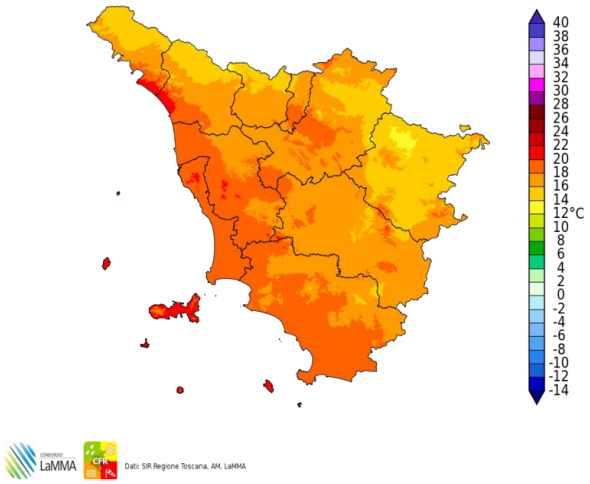
Temperature: minime in diminuzione, massime in lieve aumento.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	16	18	17	N.D.	18	20	18	18	20	19
	anomalia*	1	0	-1	N.D.	0	1	-1	0	0	0
T. max	osservata	32	34	33	N.D.	32	29	31	32	34	34
	anomalia*	1	2	2	N.D.	1	-1	1	0	2	3
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

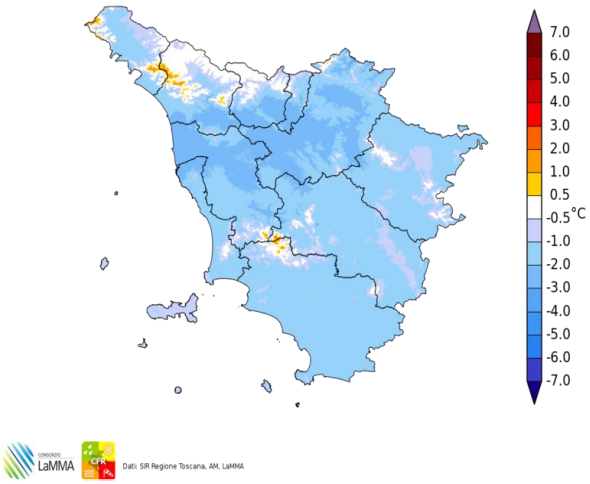
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

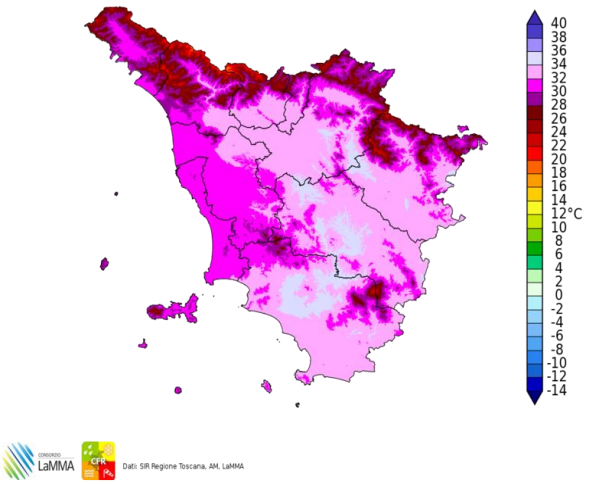
Temperatura Minima del 12/08/2018



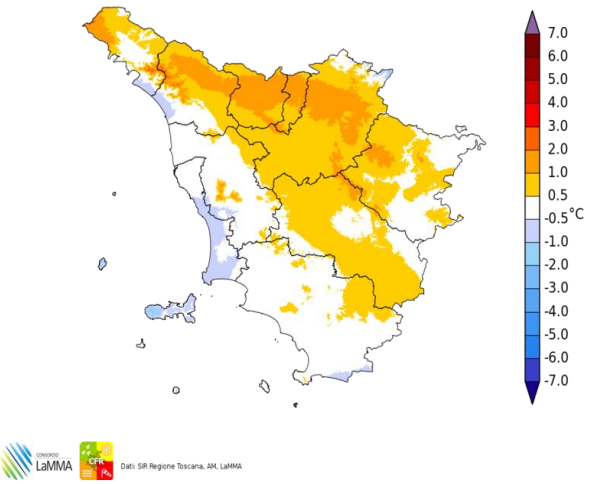
Differenza della Temperatura Minima tra 12/08/2018 e 11/08/2018



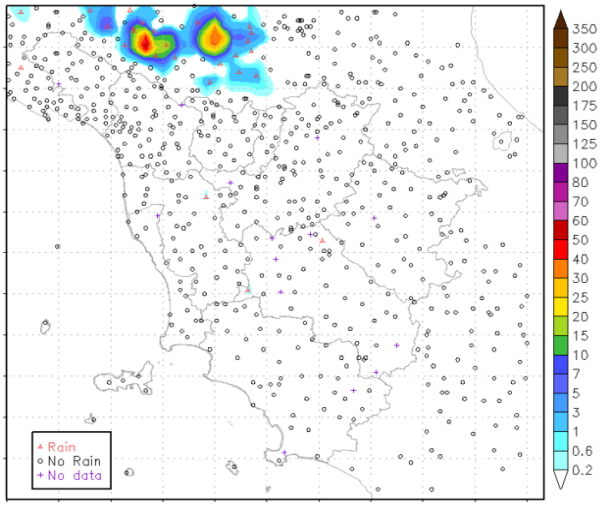
Temperatura Massima del 12/08/2018



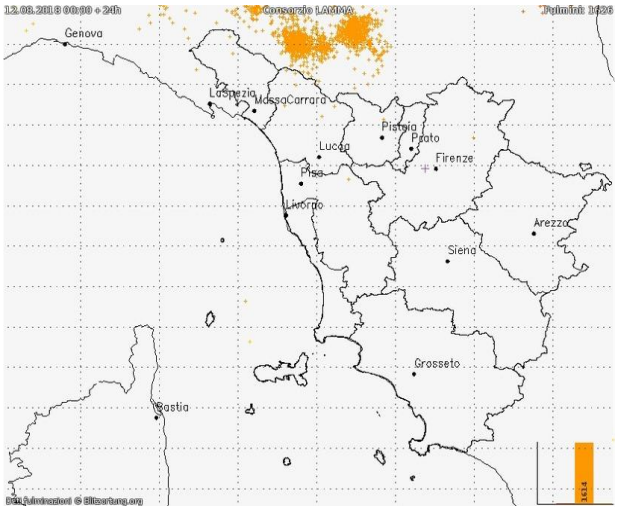
Differenza della Temperatura Massima tra 12/08/2018 e 11/08/2018



Total Precipitation [mm] cumulated on Sun, 12/08/2018

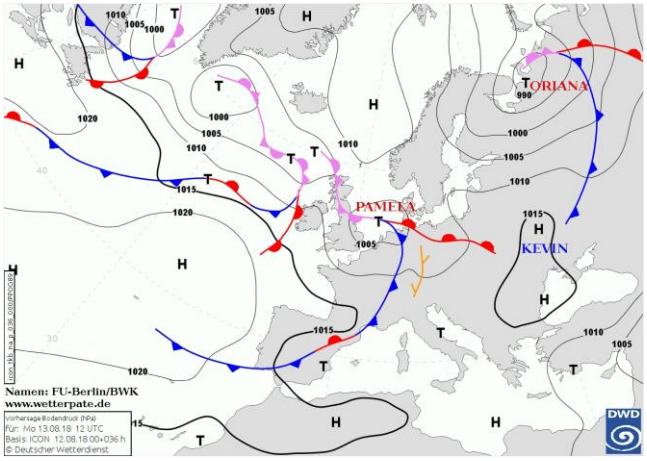


Fulminazioni osservate il giorno 12 Agosto

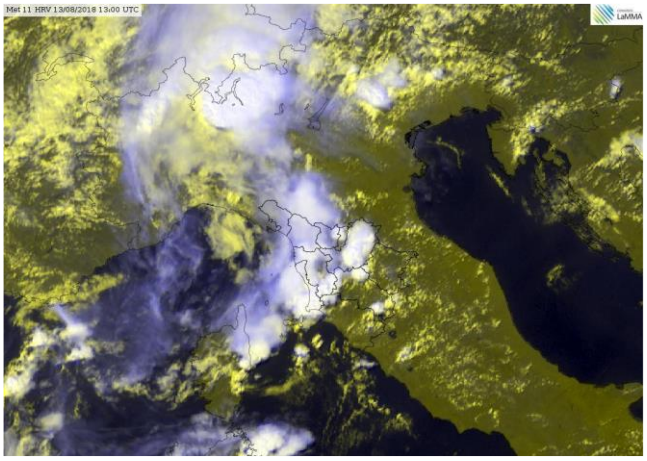


Lunedi' 13 Agosto 2018

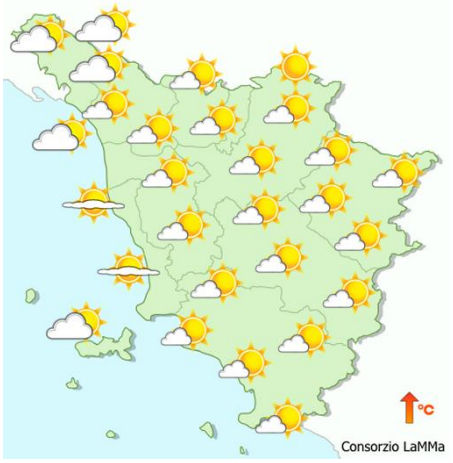
Situazione: pressione in graduale calo sul Mediterraneo centro-occidentale per l'avvicinamento di una linea di instabilità, collegata ad una saccatura atlantica.



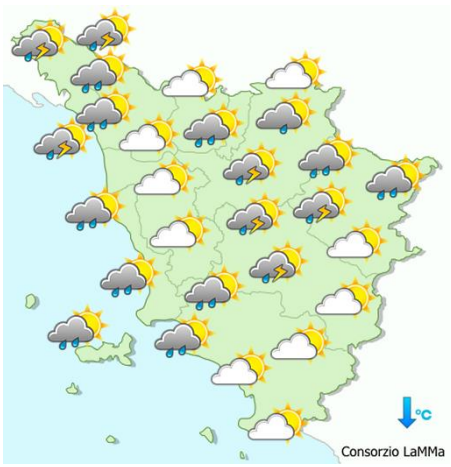
Pressione al suolo e fronti del 13 Agosto alle 12 UTC


Meteosat HRV del 13 Agosto alle 13 UTC

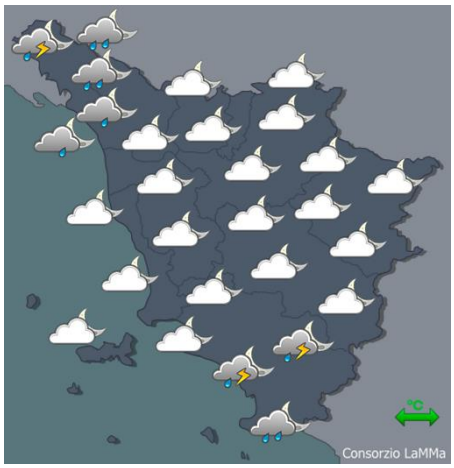
situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: in mattinata cielo da poco nuvoloso o parzialmente nuvoloso con nubi cumuliformi a tratti compatte su Ligure e nord ovest. Nel pomeriggio e in serata nuvolosità irregolare a tratti intensa.

Fenomeni: tra la tarda mattinata e il pomeriggio temporali a carattere sparso. Cumulati massimi puntuali fino a 40-50 mm sulle province di Firenze e Siena.

Venti: deboli da sud, sud-ovest.

Mari: poco mossi.

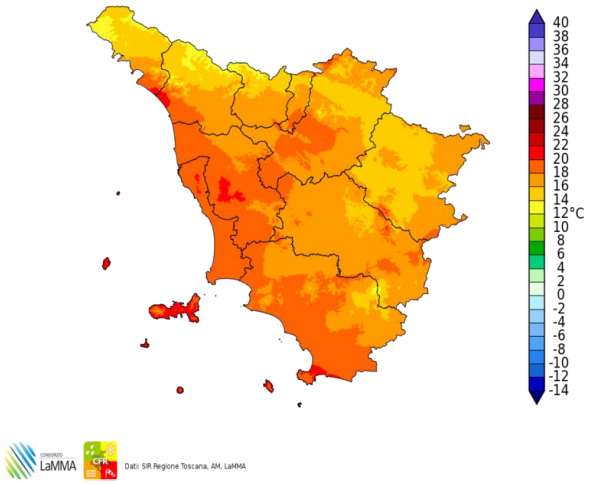
Temperature: minime stazionarie, massime in diminuzione.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	17	18	17	N.D.	18	20	18	17	19	20
	anomalia*	2	0	-1	N.D.	0	0	0	0	0	1
T. max	osservata	32	32	32	N.D.	30	28	31	30	32	30
	anomalia*	0	0	1	N.D.	-1	-2	1	-2	-1	0
Precipitazione (mm/24ore)		0	3	0	8	0	2	0	0	0	1

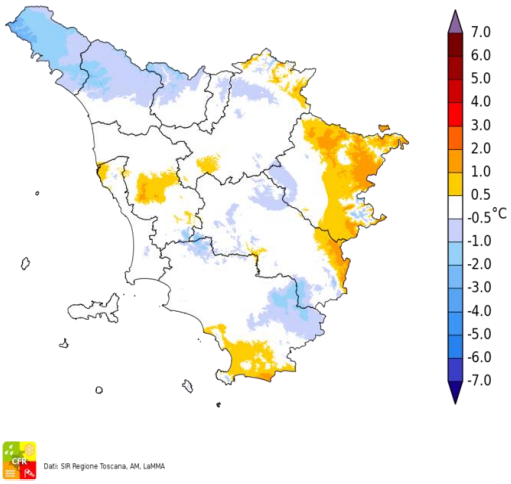
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

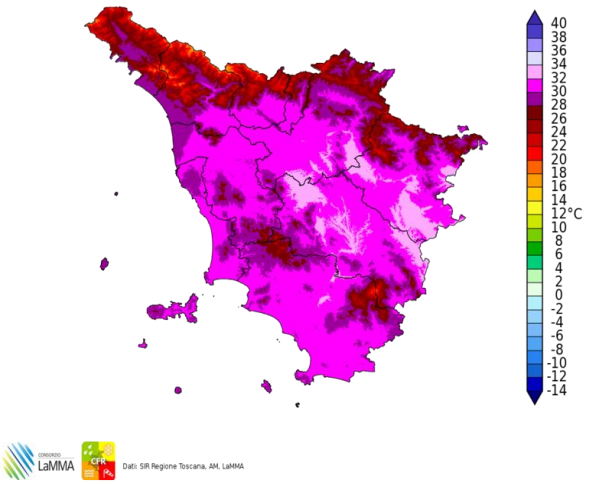
Temperatura Minima del 13/08/2018



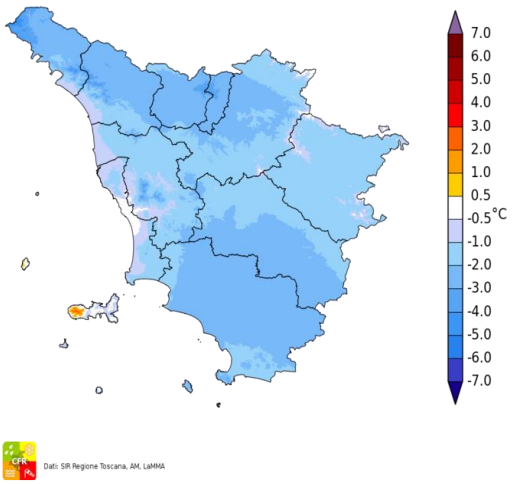
Differenza della Temperatura Minima tra 13/08/2018 e 12/08/2018



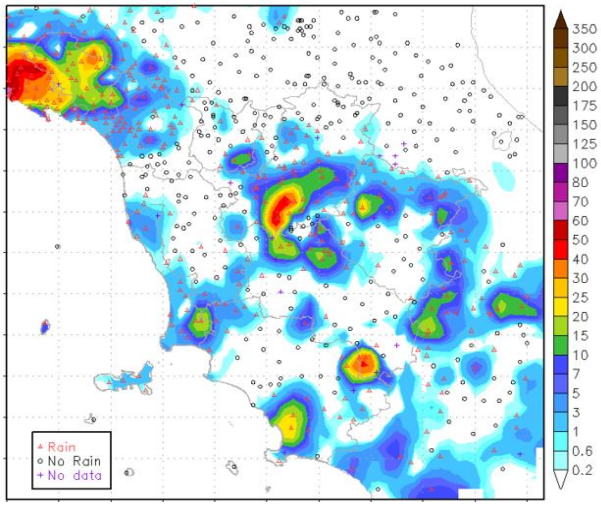
Temperatura Massima del 13/08/2018



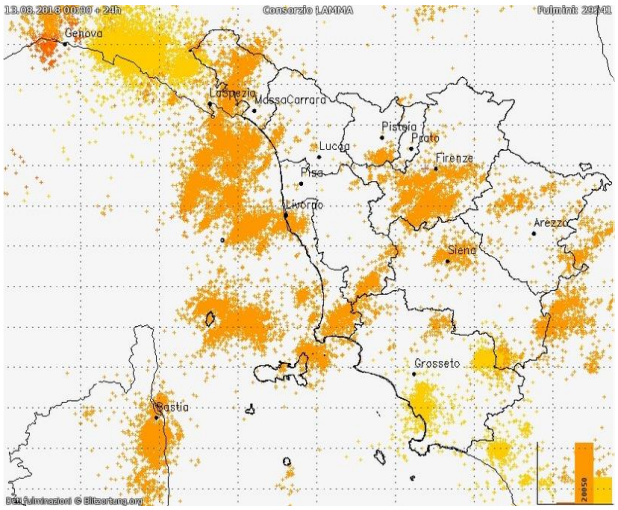
Differenza della Temperatura Massima tra 13/08/2018 e 12/08/2018



Total Precipitation [mm] cumulated on Mon, 13/08/2018

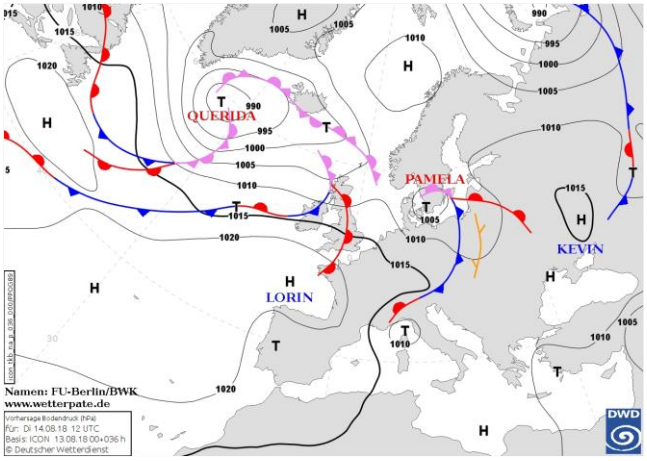


Fulminazioni osservate il giorno 13 Agosto

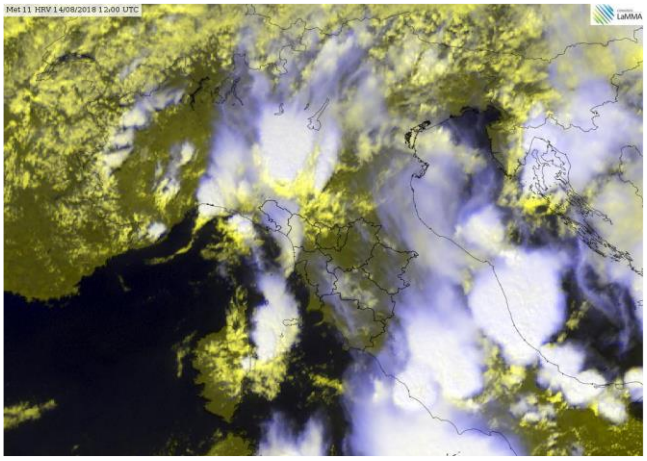


Martedi' 14 Agosto 2018

Situazione: una linea di instabilità, collegata ad una saccatura atlantica, interessa la nostra regione.

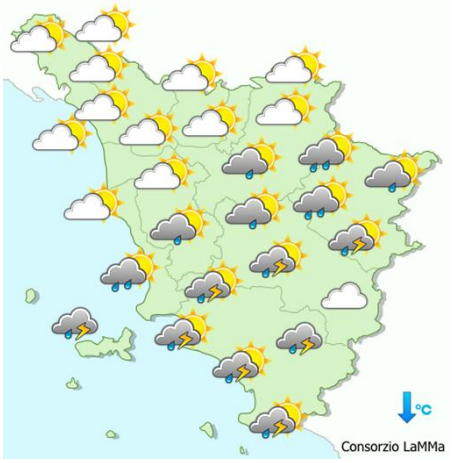


Pressione al suolo e fronti del 14 Agosto alle 12 UTC

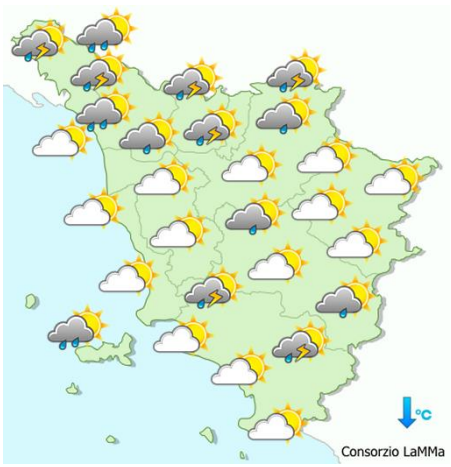


Meteosat HRV del 14 Agosto alle 12 UTC

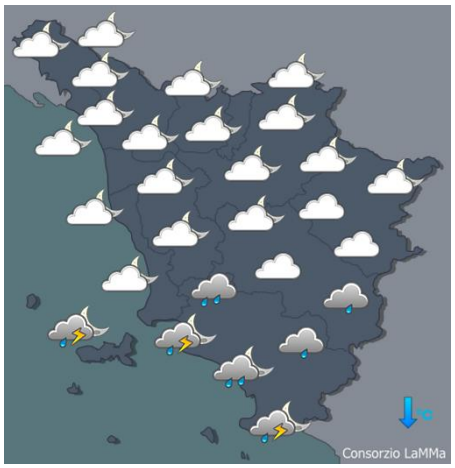
situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: molto nuvoloso con timide e locali schiarite tra fine mattinata e primo pomeriggio.

Fenomeni: precipitazioni sparse a prevalente carattere temporalesco, nottetempo e al primo mattino su Arcipelago, costa centrale e zone retrostanti e sul monte Argentario, tra fine mattina e pomeriggio in Maremma e successivamente in Appennino, in serata ancora in Appennino e nuvamente in Arcipelago.

Venti: deboli o temporaneamente moderati di direzione variabile.

Mari: mossi.

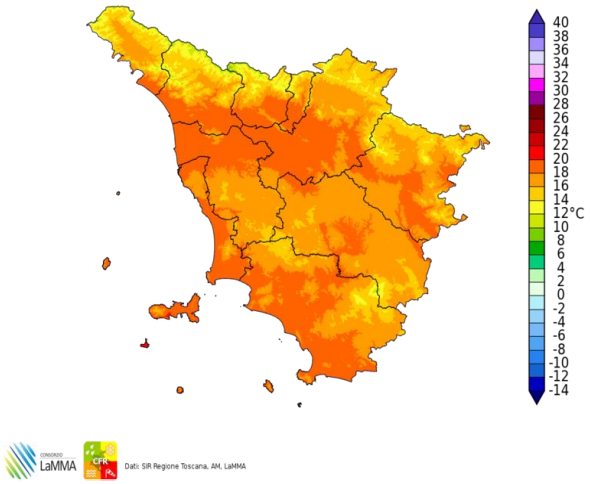
Temperature: massime in calo, non superiori a 30 gradi.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	20	19	19	N.D.	20	19	19	18	20	17
	anomalia*	5	0	1	N.D.	2	-1	1	0	1	-1
T. max	osservata	26	29	30	N.D.	29	28	28	28	29	27
	anomalia*	-6	-3	-1	N.D.	-2	-2	-2	-4	-3	-4
Precipitazione (mm/24ore)		6	3	29	20	1	7	32	10	3	5

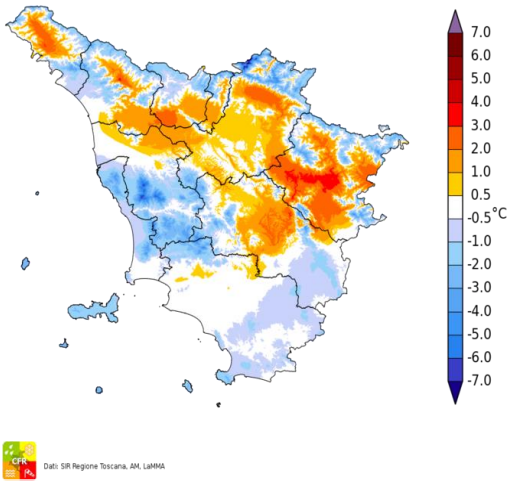
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

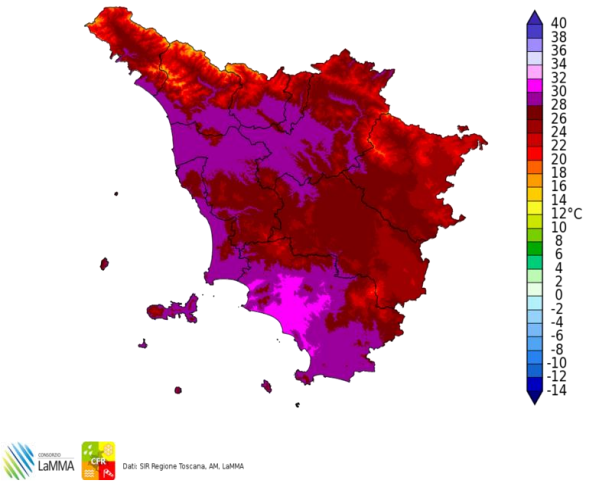
Temperatura Minima del 14/08/2018



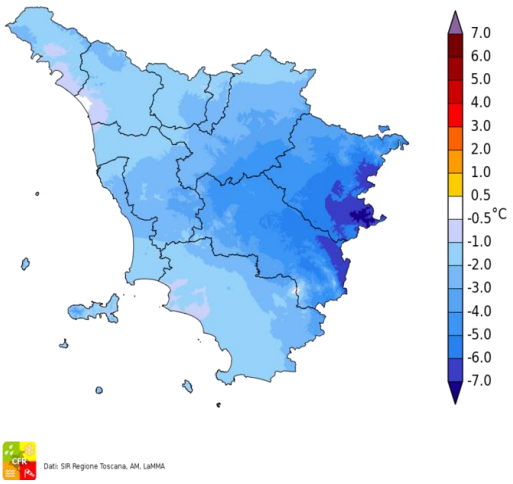
Differenza della Temperatura Minima tra 14/08/2018 e 13/08/2018



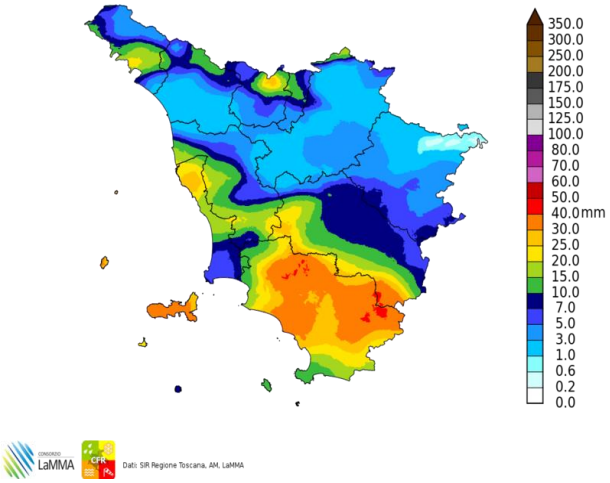
Temperatura Massima del 14/08/2018



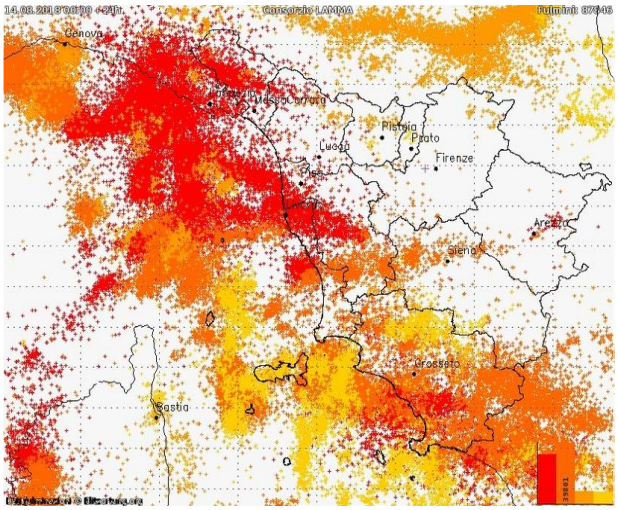
Differenza della Temperatura Massima tra 14/08/2018 e 13/08/2018



Precipitazione del 14/08/2018

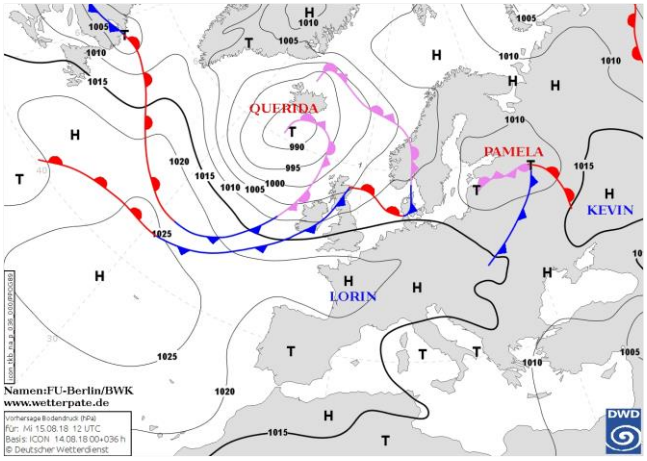


Fulminazioni osservate il giorno 14 Agosto

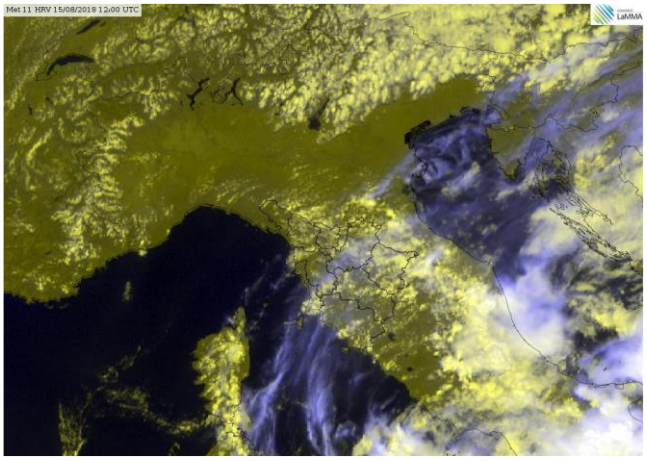


Mercoledi' 15 Agosto 2018

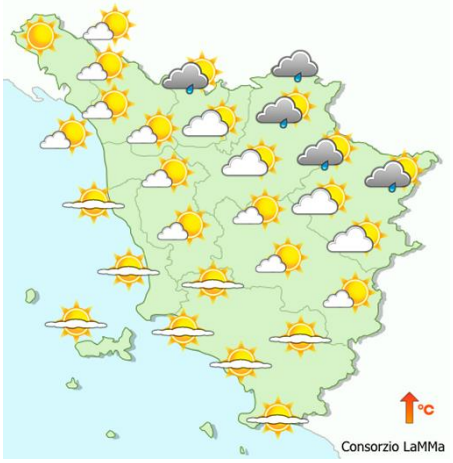
Situazione: pressione in aumento sul centro-nord Italia per la progressiva espansione verso levante dell'anticiclone delle Azzorre. Una circolazione depressionaria interessa il sud della penisola, muovendosi lentamente verso est



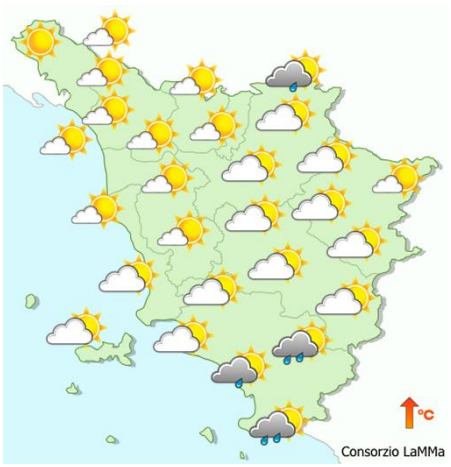
Pressione al suolo e fronti del 15 Agosto alle 12 UTC


Meteosat HRV del 15 Agosto alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: parzialmente nuvoloso con addensamenti più compatti in mattinata sull'Appennino fiorentino e aretino e nel pomeriggio sulle zone meridionali.

Fenomeni: piogge e rovesci nella notte e in mattinata sulle zone appenniniche (in particolare Appennino pratese e fiorentino). Nel pomeriggio locali piogge sull'Appennino aretino e fiorentino e sul grossetano.

Venti: tra deboli e localmente moderati da nord-est.

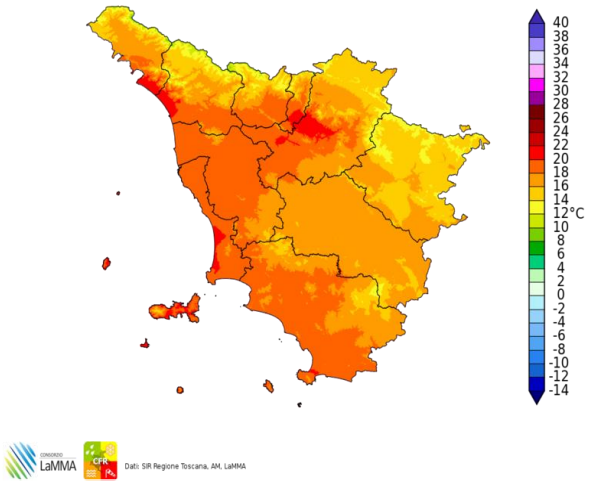
Mari: mossi con moto ondoso in attenuazione.

Temperature: in leggero aumento sulle zone meridionali e occidentali, stazionarie o in lieve calo altrove.

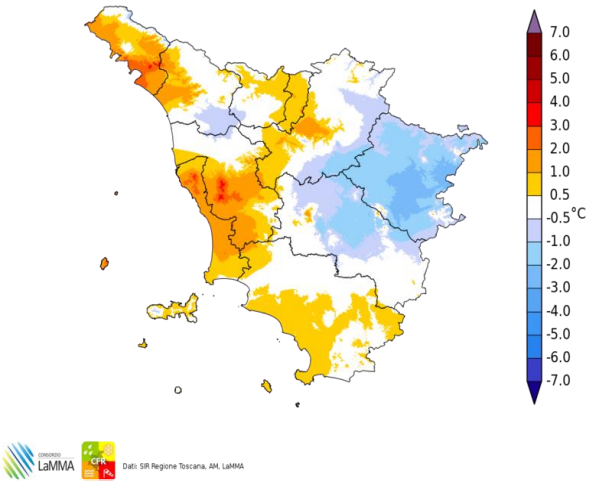
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	17	20	19	N.D.	19	22	18	19	20	18
	anomalia*	2	1	1	N.D.	1	2	0	1	1	-1
T. max	osservata	28	30	31	N.D.	30	30	31	29	29	28
	anomalia*	-3	-2	0	N.D.	-1	0	1	-3	-3	-3
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	1	0	0

*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

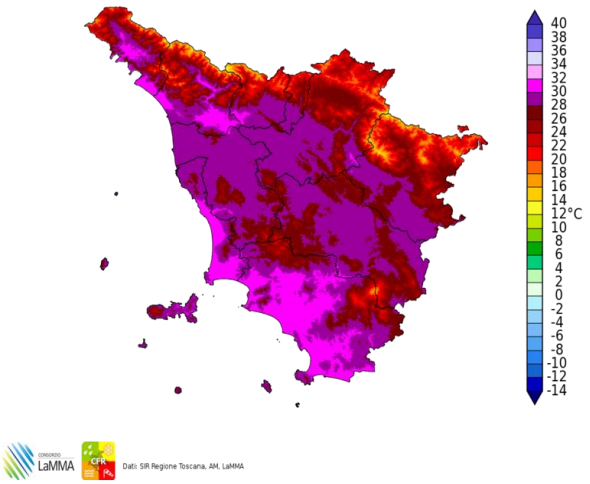
Temperatura Minima del 15/08/2018



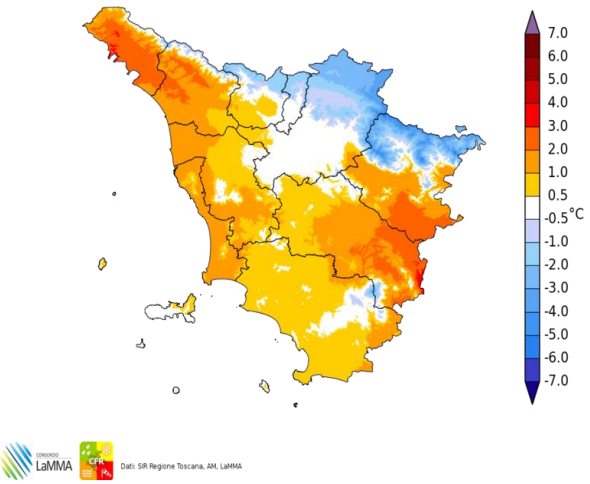
Differenza della Temperatura Minima tra 15/08/2018 e 14/08/2018



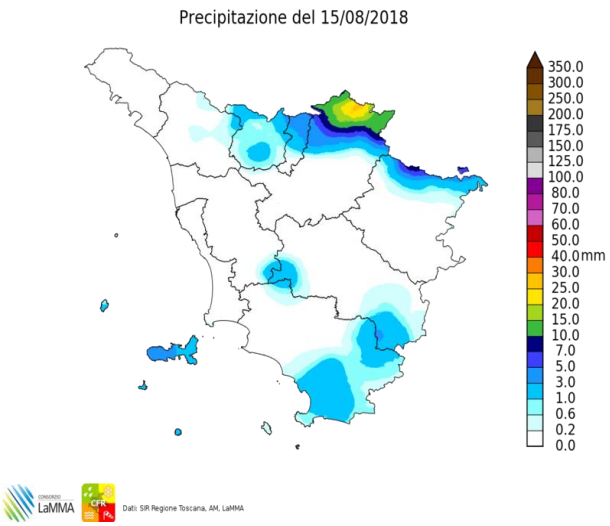
Temperatura Massima del 15/08/2018



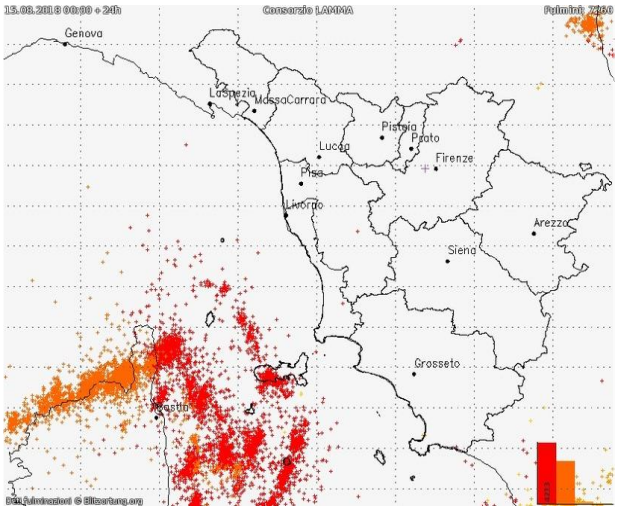
Differenza della Temperatura Massima tra 15/08/2018 e 14/08/2018



Precipitazione del 15/08/2018

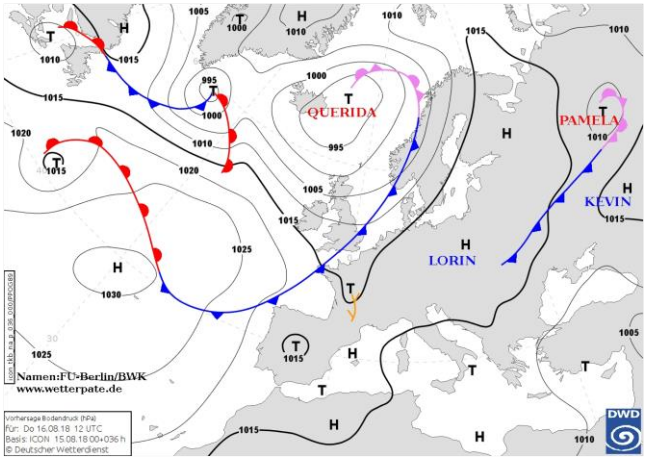


Fulminazioni osservate il giorno 15 Agosto

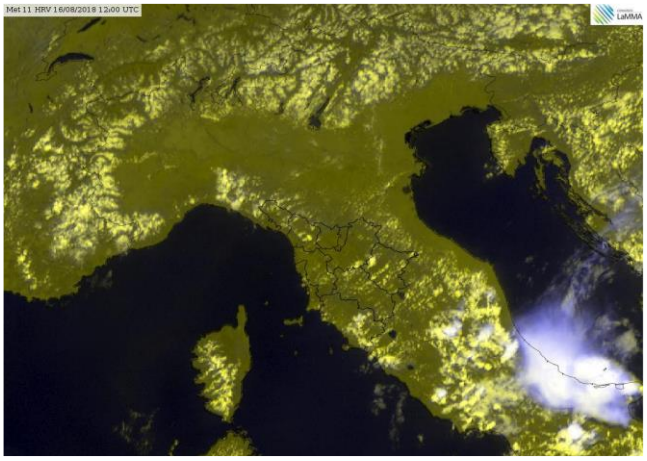


Giovedi' 16 Agosto 2018

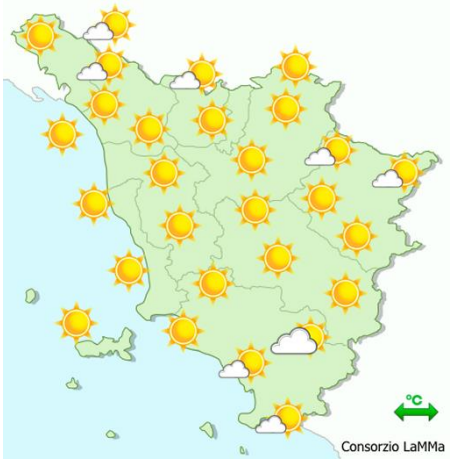
Situazione: pressione in aumento sul centro-nord Italia per la progressiva espansione verso levante dell'anticiclone delle Azzorre.



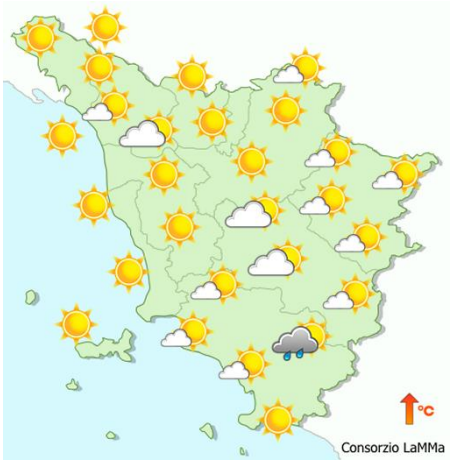
Pressione al suolo e fronti del 16 Agosto alle 12 UTC


Meteosat HRV del 16 Agosto alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno al mattino e in serata, poco o parzialmente nuvoloso nel pomeriggio per modesti addendamenti su senese e

Fenomeni: isolati piovaschi su senese e grossetano nel pomeriggio.

Venti: deboli o temporaneamente moderati settentrionali (Maestrale sulla costa, Grecale nelle zone interne).

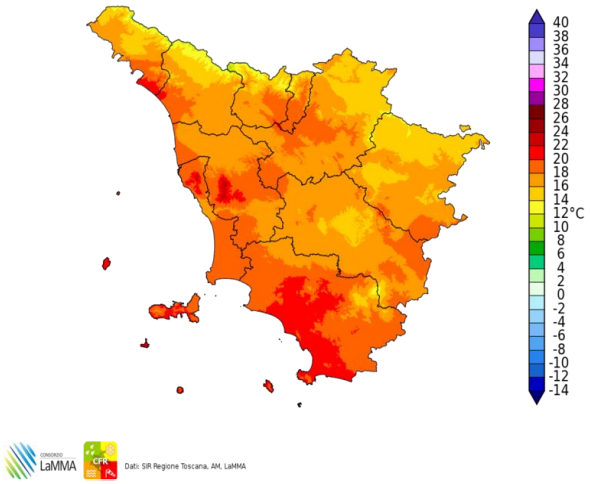
Mari: poco mossi o temporaneamente mossi nel pomeriggio i settori meridionali.

Temperature: massime in aumento.

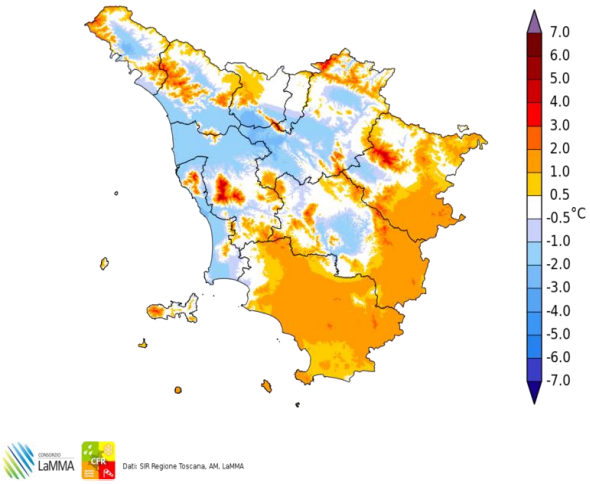
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	16	18	20	N.D.	17	20	16	18	21	20
	anomalia*	1	0	2	N.D.	-1	1	-2	1	2	2
T. max	osservata	31	32	33	N.D.	34	31	32	31	32	32
	anomalia*	-1	0	1	N.D.	2	1	2	-1	-1	2
Precipitazione (mm/24ore)		N.D.	0	0	0	0	0	N.D.	0	0	0

*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

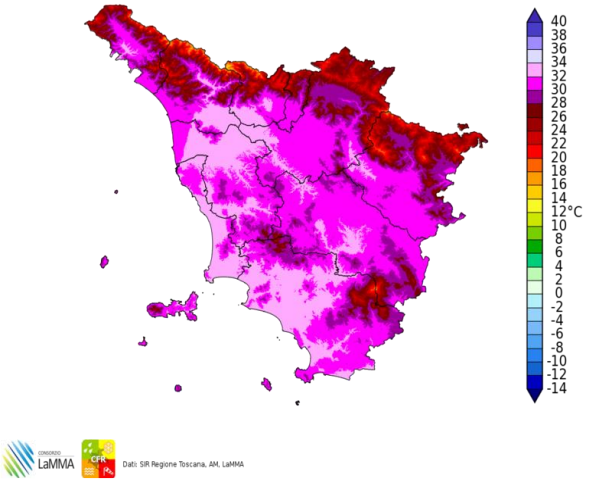
Temperatura Minima del 16/08/2018



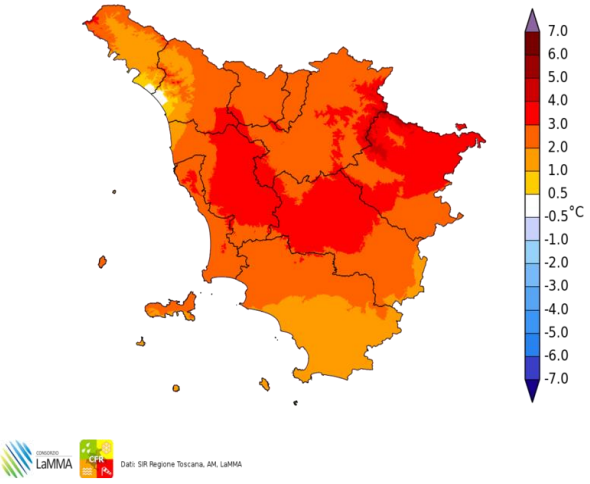
Differenza della Temperatura Minima tra 16/08/2018 e 15/08/2018



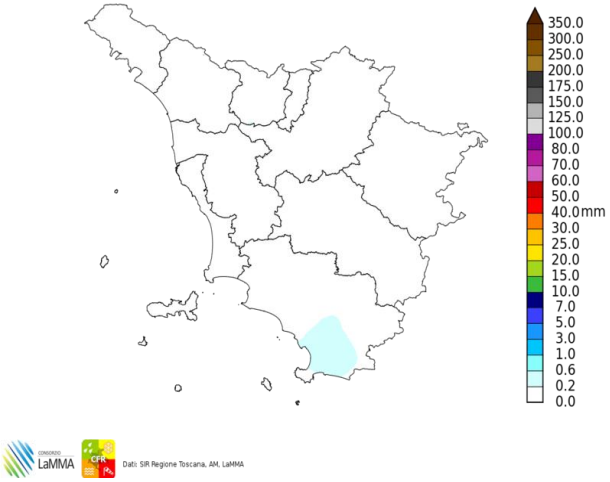
Temperatura Massima del 16/08/2018



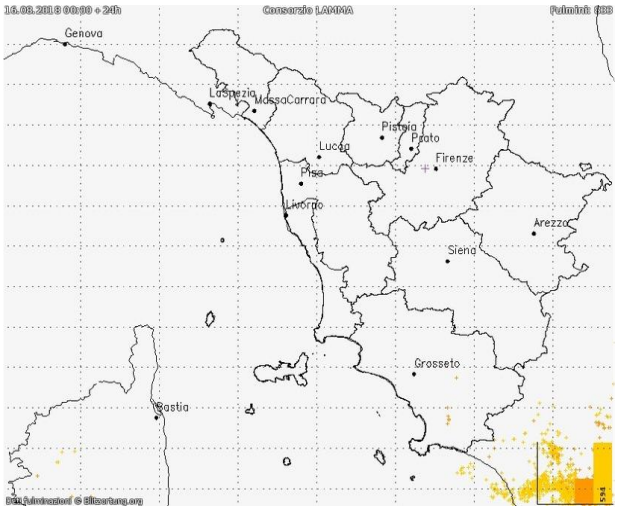
Differenza della Temperatura Massima tra 16/08/2018 e 15/08/2018



Precipitazione del 16/08/2018

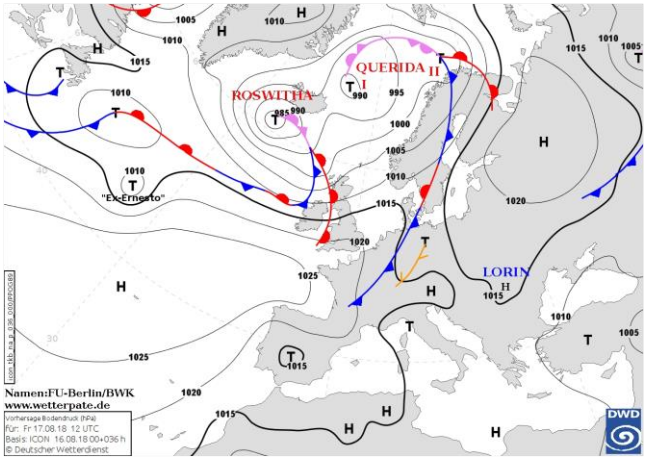


Fulminazioni osservate il giorno 16 Agosto

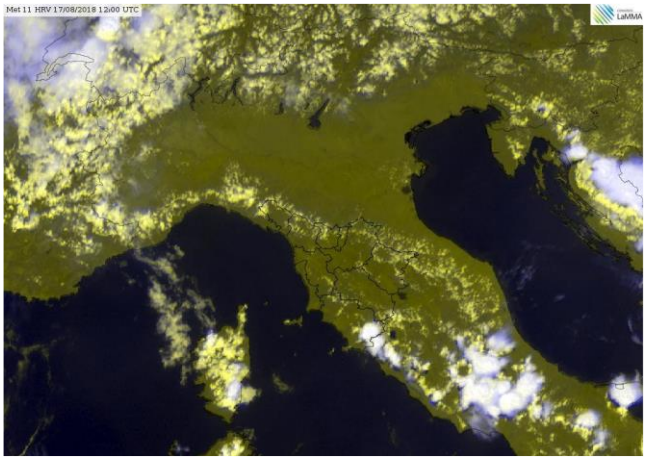


Venerdi' 17 Agosto 2018

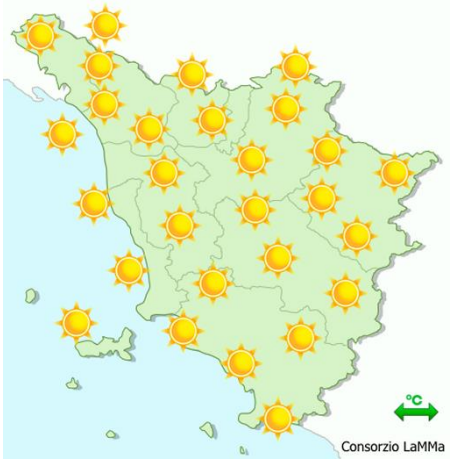
Situazione: alta pressione (1014-1016 hPa) sul Mediterraneo centro-occidentale associata a modesta instabilità pomeridiana.



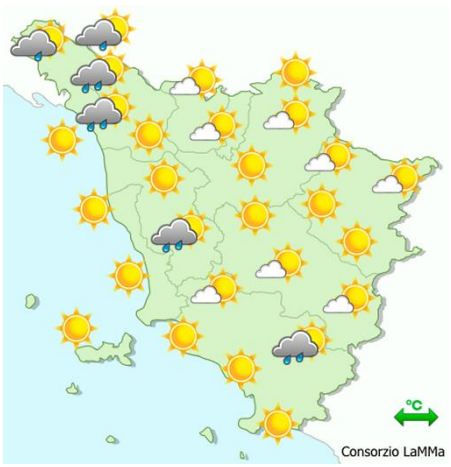
Pressione al suolo e fronti del 17 Agosto alle 12 UTC


Meteosat HRV del 17 Agosto alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: inizialmente sereno con aumento delle nubi di tipo cumuliforme durante le ore centrali della giornata nelle zone

Fenomeni: rovesci isolati a ridosso dei rilievi (Appennino occidentale, Amiata e Colline Metallifere).

Venti: deboli a regime di brezza con rinforzi di Maestrale al pomeriggio lungo la costa.

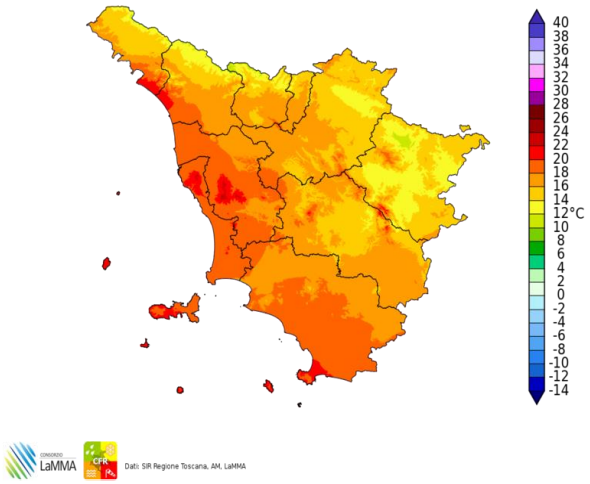
Mari: poco mossi.

Temperature: minime in calo, massime in aumento nelle zone interne.

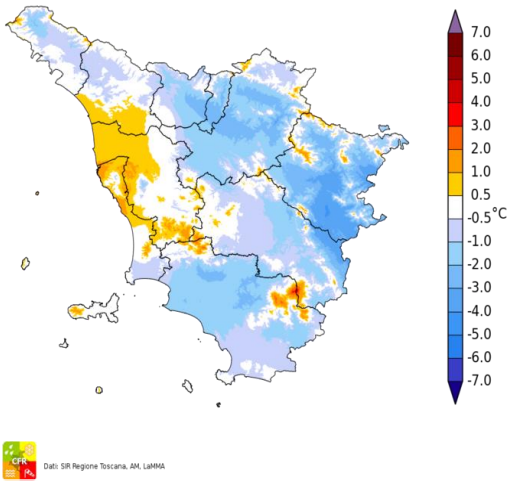
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	14	16	19	N.D.	18	20	17	16	19	20
	anomalia*	-1	-3	1	N.D.	0	1	-1	-2	0	1
T. max	osservata	31	33	32	N.D.	32	29	30	32	33	32
	anomalia*	0	1	1	N.D.	1	-1	0	0	1	2
Precipitazione (mm/24ore)		0	0	0	0	0	0	N.D.	0	0	0

*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

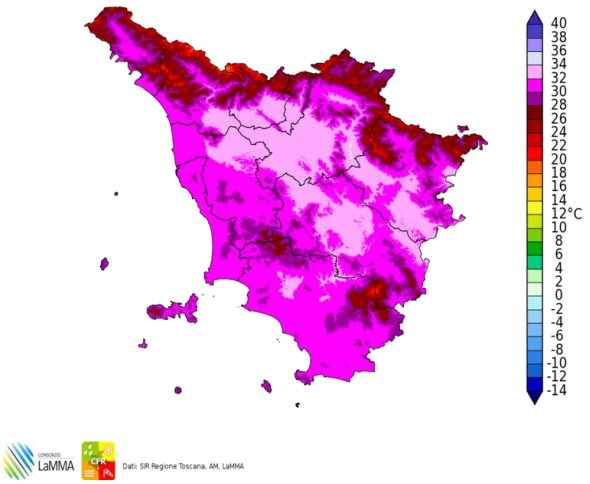
Temperatura Minima del 17/08/2018



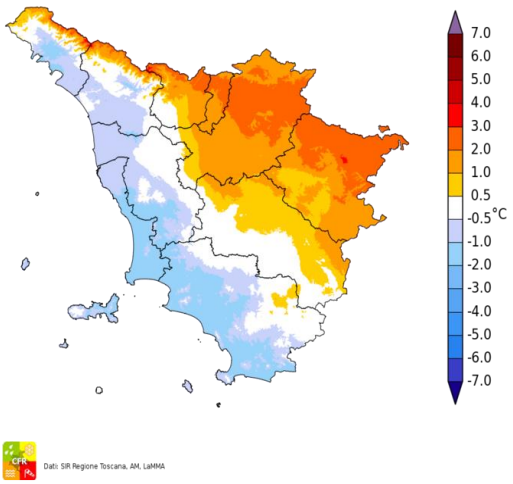
Differenza della Temperatura Minima tra 17/08/2018 e 16/08/2018



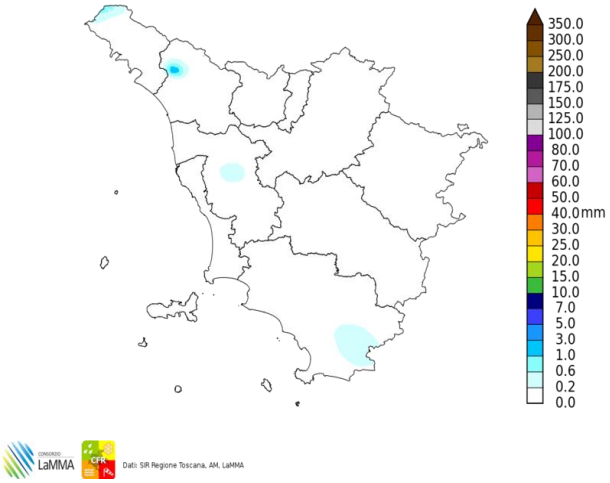
Temperatura Massima del 17/08/2018



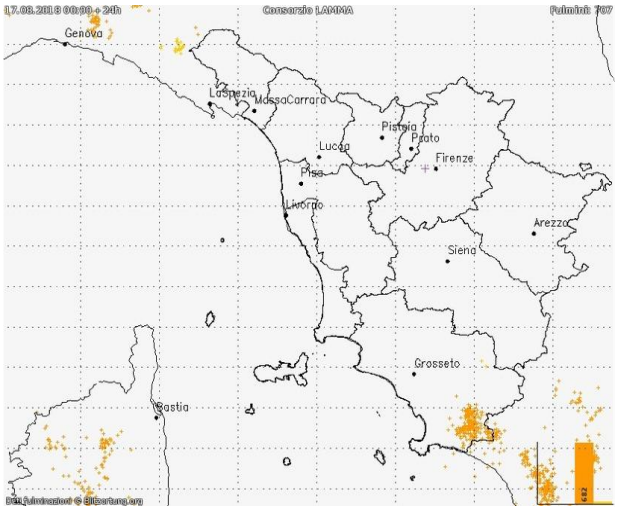
Differenza della Temperatura Massima tra 17/08/2018 e 16/08/2018



Precipitazione del 17/08/2018

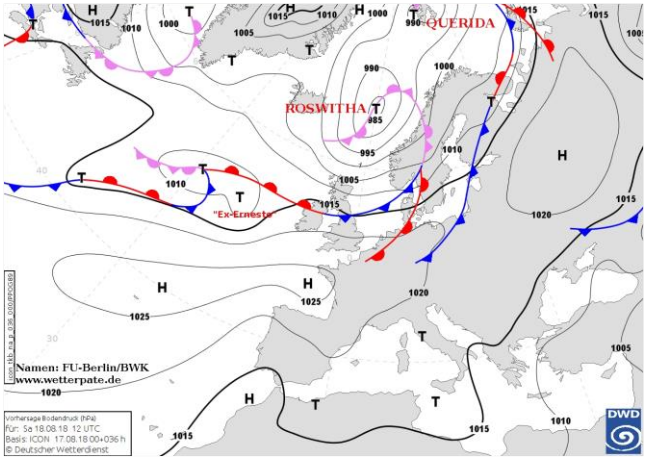


Fulminazioni osservate il giorno 17 Agosto

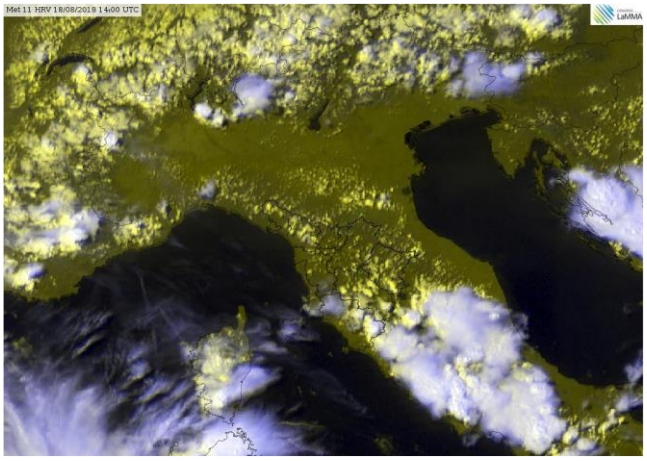


Sabato 18 Agosto 2018

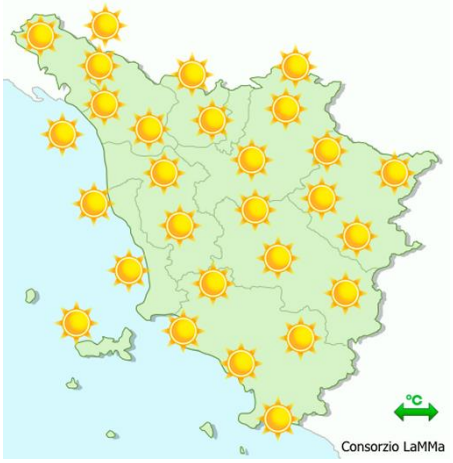
Situazione: sul Mediterraneo Centrale permangono condizioni di alta pressione che garantiscono tempo prevalentemente soleggiato su gran parte d'Italia. Infiltrazioni di aria più fresca in quota determinano tuttavia condizioni di instabilità atmosferica pomeridiana sulle Alpi e sulle zone centro-meridionali della penisola, in particolare lungo la dorsale appenninica.



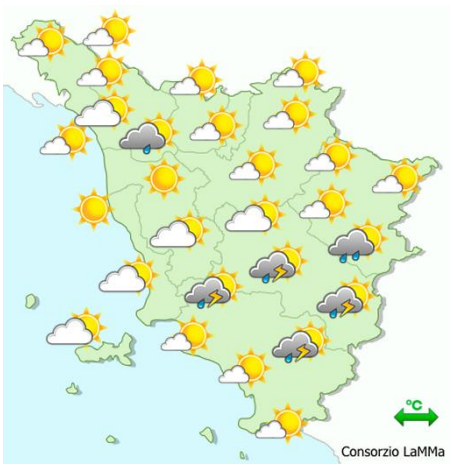
Pressione al suolo e fronti del 18 Agosto alle 12 UTC


Meteosat HRV del 18 Agosto alle 14 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno con sviluppo di nuvolosità cumuliforme nelle ore centrali della giornata.

Fenomeni: temporali sulle zone centro-meridionali nel corso del pomeriggio.

Venti: deboli a regime di brezza.

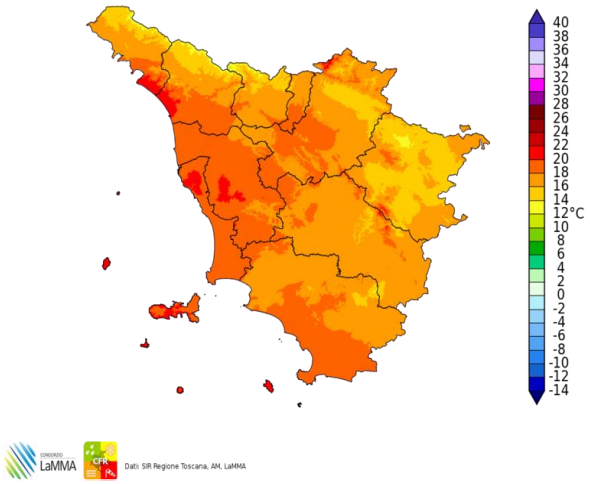
Mari: poco mossi.

Temperature: in aumento.

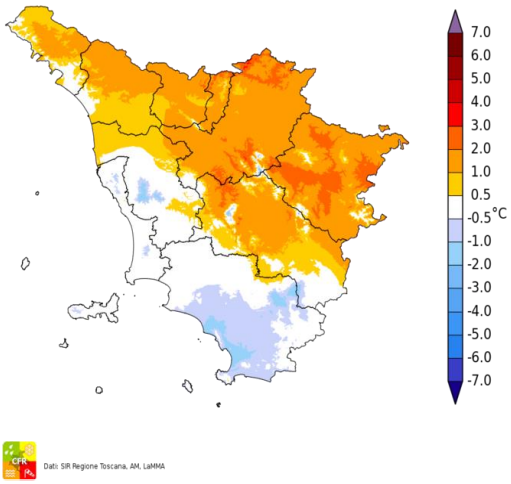
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	16	18	18	N.D.	19	21	18	17	20	20
	anomalia*	2	-1	0	N.D.	1	2	0	0	1	1
T. max	osservata	32	34	33	N.D.	34	30	33	33	34	33
	anomalia*	0	2	2	N.D.	3	0	3	1	1	3
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	3

*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

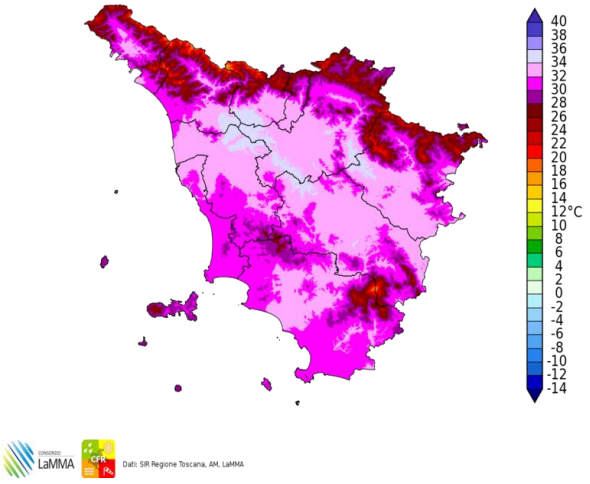
Temperatura Minima del 18/08/2018



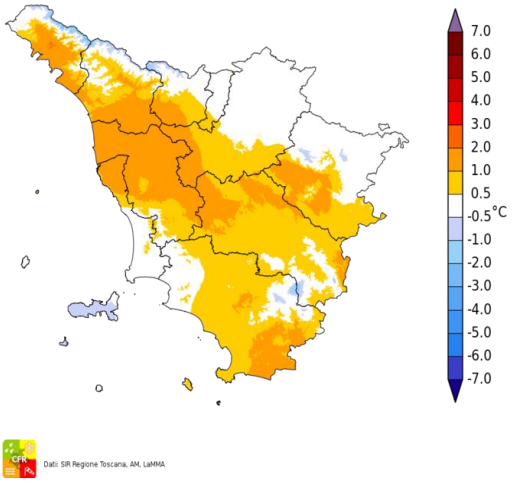
Differenza della Temperatura Minima tra 18/08/2018 e 17/08/2018



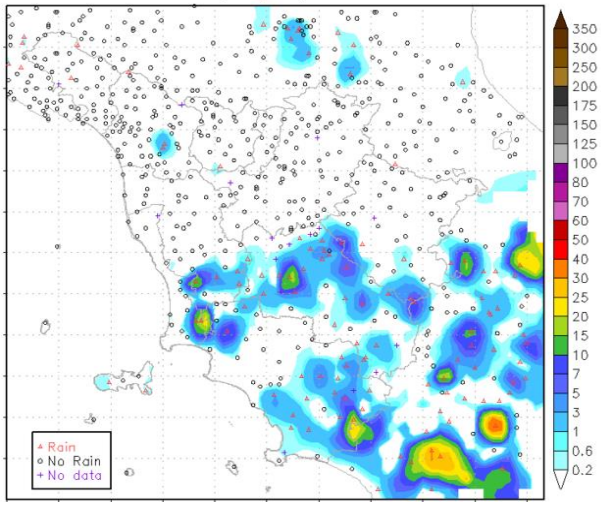
Temperatura Massima del 18/08/2018



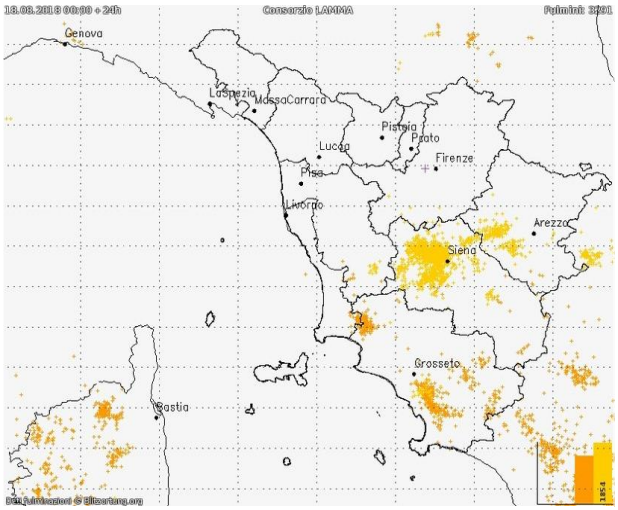
Differenza della Temperatura Massima tra 18/08/2018 e 17/08/2018



Total Precipitation [mm] cumulated on Sat, 18/08/2018

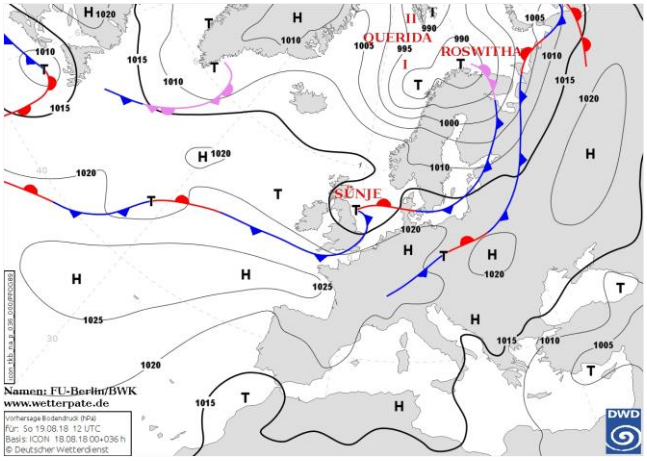


Fulminazioni osservate il giorno 18 Agosto

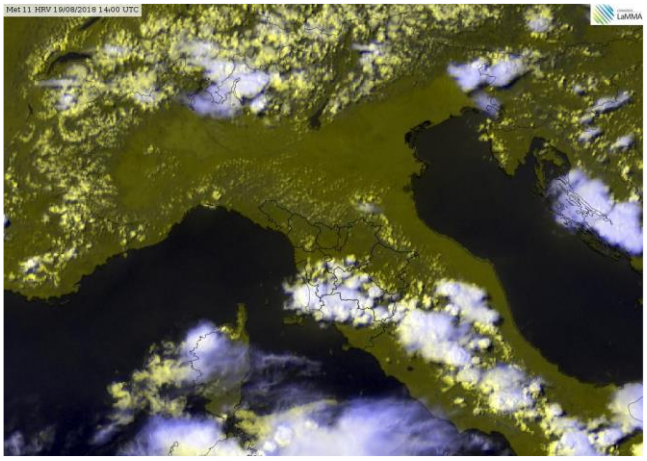


Domenica 19 Agosto 2018

Situazione: prevalenza di alta pressione sul Mediterraneo centro-occidentale, tuttavia infiltrazioni di aria fresca in quota determinano instabilità atmosferica.

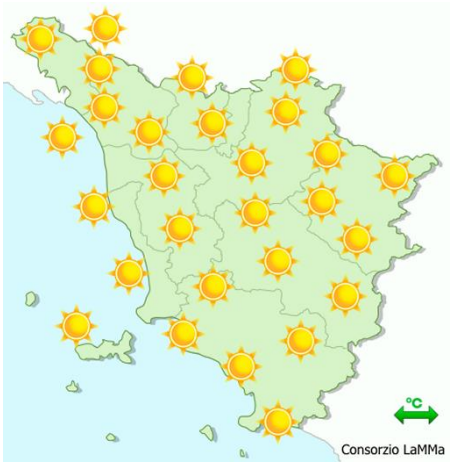


Pressione al suolo e fronti del 19 Agosto alle 12 UTC

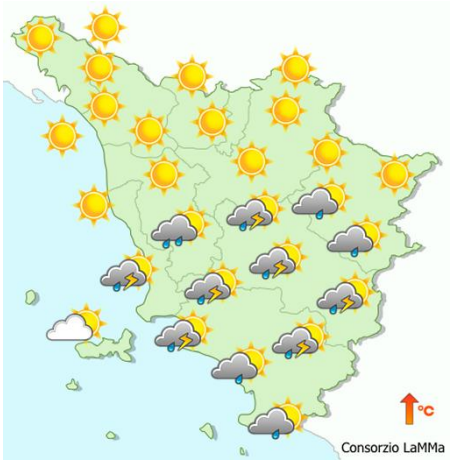


Meteosat HRV del 19 Agosto alle 14 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno al mattino, sviluppo di nuvolosità cumuliforme sulle zone meridionali nel pomeriggio.

Fenomeni: temporali anche intensi sulle zone meridionali. Cumulati massimi fino a 60 mm a Monticiano (SI) in poco più di un'ora.

Venti: deboli settentrionali con rinforzi di Maestrale lungo la costa nel pomeriggio.

Mari: poco mossi.

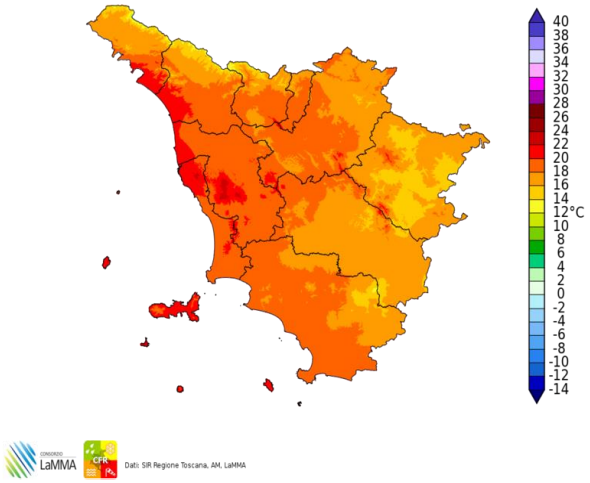
Temperature: in aumento.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	16	18	19	N.D.	19	22	18	18	22	20
	anomalia*	2	0	1	N.D.	1	2	0	1	3	1
T. max	osservata	28	30	29	N.D.	35	34	27	33	33	32
	anomalia*	-3	-2	-2	N.D.	4	4	-3	1	1	2
Precipitazione (mm/24ore)		0	0	3	0	0	0	N.D.	0	0	4

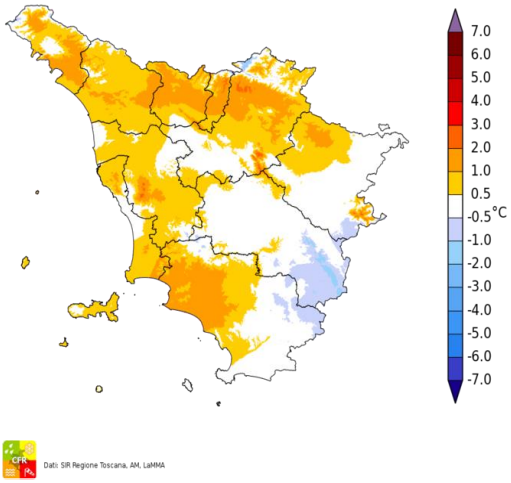
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

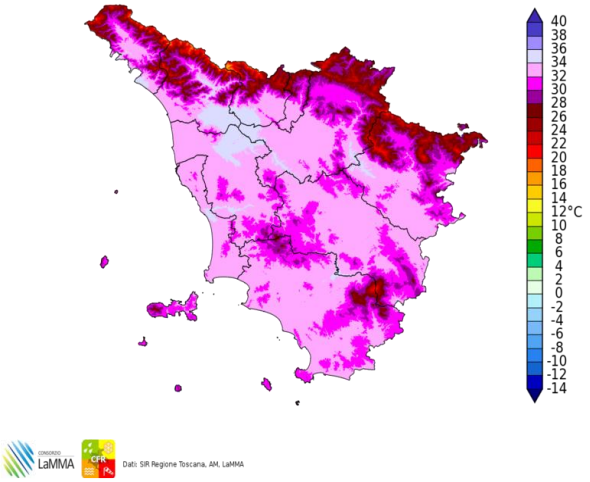
Temperatura Minima del 19/08/2018



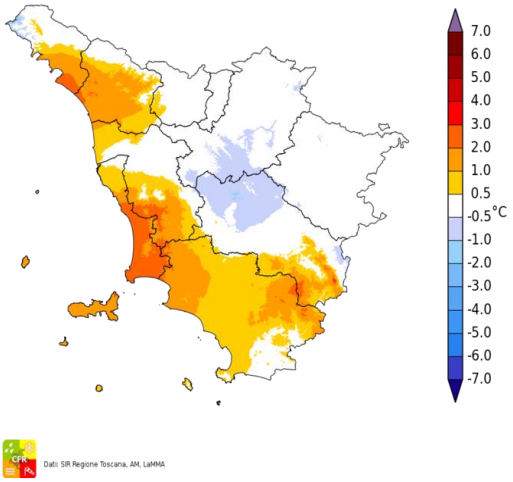
Differenza della Temperatura Minima tra 19/08/2018 e 18/08/2018



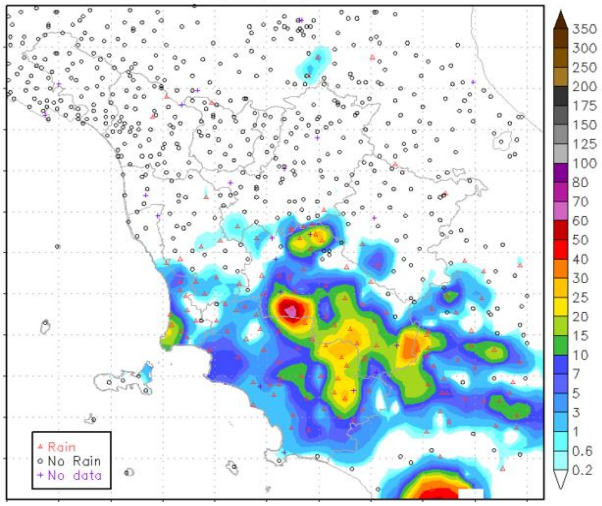
Temperatura Massima del 19/08/2018



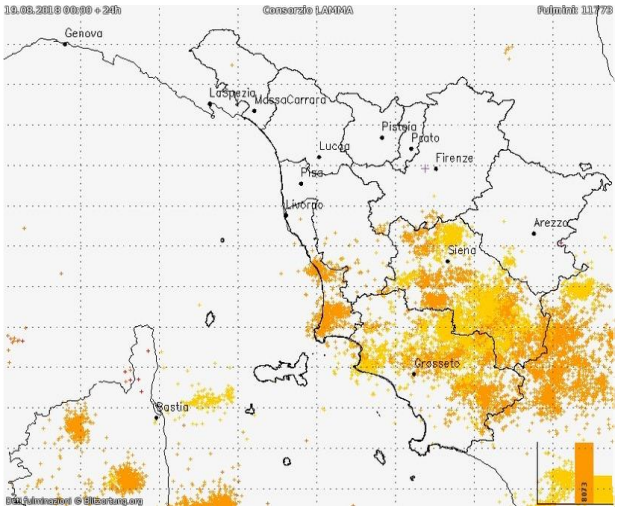
Differenza della Temperatura Massima tra 19/08/2018 e 18/08/2018



Total Precipitation [mm] cumulated on Sun, 19/08/2018

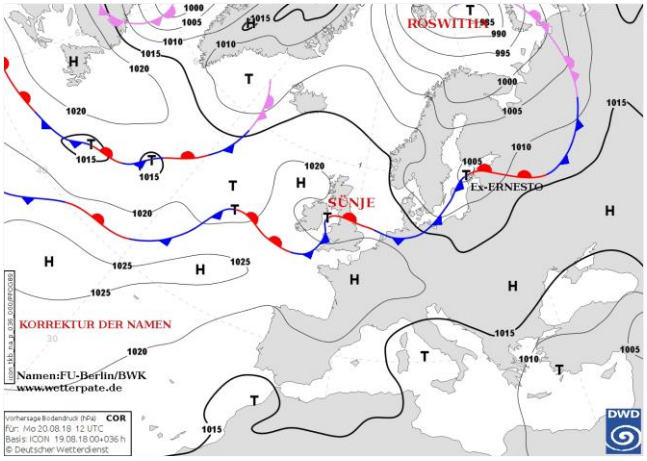


Fulminazioni osservate il giorno 19 Agosto

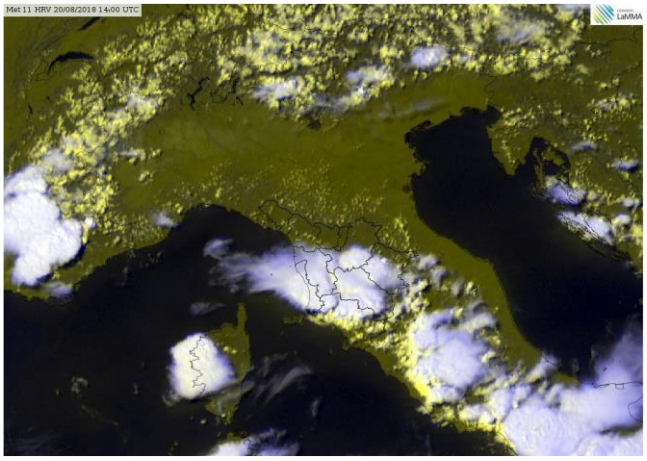


Lunedi' 20 Agosto 2018

Situazione: alta pressione sul Mediterraneo occidentale, bassa pressione su quello orientale.

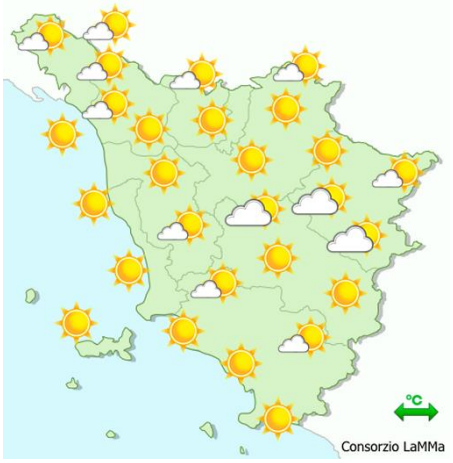


Pressione al suolo e fronti del 20 Agosto alle 12 UTC

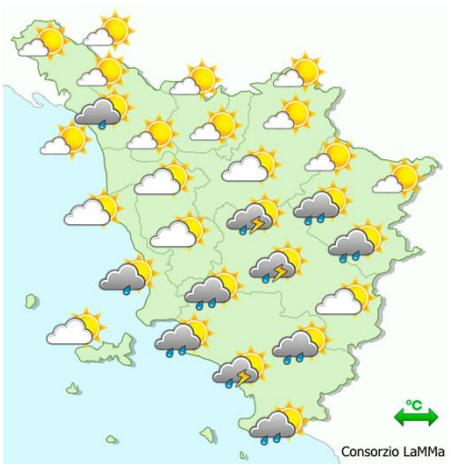


Meteosat HRV del 20 Agosto alle 14 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso in mattinata, nuvoloso nel pomeriggio.

Fenomeni: temporali sulle zone interne centro-meridionali, in sconfinamento anche alla fascia costiera. Fenomeni localmente anche forti e accompagnati da colpi di vento.

Venti: deboli settentrionali con rinforzi di Maestrale sulla costa nel pomeriggio.

Mari: quasi calmi o poco mossi.

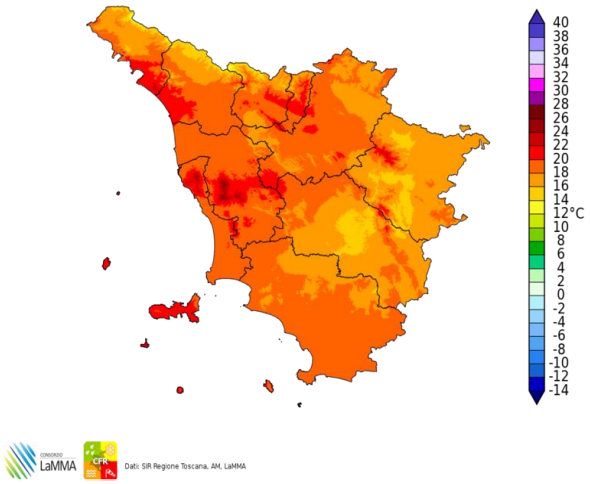
Temperature: stazionarie o in lieve aumento, con punte superiori a 35 gradi.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	17	18	17	N.D.	20	22	18	20	23	19
	anomalia*	2	0	-1	N.D.	1	2	0	2	3	0
T. max	osservata	33	36	35	N.D.	35	34	34	34	35	32
	anomalia*	2	3	4	N.D.	3	4	4	1	2	2
Precipitazione (mm/24ore)		0	0	8	0	0	0	0	0	0	6

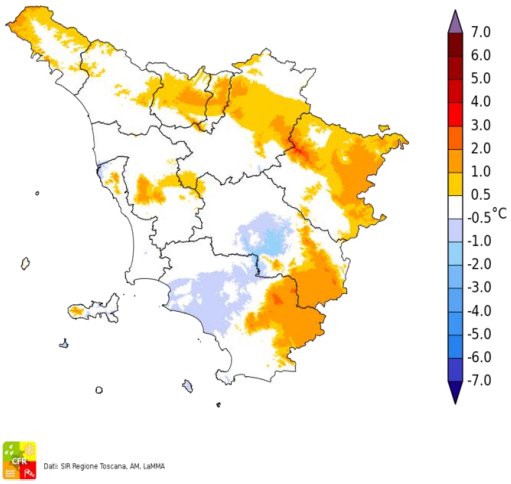
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

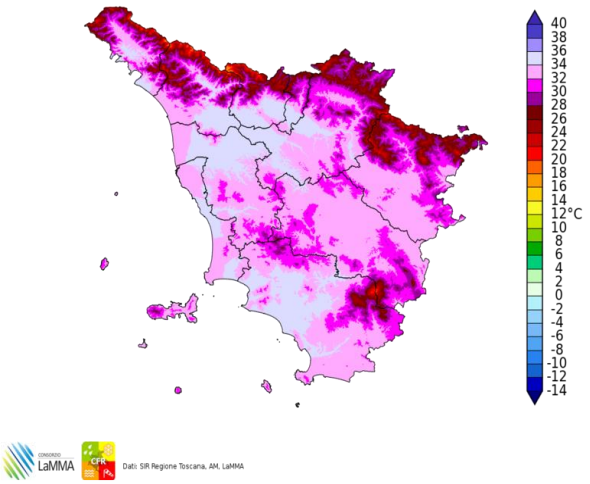
Temperatura Minima del 20/08/2018



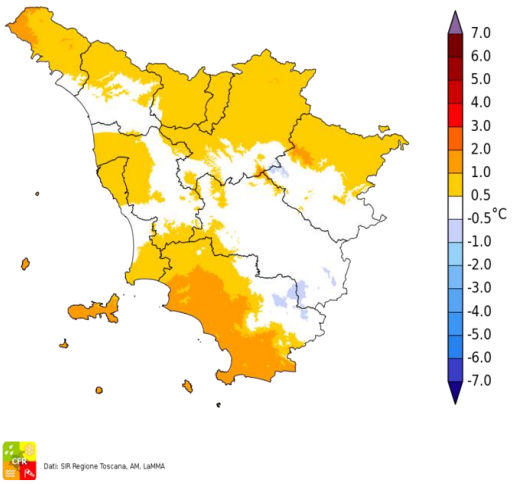
Differenza della Temperatura Minima tra 20/08/2018 e 19/08/2018



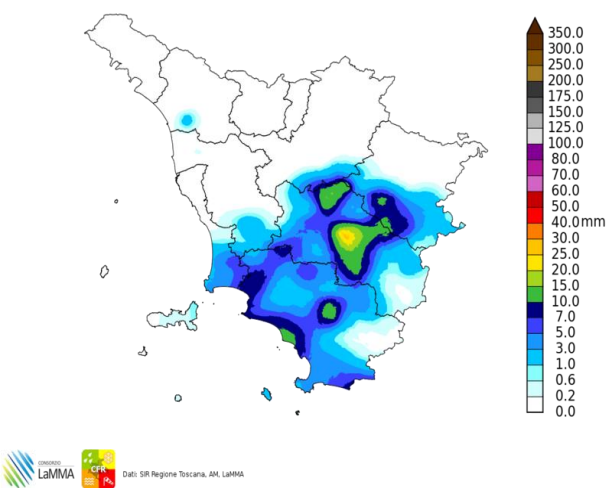
Temperatura Massima del 20/08/2018



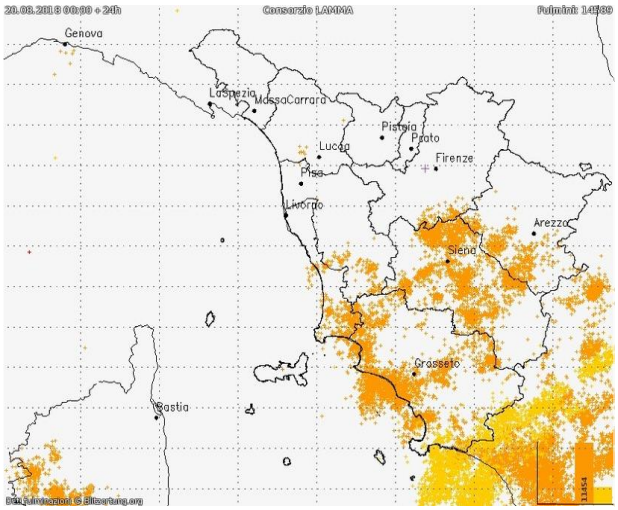
Differenza della Temperatura Massima tra 20/08/2018 e 19/08/2018



Precipitazione del 20/08/2018



Fulminazioni osservate il giorno 20 Agosto

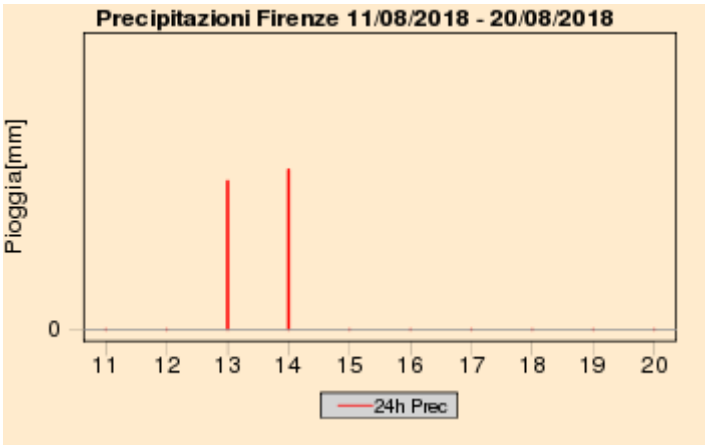


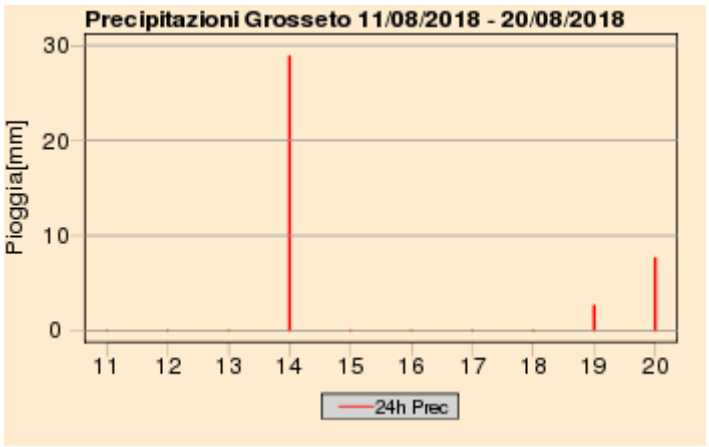
II decade - Quadro regionale – Precipitazioni

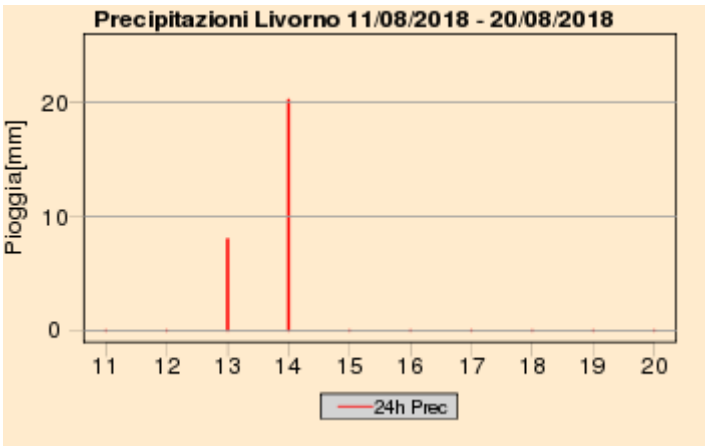
La seconda decade di Agosto ha fatto registrare nel complesso precipitazioni superiori alle medie climatologiche, in particolare sulle province di Livorno, Siena e Grosseto e su parte delle province di Firenze e Pisa.

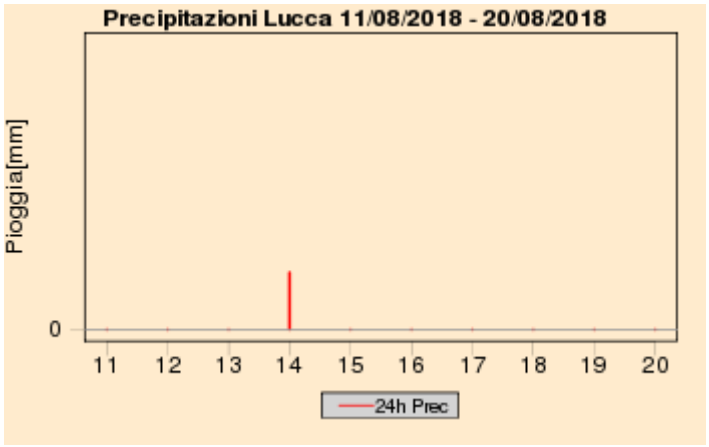
Le precipitazioni sono risultate favorite dal transito di perturbazione sulla regione il giorno 14, che ha determinato piogge diffuse soprattutto in Appennino e sul centro sud, e dalle successive condizioni di instabilità atmosferica che hanno favorito temporali sparsi nella seconda parte della decade, più frequenti sulle zone centrali e meridionali.

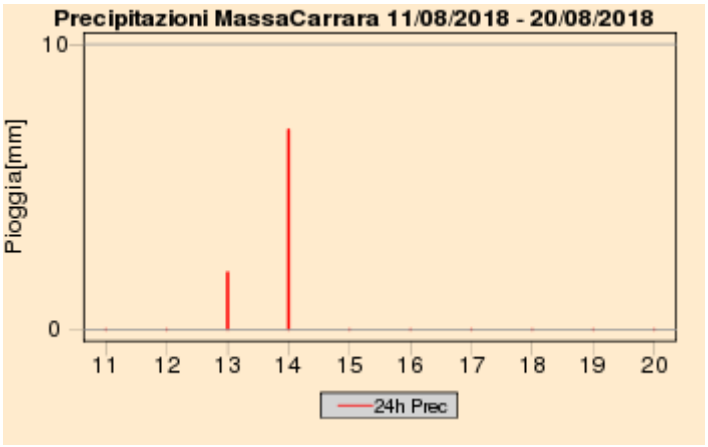


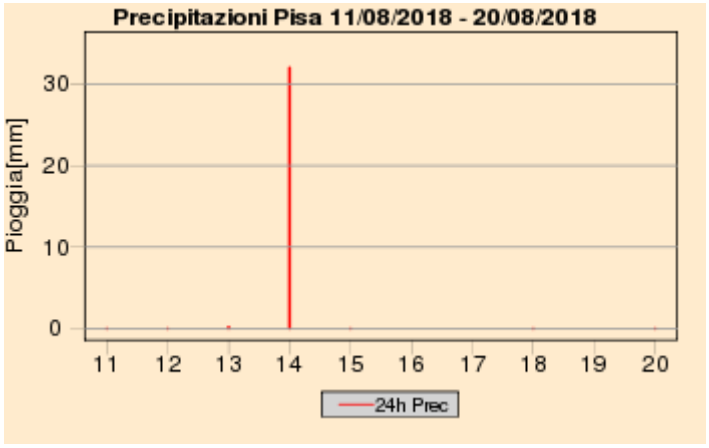


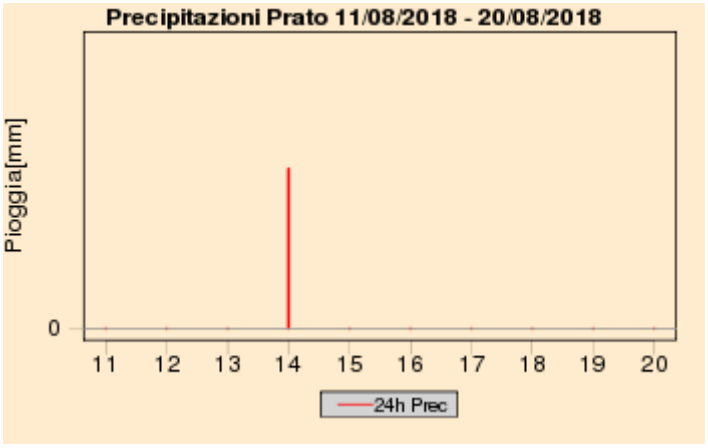


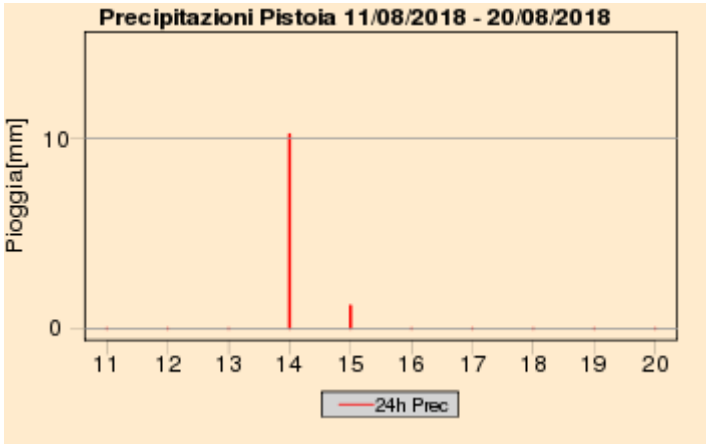


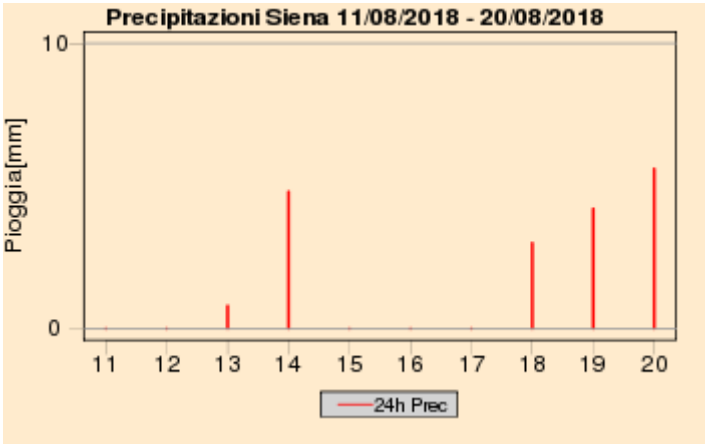




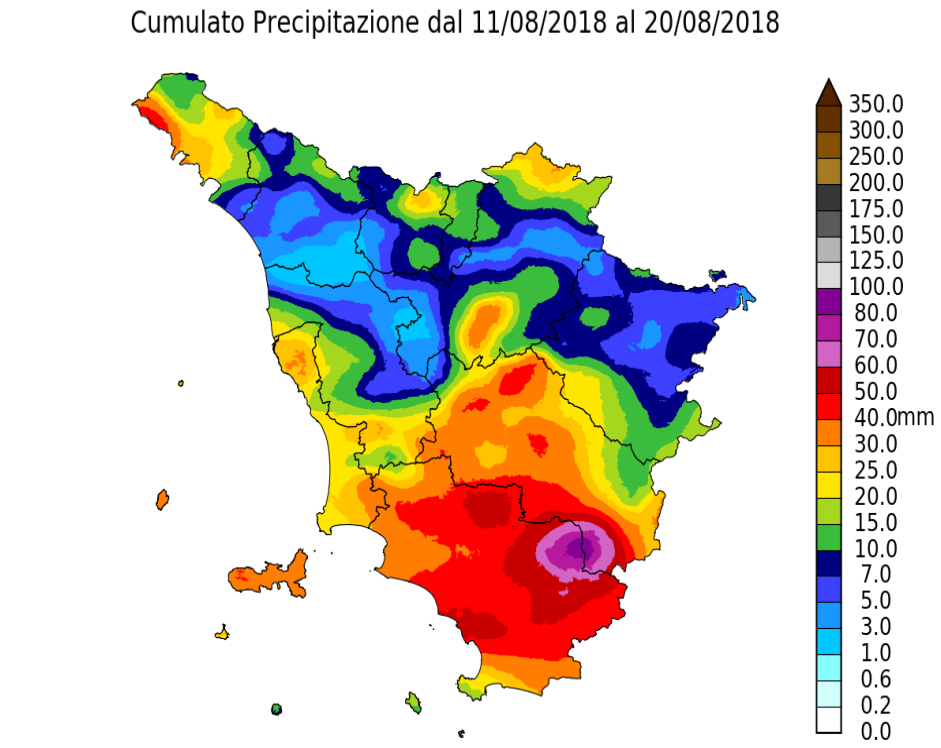






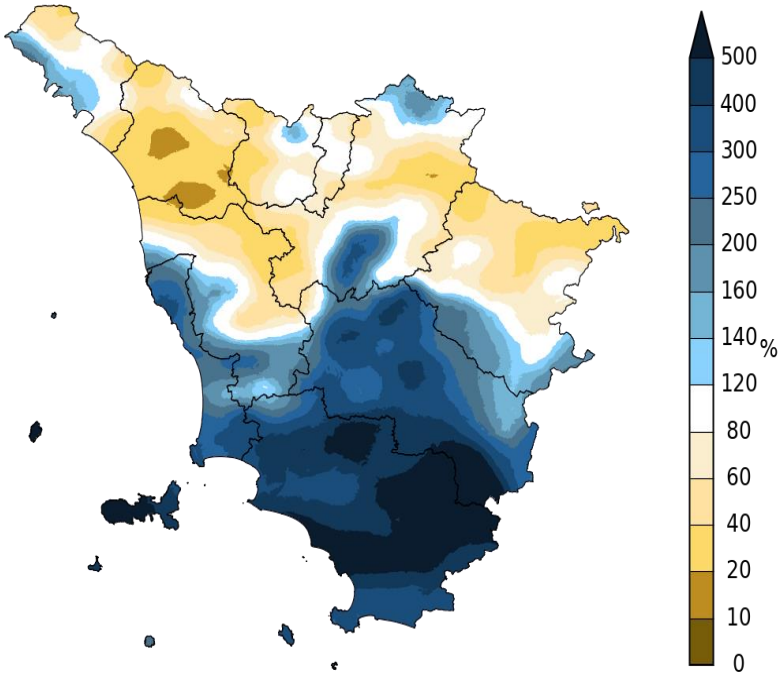


Quadro regionale – Cumulati decadali di precipitazione, anomalia di precipitazione e numero di giorni di pioggia



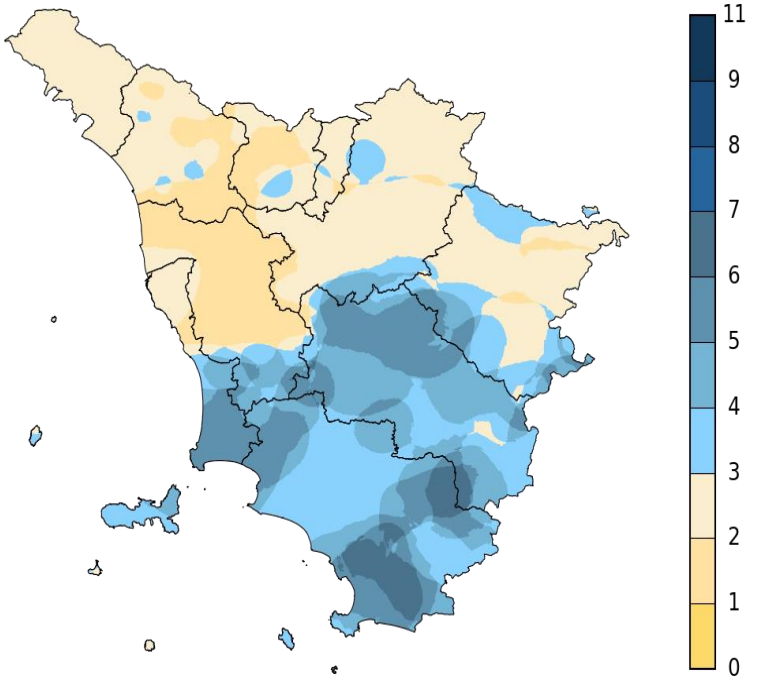
Dati: SIR Regione Toscana, AM, LaMMA

Percentuale di Precipitazione rispetto alla media climatica
dal 11/08/2018 al 20/08/2018



Dati: SIR Regione Toscana, AM, LaMMA

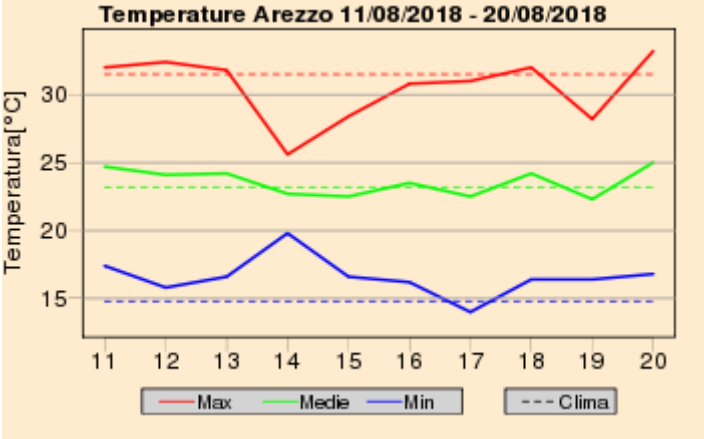
Giorni con Pioggia ≥ di 1 mm dal 11/08/2018 al 20/08/2018

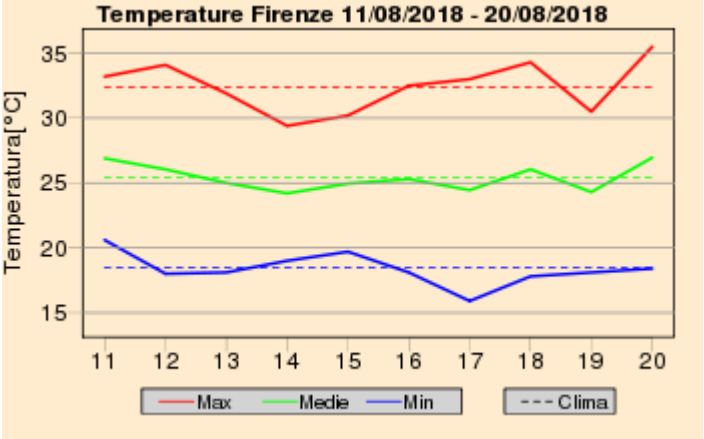


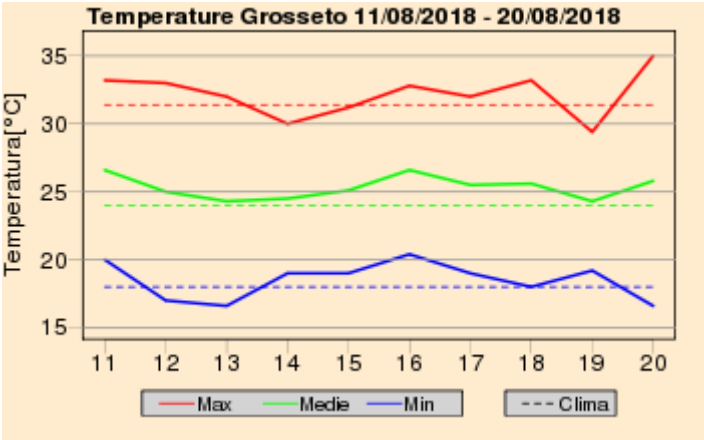
Dati: SIR Regione Toscana, AM, LaMMA

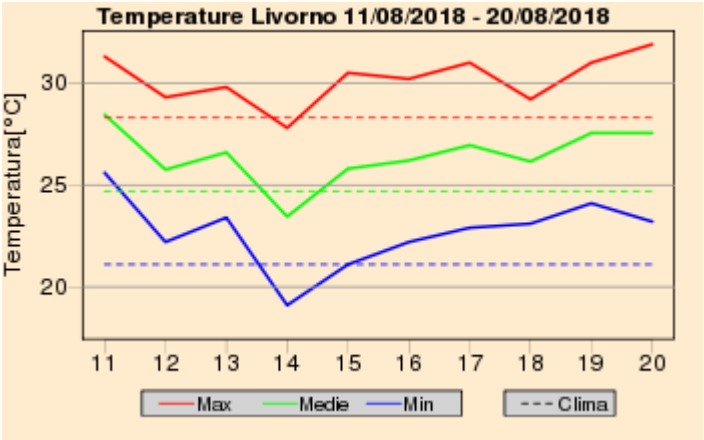
II decade - Quadro regionale - Temperature

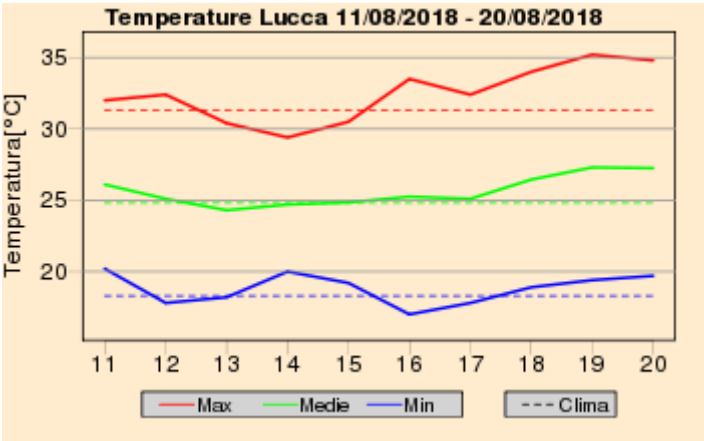
La seconda decade del mese di Agosto ha fatto registrare sulla Toscana temperature generalmente in linea con le medie climatologiche calcolate sul periodo 1981-2010. Non si sono osservate per tanto particolari anomalie né per quanto riguarda i valori minime né per i valori massimi.

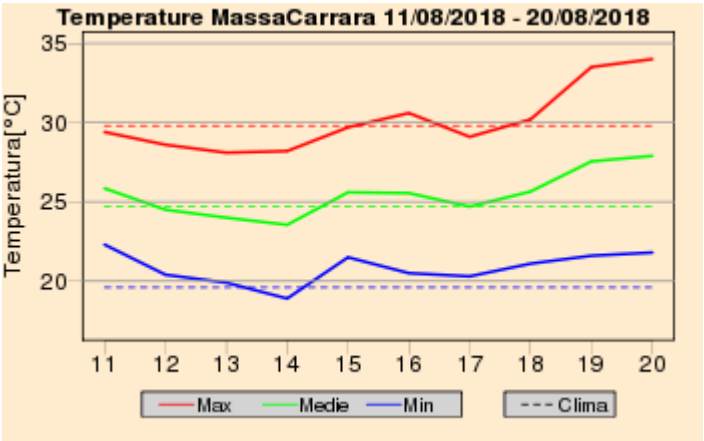


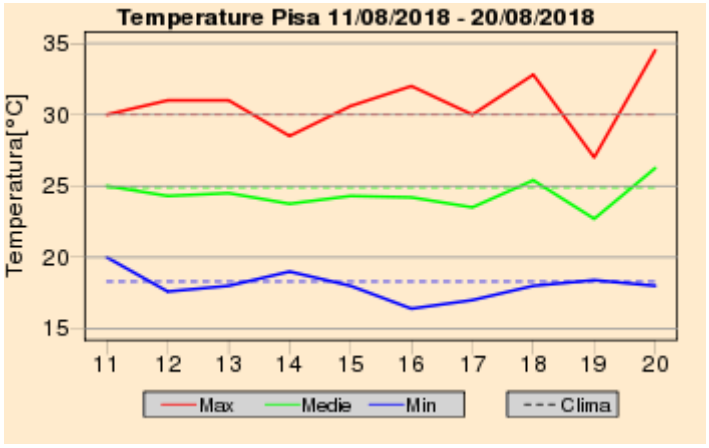


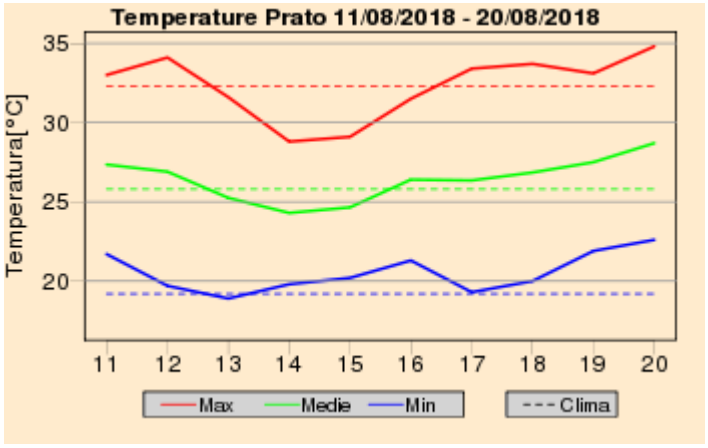


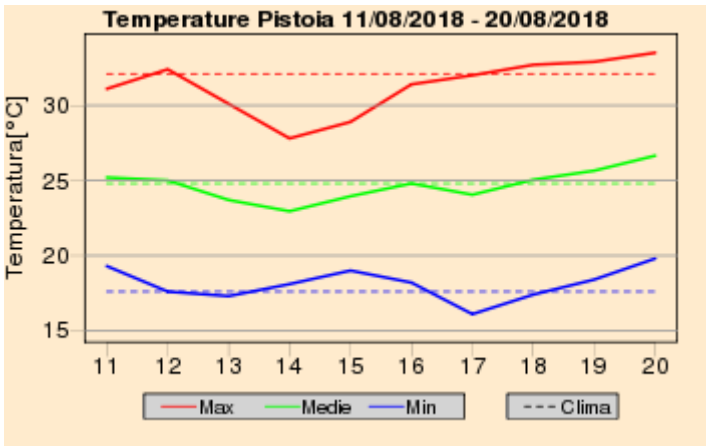


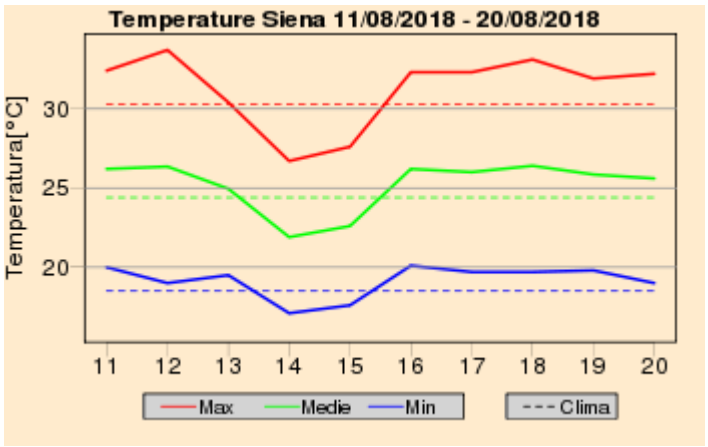




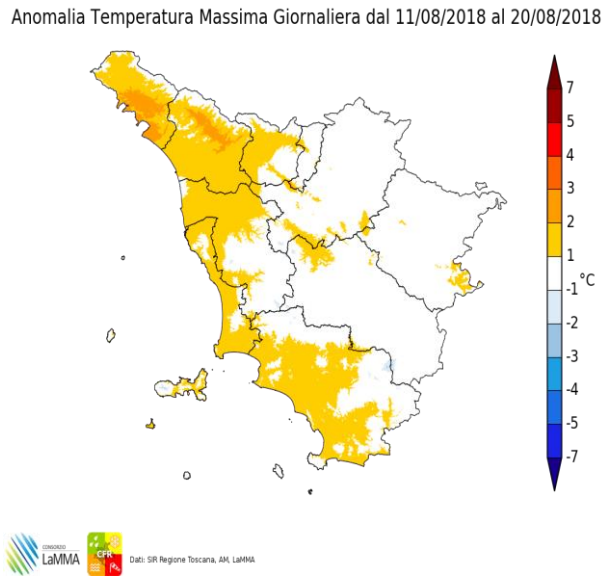


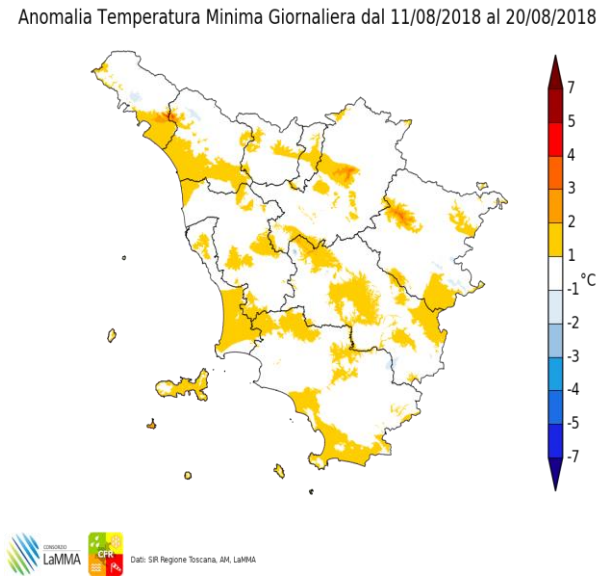






Quadro regionale – Anomalie termiche

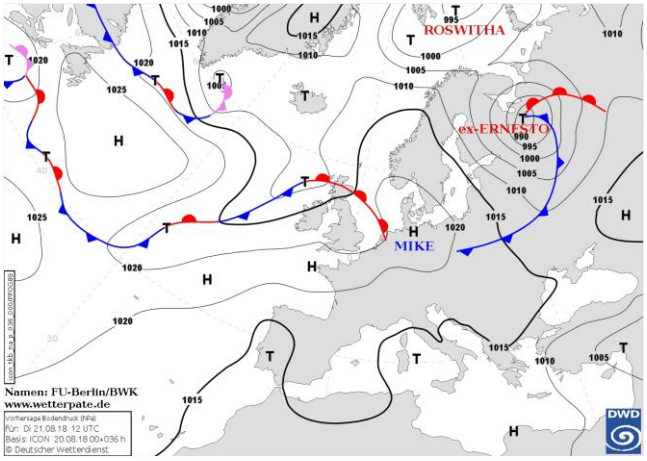




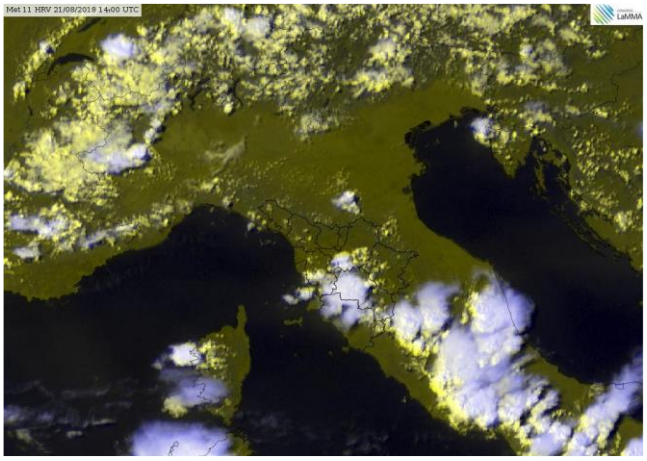
Anomalia termica decadale per le temperature massime e minime giornaliere

Martedi' 21 Agosto 2018

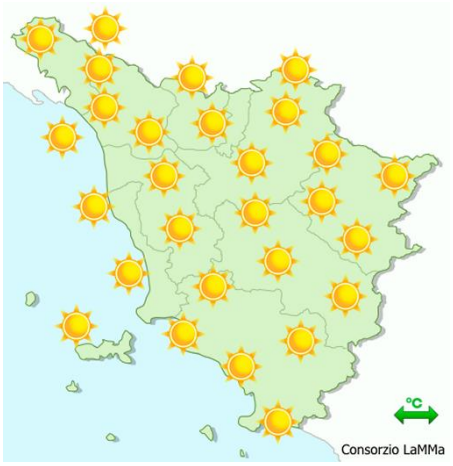
Situazione: l'Anticiclone delle Azzorre si estende verso est, interessando l'Europa Centrale e anche il Mediterraneo centro-occidentale. Infiltrazioni di aria fresca alla media troposfera mantengono condizioni di relativa instabilità su gran parte della nostra penisola.



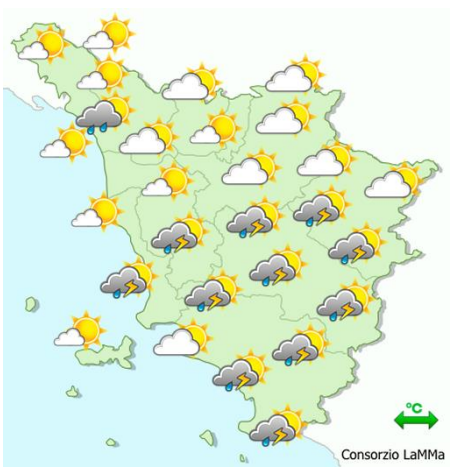
Pressione al suolo e fronti del 21 Agosto alle 12 UTC


Meteosat HRV del 21 Agosto alle 14 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso in mattinata. Sviluppo di nubi cumuliformi nel pomeriggio. Poco nuvoloso in serata.

Fenomeni: rovesci e temporali sparsi nel pomeriggio sul centro-sud della regione.

Venti: deboli settentrionali sulle zone interne, fino a moderati di Maestrale lungo la costa.

Mari: poco mossi.

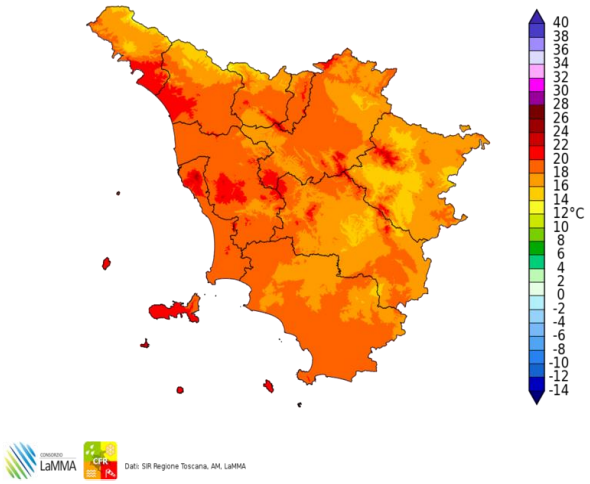
Temperature: massime in lieve aumento sulle zone centro-meridionali.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	16	18	17	N.D.	19	22	18	18	22	21
	anomalia*	2	0	0	N.D.	2	3	0	2	4	3
T. max	osservata	27	28	25	N.D.	36	34	25	34	35	33
	anomalia*	-3	-3	-5	N.D.	6	6	-4	4	4	4
Precipitazione (mm/24ore)		N.D.	0	0	0	0	0	N.D.	0	0	6

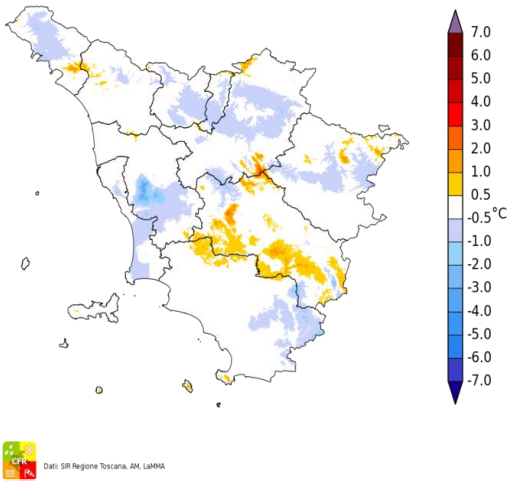
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

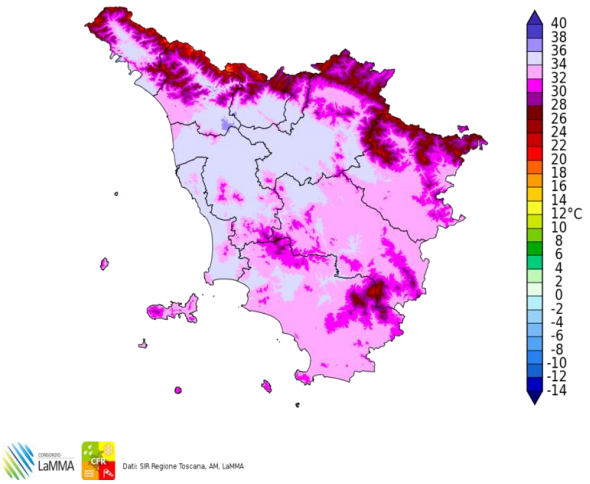
Temperatura Minima del 21/08/2018



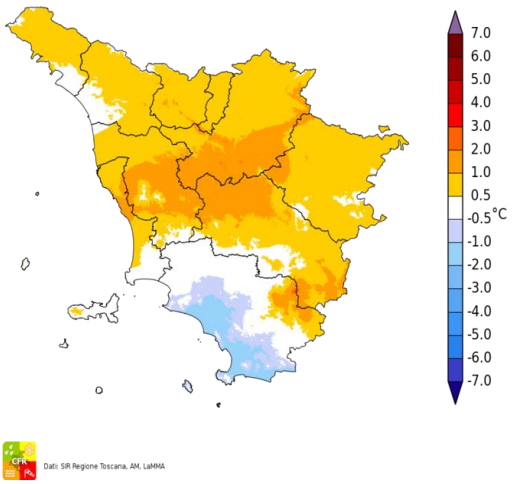
Differenza della Temperatura Minima tra 21/08/2018 e 20/08/2018



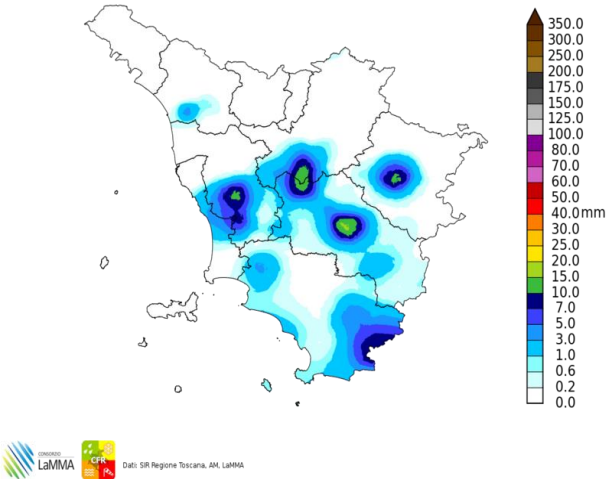
Temperatura Massima del 21/08/2018



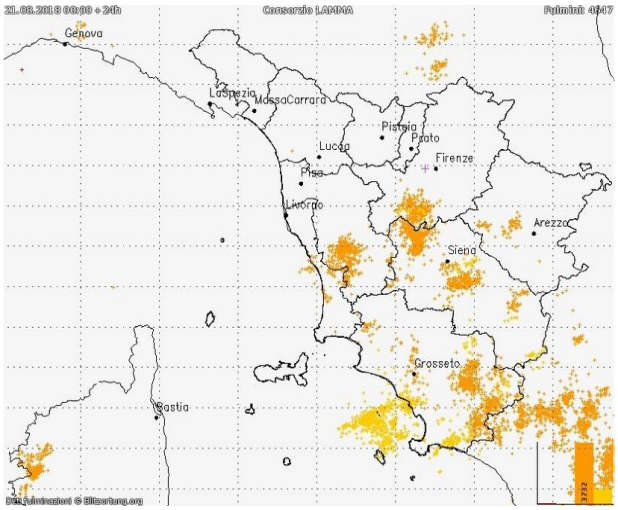
Differenza della Temperatura Massima tra 21/08/2018 e 20/08/2018



Precipitazione del 21/08/2018

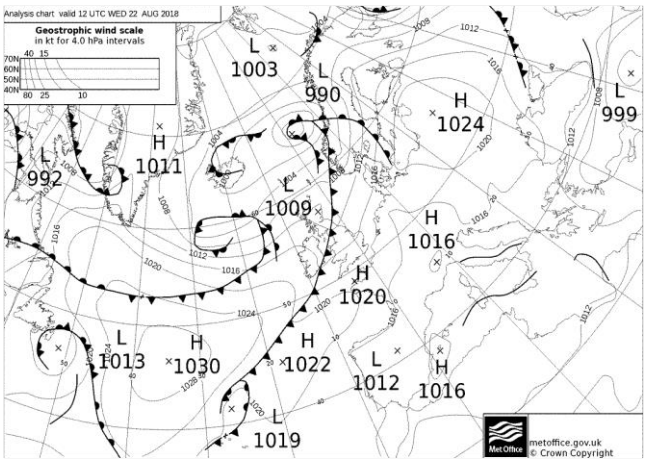


Fulminazioni osservate il giorno 21 Agosto

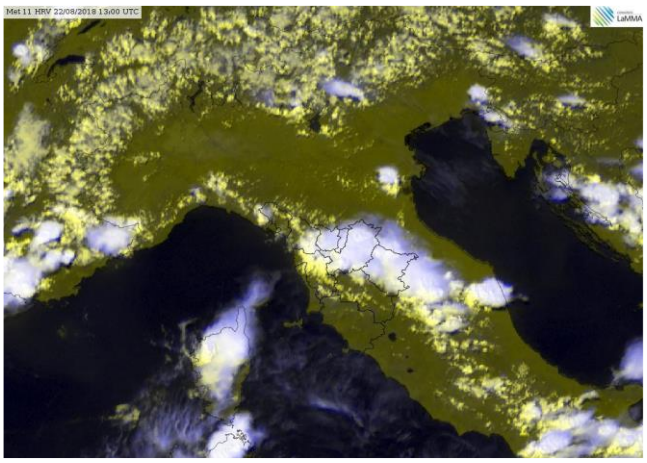


Mercoledi' 22 Agosto 2018

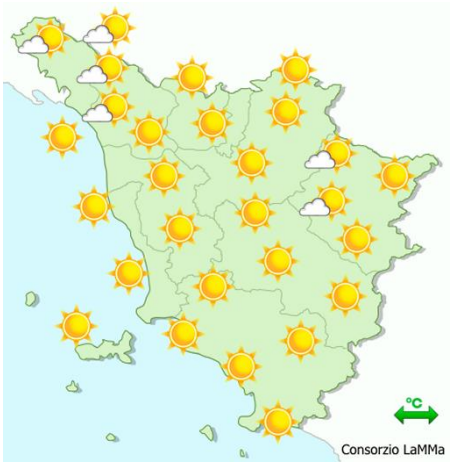
Situazione: condizioni di prevalente alta pressione, tuttavia infiltrazioni di aria fresca in quota mantengono condizioni di instabilità su gran parte della nostra penisola.



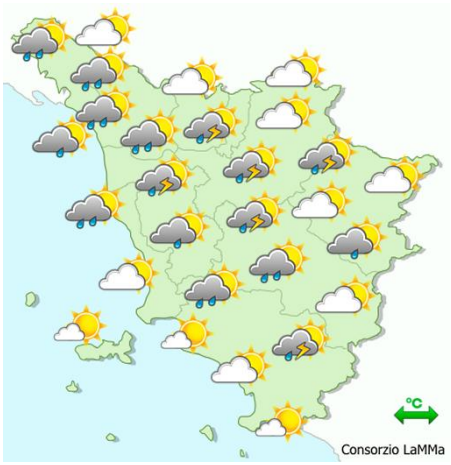
Pressione al suolo e fronti del 22 Agosto alle 12 UTC


Meteosat HRV del 22 Agosto alle 13 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso in mattinata. Parzialmente nuvoloso o nuvoloso nel pomeriggio, poco nuvoloso in serata.

Fenomeni: rovesci e temporali sparsi.

Venti: deboli settentrionali sulle zone interne, fino a moderati di Maestrale lungo la costa nel pomeriggio.

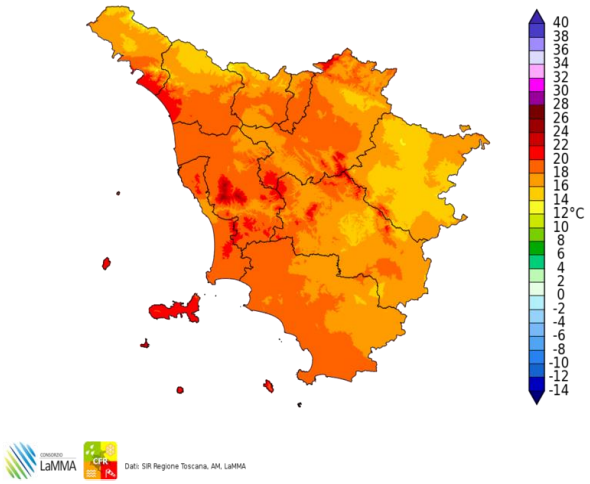
Mari: poco mossi.

Temperature: stazionarie o in lieve diminuzione.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	27	17	18	N.D.	19	22	18	18	22	21
	anomalia*	13	0	0	N.D.	2	3	0	1	4	4
T. max	osservata	29	32	31	N.D.	35	34	32	34	34	32
	anomalia*	0	2	1	N.D.	5	5	3	4	4	3
Precipitazione (mm/24ore)		N.D.	6	0	10	1	0	0	20	0	0

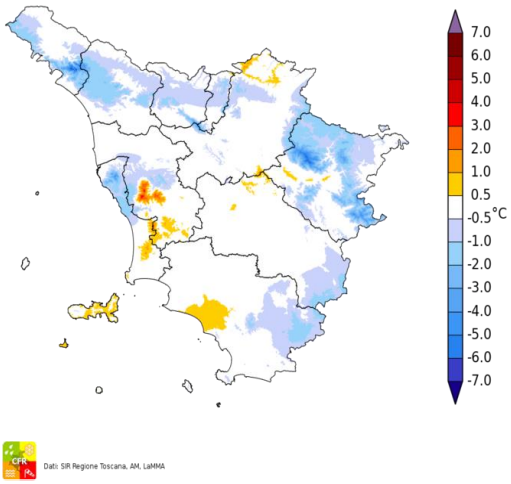
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 22/08/2018



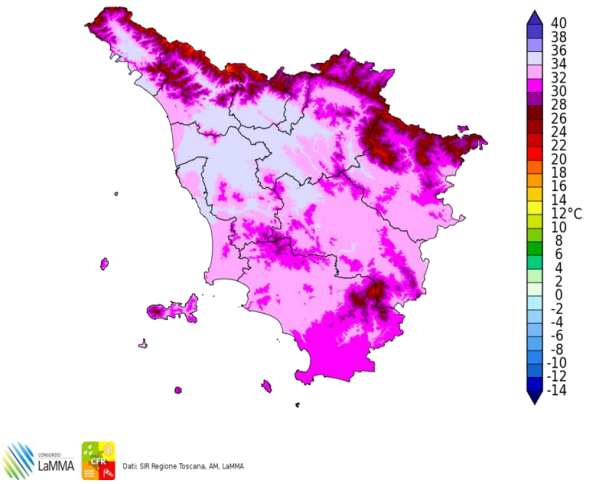
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 22/08/2018 e 21/08/2018



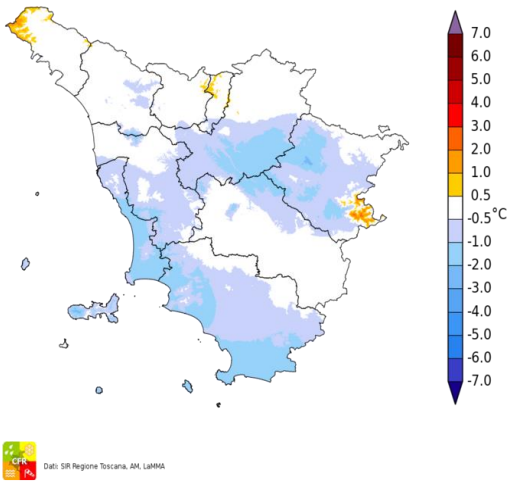
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 22/08/2018



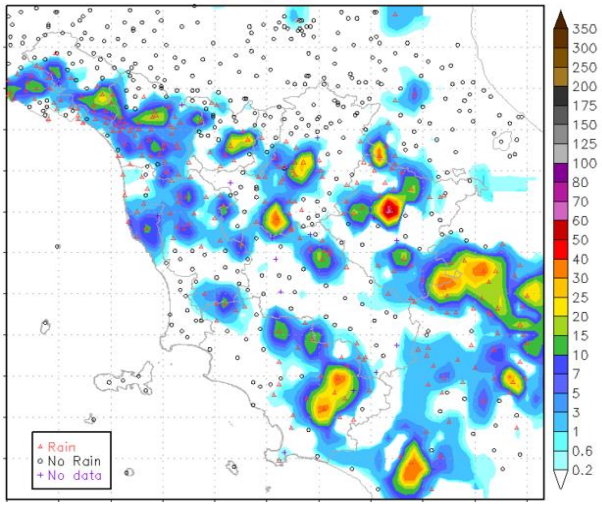
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 22/08/2018 e 21/08/2018

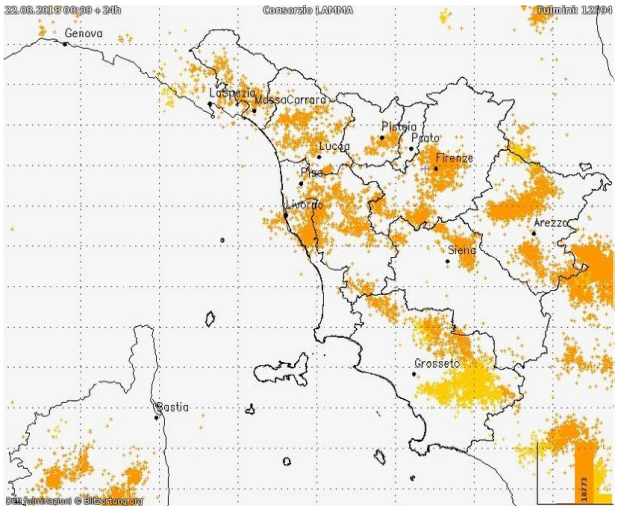


Dati: SIR Regione Toscana, AM, LaMMA

Total Precipitation [mm] cumulated on Wed, 22/08/2018

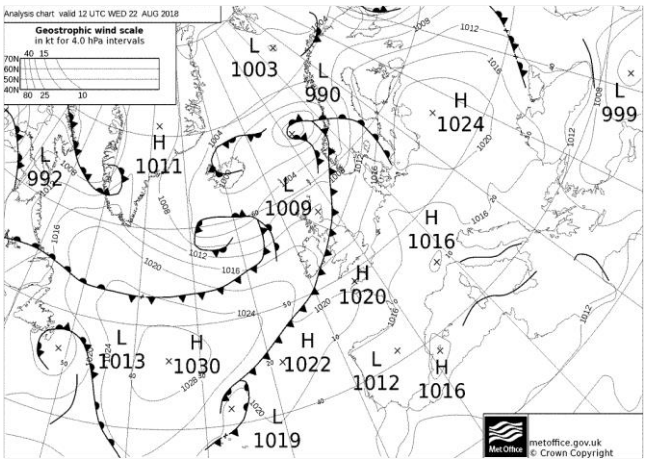


Fulminazioni osservate il giorno 22 Agosto

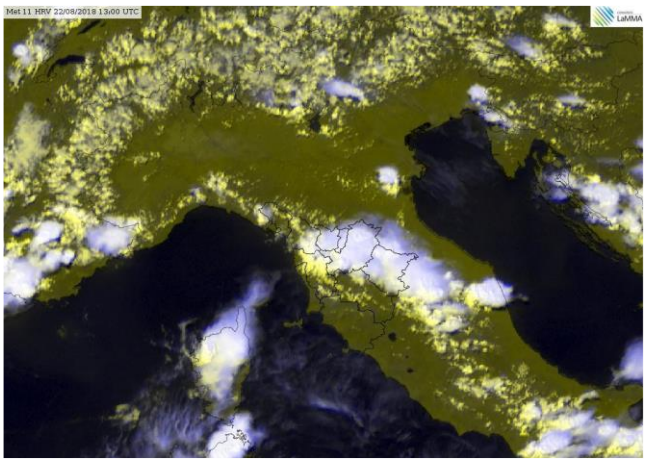


Mercoledi' 22 Agosto 2018

Situazione: condizioni di prevalente alta pressione, tuttavia infiltrazioni di aria fresca in quota mantengono condizioni di instabilità su gran parte della nostra penisola.

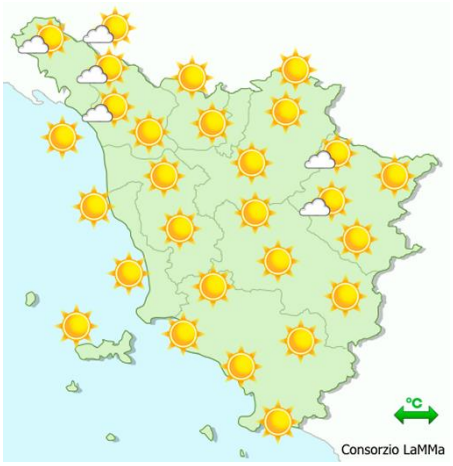


Pressione al suolo e fronti del 22 Agosto alle 12 UTC

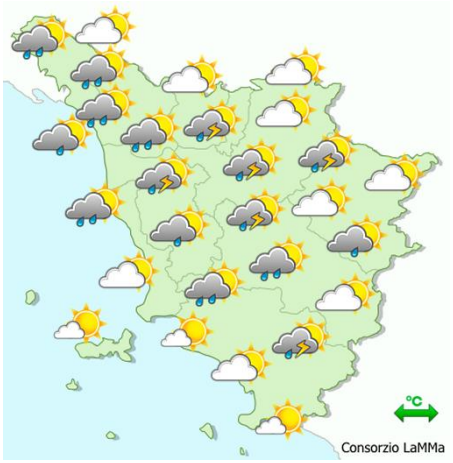


Meteosat HRV del 22 Agosto alle 13 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso in mattinata. Parzialmente nuvoloso o nuvoloso nel pomeriggio, poco nuvoloso in serata.

Fenomeni: rovesci e temporali sparsi.

Venti: deboli settentrionali sulle zone interne, fino a moderati di Maestrale lungo la costa nel pomeriggio.

Mari: poco mossi.

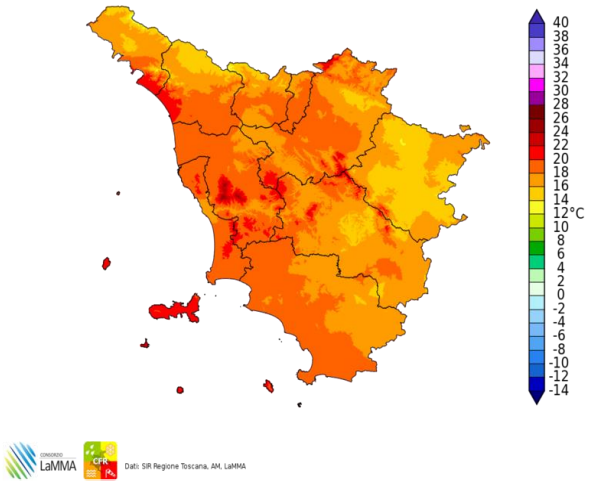
Temperature: stazionarie o in lieve diminuzione.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	27	17	18	N.D.	19	22	18	18	22	21
	anomalia*	13	0	0	N.D.	2	3	0	1	4	4
T. max	osservata	29	32	31	N.D.	35	34	32	34	34	32
	anomalia*	0	2	1	N.D.	5	5	3	4	4	3
Precipitazione (mm/24ore)		N.D.	6	0	10	1	0	0	20	0	0

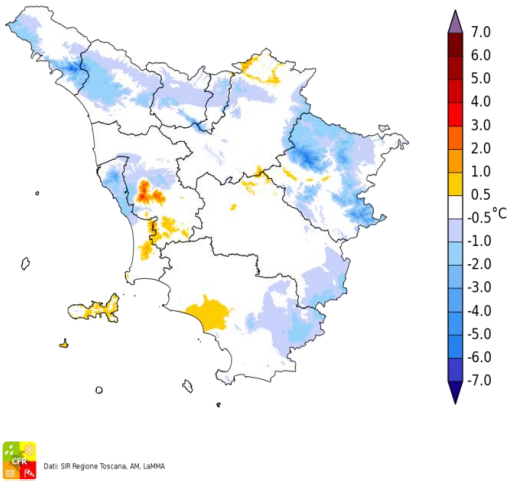
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

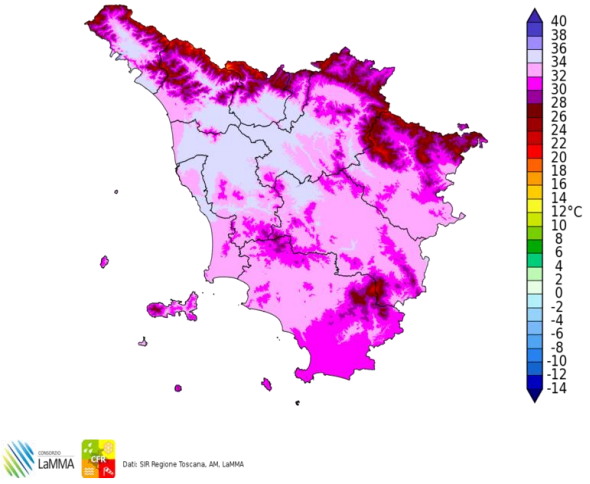
Temperatura Minima del 22/08/2018



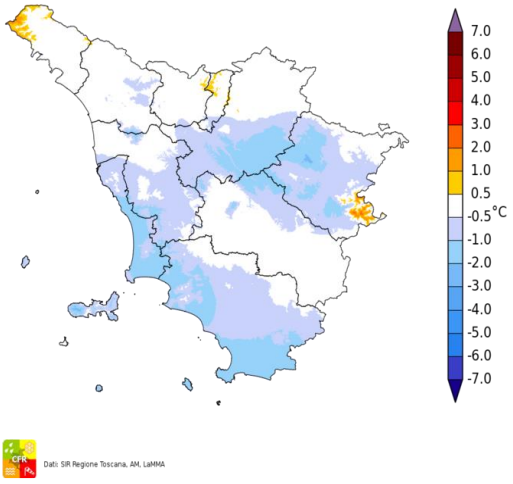
Differenza della Temperatura Minima tra 22/08/2018 e 21/08/2018



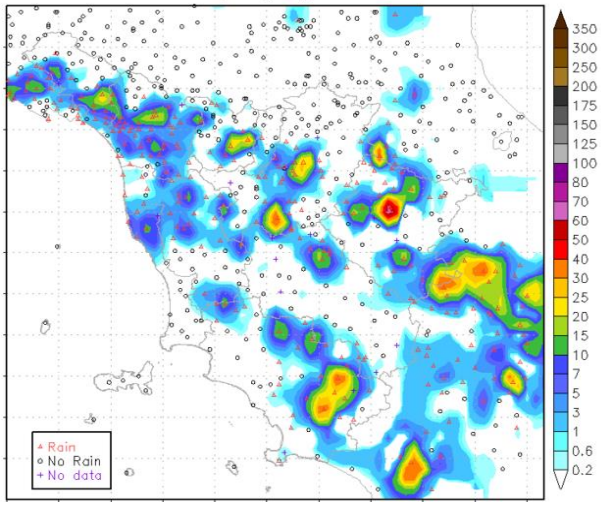
Temperatura Massima del 22/08/2018



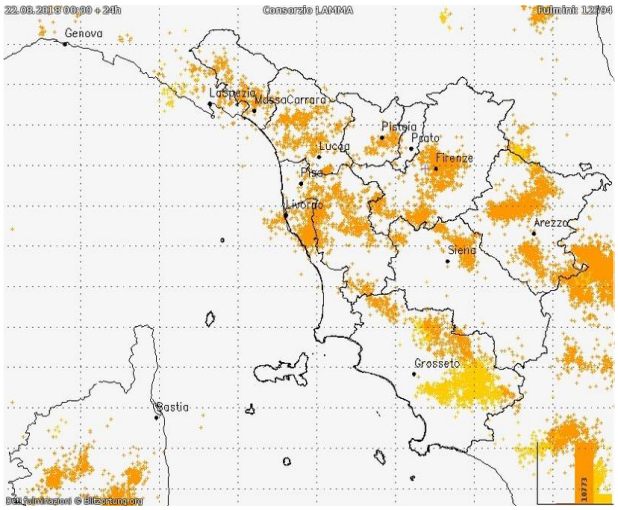
Differenza della Temperatura Massima tra 22/08/2018 e 21/08/2018



Total Precipitation [mm] cumulated on Wed, 22/08/2018

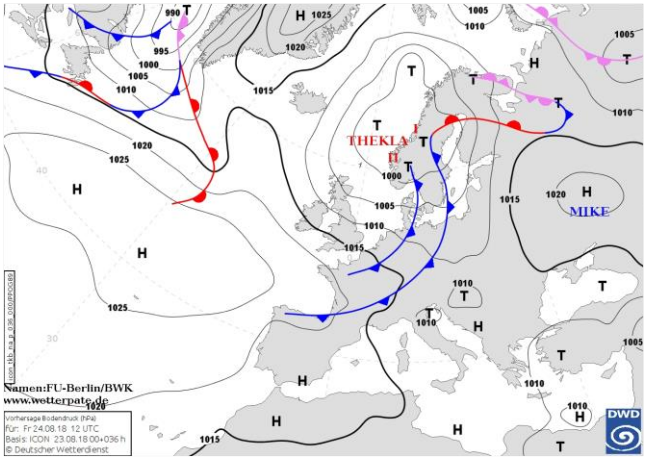


Fulminazioni osservate il giorno 22 Agosto

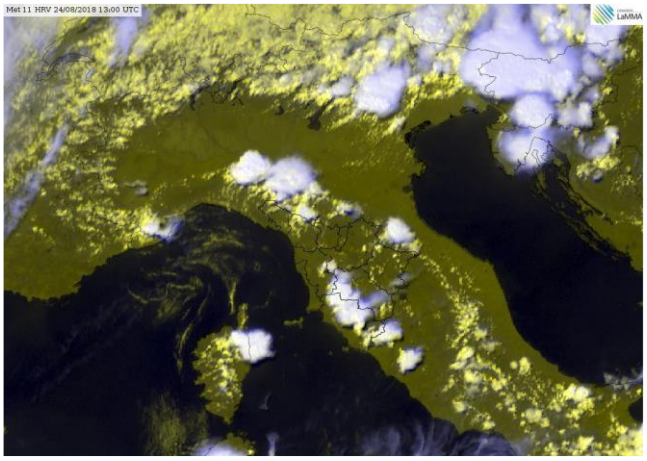


Venerdi' 24 Agosto 2018

Situazione: pressione in calo sul Ligure e il Tirreno Settentrionale e perturbazione temporalesca in avvicinamento.

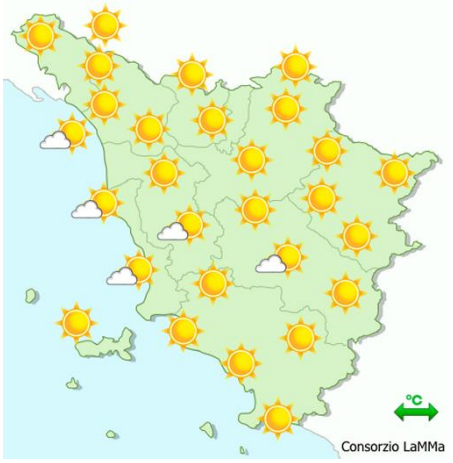


Pressione al suolo e fronti del 24 Agosto alle 12 UTC

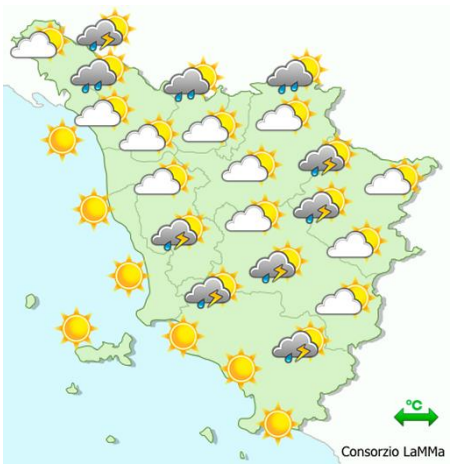


Meteosat HRV del 24 Agosto alle 13 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso in mattinata. Nuvoloso nel pomeriggio sulle zone interne per nuvolosità cumuliforme, sereno sulla costa. Sereno o poco nuvoloso in serata; nuvoloso sul nord-ovest.

Fenomeni: brevi temporali sparsi nel pomeriggio nell'interno.

Venti: deboli da ovest, sud-ovest.

Mari: poco mossi con moto ondoso in aumento al largo.

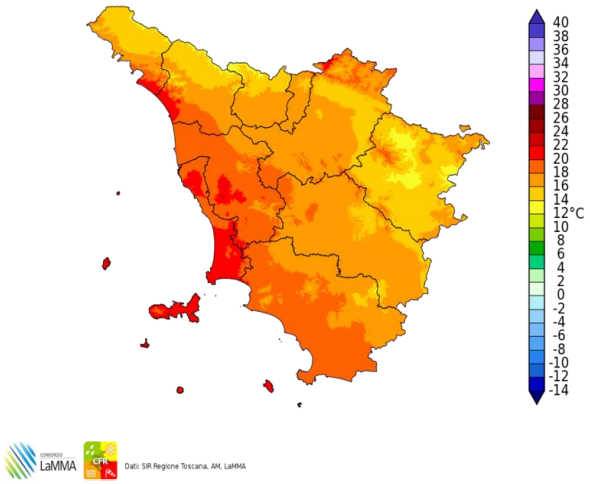
Temperature: in lieve calo le massime.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	15	16	17	N.D.	19	20	18	16	18	19
	anomalia*	1	-1	0	N.D.	1	2	0	-1	0	1
T. max	osservata	32	34	32	N.D.	32	29	30	32	33	32
	anomalia*	2	3	2	N.D.	2	0	2	1	3	3
Precipitazione (mm/24ore)		0	0	0	0	1	4	0	0	0	6

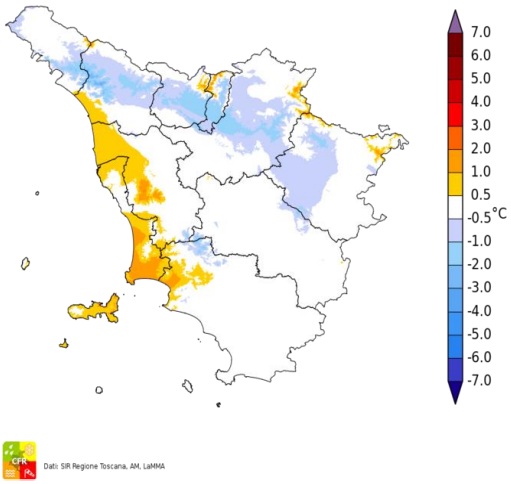
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

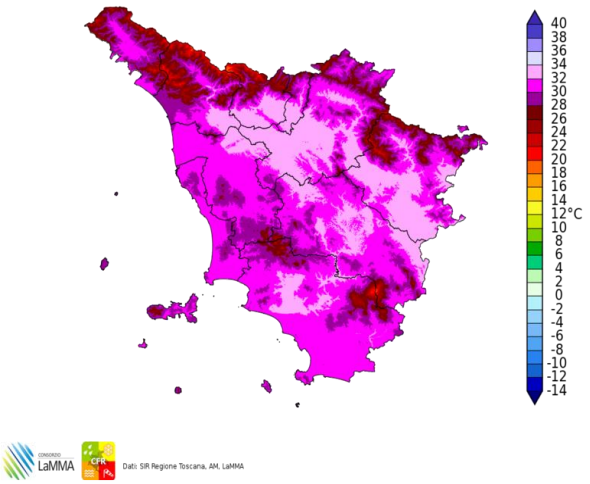
Temperatura Minima del 24/08/2018



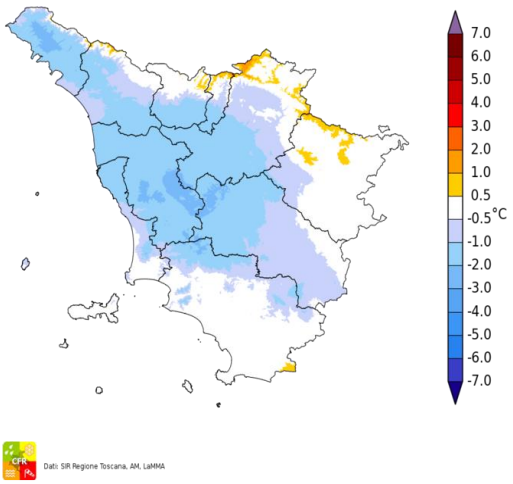
Differenza della Temperatura Minima tra 24/08/2018 e 23/08/2018



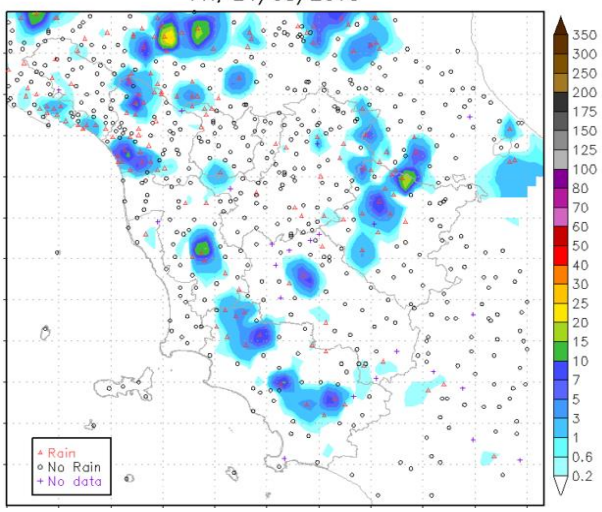
Temperatura Massima del 24/08/2018



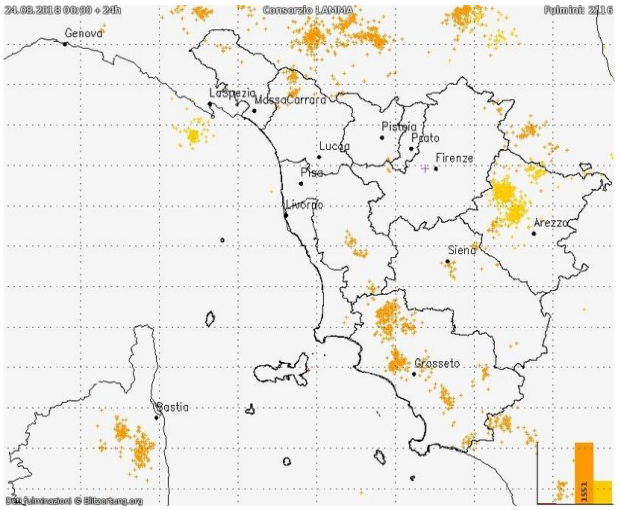
Differenza della Temperatura Massima tra 24/08/2018 e 23/08/2018



Total Precipitation [mm] cumulated on Fri, 24/08/2018

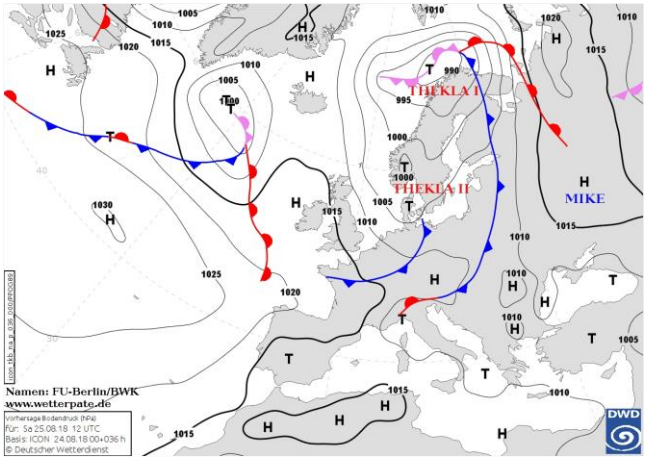


Fulminazioni osservate il giorno 24 Agosto

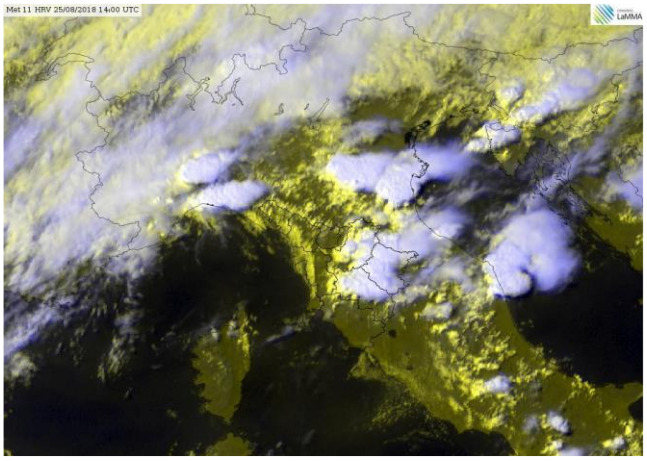


Sabato 25 Agosto 2018

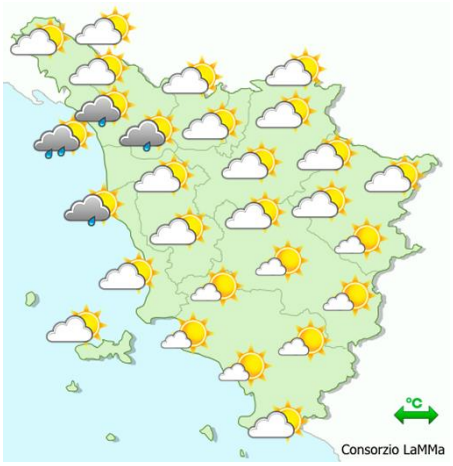
Situazione: passaggio di una perturbazione temporalesca sul centro-nord.



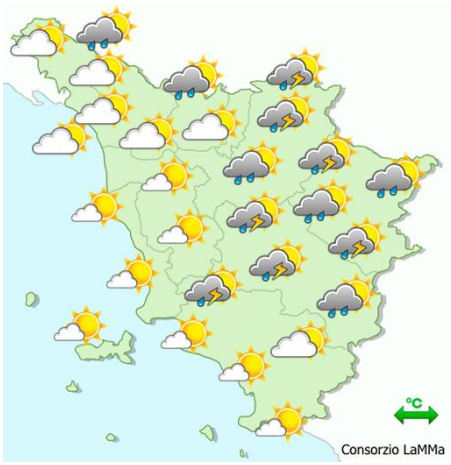
Pressione al suolo e fronti del 25 Agosto alle 12 UTC


Meteosat HRV del 25 Agosto alle 14 UTC

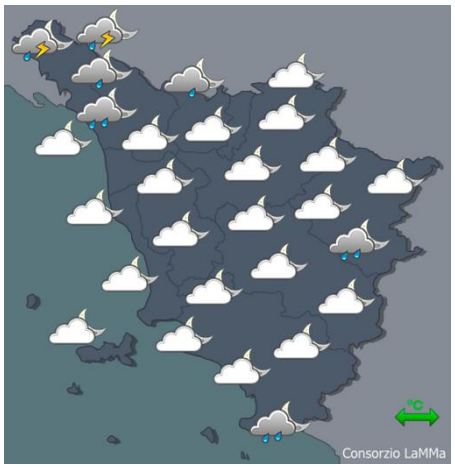
situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: nuvoloso.

Fenomeni: forte temporale nelle prime ore in Versilia, poi nel pomeriggio rovesci o temporali sparsi sulle zone interne anche di forte intensità.

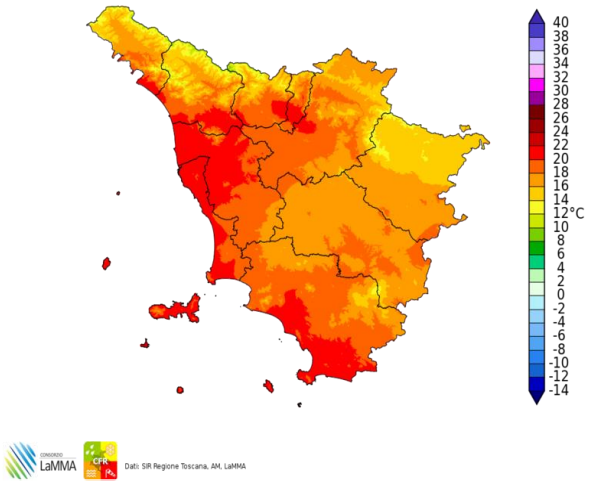
Venti: rinforzo del Libeccio sulla costa centro-settentrionale, forte in serata. Venti meridionali moderati sulla costa meridionale e deboli-moderati occidentali sulle zone interne.
Mari: in aumento a mossi o molto mossi a nord dell'Elba, fino ad agitati in serata con probabile mareggiata sulla costa centrale.

Temperature: in leggero calo.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	N.D.	22	21	N.D.	20	21	22	20	22	18
	anomalia*	N.D.	5	4	N.D.	3	2	5	3	4	1
T. max	osservata	N.D.	22	21	N.D.	30	28	22	29	31	29
	anomalia*	N.D.	-8	-9	N.D.	0	-1	-7	-1	0	0
Precipitazione (mm/24ore)		N.D.	12	0	0	0	8	N.D.	0	0	2

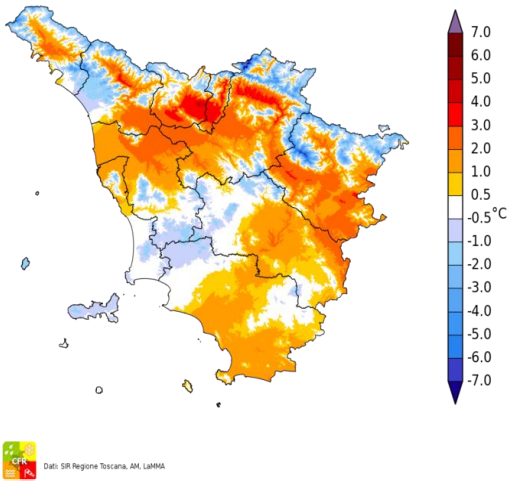
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 25/08/2018



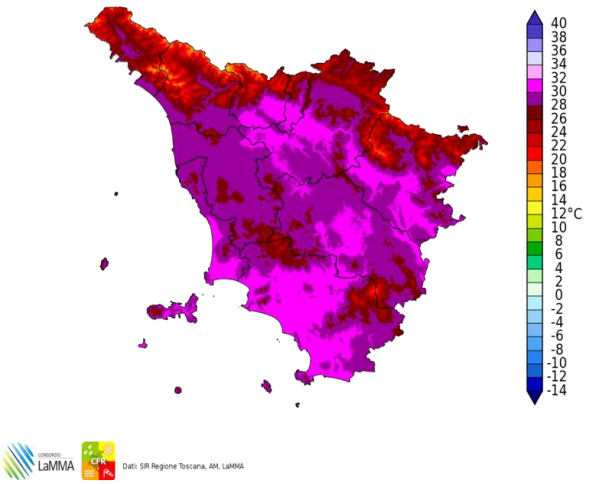
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 25/08/2018 e 24/08/2018



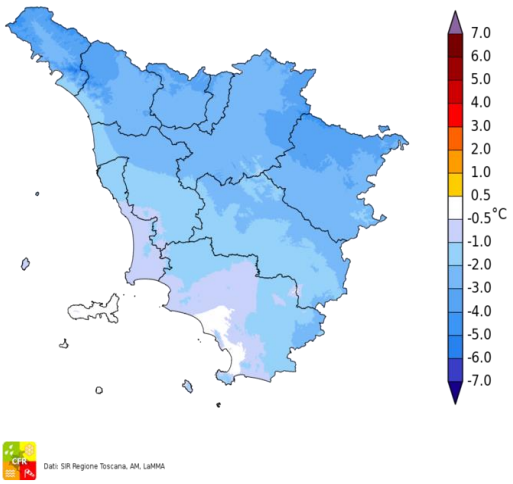
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 25/08/2018



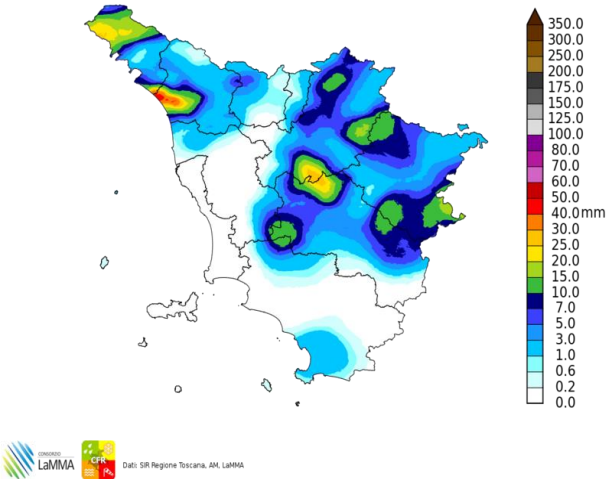
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 25/08/2018 e 24/08/2018



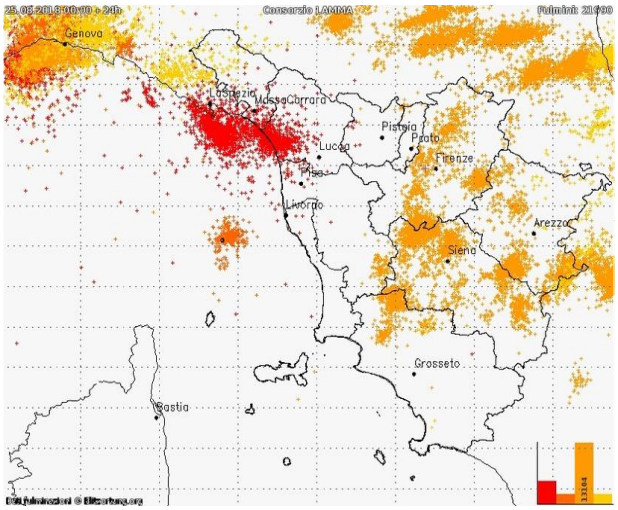
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 25/08/2018



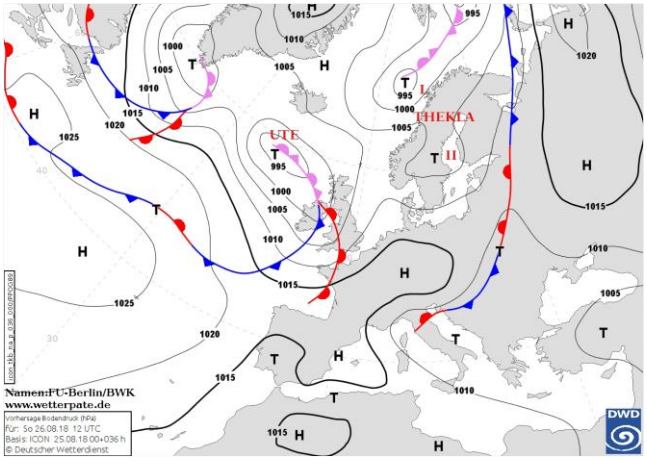
Dati: SIR Regione Toscana, AM, LaMMA

Fulminazioni osservate il giorno 25 Agosto

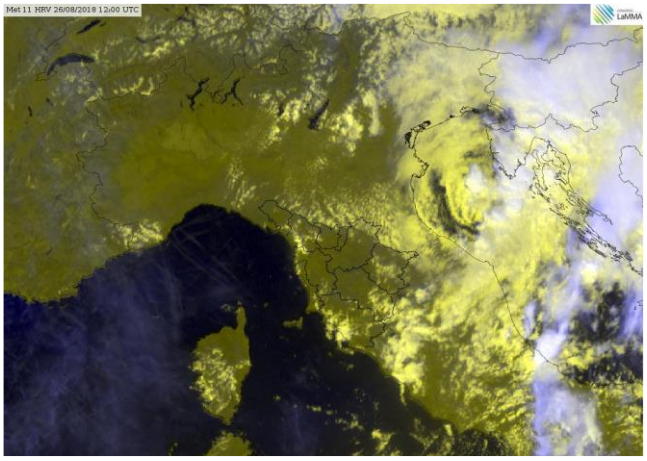


Domenica 26 Agosto 2018

Situazione: passaggio di una perturbazione nelle prime ore seguita da un rapido miglioramento.

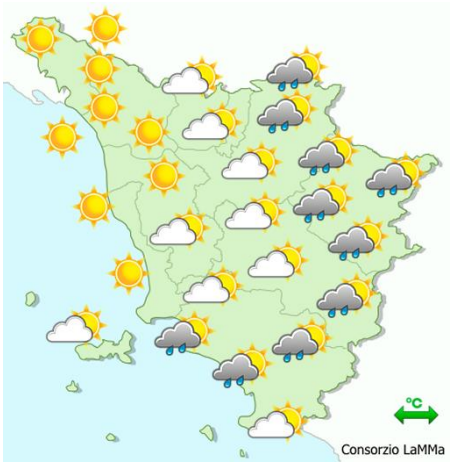


Pressione al suolo e fronti del 26 Agosto alle 12 UTC

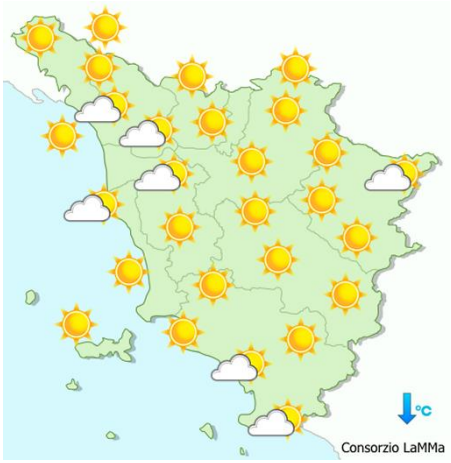


Meteosat HRV del 26 Agosto alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: parzialmente nuvoloso in mattinata, in prevalenza sereno o poco nuvoloso nel pomeriggio.

Fenomeni: locali rovesci in mattinata sulle zone interne e meridionali.

Venti: moderati settentrionali con locali forti raffiche.

Mari: molto mossi, in generale attenuazione.

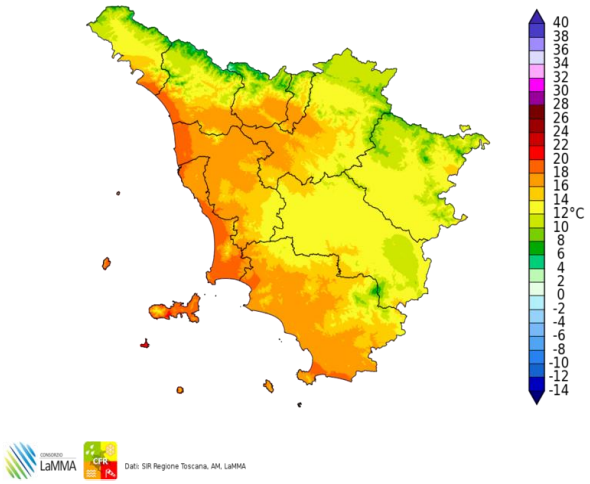
Temperature: in calo, più sensibile in serata.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	18	14	16	N.D.	16	18	18	17	16	14
	anomalia*	4	-4	-1	N.D.	-2	0	0	0	-2	-3
T. max	osservata	23	24	27	N.D.	27	27	27	24	24	24
	anomalia*	-7	-7	-3	N.D.	-3	-2	-2	-7	-7	-4
Precipitazione (mm/24ore)		N.D.	0	0	0	6	0	N.D.	5	1	0

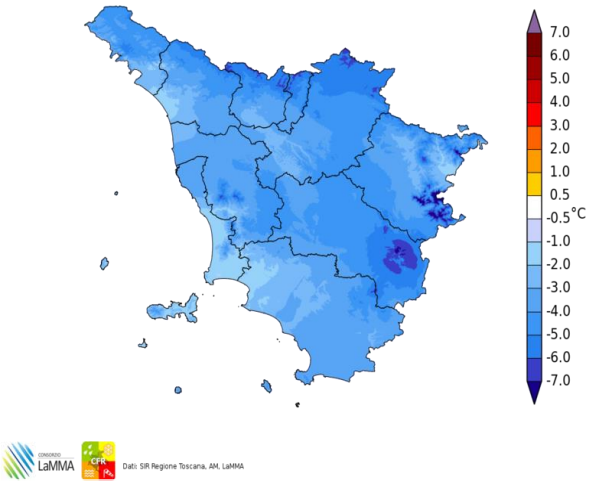
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

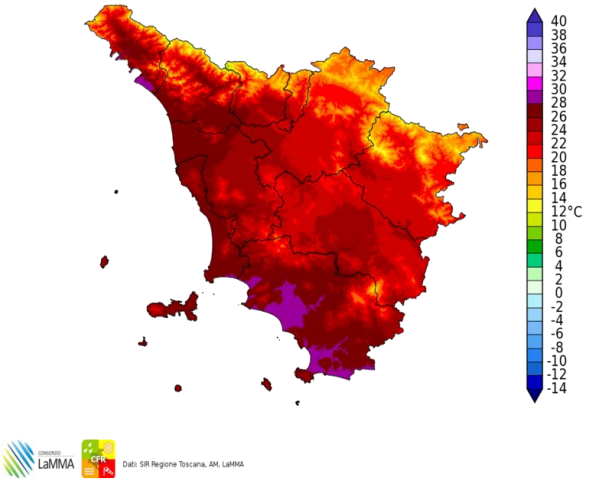
Temperatura Minima del 26/08/2018



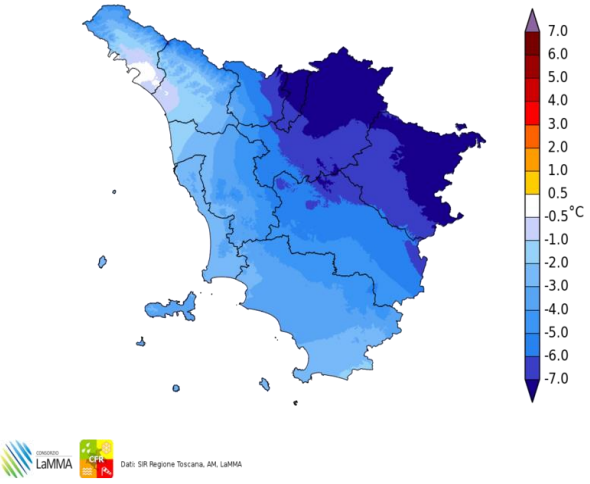
Differenza della Temperatura Minima tra 26/08/2018 e 25/08/2018



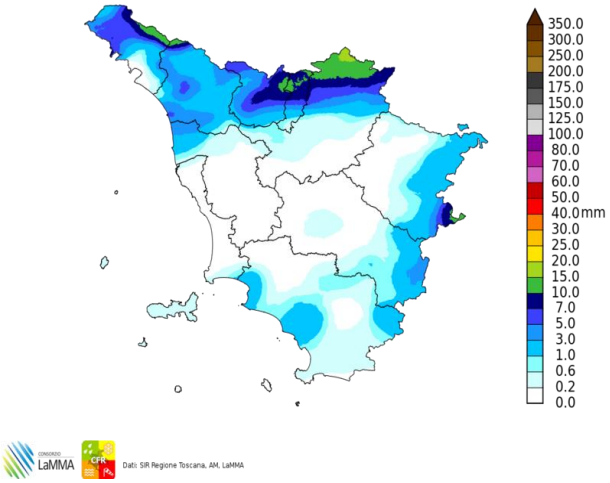
Temperatura Massima del 26/08/2018



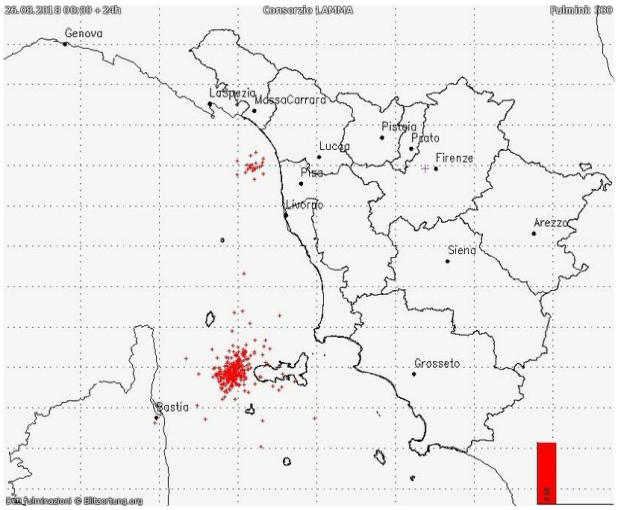
Differenza della Temperatura Massima tra 26/08/2018 e 25/08/2018



Precipitazione del 26/08/2018

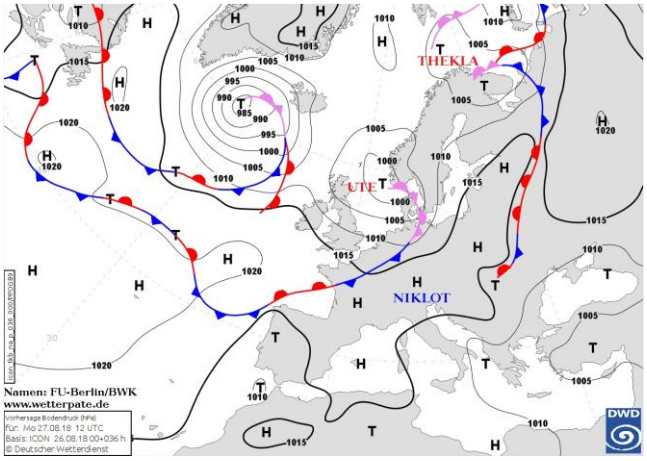


Fulminazioni osservate il giorno 26 Agosto

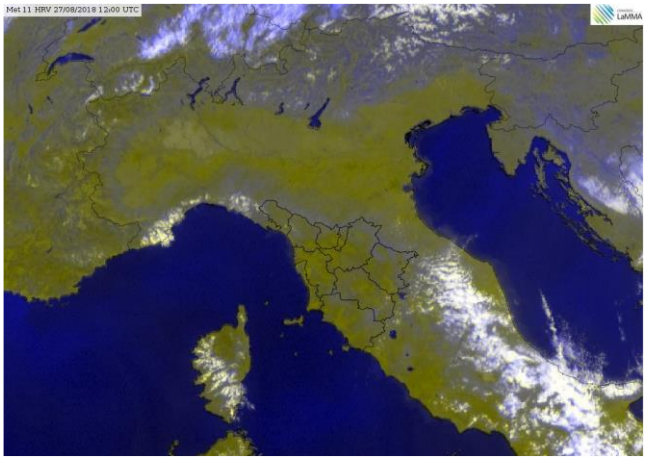


Lunedi' 27 Agosto 2018

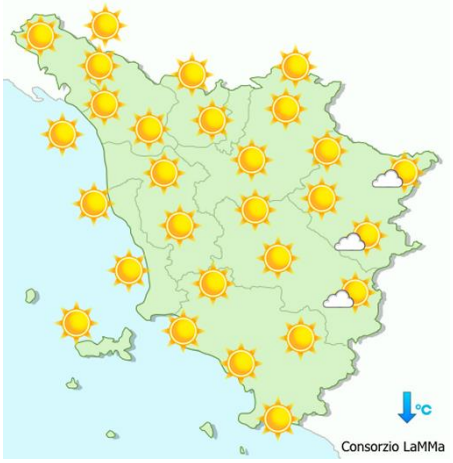
Situazione: minimo sull'Egeo; pressione in aumento sul Mediterraneo Centrale.



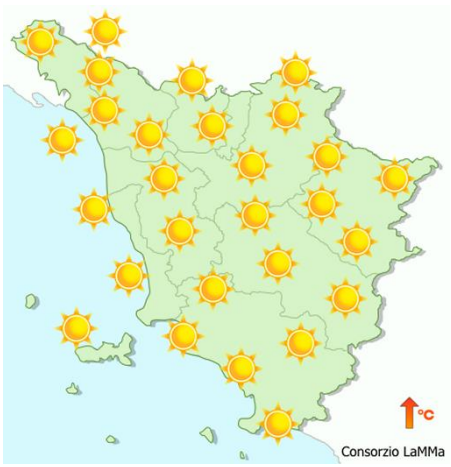
Pressione al suolo e fronti del 27 Agosto alle 12 UTC


Meteosat HRV del 27 Agosto alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: prevalentemente sereno.

Fenomeni: nessuno.

Venti: tra deboli e moderati settentrionali.

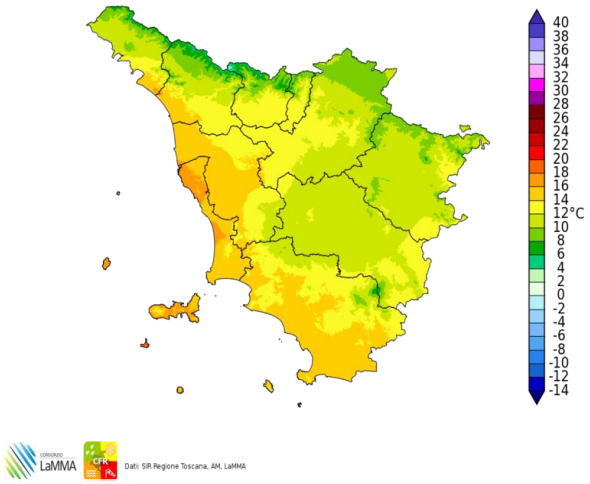
Mari: tra poco mossi e mossi.

Temperature: inferiori alle medie le massime.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	13	12	12	N.D.	13	16	14	15	15	13
	anomalia*	-1	-6	-5	N.D.	-5	-3	-4	-2	-3	-5
T. max	osservata	26	27	27	N.D.	28	27	26	28	28	27
	anomalia*	-4	-4	-3	N.D.	-2	-2	-3	-3	-3	-1
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

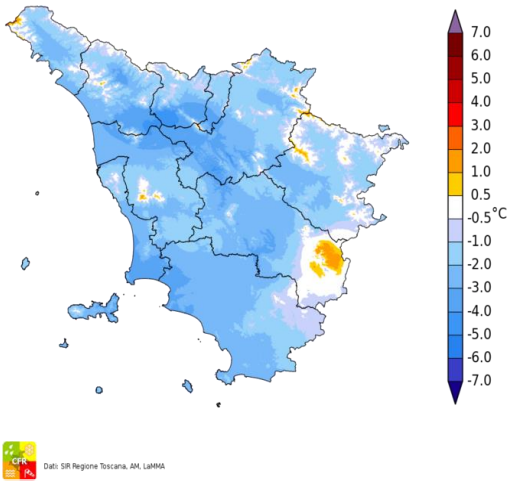
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 27/08/2018



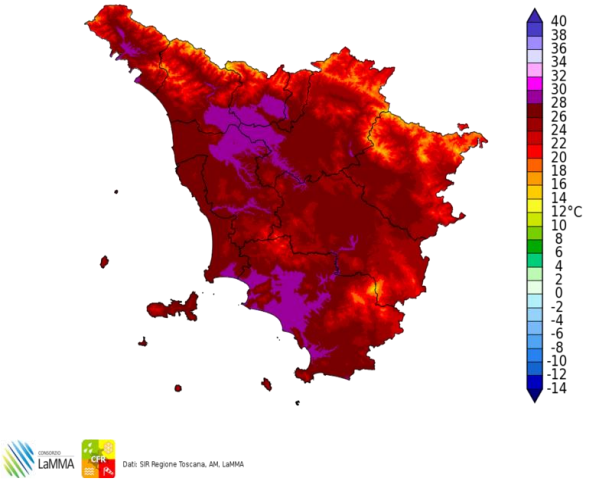
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 27/08/2018 e 26/08/2018



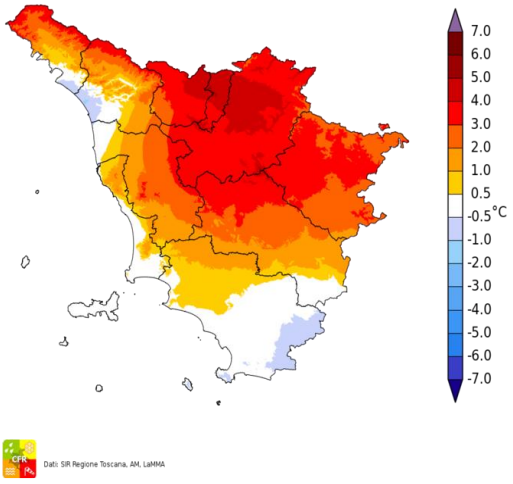
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 27/08/2018



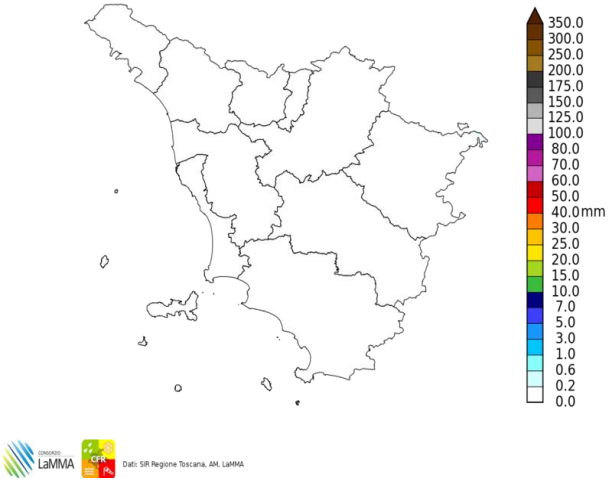
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 27/08/2018 e 26/08/2018



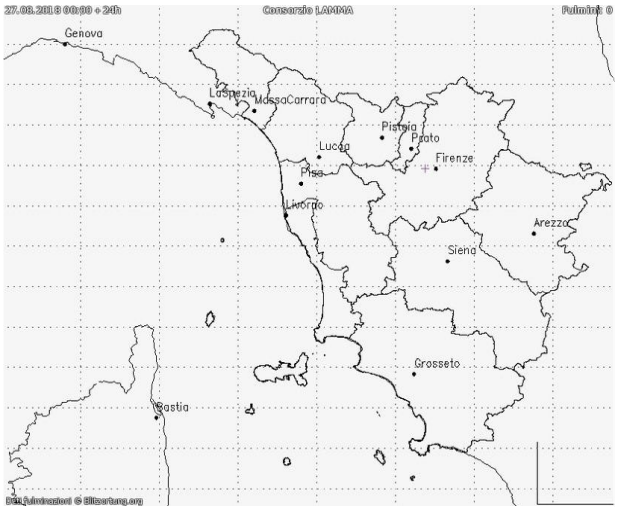
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 27/08/2018



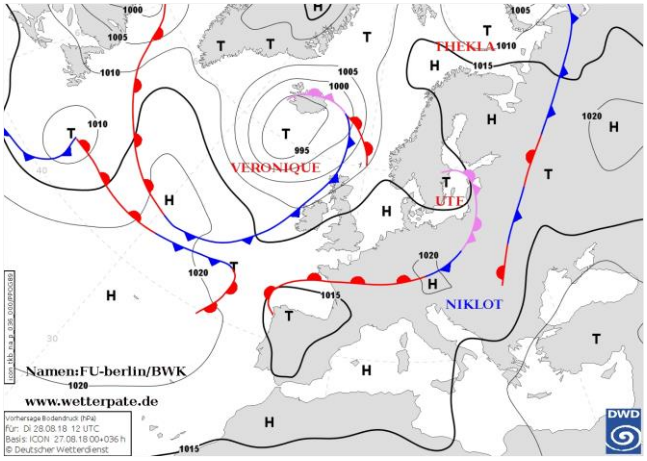
Dati: SIR Regione Toscana, AM, LaMMA

Fulminazioni osservate il giorno 27 Agosto



Martedi' 28 Agosto 2018

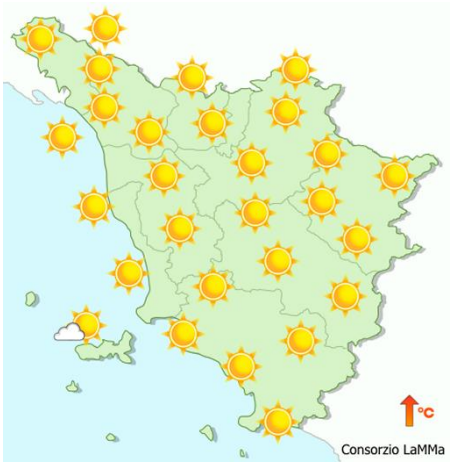
Situazione: Sul Mediterraneo è presente un campo di alta pressione che si estende dall'Africa settentrionale verso le coste tirreniche.



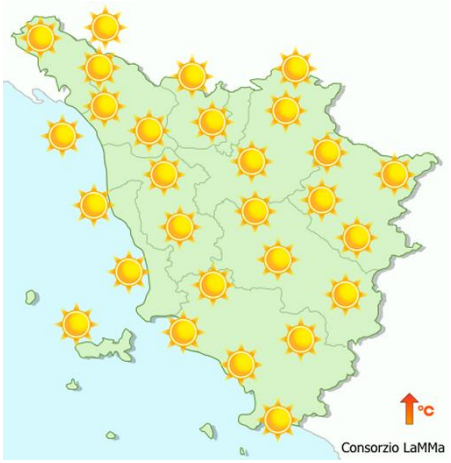
Pressione al suolo e fronti del 28 Agosto alle 12 UTC


Meteosat HRV del 28 Agosto alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno.

Fenomeni: nessuno.

Venti: deboli settentrionali, fino a moderati da nord ovest sul litorale centro meridionale.

Mari: fra poco mossi e temporaneamente mossi nel pomeriggio-sera.

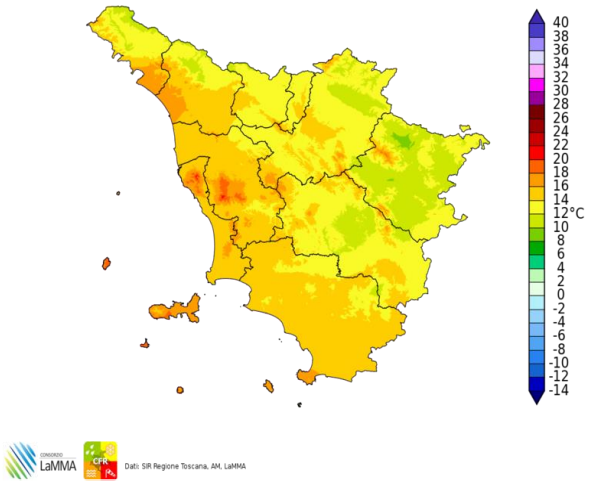
Temperature: in aumento anche sensibile nelle massime.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	N.D.	N.D.	N.D.	N.D.	15	17	N.D.	13	16	16
	anomalia*	N.D.	N.D.	N.D.	N.D.	-3	-1	N.D.	-4	-2	-2
T. max	osservata	N.D.	N.D.	N.D.	N.D.	33	28	N.D.	32	32	31
	anomalia*	N.D.	N.D.	N.D.	N.D.	3	-1	N.D.	1	1	2
Precipitazione (mm/24ore)		N.D.	0	0	0	0	0	N.D.	0	0	0

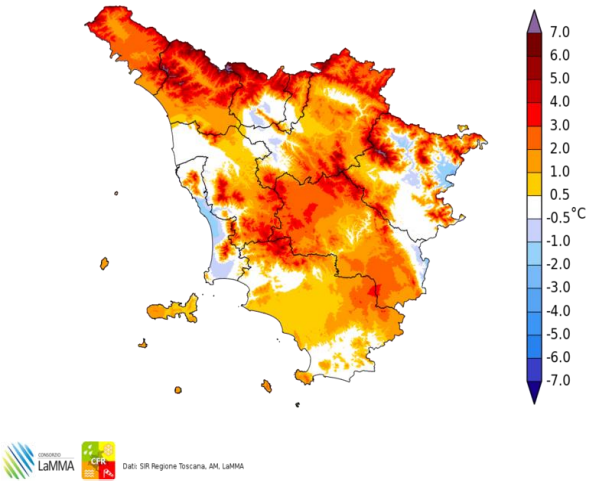
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

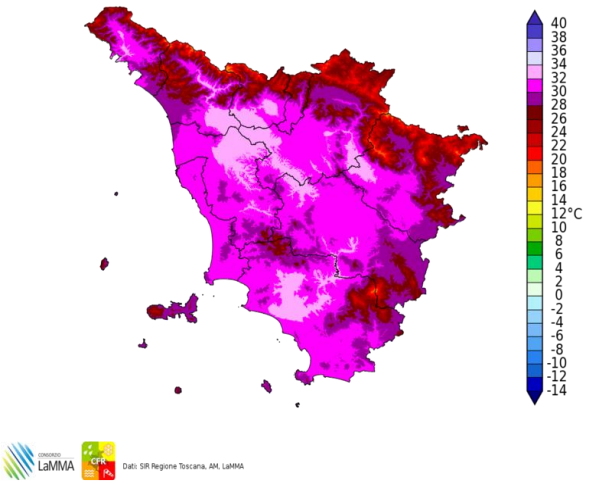
Temperatura Minima del 28/08/2018



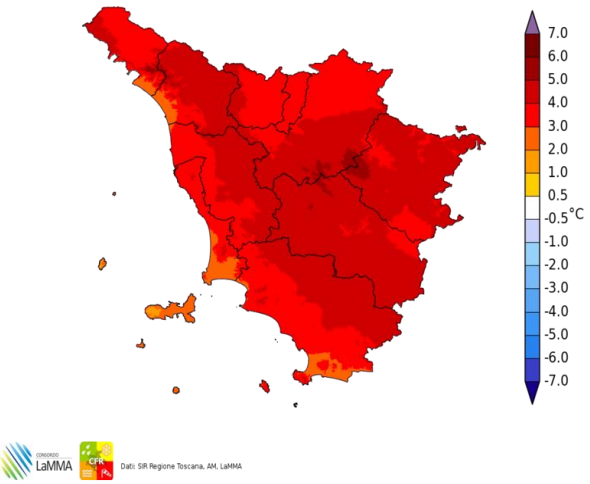
Differenza della Temperatura Minima tra 28/08/2018 e 27/08/2018



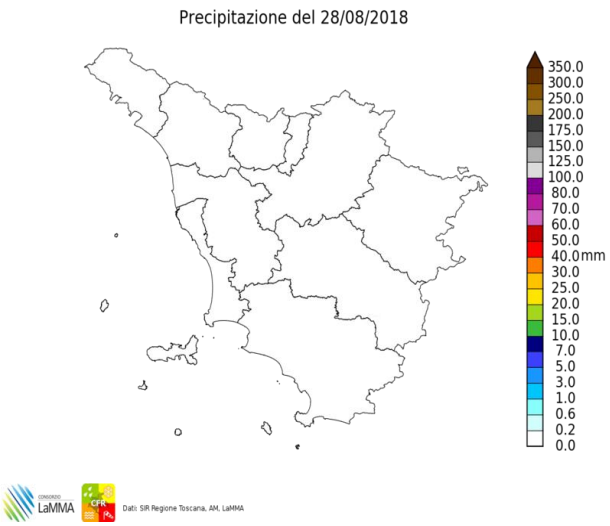
Temperatura Massima del 28/08/2018



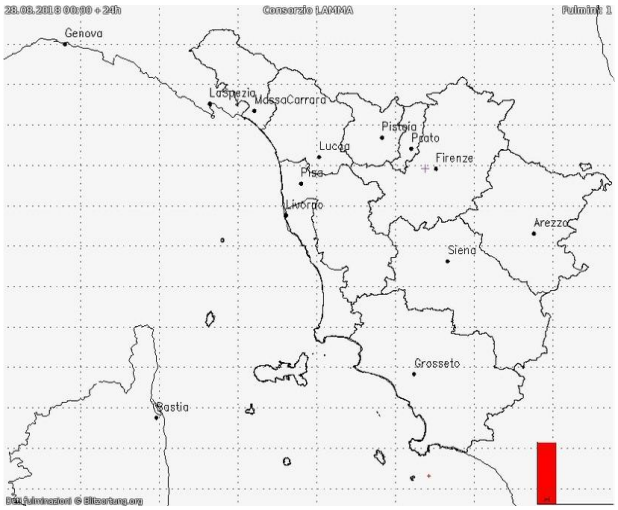
Differenza della Temperatura Massima tra 28/08/2018 e 27/08/2018



Precipitazione del 28/08/2018

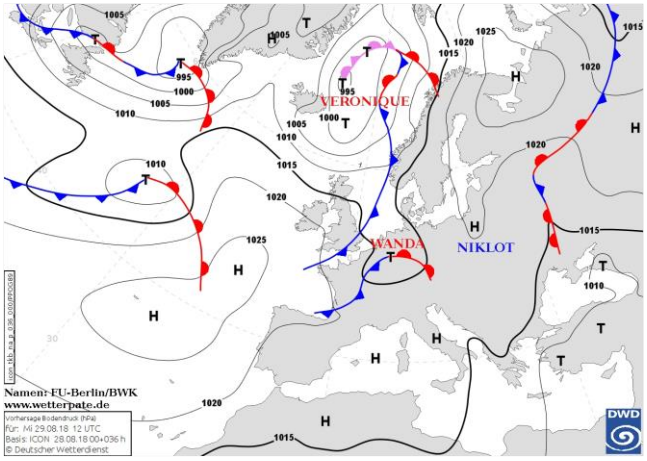


Fulminazioni osservate il giorno 28 Agosto

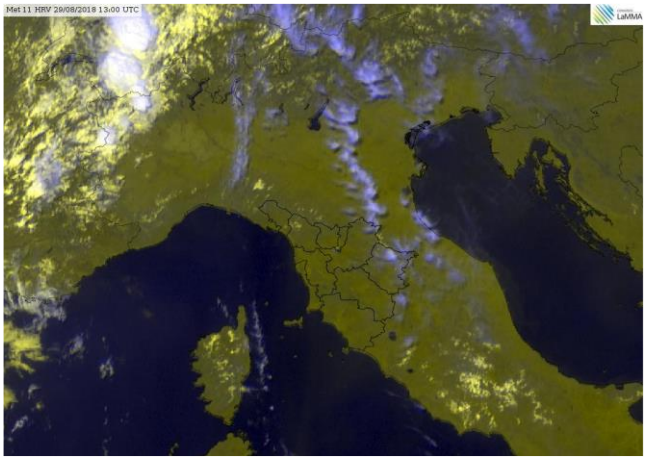


Mercoledi' 29 Agosto 2018

Situazione: sul Mediterraneo centro orientale è ancora presente un promontorio di alta pressione.

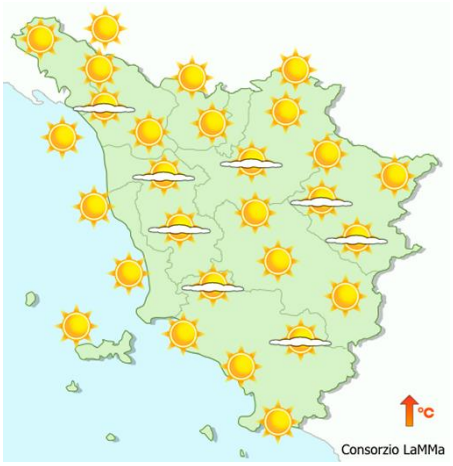


Pressione al suolo e fronti del 29 Agosto alle 12 UTC

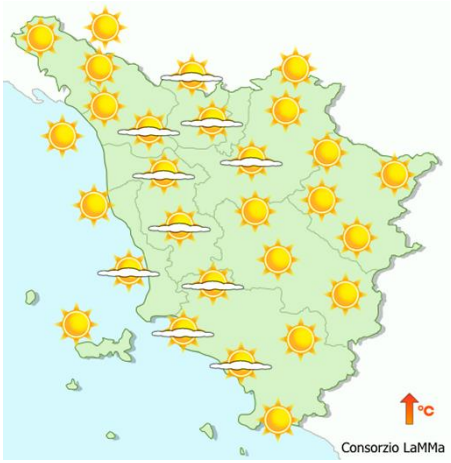


Meteosat HRV del 29 Agosto alle 13 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso.

Fenomeni: nessuno.

Venti: deboli occidentali con rinforzi sulla costa dal tardo pomeriggio.

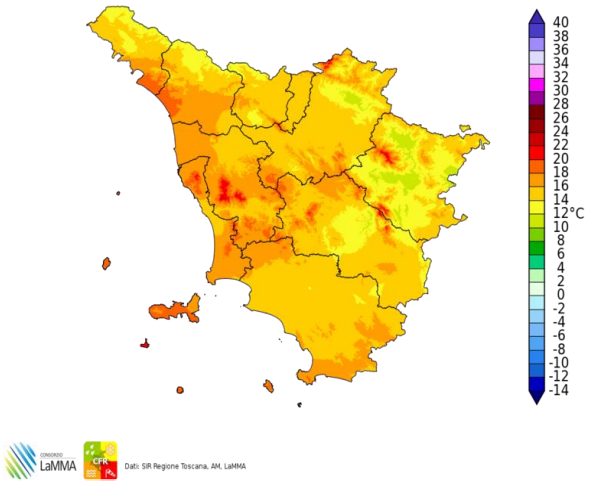
Mari: poco mossi.

Temperature:

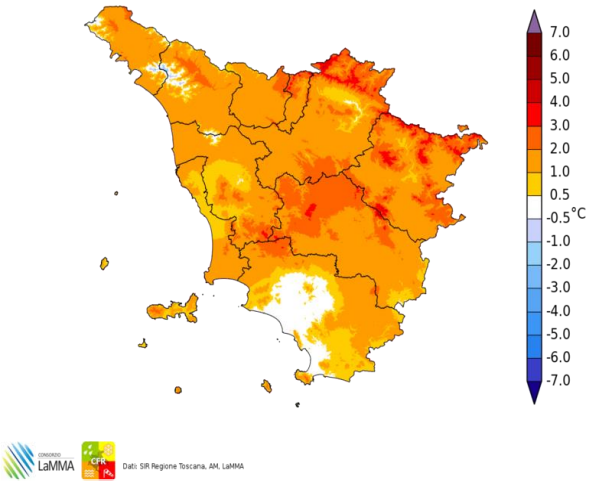
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	13	13	14	N.D.	16	19	15	15	18	19
	anomalia*	-1	-4	-4	N.D.	-2	0	-3	-2	0	2
T. max	osservata	31	34	30	N.D.	32	28	30	32	34	33
	anomalia*	1	3	0	N.D.	2	0	2	1	3	4
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

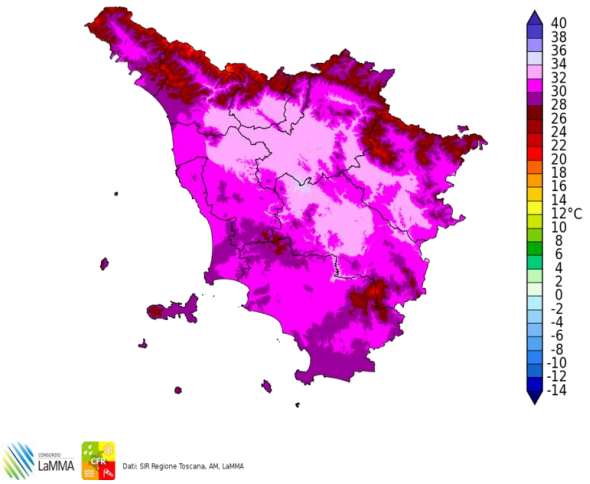
Temperatura Minima del 29/08/2018



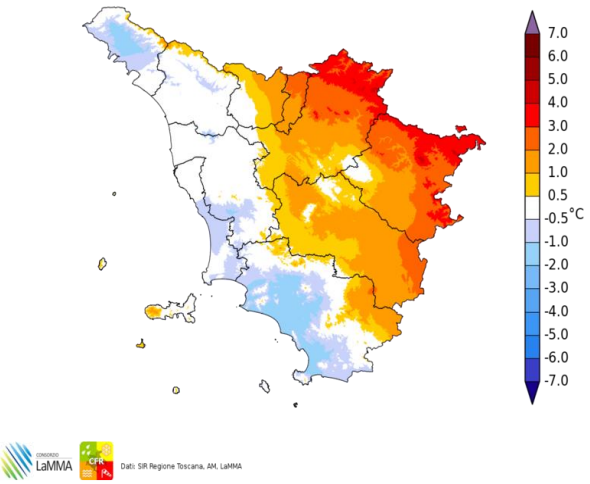
Differenza della Temperatura Minima tra 29/08/2018 e 28/08/2018



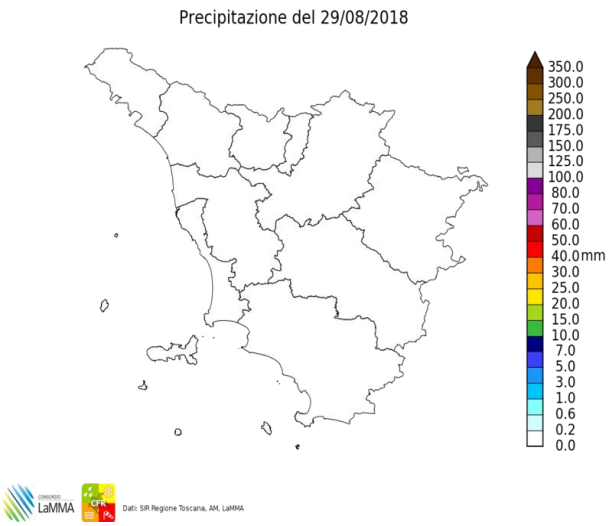
Temperatura Massima del 29/08/2018



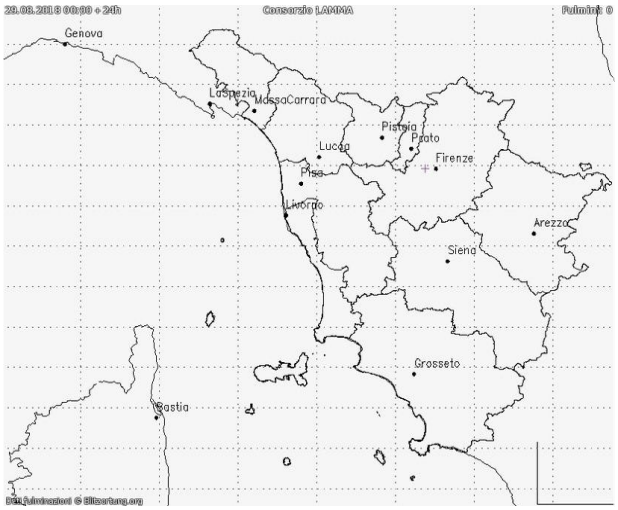
Differenza della Temperatura Massima tra 29/08/2018 e 28/08/2018



Precipitazione del 29/08/2018

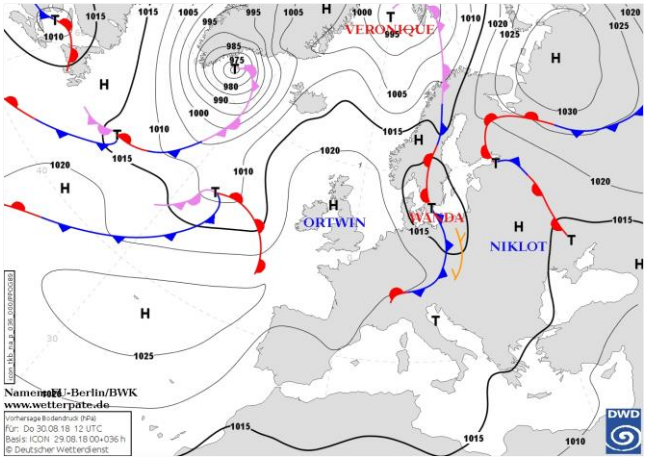


Fulminazioni osservate il giorno 29 Agosto

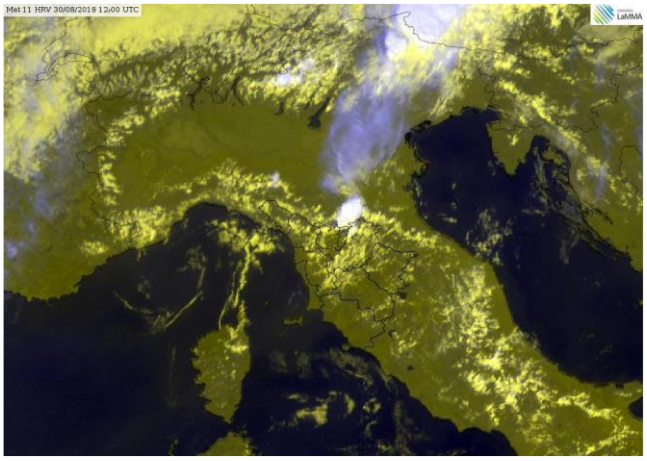


Giovedi' 30 Agosto 2018

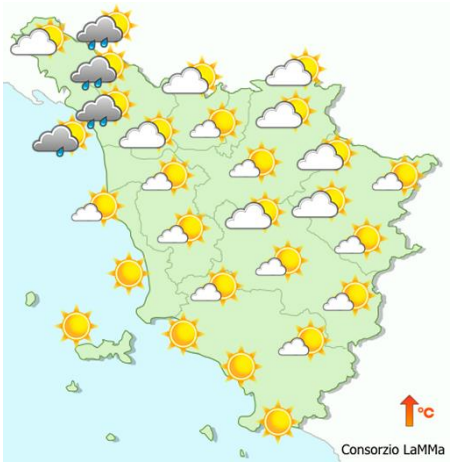
Situazione: Debole minimo depressionario sul Golfo Ligure attiva un flusso di correnti di Libeccio sulla Toscana. Tra sabato e domenica è atteso il transito di un sistema perturbato più organizzato.



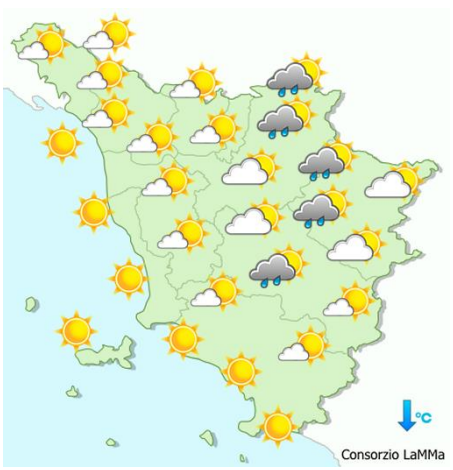
Pressione al suolo e fronti del 30 Agosto alle 12 UTC


Meteosat HRV del 30 Agosto alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: poco o parzialmente nuvoloso con addensamenti più compatti nelle zone interne.

Fenomeni: locali rovesci temporaleschi in mattinata sul nord ovest e nel pomeriggio nell'interno.

Venti: deboli occidentali, sud-occidentali.

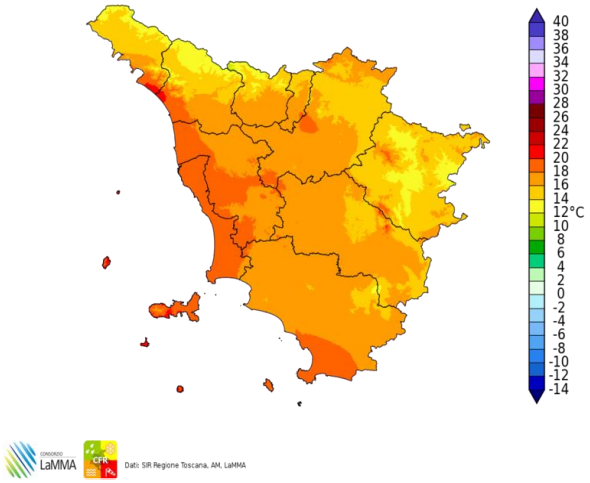
Mari: poco mossi tendenti a mossi.

Temperature: minime in aumento e massime in calo.

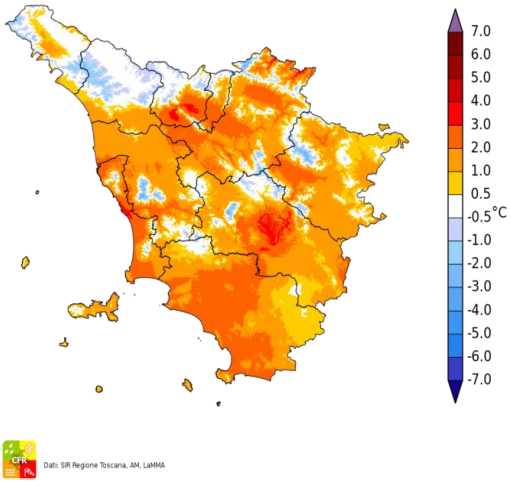
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	15	17	16	22	18	20	18	18	19	18
	anomalia*	0	0	-1	2	0	2	0	1	1	1
T. max	osservata	31	33	30	29	31	28	30	30	31	30
	anomalia*	1	2	0	2	1	-1	1	-1	1	2
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	2

*anomalia calcolata sulla base della normale dimatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

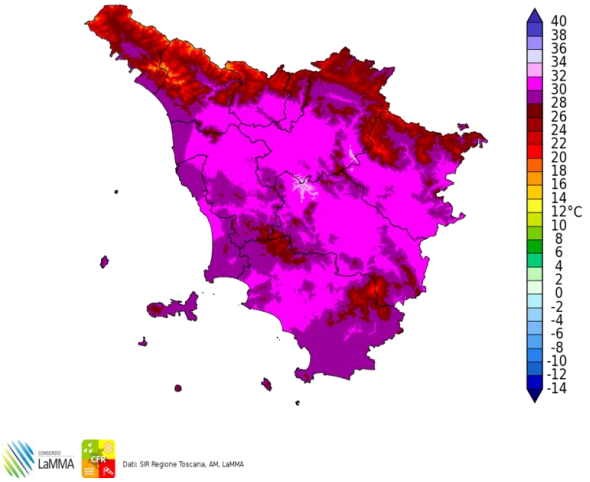
Temperatura Minima del 30/08/2018



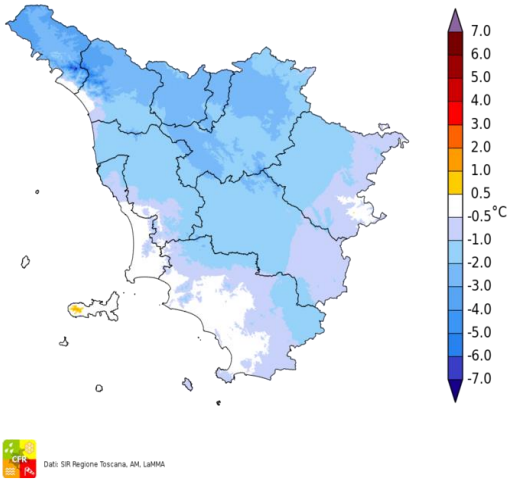
Differenza della Temperatura Minima tra 30/08/2018 e 29/08/2018



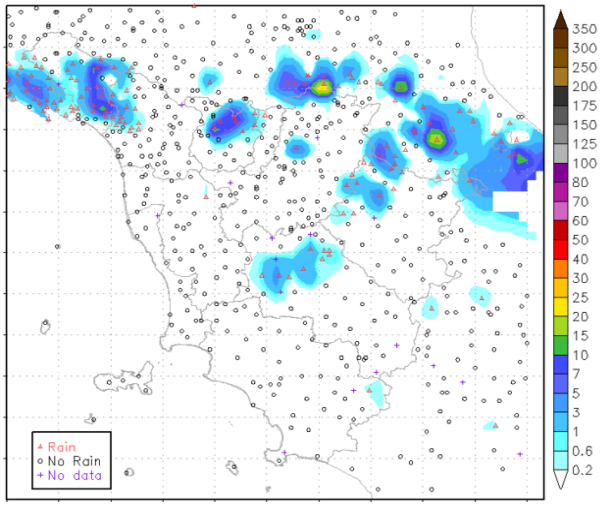
Temperatura Massima del 30/08/2018



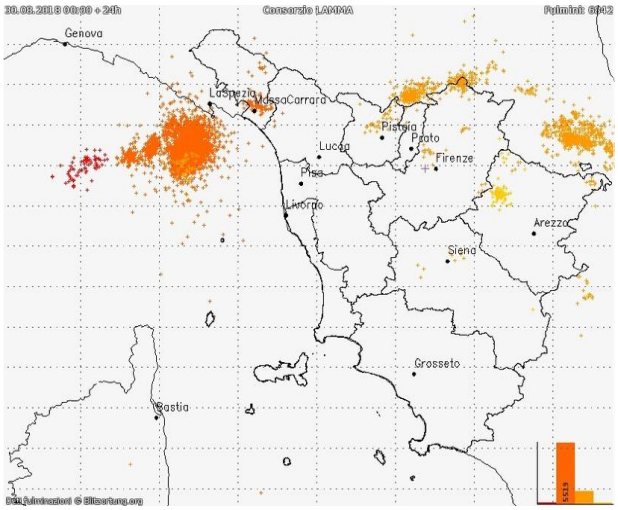
Differenza della Temperatura Massima tra 30/08/2018 e 29/08/2018



Total Precipitation [mm] cumulated on Thu, 30/08/2018

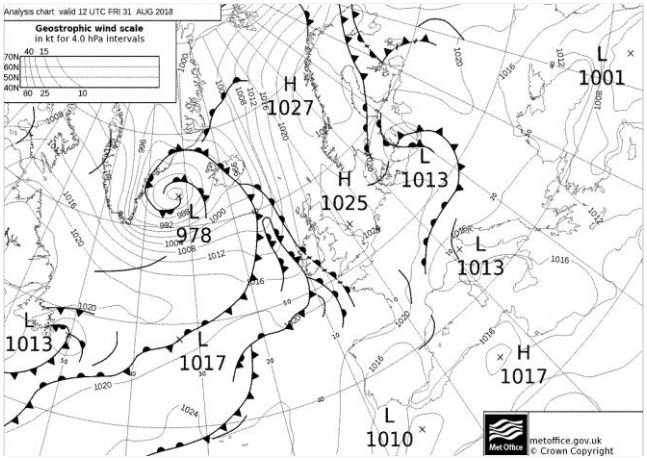


Fulminazioni osservate il giorno 30 Agosto

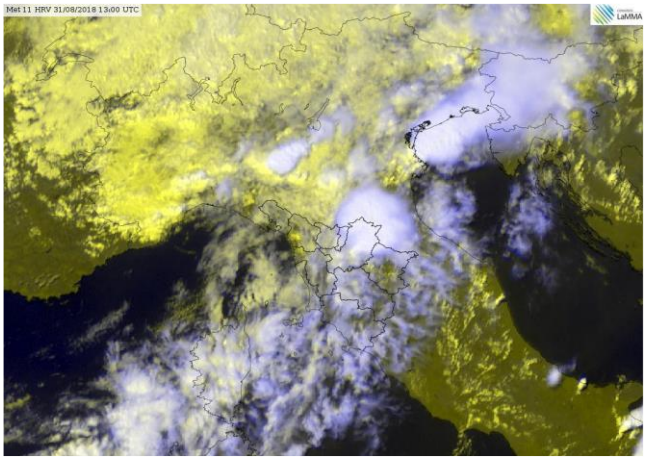


Venerdi' 31 Agosto 2018

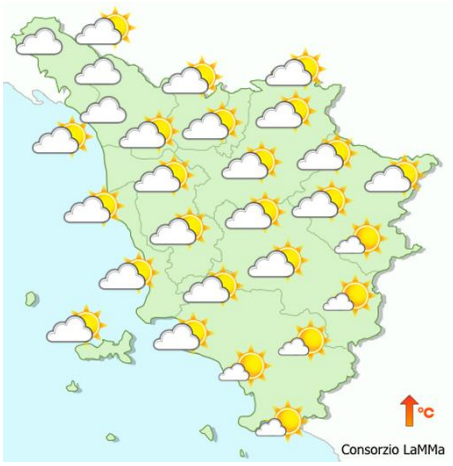
Situazione: un'ampia saccatura collegata ad un vortice sul Mare del Nord è in fase di approfondimento sull'Europa centrale.



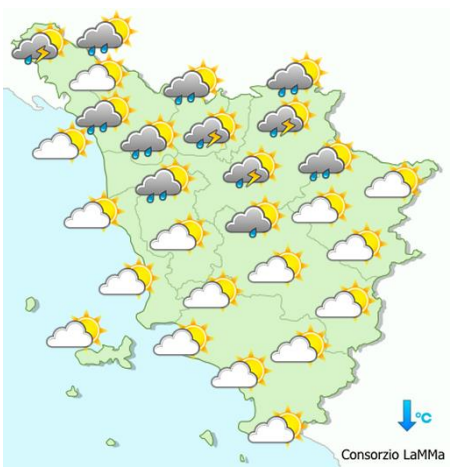
Pressione al suolo e fronti del 31 Agosto alle 12 UTC


Meteosat HRV del 31 Agosto alle 13 UTC

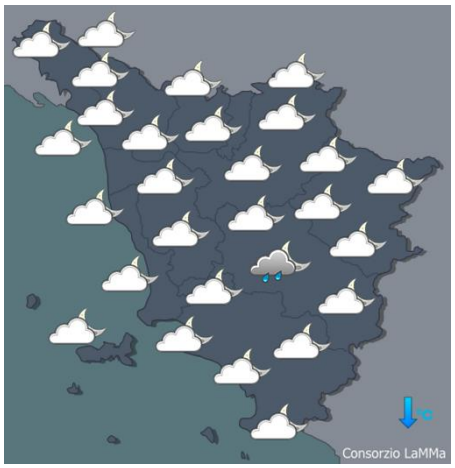
situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: in prevalenza nuvoloso.

Fenomeni: tra la tarda mattinata e il primo pomeriggio temporali sparsi sulle province settentrionali con cumulati massimi fino a 20-25 mm. In serata isolati rovesci sul senese.

Venti: da moderati a forti occidentali a nord di Capraia, deboli o moderati meridionali altrove.

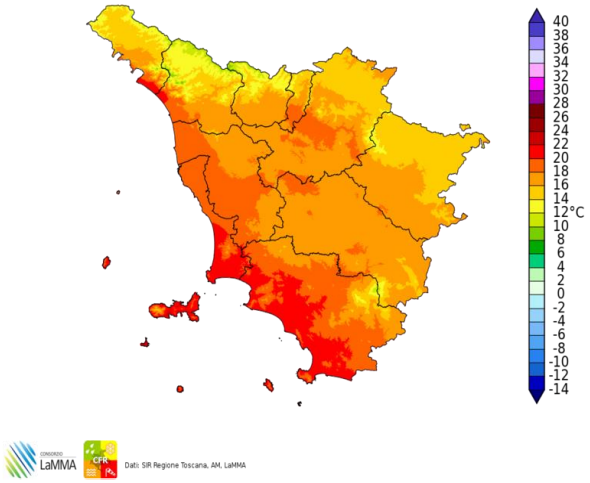
Mari: mossi, fino a molto mossi dal pomeriggio a nord dell'Elba.

Temperature: minime in aumento sulle province centro meridionali, massime in diminuzione.

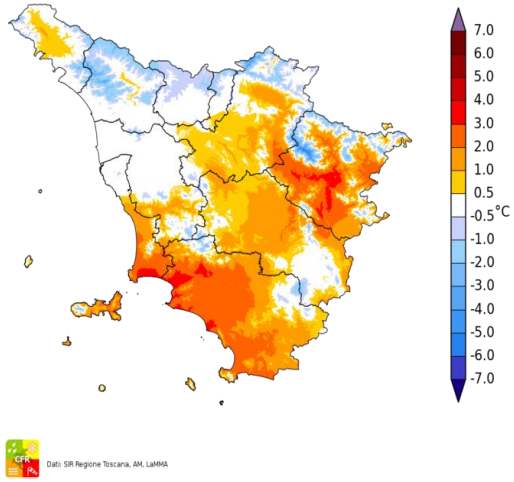
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	18	18	16	22	18	20	17	18	20	19
	anomalia*	4	0	-1	1	0	2	-1	1	1	1
T. max	osservata	28	28	28	26	27	27	28	27	28	27
	anomalia*	-2	-3	-2	-1	-3	-2	-1	-4	-2	-2
Precipitazione (mm/24ore)		N.D.	5	0	0	0	0	N.D.	10	0	0

*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

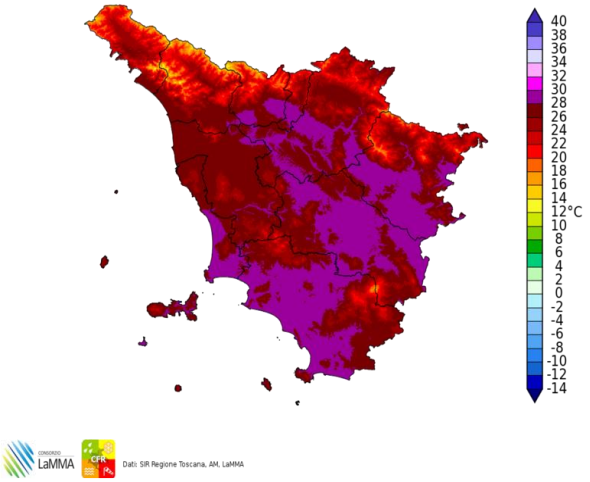
Temperatura Minima del 31/08/2018



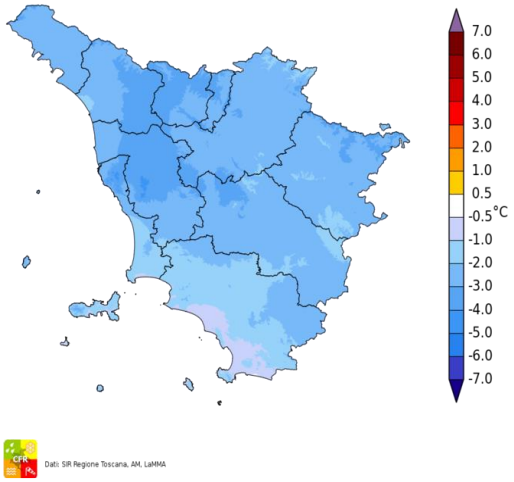
Differenza della Temperatura Minima tra 31/08/2018 e 30/08/2018



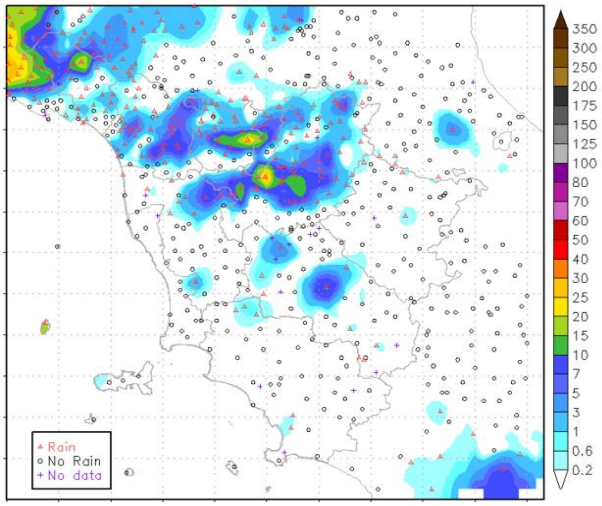
Temperatura Massima del 31/08/2018



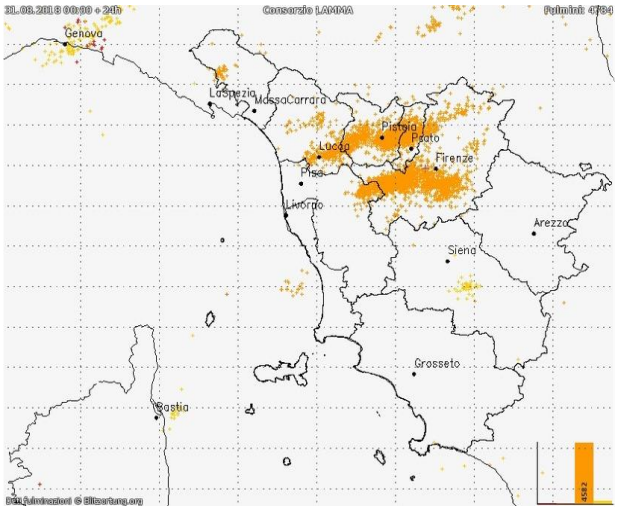
Differenza della Temperatura Massima tra 31/08/2018 e 30/08/2018



Total Precipitation [mm] cumulated on Fri, 31/08/2018



Fulminazioni osservate il giorno 31 Agosto

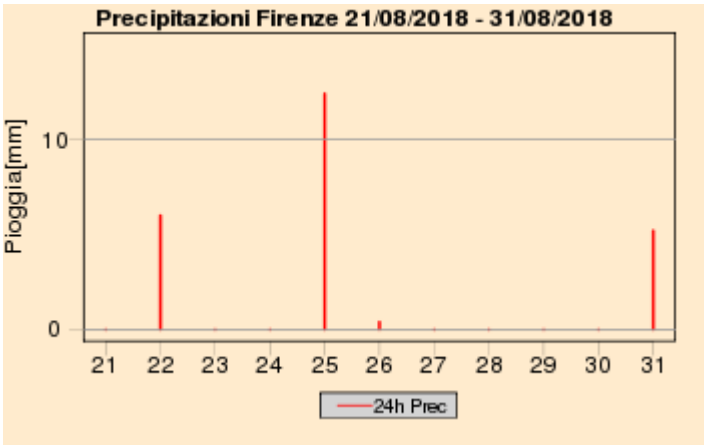


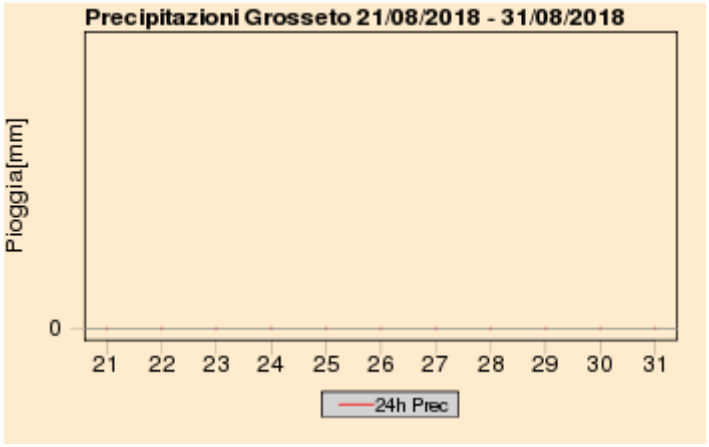
III decade - Quadro regionale – Precipitazioni

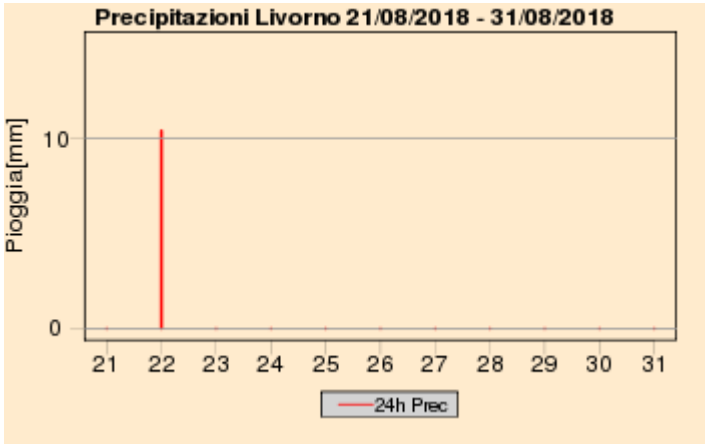
Anche nel corso della terza decade di Agosto si sono avute frequentemente condizioni di instabilità atmosferica che hanno favorito l'occorrenza di precipitazioni sparse o isolate a prevalente carattere temporalesco; tali fenomeni precipitativi si sono naturalmente presentati a macchia di leopardo, risultando tuttavia più frequenti nella prima parte della decade e sulle zone interne centrali e settentrionali.

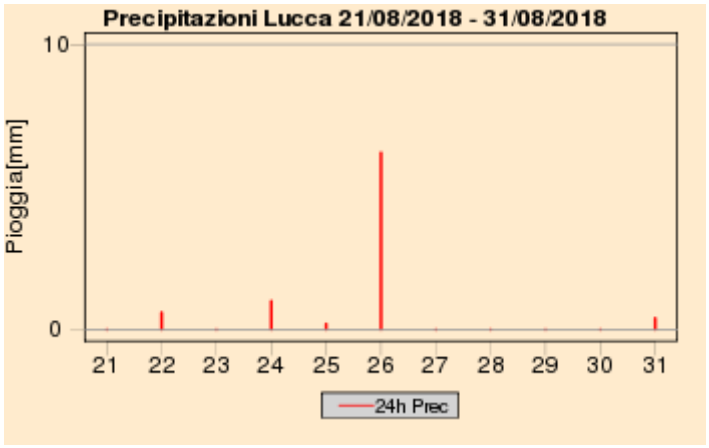
I cumulati medi decadali tuttavia risultano lievemente inferiori a quelli tipici del periodo.

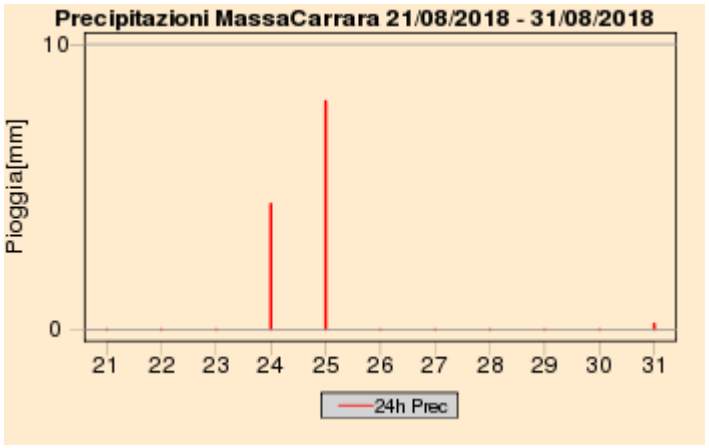


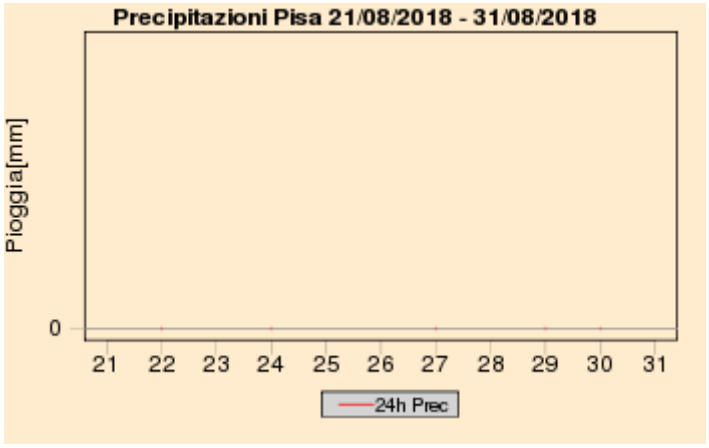


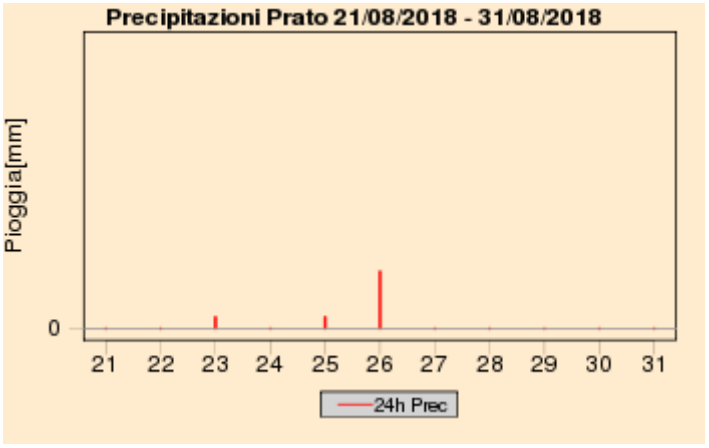


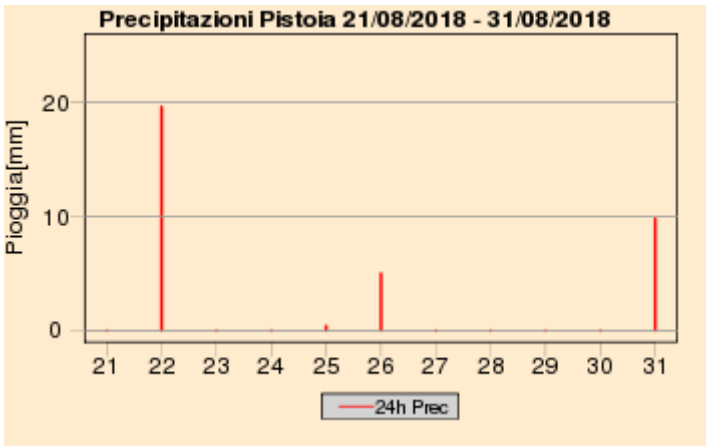


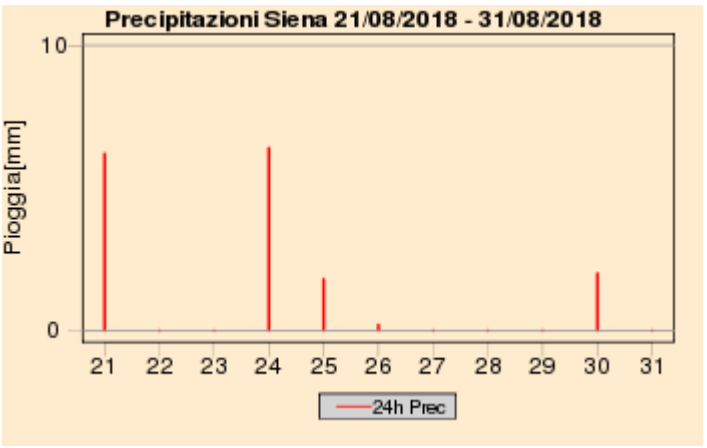




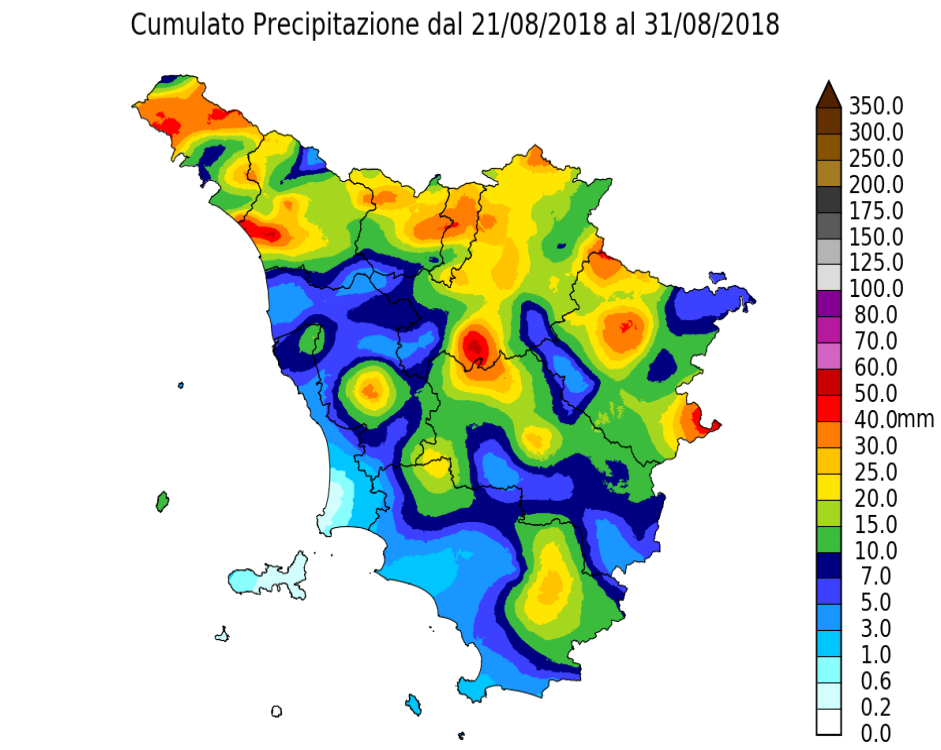






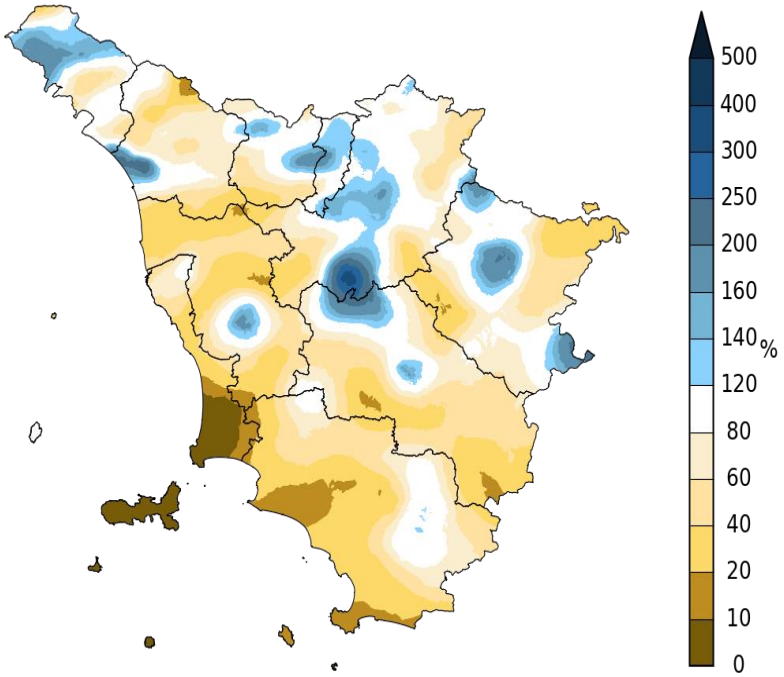


Quadro regionale – Cumulati decadali di precipitazione, anomalia di precipitazione e numero di giorni di pioggia.



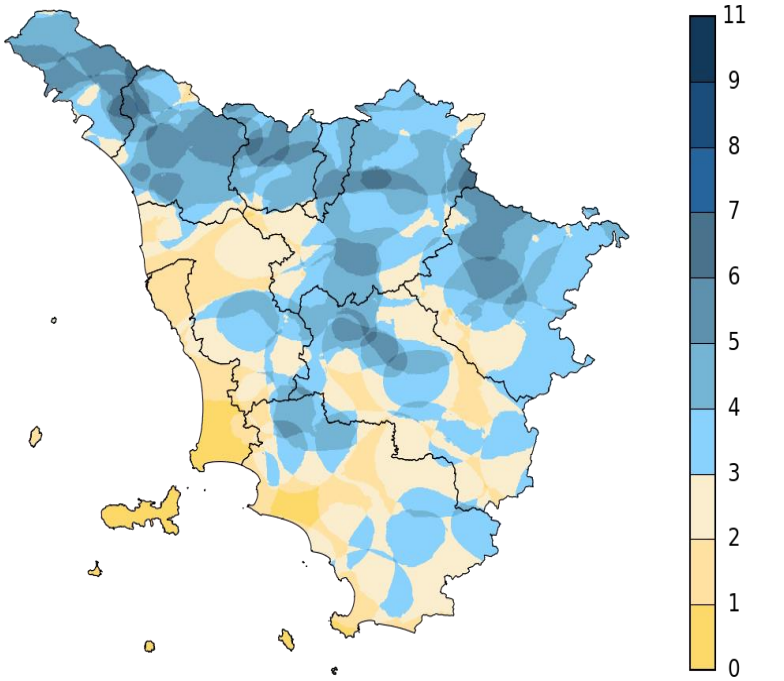
Dati: SIR Regione Toscana, AM, LaMMA

Percentuale di Precipitazione rispetto alla media climatica
dal 21/08/2018 al 31/08/2018



Dati: SIR Regione Toscana, AM, LaMMA

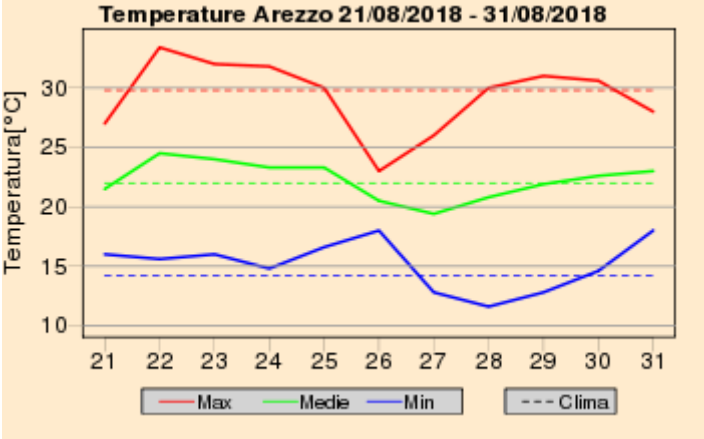
Giorni con Pioggia ≥ di 1 mm dal 21/08/2018 al 31/08/2018

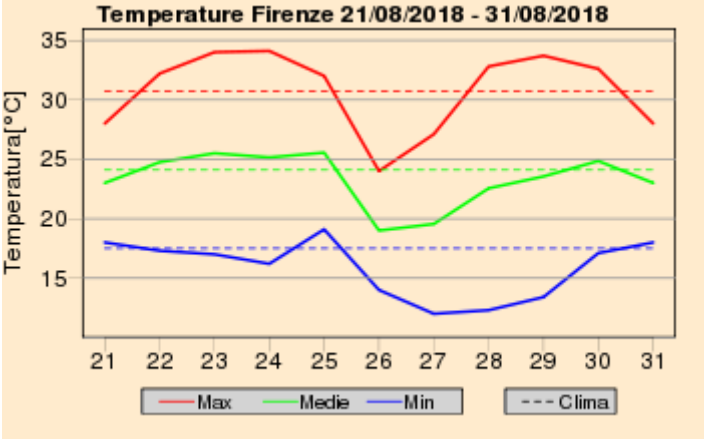


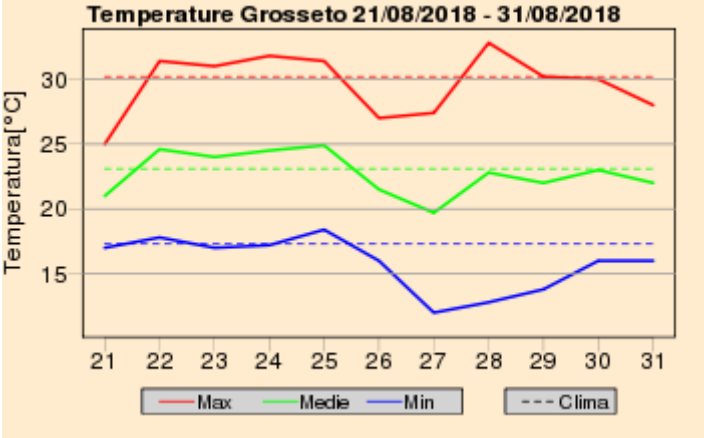
Dati: SIR Regione Toscana, AM, LaMMA

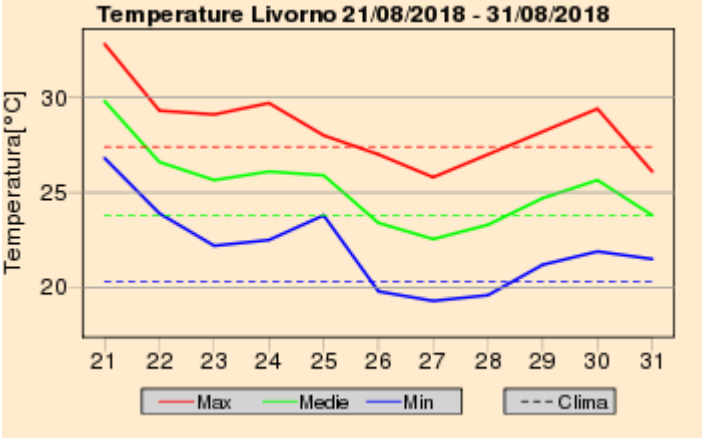
III decade - Quadro regionale – Temperature

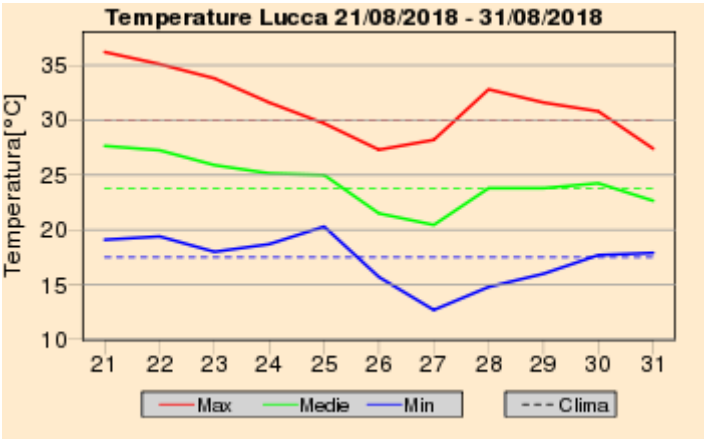
Anche la terza decade di Agosto non ha fatto registrare particolari anomalie termiche e le temperature sia minime che massime si sono mantenute generalmente entro le medie tipiche del periodo calcolate sul periodo 1981-2010.

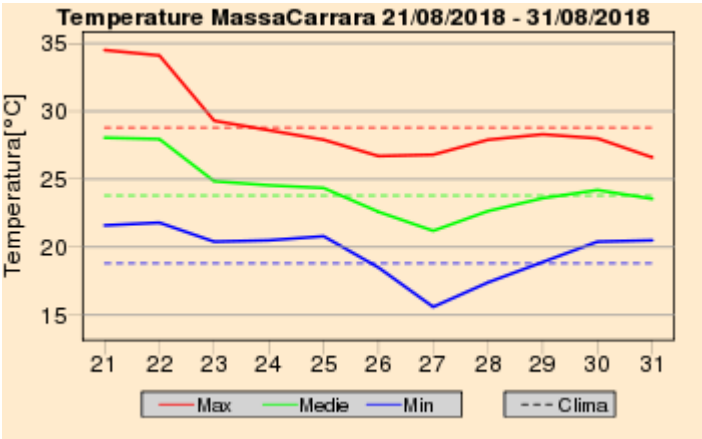


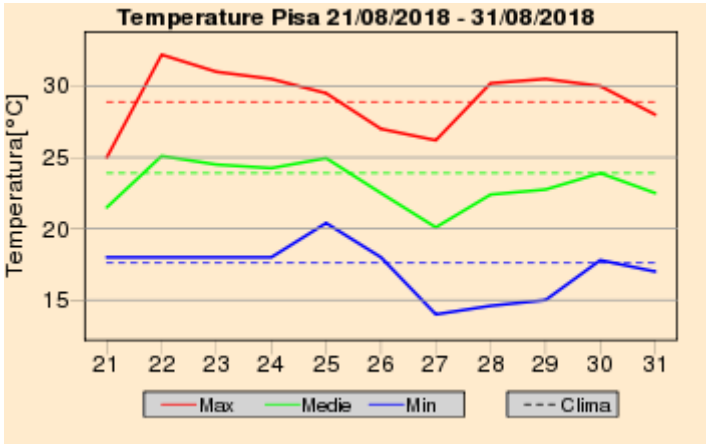


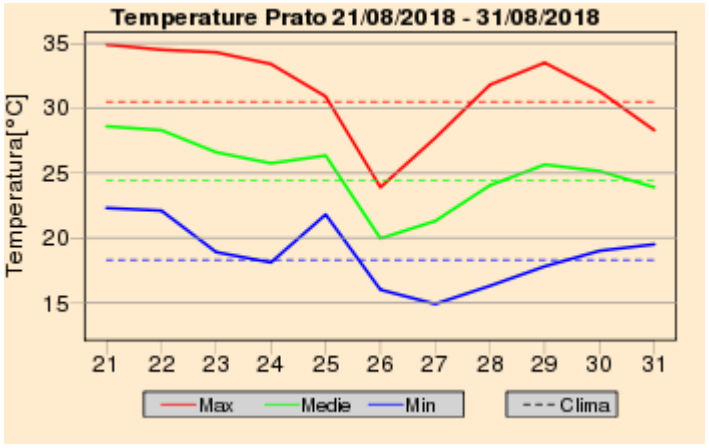


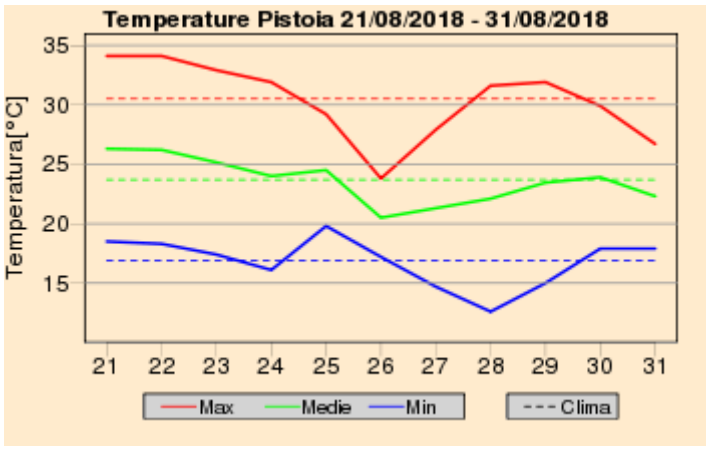


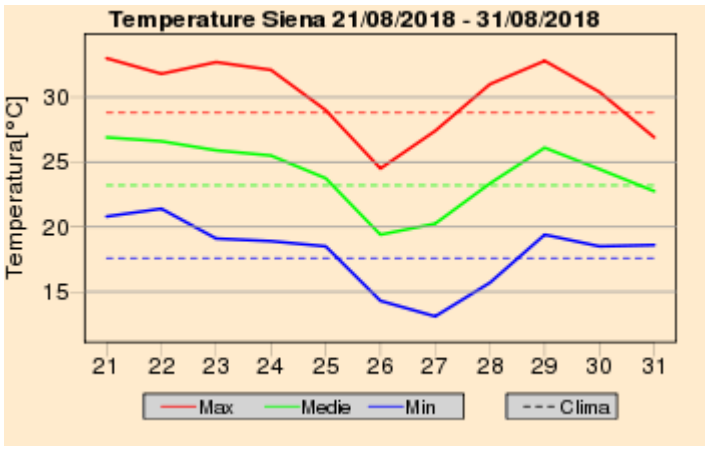




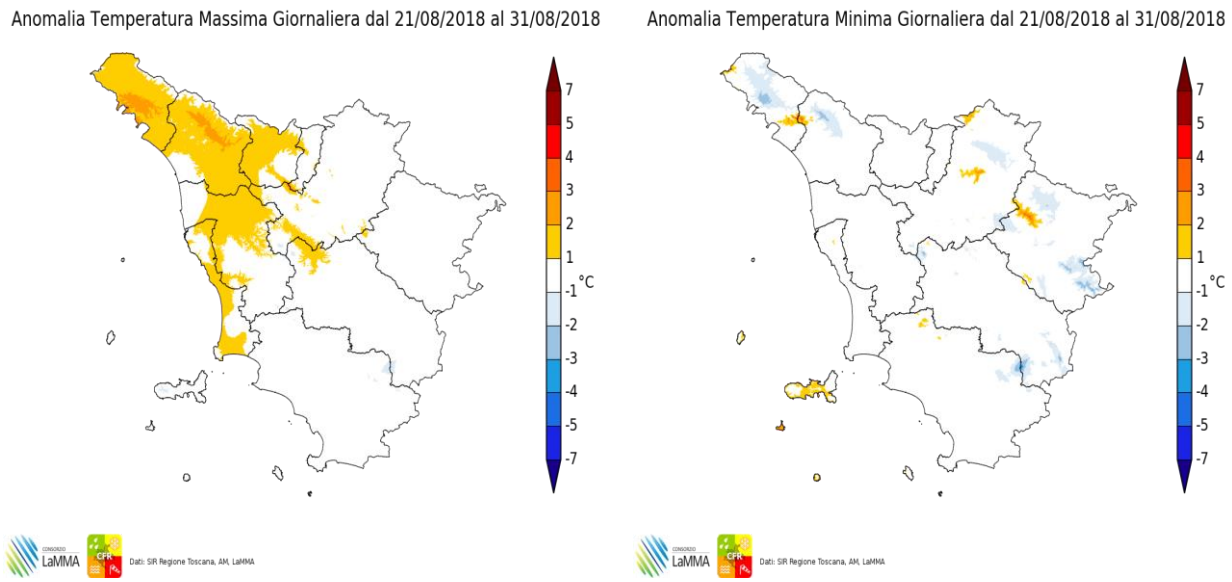








Quadro regionale – Anomalie termiche

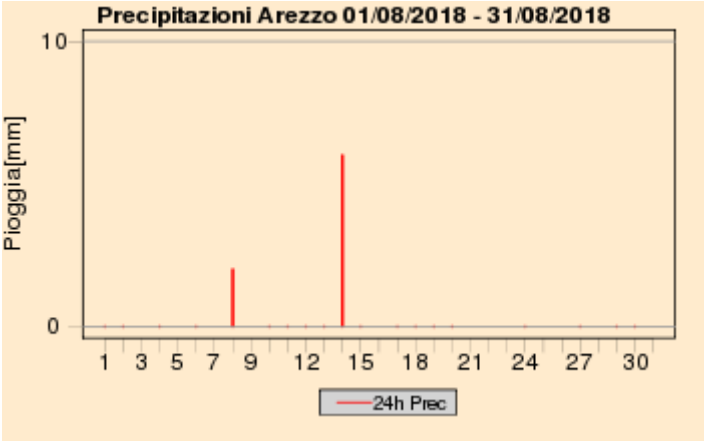


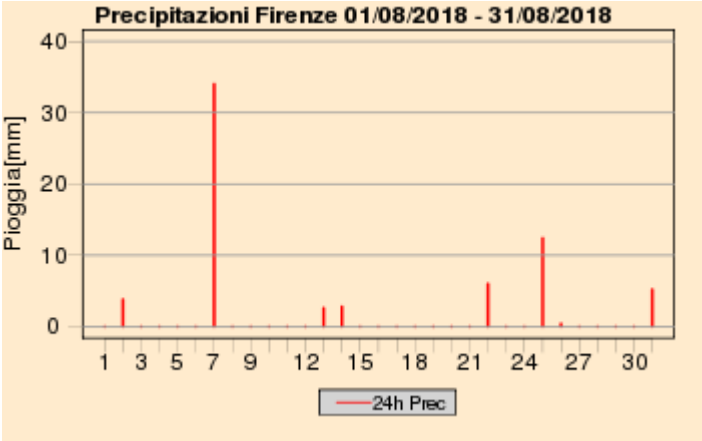
Anomalia termica decadale per le temperature massime e minime giornaliere

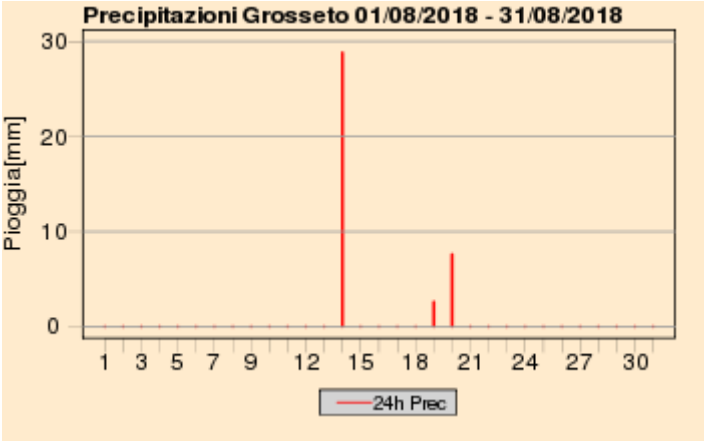
Grafici mensili: Precipitazioni

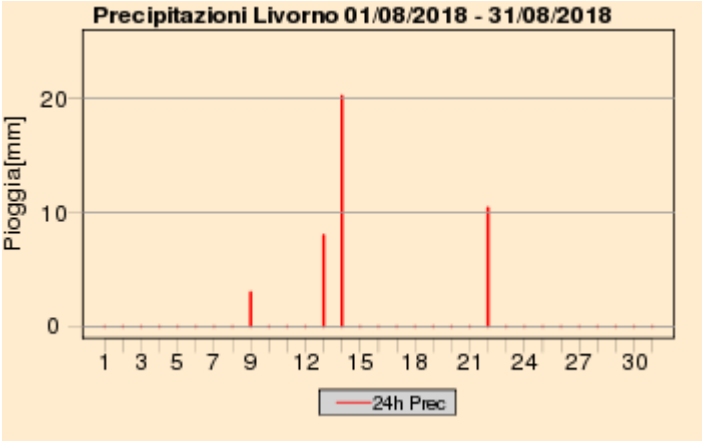
Le piogge osservate nel mese di Agosto si sono presentate prevalentemente, come tipico per il periodo, a carattere di temporale sparso o isolato e di conseguenza i cumulati registrati sono risultati estremamente eterogenei: le zone meno piovose sono risultate in particolare il Valdarno inferiore, la Val di Chiana e la Val Tiberina, ove la pioggia caduta nel mese non ha generalmente superato i 10-15 mm, mentre sulla zone del monte Amiata si sono raggiunti cumulati anche superiori a 150 mm.
Nel complesso le precipitazioni sono risultate superiori alla media sulla Maremma, inferiori alle medie su Valdarno inferiore, Val di Chiana e Val Tiberina, generalmente in media altrove.

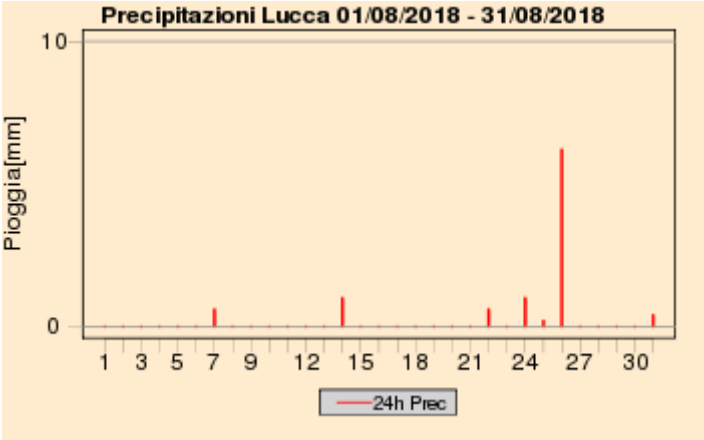
Quadro regionale – Precipitazioni osservate nei capoluoghi

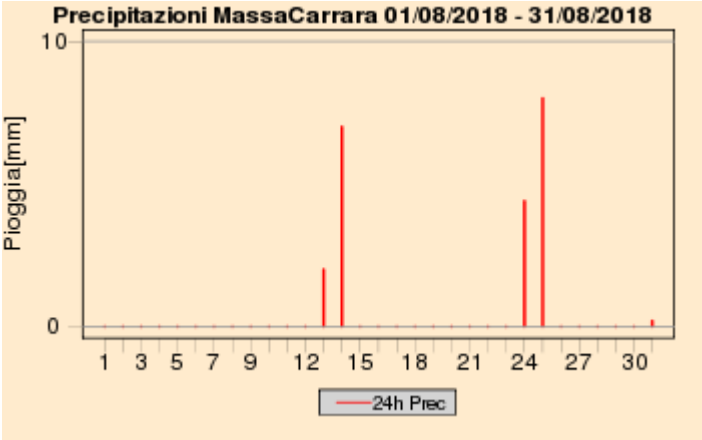


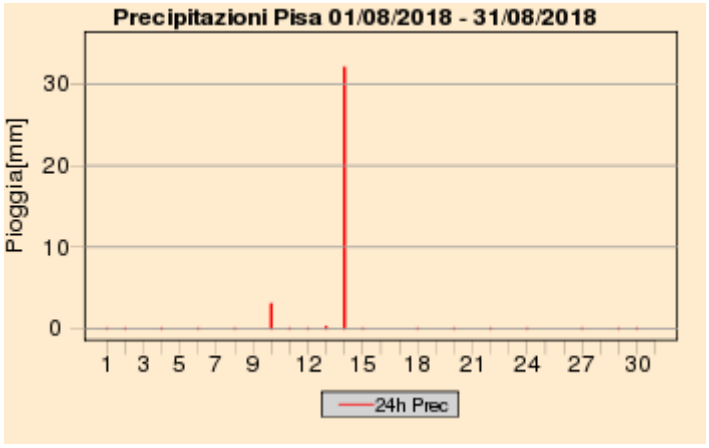


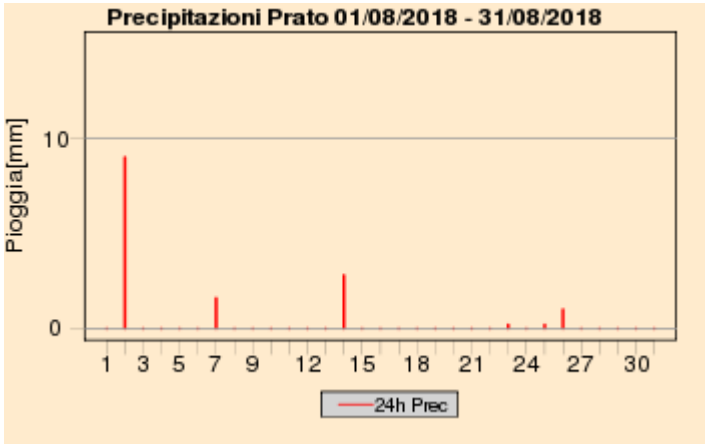


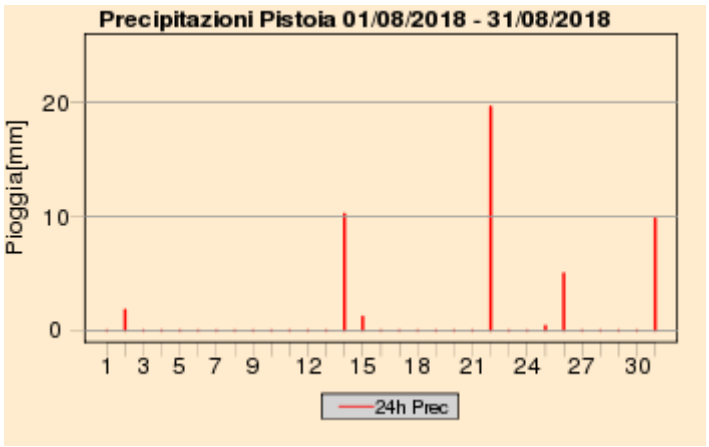


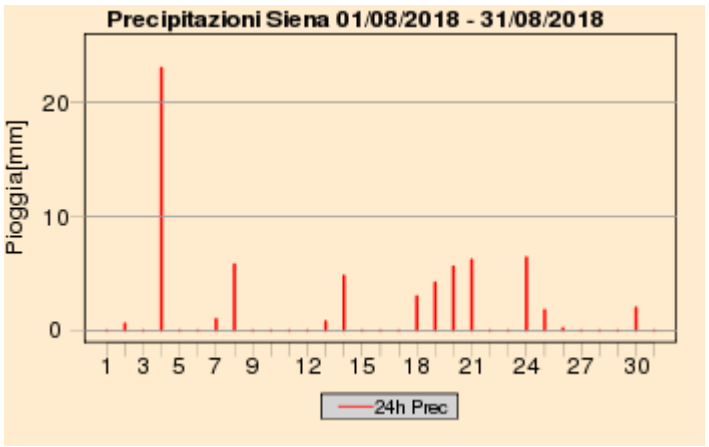




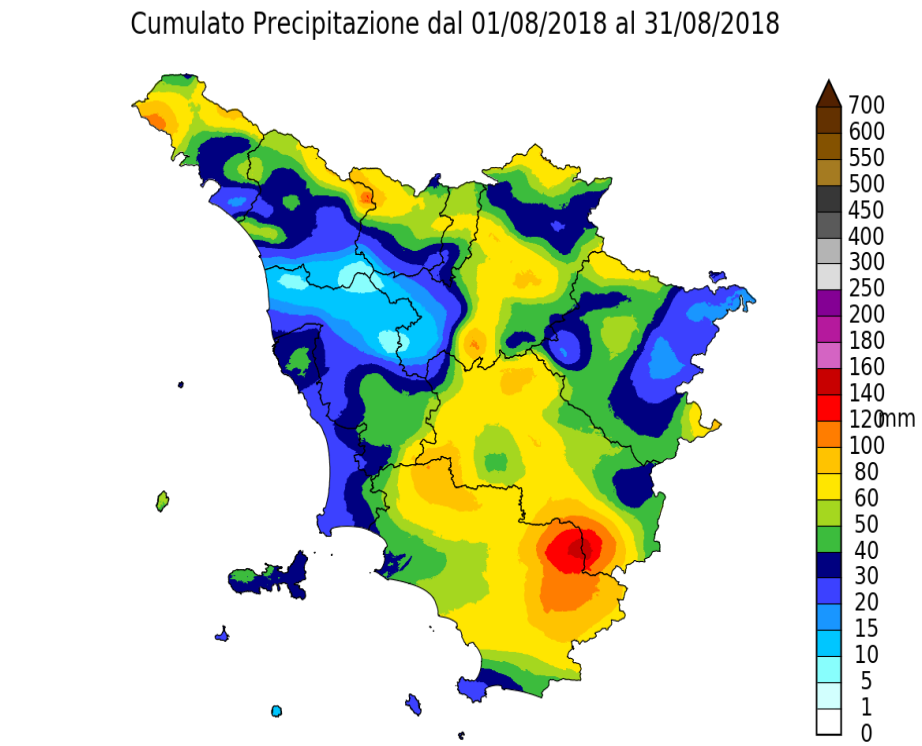






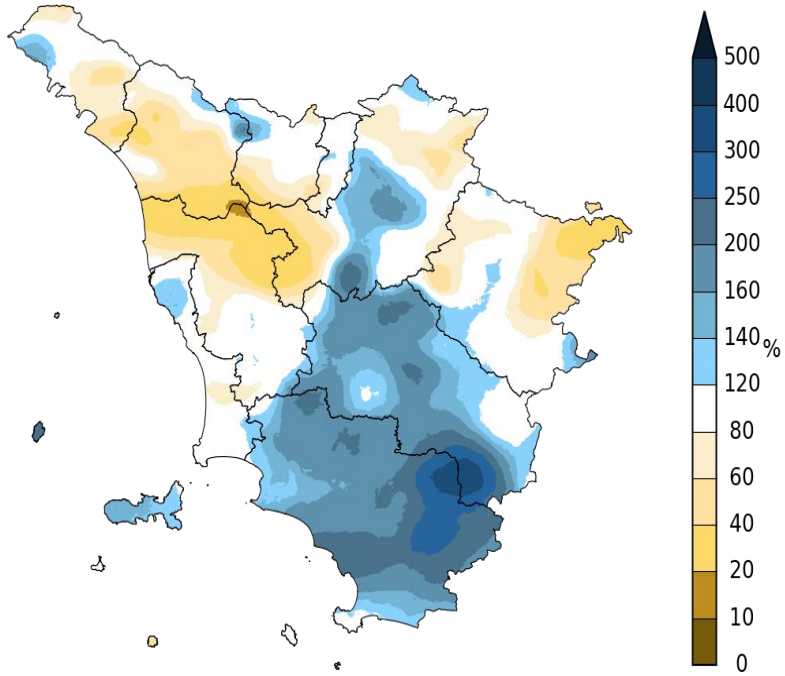


Quadro regionale – Cumulati mensili di precipitazione, anomalia di precipitazione e numero di giorni di pioggia



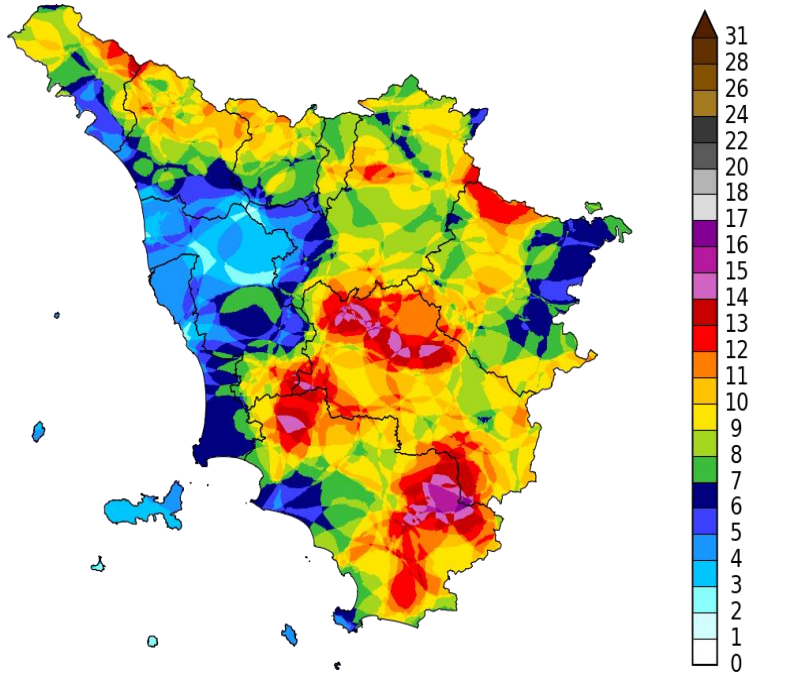
Cumulati mensili di precipitazione sul territorio regionale (Agosto 2018)

Percentuale di Precipitazione rispetto alla media climatica
dal 01/08/2018 al 31/08/2018



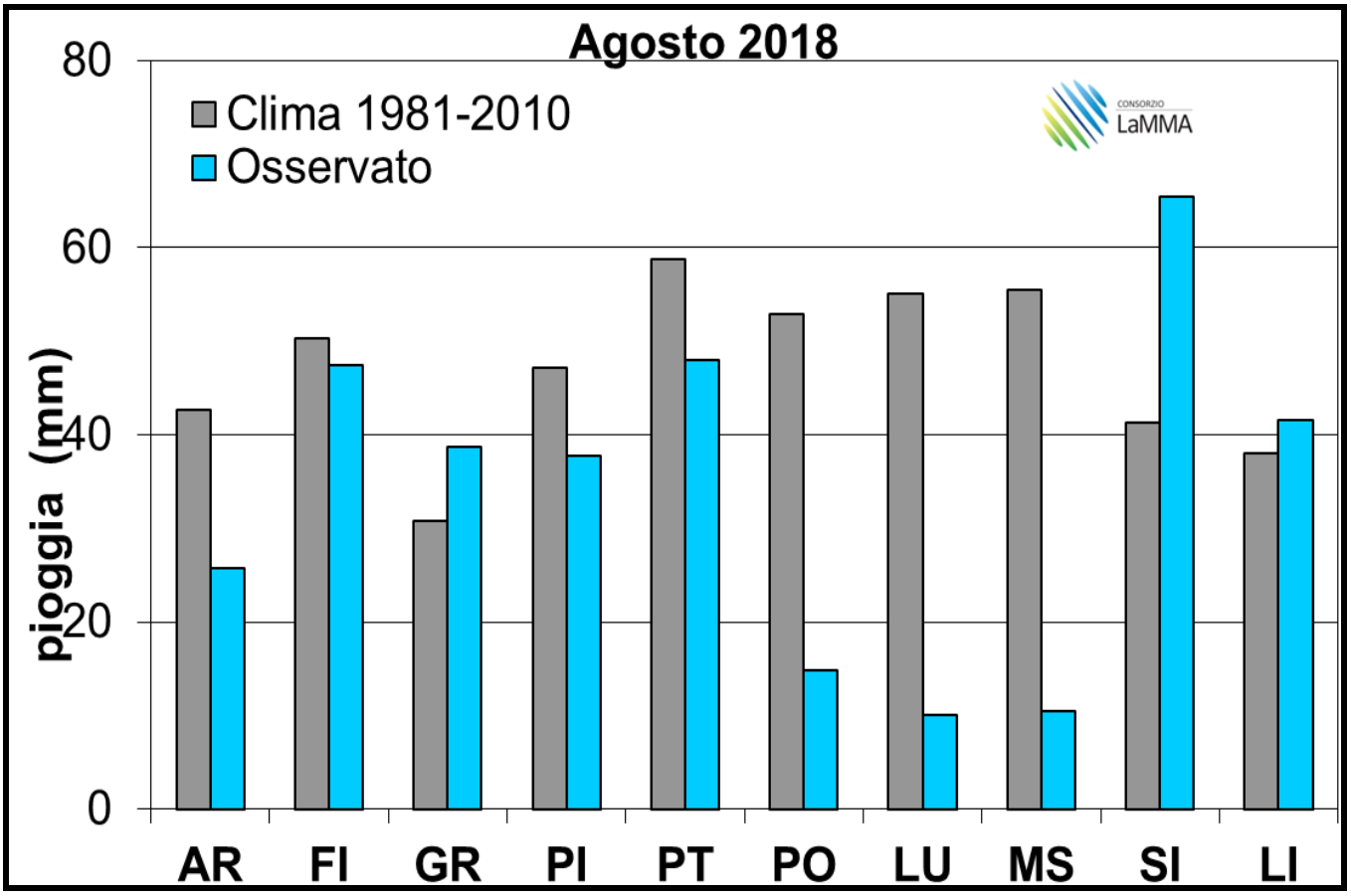
Dati: SIR Regione Toscana, AM, LaMMA

Giorni con Pioggia ≥ di 1 mm dal 01/08/2018 al 31/08/2018

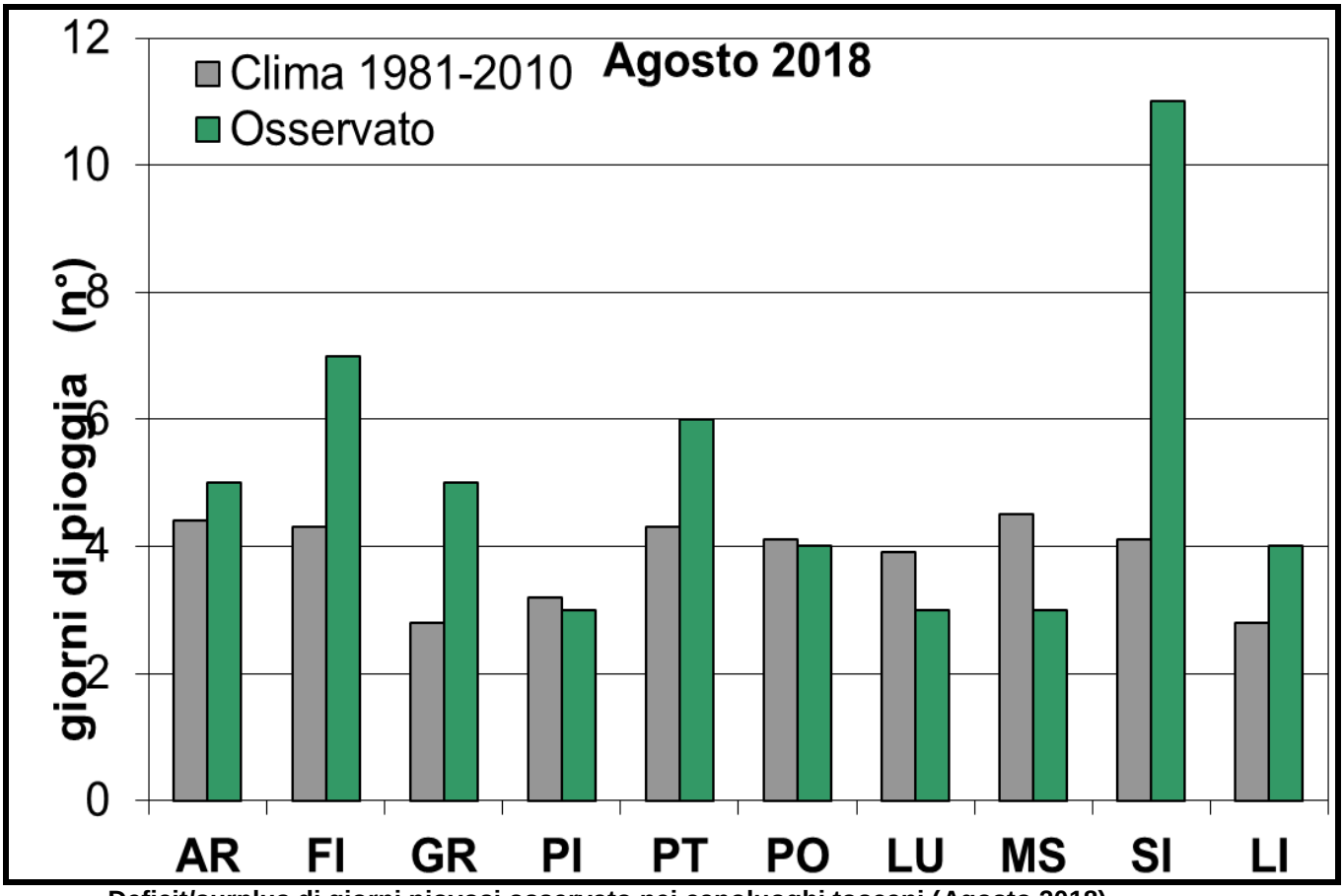


Dati: SIR Regione Toscana, AM, LaMMA

Quadro regionale – Anomalie di precipitazione e del numero di giorni piovosi nei capoluoghi



Deficit/surplus di precipitazione osservato nei capoluoghi toscani (Agosto 2018)

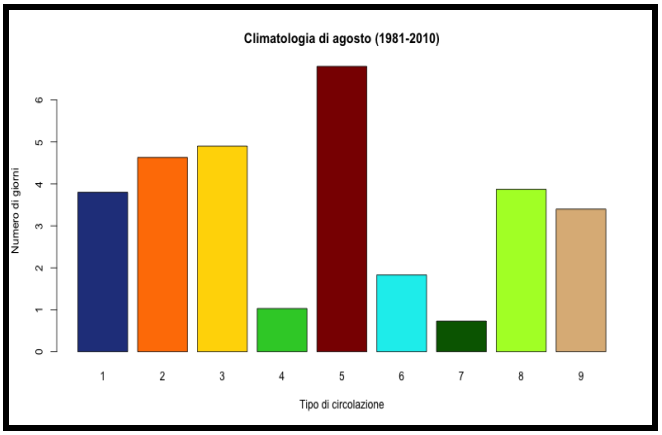


Deficit/surplus di giorni piovosi osservato nei capoluoghi toscani (Agosto 2018)

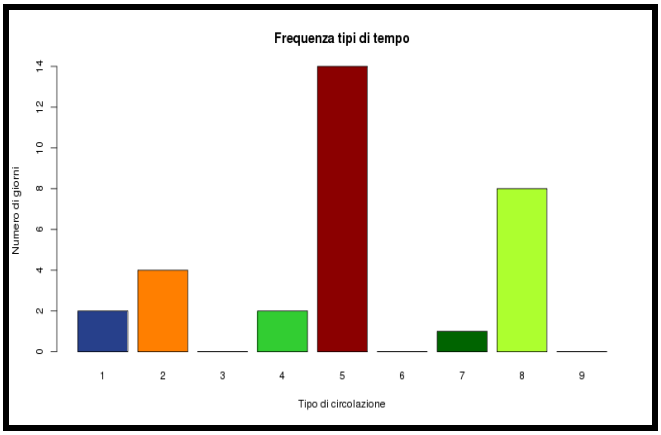
tipi di circolazione prevalenti nel mese di Agosto e impatto sulle precipitazioni

Per approfondimento sulle analisi dei tipi di circolazione si rimanda alla pagina web
www.lamma.rete.toscana.it/clima-e-energia/climatologia/tipi-di-circolazione-eobs

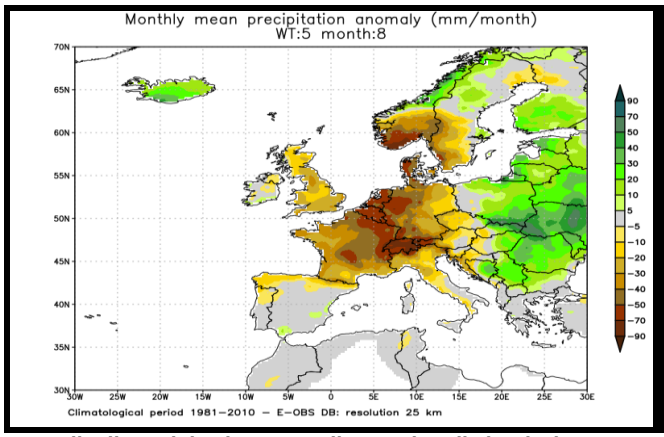
La circolazione prevalente nel corso del mese di Agosto 2018 secondo la classificazione PCT (Principal Component Transversa) è risultata la 5 (***pressione medio-alta con minimo sull'Egeo e flusso da E-NE***), osservata ben 14 giorni su 31; si tratta di una configurazione che a livello climatologico risulta la più frequente nel mese di Agosto e che tipicamente favorisce sull'Europa continentale e in parte sul centro-nord Italia un clima asciutto con piogge sotto la media.
Abbastanza frequente è risultata anche il tipo di circolazione completamente differente, ovvero la numero 8 (***pressione medio-alta con minimo oltralpe***), presente in 6 giorni: si tratta di un tipo di circolazione che favorisce precipitazioni abbondanti e superiori alla media in particolare sull'Europa continentale e generalmente in media o poco superiori sull'Italia centro settentrionale.



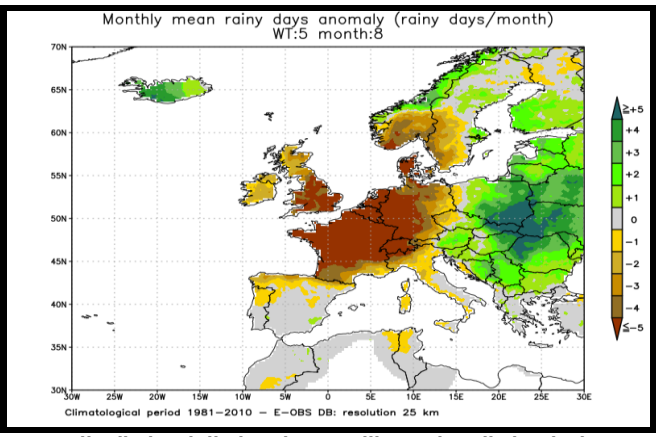
Frequenza media dei tipi di circolazione sulla Toscana a Agosto



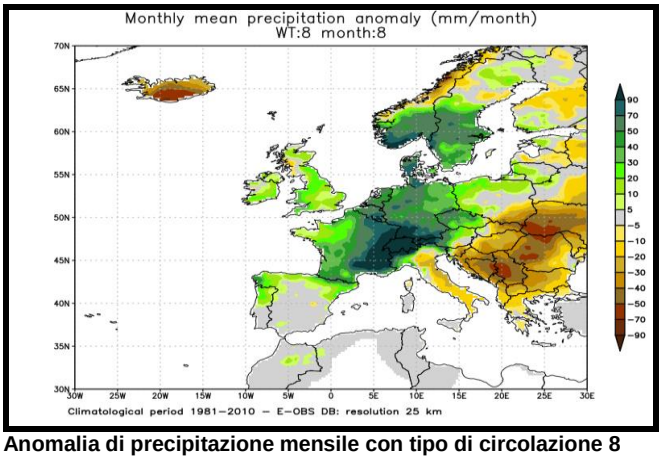
Frequenza dei tipi di circolazione sulla Toscana nel Agosto 2018



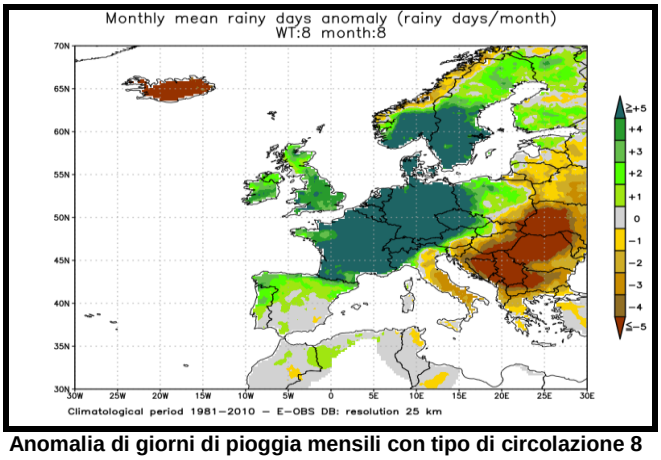
Anomalia di precipitazione mensile con tipo di circolazione 5



Anomalia di giorni di pioggia mensili con tipo di circolazione 7



Anomalia di precipitazione mensile con tipo di circolazione 8

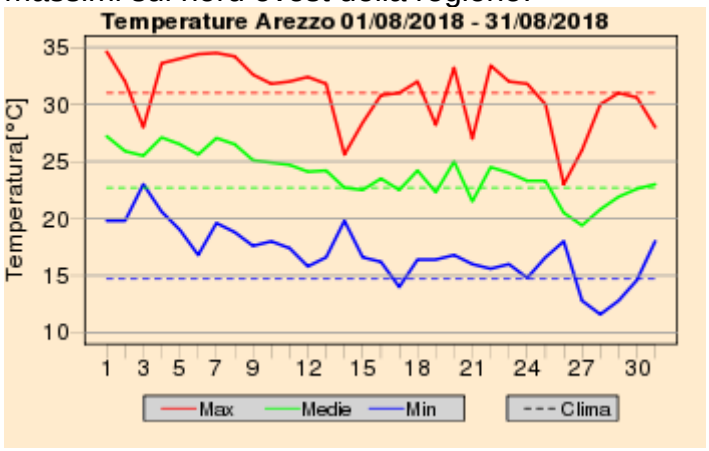


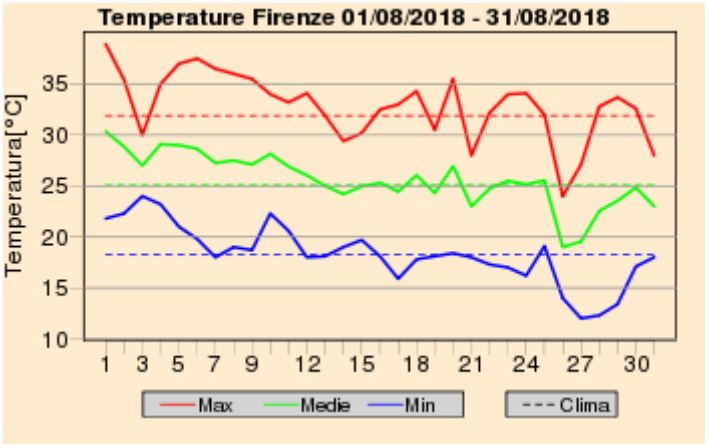
Anomalia di giorni di pioggia mensili con tipo di circolazione 8

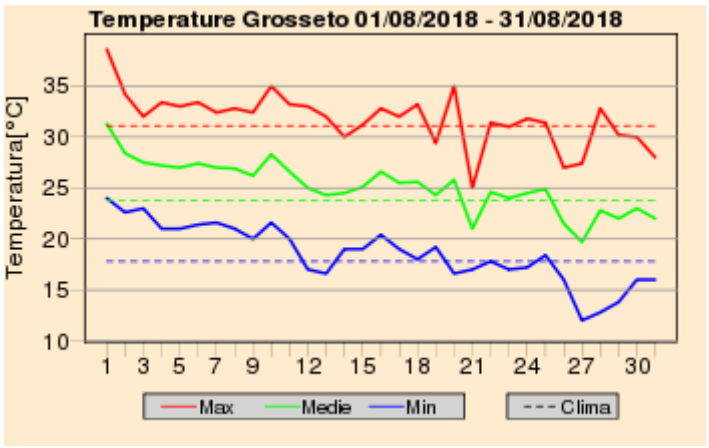
Grafici mensili: Temperature

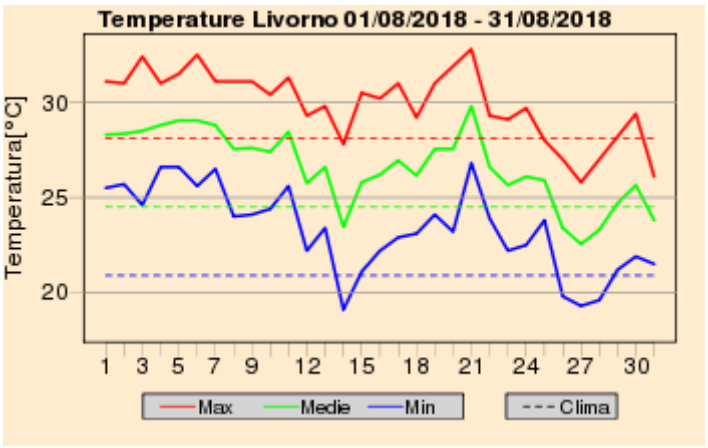
Dal punto di vista termico il mese di Agosto è risultato leggermente più caldo rispetto alla media climatologica 1981-2010; fino a metà mese le temperature minime e massime si sono infatti mantenute quasi sempre su valori superiori a quelli di riferimento, per poi calare nella seconda parte del mese allineandosi con le medi.

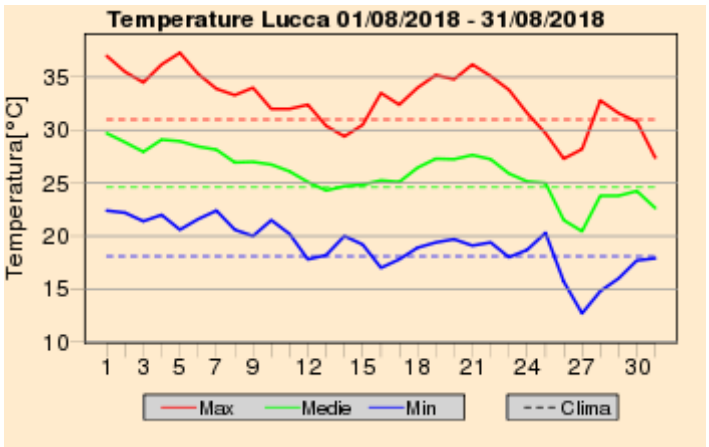
Le anomalie positive più marcate (oltre 2 gradi) si sono registrate in particolare pe i valori massimi sul nord ovest della regione.

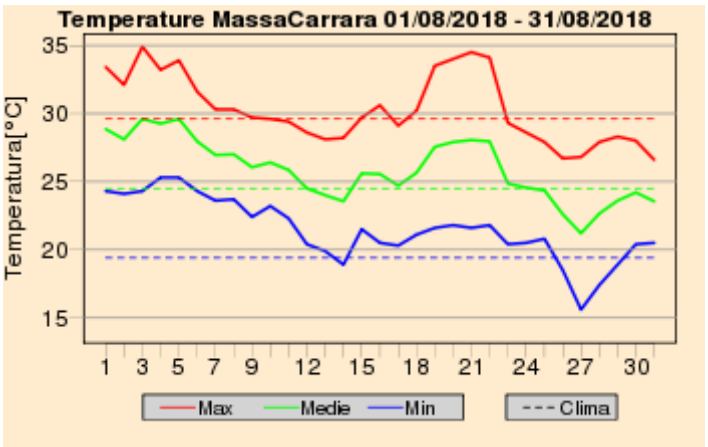


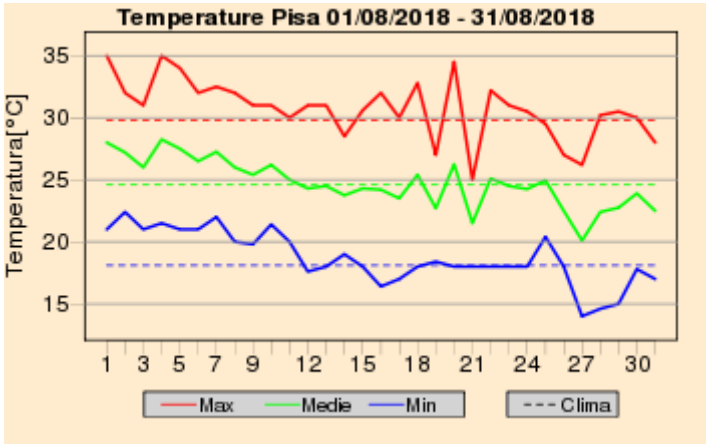


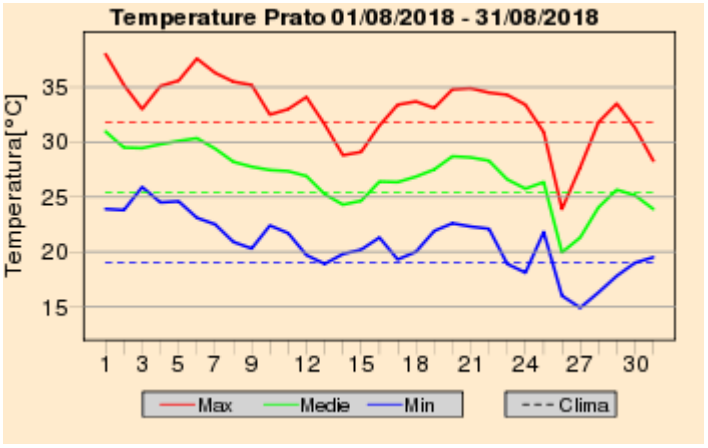


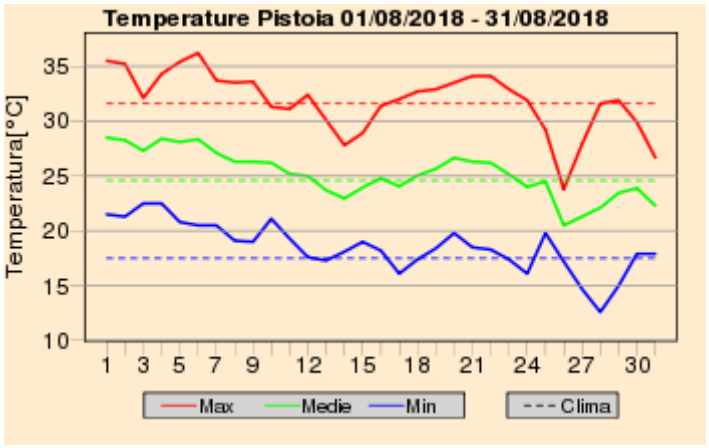


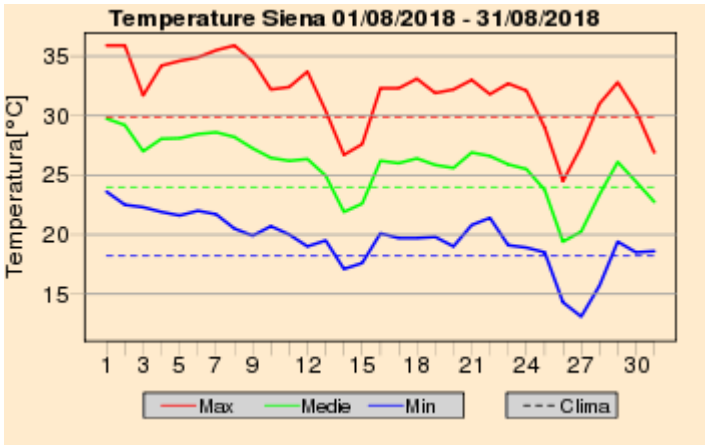




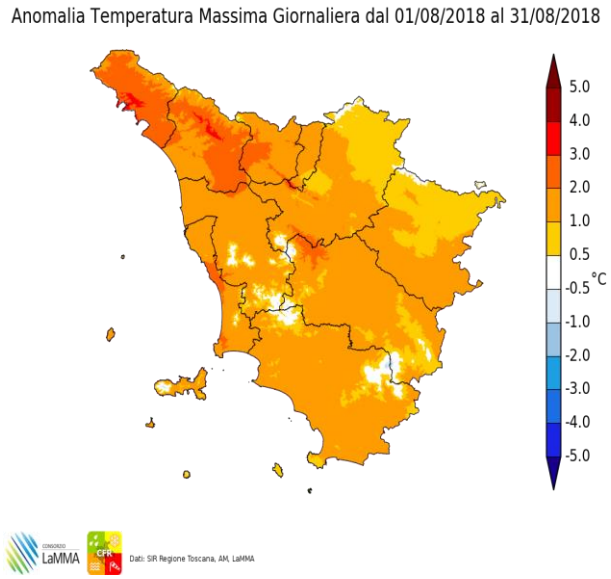


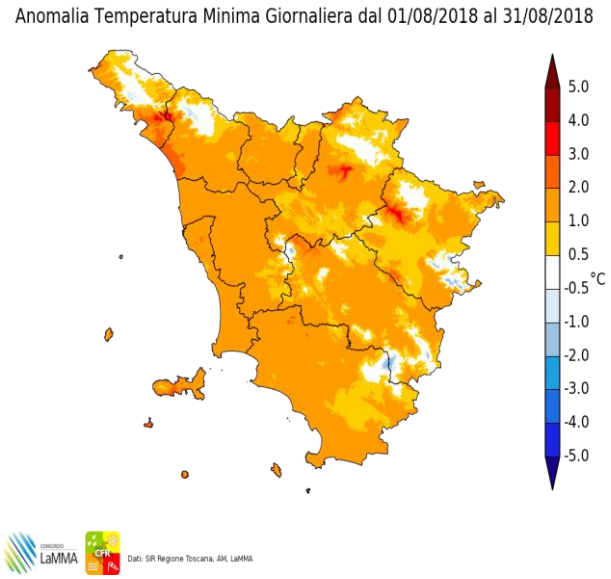






Quadro regionale – Anomalie termiche



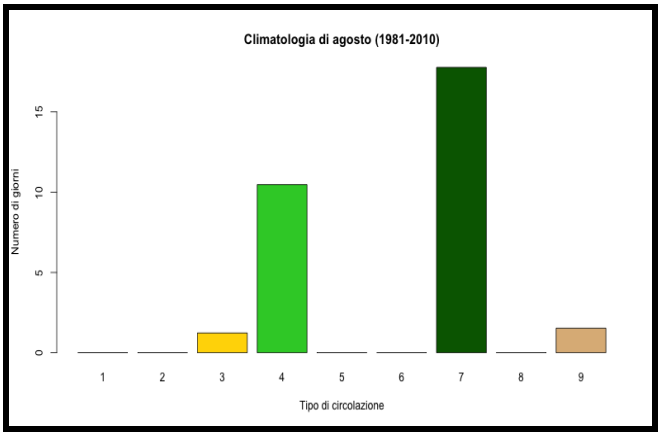


Anomalia termica mensile per le temperature massime e minime giornaliere

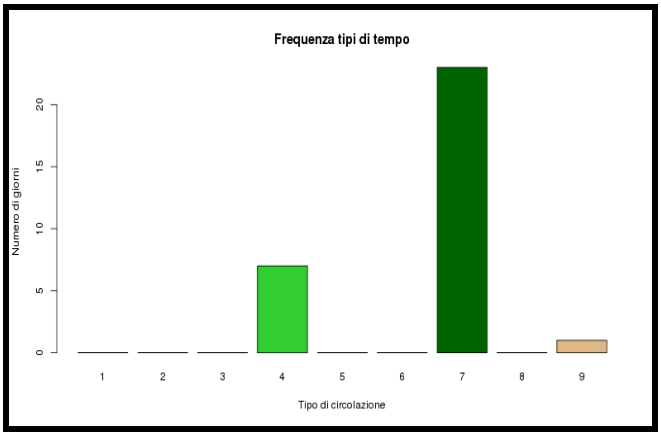
Quadro regionale – tipi di circolazione prevalenti nel mese di Agosto e impatto sulle temperature

Per approfondimento sulle analisi dei tipi di circolazione si rimanda alla pagina web
www.lamma.rete.toscana.it/clima-e-energia/climatologia/tipi-di-circolazione-eobs

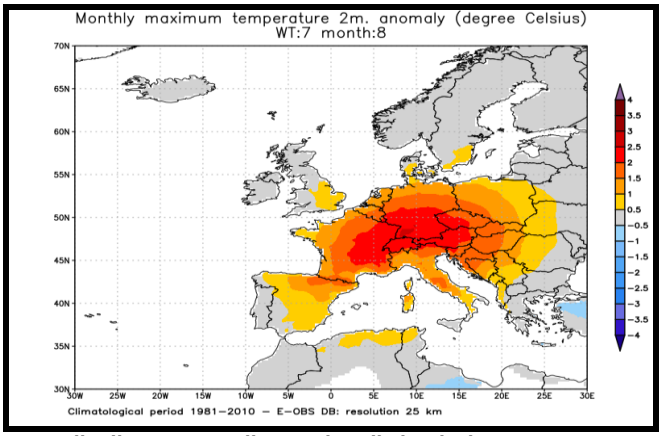
I tipi di circolazione prevalenti nel corso del mese di Agosto 2018 secondo il metodo di classificazione SAN (Simulated Annealing) sono risultati la numero 7 (***promontorio nord africano con afflusso di aria calda da Sud***) presente ben 23 giorni su 31, e la numero 4 (***promontorio con flusso di matrice atlantica)*** presente in 6 giorni su 31.
La 7 e la 4 sono i tipi di circolazione normalmente dominanti nel mese di Agosto: mentre la prima, più frequente a inizio mese, favorisce temperature superiori alle medie su gran parte del continente e anche sulla penisola italiana, la seconda più presente nella seconda parte del mese, porta sull'Europa e sull'Italia aria di origine atlantica più fresca e quindi favorisce temperature in linea o inferiori alle medie.



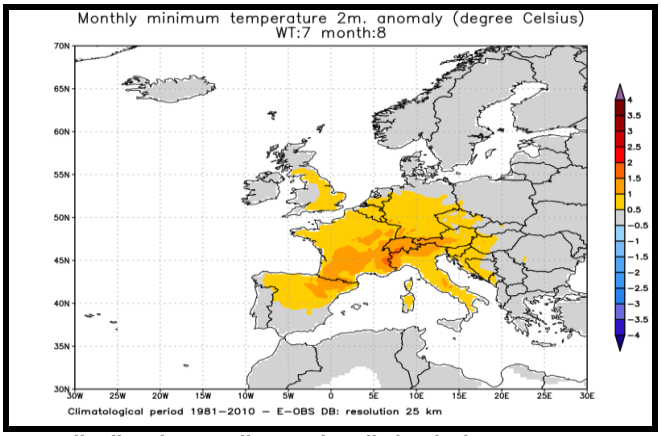
Frequenza media dei tipi di circolazione SAN in Toscana a Agosto



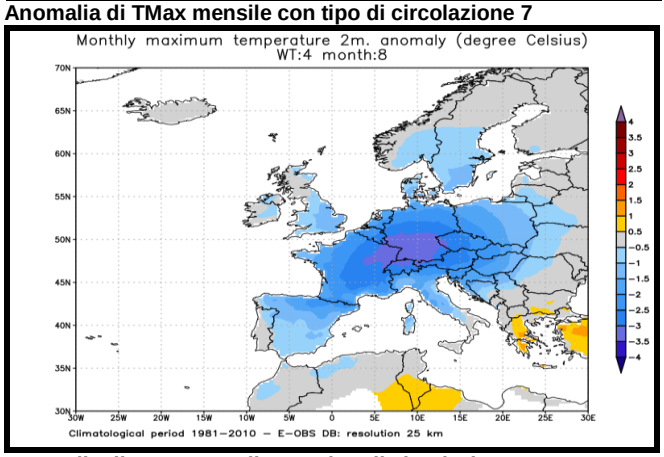
Frequenza tipi di circolazione SAN in Toscana nel Agosto 2018



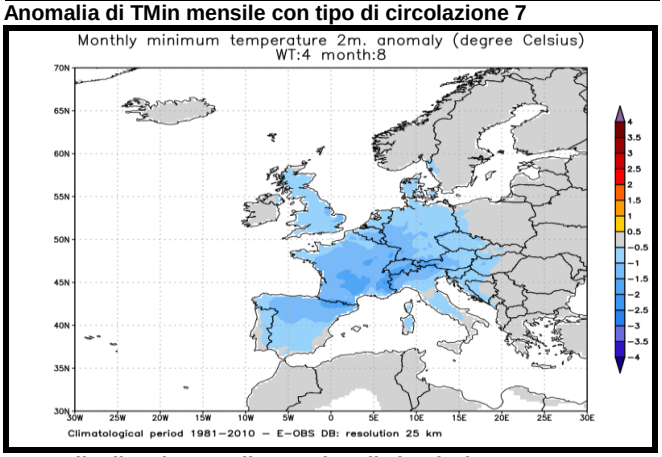
Anomalia di TMax mensile con tipo di circolazione 7



Anomalia di TMin mensile con tipo di circolazione 7



Anomalia di TMax mensile con tipo di circolazione 4



Anomalia di TMin mensile con tipo di circolazione 4

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