CONSORZIO LaMMA

meteo

REPORT METEOROLOGICO

Settembre 2018

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

Consorzio LaMMA - Laboratorio di Monitoraggio e Modellistica Ambientale

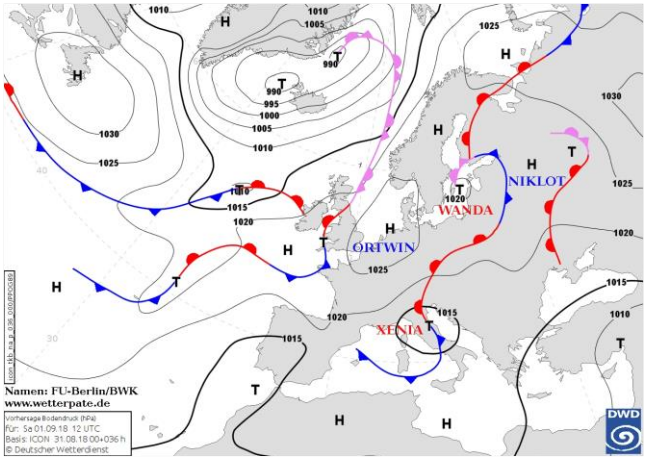
CONSORZIO LaMMA

Regione Toscana

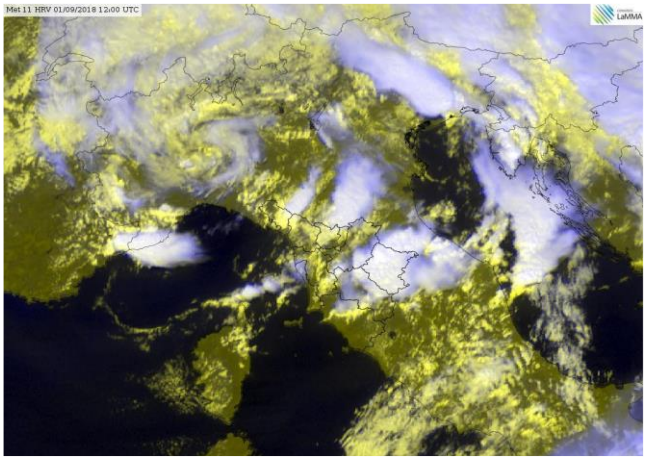
Consiglio Nazionale delle Ricerche

Sabato 1 Settembre 2018

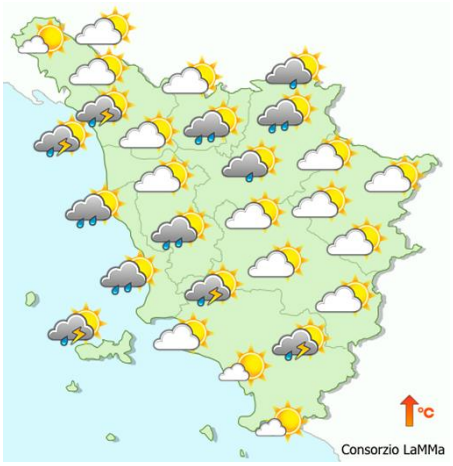
Situazione: aria fredda ed associata ad elevata vorticità alla media troposfera proveniente dal nord Europa, si porta sul Mediterraneo centrale favorendo condizioni di marcata instabilità sulla nostra penisola durante il fine settimana.



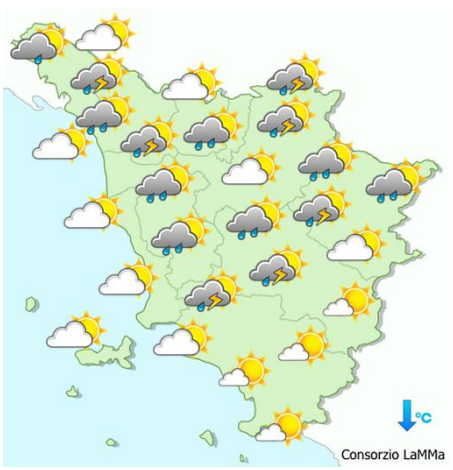
Pressione al suolo e fronti del 01 Settembre alle 12 UTC


Meteosat HRV del 01 Settembre alle 12 UTC

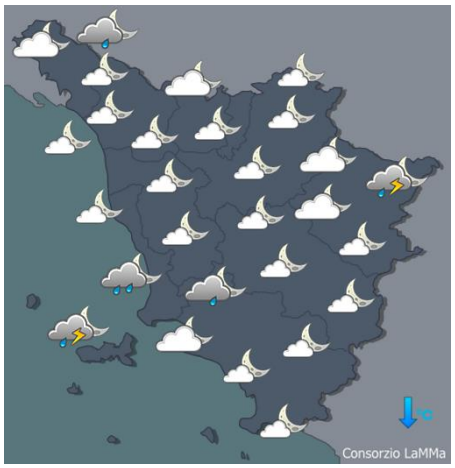
situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: nuvolosità irregolare a tratti intensa.

Fenomeni: rovesci e temporali sparsi anche intensi ed associati a grandine e colpi di vento. Massimi puntuali fino a circa 70 mm in lucchesia.

Venti: deboli variabili nelle zone interne, di Maestrale fino a moderati sulla costa e in Arcipelago.

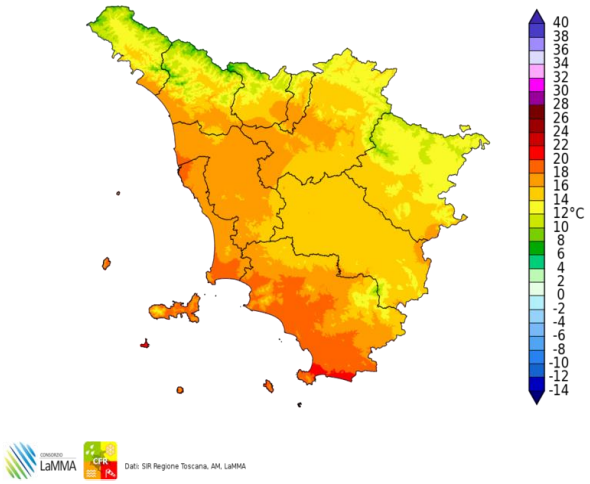
Mari: mossi.

Temperature: in calo.

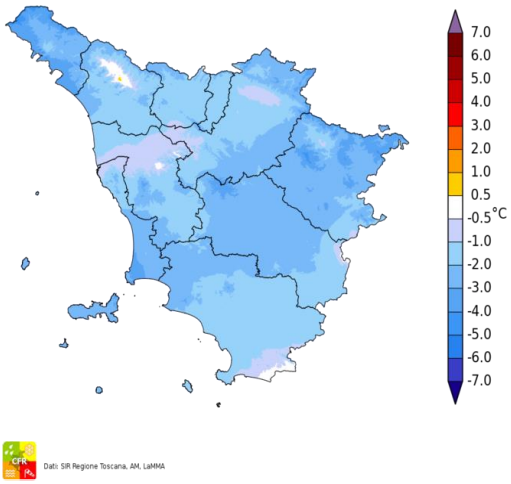
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	17	20	20	21	16	17	20	15	18	16
	anomalia*	5	4	4	2	0	0	4	0	1	0
T. max	osservata	27	21	20	27	24	27	21	23	27	25
	anomalia*	0	-7	-8	1	-4	0	-6	-5	-2	-1
Precipitazione (mm/24ore)		N.D.	2	0	2	87	28	N.D.	27	7	16

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

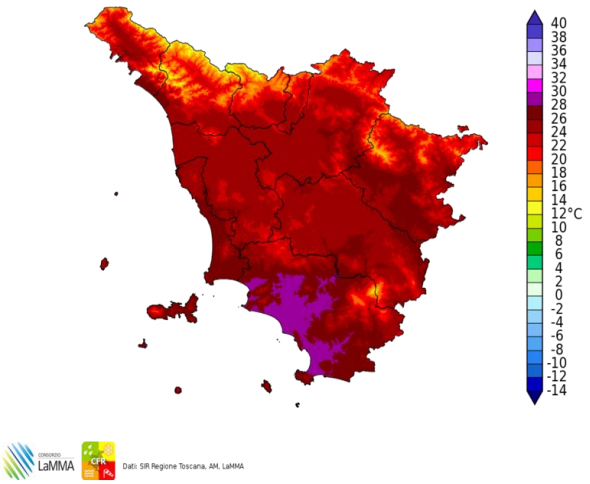
Temperatura Minima del 01/09/2018



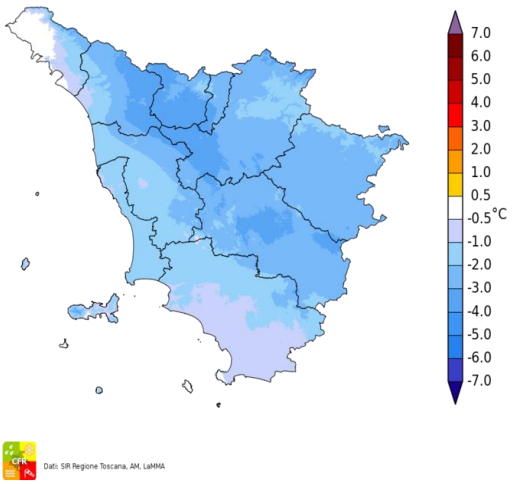
Differenza della Temperatura Minima tra 01/09/2018 e 31/08/2018



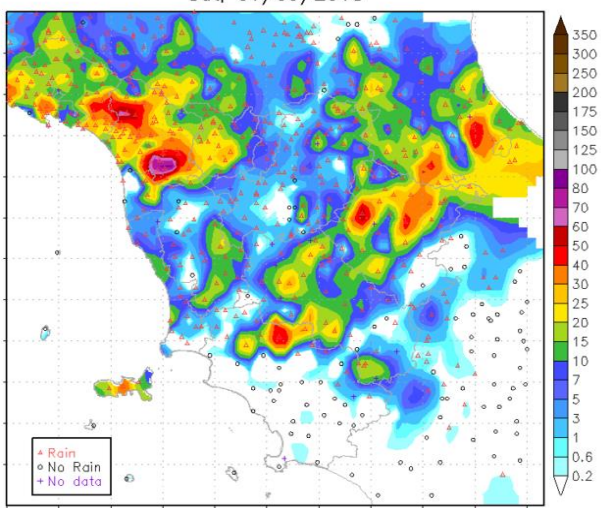
Temperatura Massima del 01/09/2018



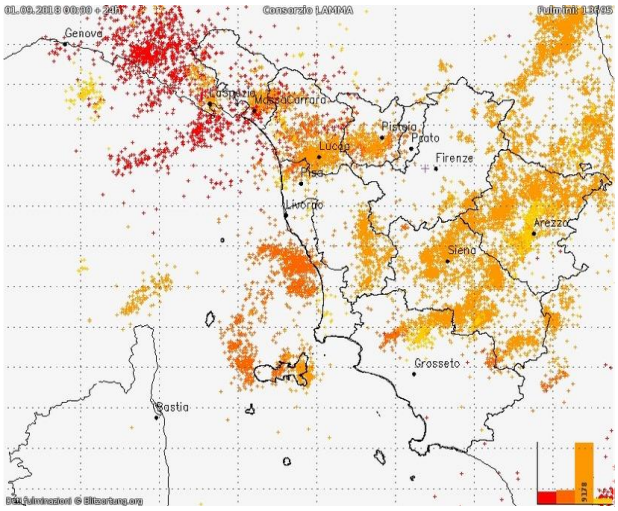
Differenza della Temperatura Massima tra 01/09/2018 e 31/08/2018



Total Precipitation [mm] cumulated on Sat, 01/09/2018

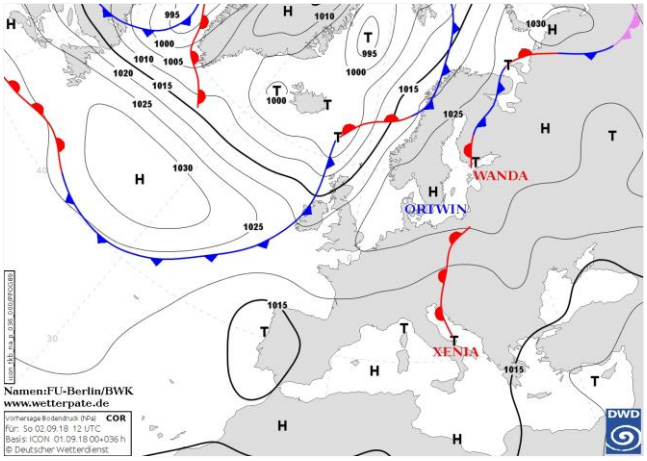


Fulminazioni osservate il giorno 01 Settembre

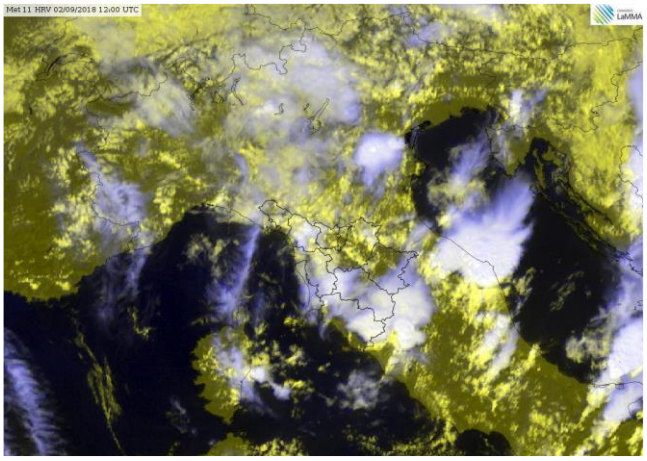


Domenica 2 Settembre 2018

Situazione: un'ampia area di bassa pressione in quota insiste sull'Italia centro-settentrionale.

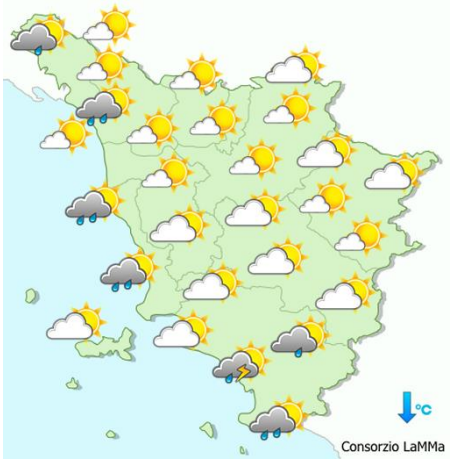


Pressione al suolo e fronti del 02 Settembre alle 12 UTC

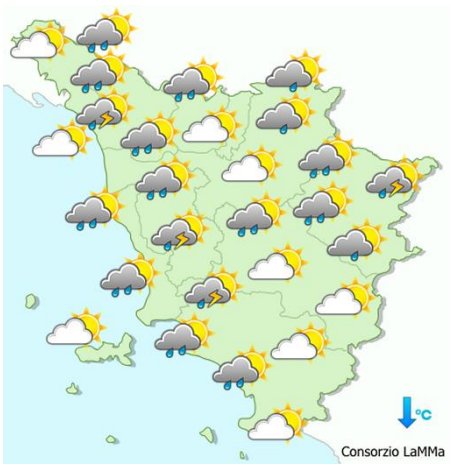


Meteosat HRV del 02 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: nuvolosità variabile con alternanza di consistenti annuvolamenti, in particolare lungo il litorale in mattinata e sulle zone interne nel pomeriggio, e temporanei rasserenamenti.

Fenomeni: rovesci e temporali a carattere sparso, più frequenti al mattino in Maremma, nel pomeriggio sulle zone interne e in Appennino.

Venti: variabili a rotazione ciclonica.

Mari: mossi, tendenti a poco mossi.

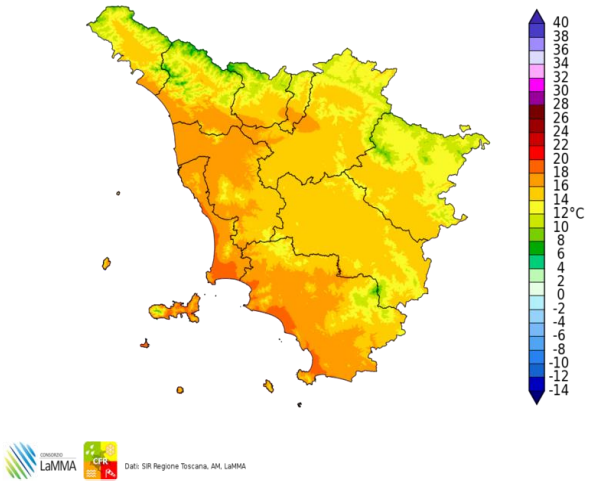
Temperature: stazionarie.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	14	15	15	N.D.	15	17	16	15	19	16
	anomalia*	2	0	0	N.D.	0	0	0	0	2	0
T. max	osservata	24	27	25	N.D.	26	25	24	26	28	25
	anomalia*	-3	-1	-3	N.D.	-2	-3	-3	-2	0	-1
Precipitazione (mm/24ore)		3	0	N.D.	N.D.	N.D.	N.D.	0	N.D.	N.D.	N.D.

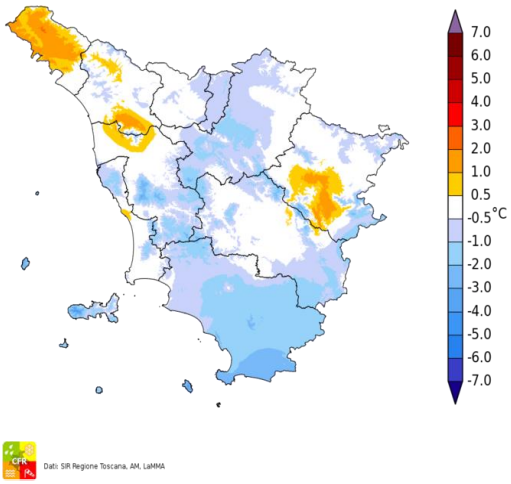
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

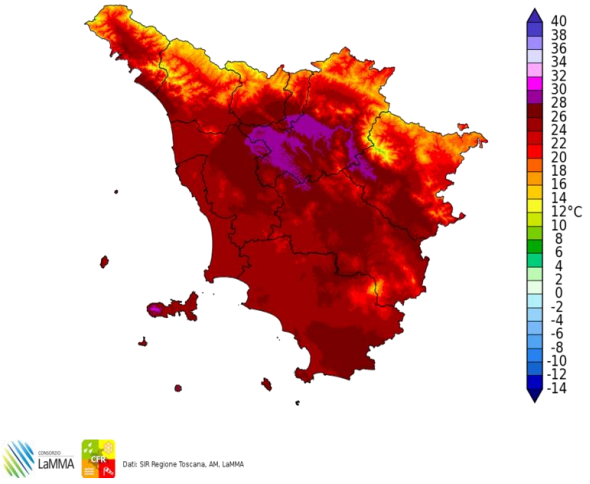
Temperatura Minima del 02/09/2018



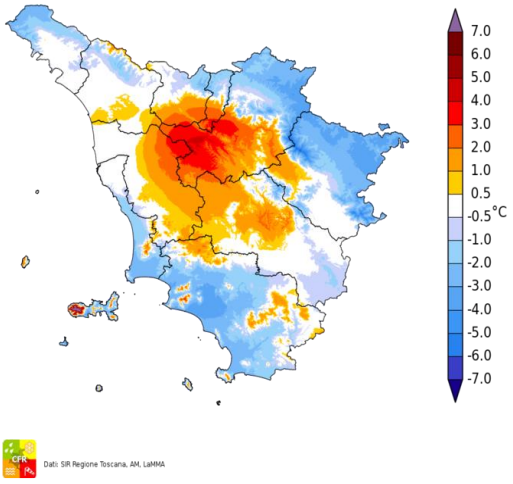
Differenza della Temperatura Minima tra 02/09/2018 e 01/09/2018



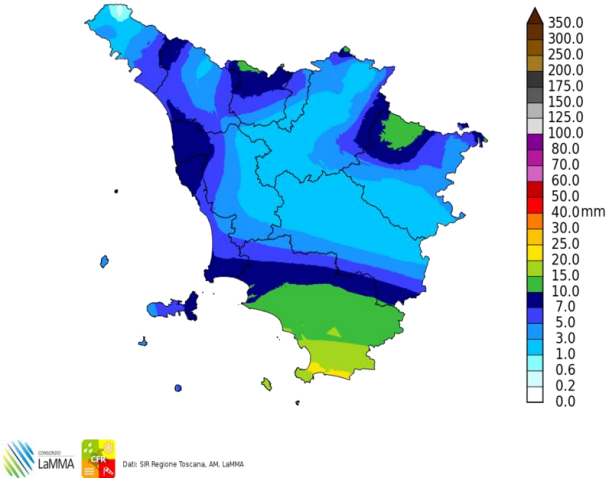
Temperatura Massima del 02/09/2018



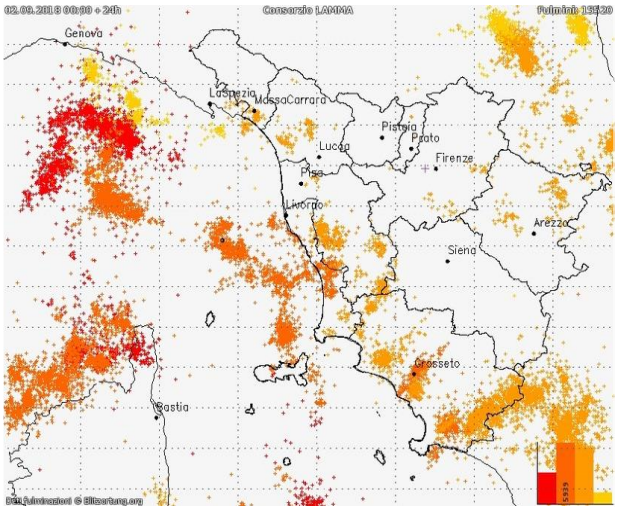
Differenza della Temperatura Massima tra 02/09/2018 e 01/09/2018



Precipitazione del 02/09/2018

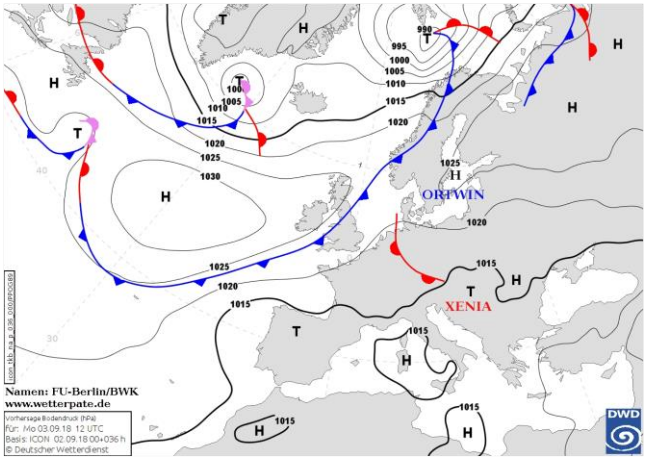


Fulminazioni osservate il giorno 02 Settembre

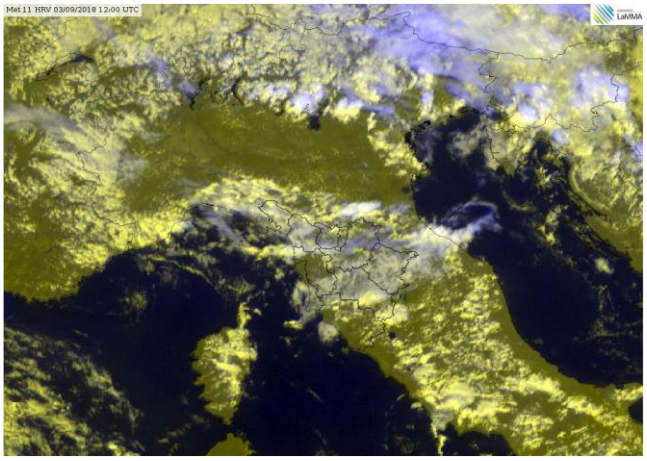


Lunedi' 3 Settembre 2018

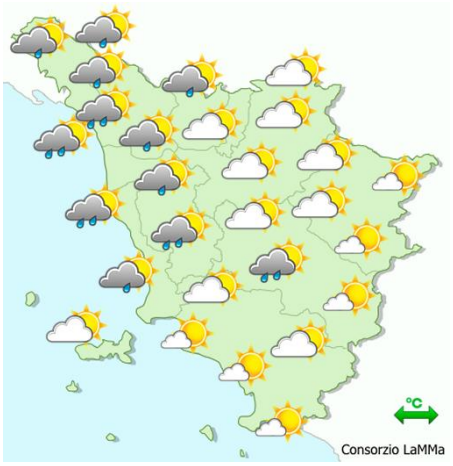
Situazione: instabile per la presenza di aria fresca in quota.



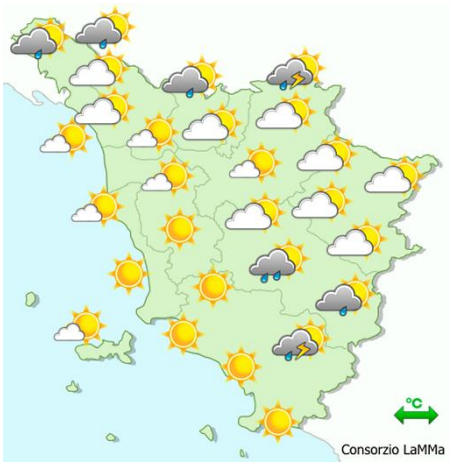
Pressione al suolo e fronti del 03 Settembre alle 12 UTC


Meteosat HRV del 03 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: nuvoloso con schiarite.

Fenomeni: rovesci in mattinata e in serata sulla costa.

Venti: deboli occidentali.

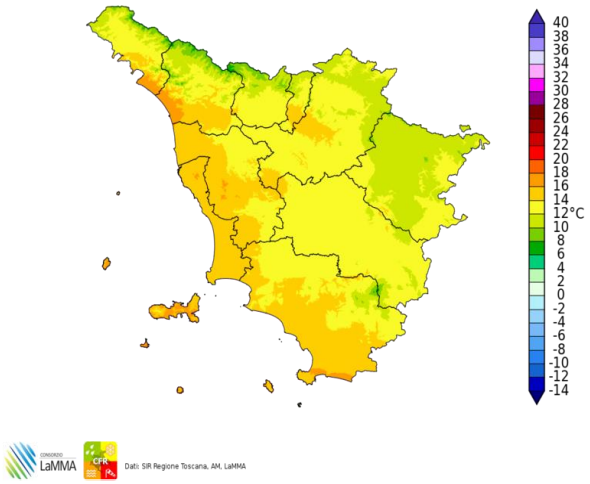
Mari: poco mossi.

Temperature: in leggero calo.

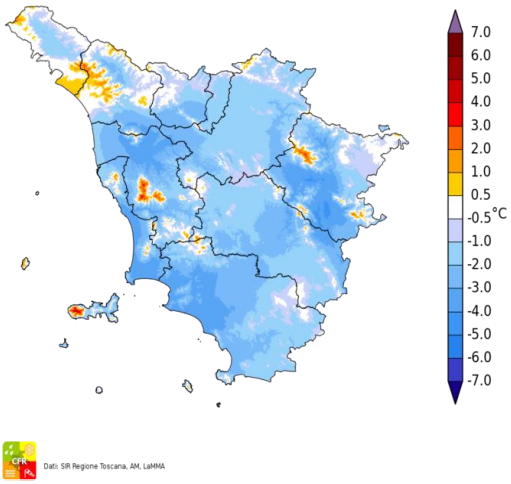
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	N.D.	N.D.	N.D.	18	15	18	N.D.	14	15	14
	anomalia*	N.D.	N.D.	N.D.	0	-1	1	N.D.	-1	-1	-1
T. max	osservata	N.D.	N.D.	N.D.	25	25	24	N.D.	24	26	26
	anomalia*	N.D.	N.D.	N.D.	-1	-3	-3	N.D.	-4	-2	0
Precipitazione (mm/24ore)		N.D.	0	0	6	1	5	N.D.	0	0	0

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

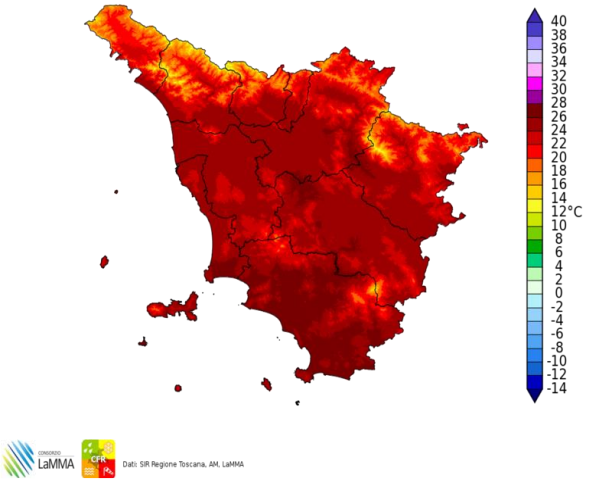
Temperatura Minima del 03/09/2018



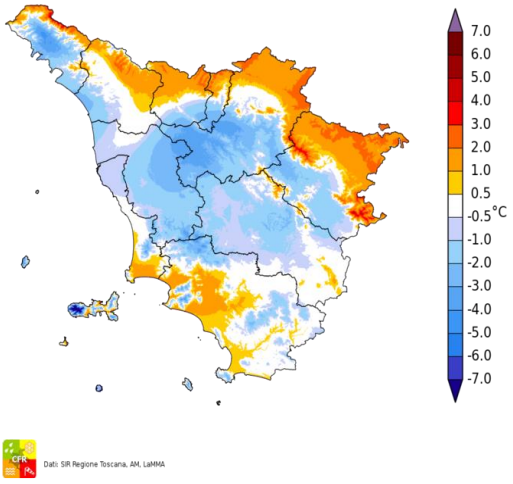
Differenza della Temperatura Minima tra 03/09/2018 e 02/09/2018



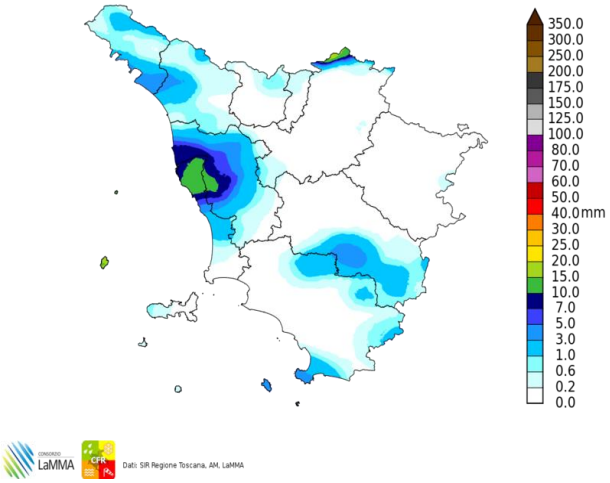
Temperatura Massima del 03/09/2018



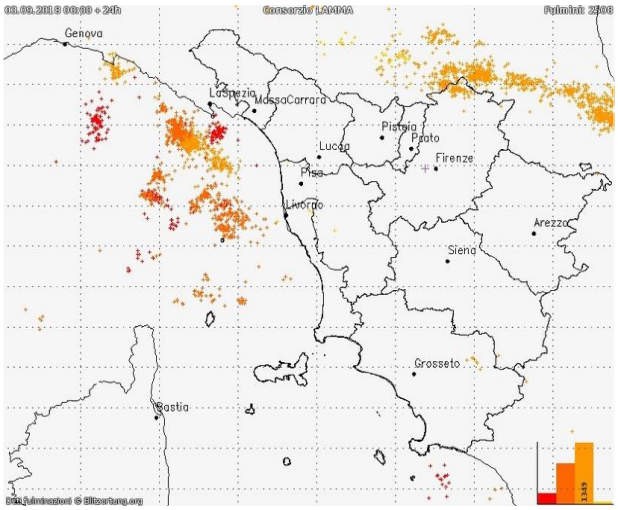
Differenza della Temperatura Massima tra 03/09/2018 e 02/09/2018



Precipitazione del 03/09/2018

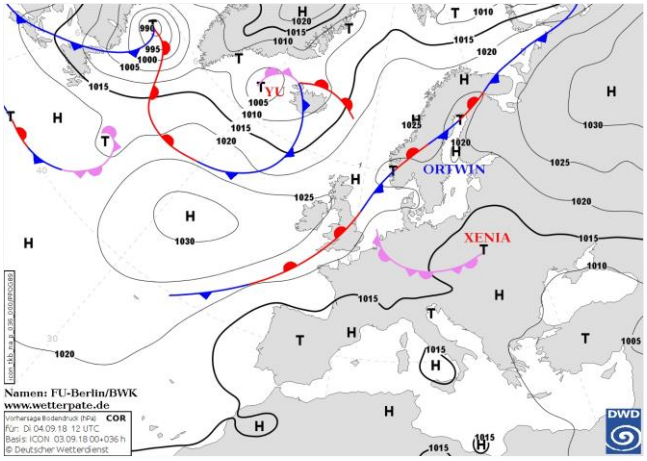


Fulminazioni osservate il giorno 03 Settembre

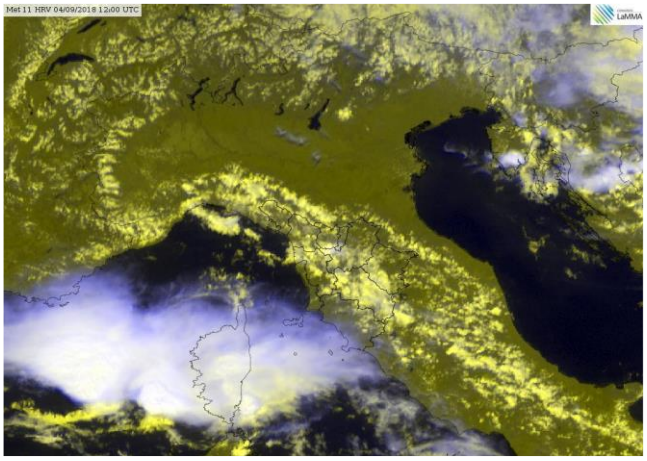


Martedi' 4 Settembre 2018

Situazione: una debole perturbazione in quota determina locale instabilità pomeridiana sulla Toscana.



Pressione al suolo e fronti del 04 Settembre alle 12 UTC

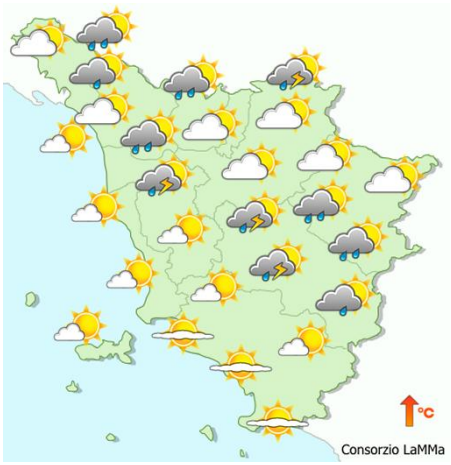


Meteosat HRV del 04 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: parzialmente nuvoloso a tratti nuvoloso.

Fenomeni: rovesci o brevi temporali pomeridiani sulle zone centrali.

Venti: deboli occidentali con locali rinforzi lungo la costa.

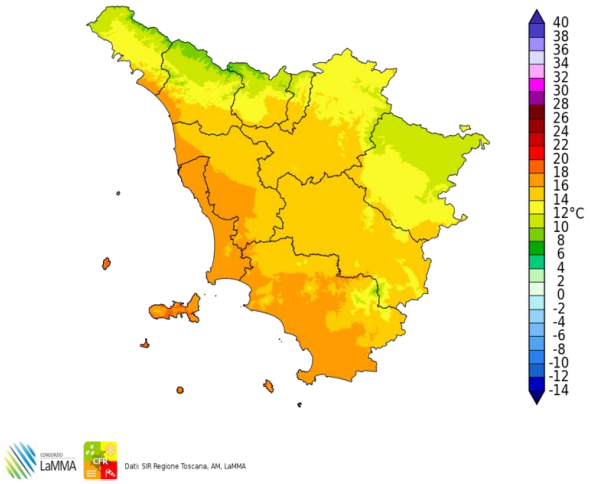
Mari: poco mossi, localmente mossi a nord dell'Elba.

Temperature: in leggero aumento.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	15	15	16	19	14	16	15	14	17	16
	anomalia*	2	-1	0	0	-1	0	-1	-1	0	0
T. max	osservata	25	29	28	27	27	26	27	26	28	24
	anomalia*	-2	0	0	1	-1	-2	0	-2	-1	-2
Precipitazione (mm/24ore)		0	0	0	0	0	0	2	0	0	6

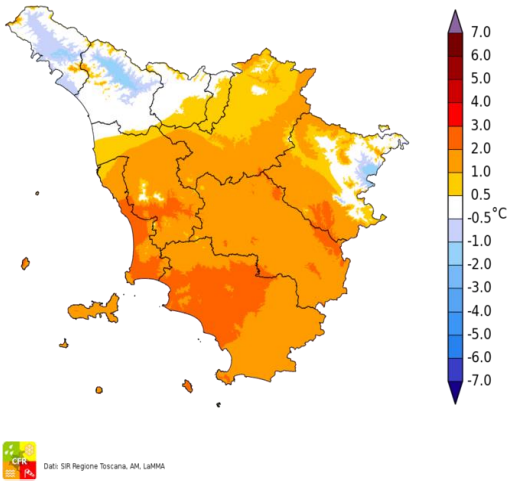
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 04/09/2018



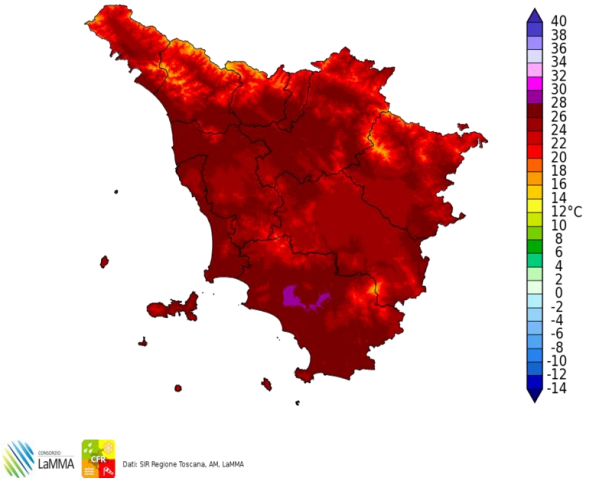
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 04/09/2018 e 03/09/2018



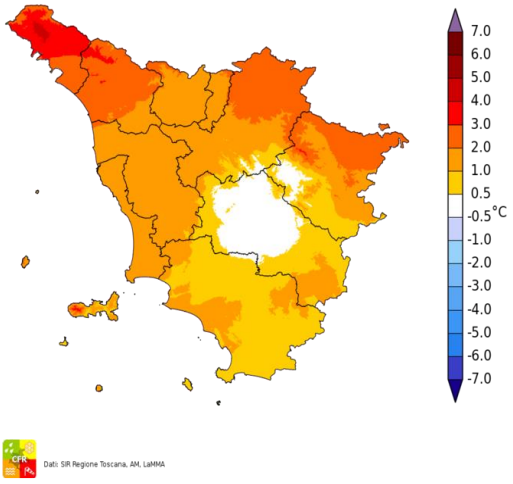
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 04/09/2018



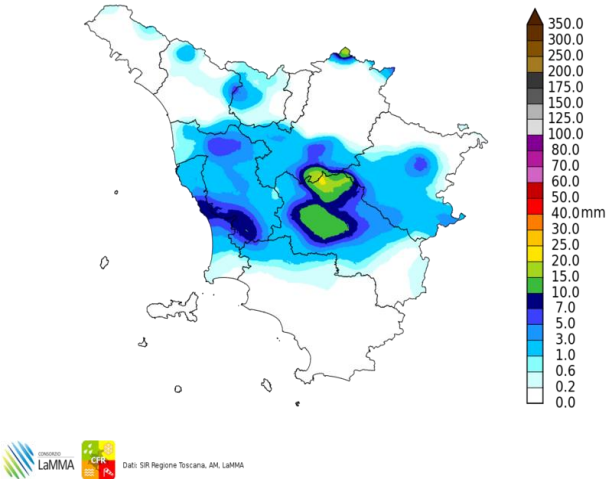
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 04/09/2018 e 03/09/2018



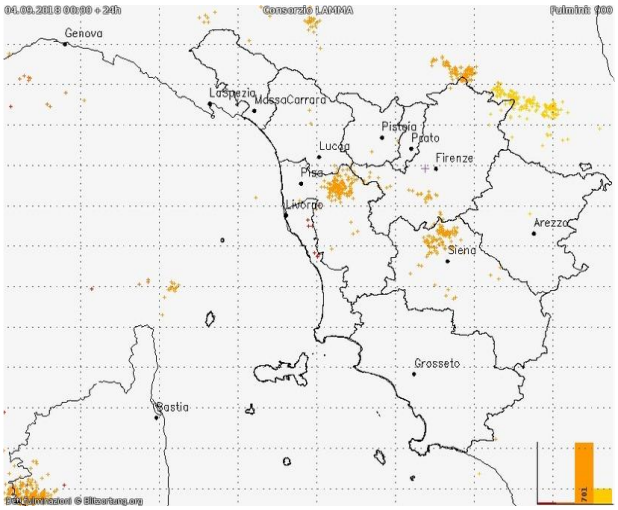
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 04/09/2018



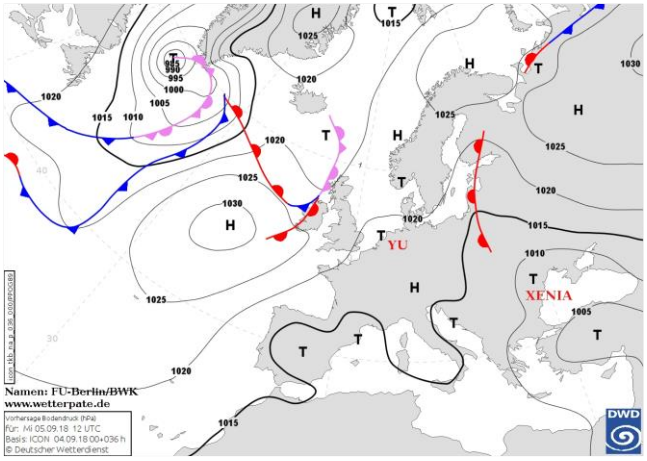
Dati: SIR Regione Toscana, AM, LaMMA

Fulminazioni osservate il giorno 04 Settembre

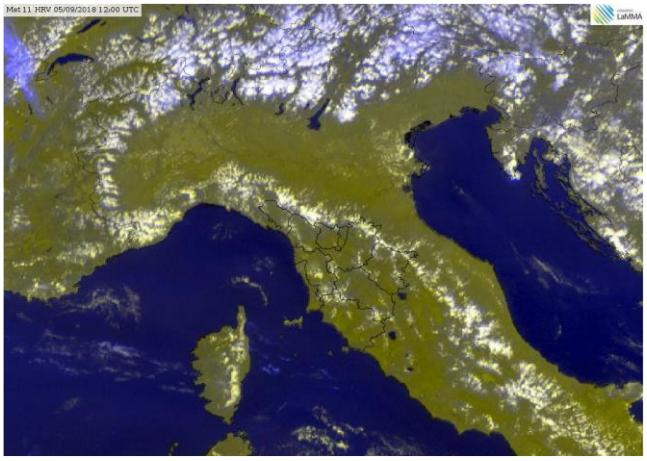


Mercoledi' 5 Settembre 2018

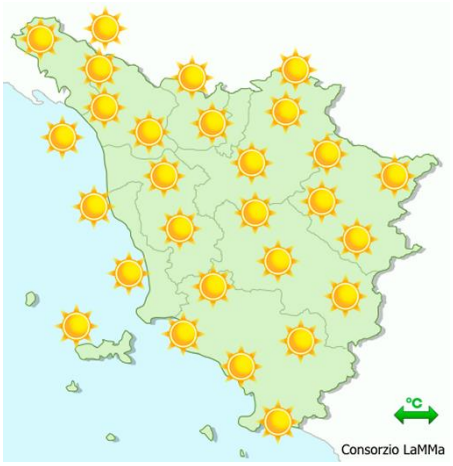
Situazione: prevalenti condizioni di stabilità atmosferica per la presenza di un campo di alta pressione.



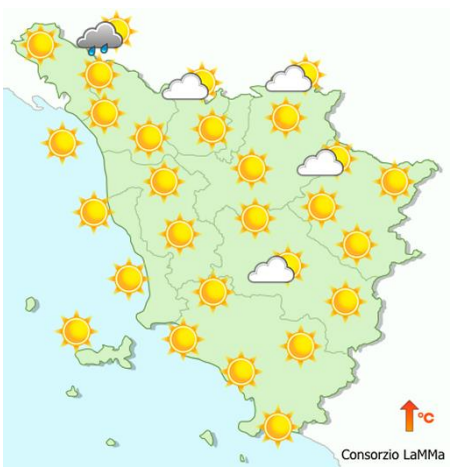
Pressione al suolo e fronti del 05 Settembre alle 12 UTC


Meteosat HRV del 05 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso con addensamenti pomeridiani in Appennino.

Fenomeni: temporale pomeridiano sull'Appennino settentrionale.

Venti: deboli variabili.

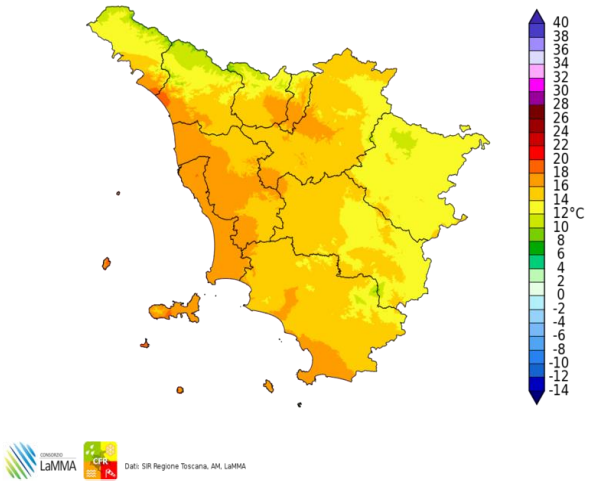
Mari: poco mossi.

Temperature: in aumento più sensibile nelle massime.

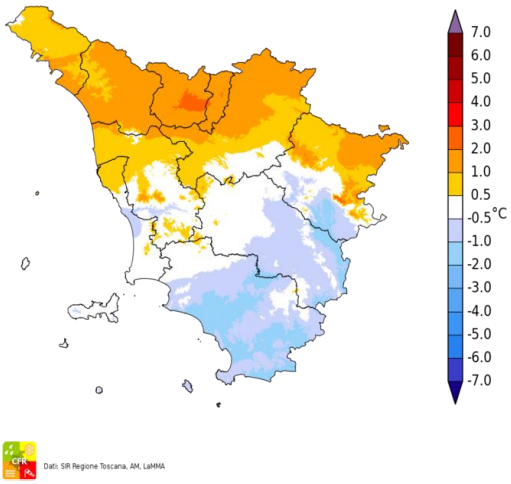
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	14	16	15	20	16	18	16	16	18	15
	anomalia*	2	0	0	1	0	1	0	2	2	-1
T. max	osservata	14	19	18	26	29	26	18	29	30	29
	anomalia*	-13	-9	-10	0	1	-2	-9	0	2	2
Precipitazione (mm/24ore)		N.D.	0	0	0	0	0	N.D.	0	0	0

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

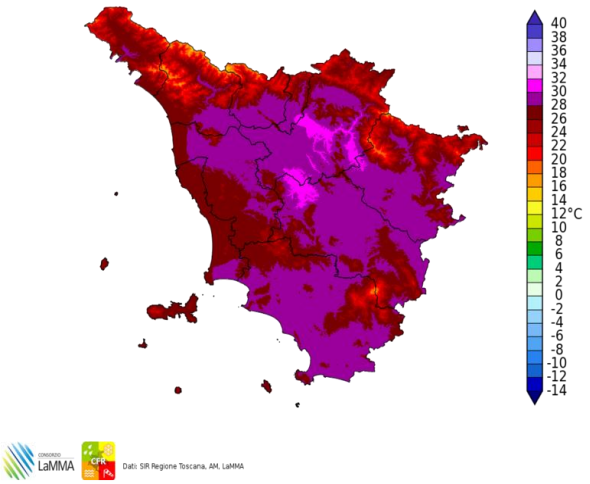
Temperatura Minima del 05/09/2018



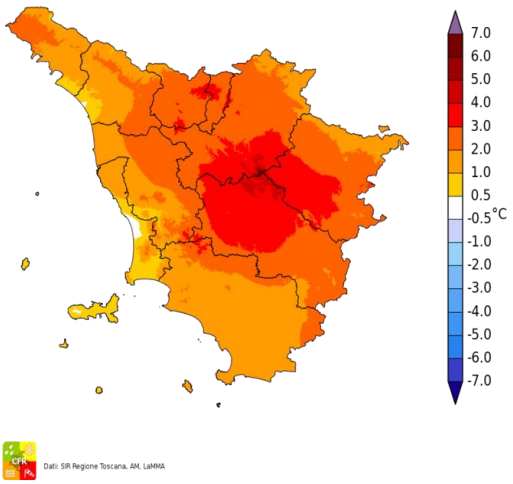
Differenza della Temperatura Minima tra 05/09/2018 e 04/09/2018



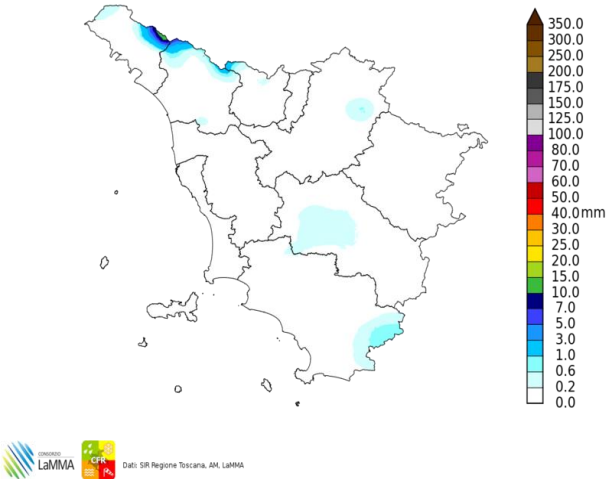
Temperatura Massima del 05/09/2018



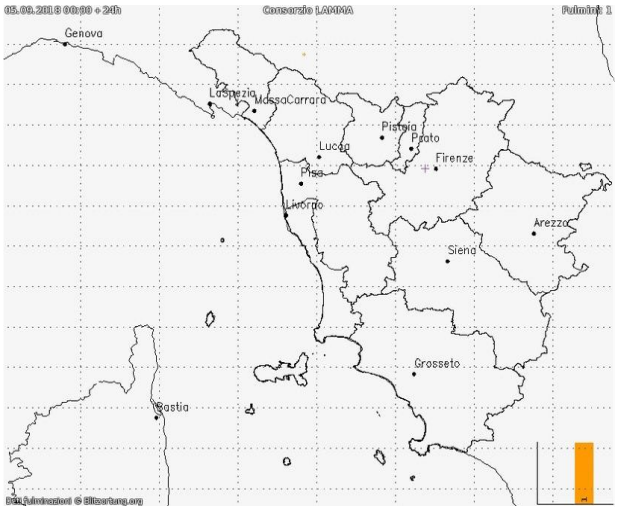
Differenza della Temperatura Massima tra 05/09/2018 e 04/09/2018



Precipitazione del 05/09/2018

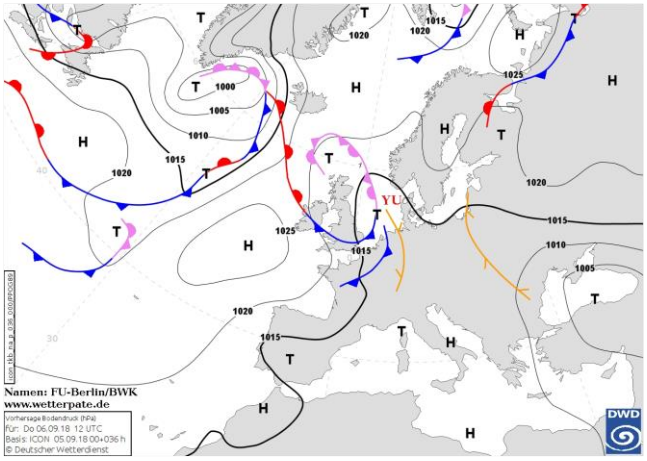


Fulminazioni osservate il giorno 05 Settembre

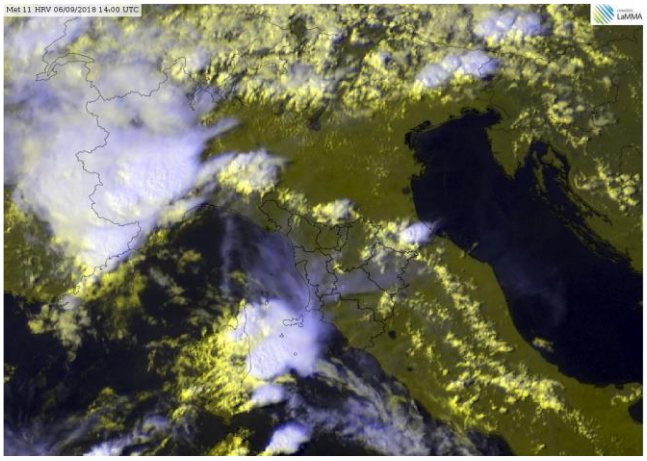


Giovedi' 6 Settembre 2018

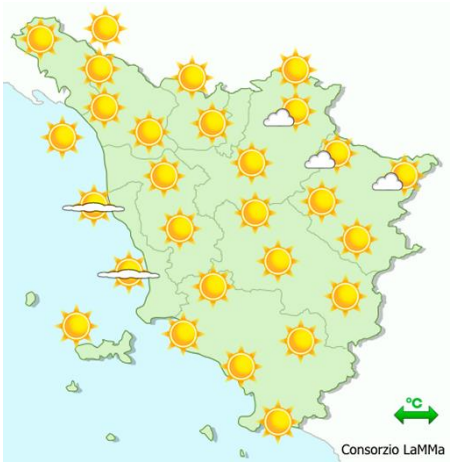
Situazione: il transito di una perturbazione in quota determina un marcato aumento dell'instabilità a dal pomeriggio-sera dalle coste tirreniche verso le zone interne.



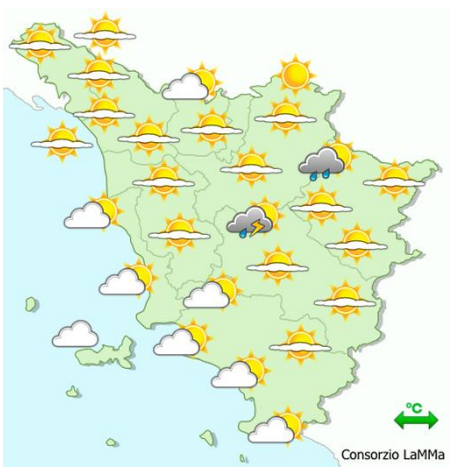
Pressione al suolo e fronti del 06 Settembre alle 12 UTC


Meteosat HRV del 06 Settembre alle 14 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: inizialmente sereno o poco nuvoloso con aumento della nuvolosità di tipo cumuliforme nel corso del pomeriggio sulle zone appenniniche e localmente anche sull'interno. Ulteriore aumento della nuvolosità dalla sera a partire dalla fascia costiera.

Fenomeni: locali temporali pomeridiani sui crinali appenninici e tra Chianti e Valdarno superiore, in serata anche su Arcipelago e zone costiere. Cumulati inferiori a 20 mm.

Venti: deboli variabili in prevalenza dai quadranti meridionali.

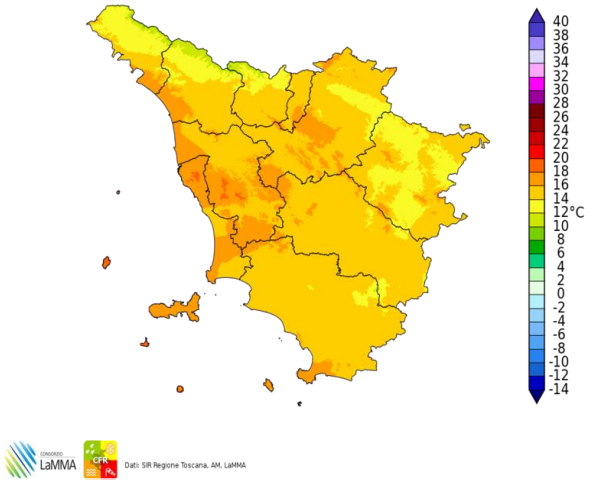
Mari: poco mossi.

Temperature: in lieve aumento.

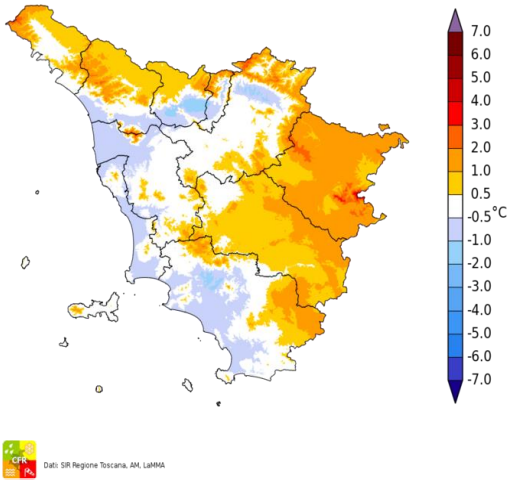
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	N.D.	N.D.	N.D.	19	15	18	N.D.	15	18	17
	anomalia*	N.D.	N.D.	N.D.	1	0	1	N.D.	0	1	2
T. max	osservata	N.D.	N.D.	N.D.	28	30	27	N.D.	29	31	29
	anomalia*	N.D.	N.D.	N.D.	2	2	-1	N.D.	1	3	2
Precipitazione (mm/24ore)		N.D.	0	1	0	0	0	N.D.	0	0	0

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

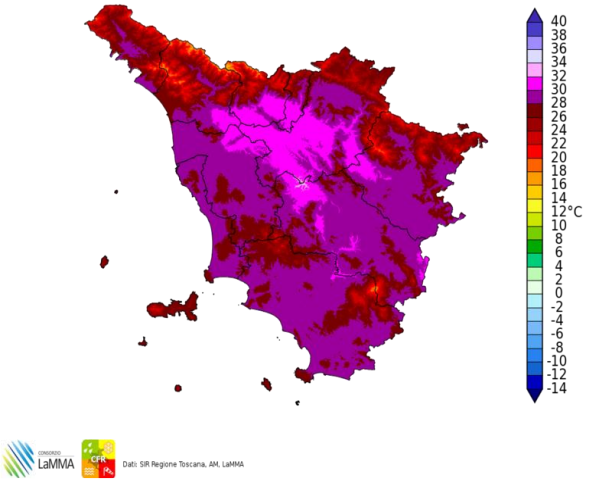
Temperatura Minima del 06/09/2018



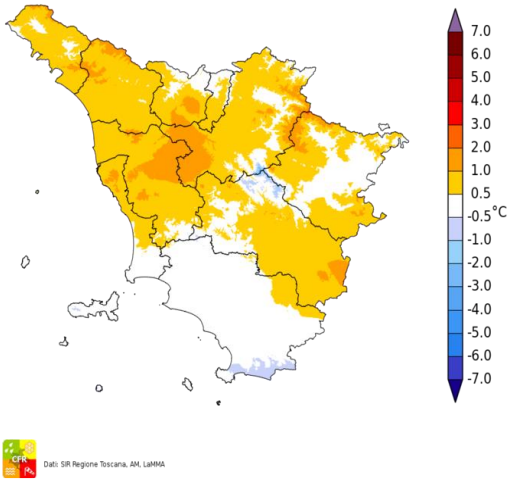
Differenza della Temperatura Minima tra 06/09/2018 e 05/09/2018



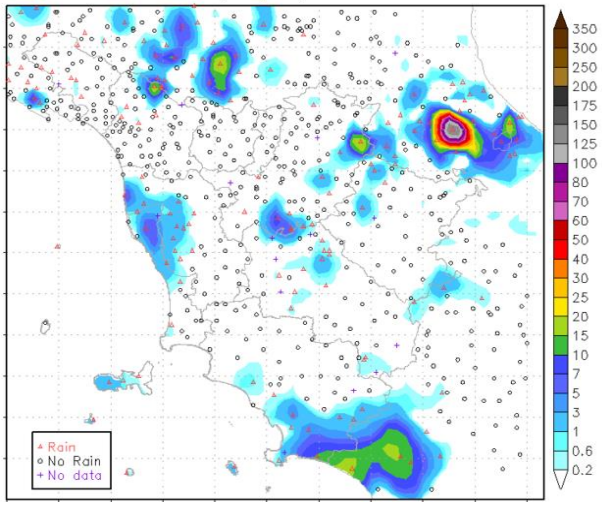
Temperatura Massima del 06/09/2018



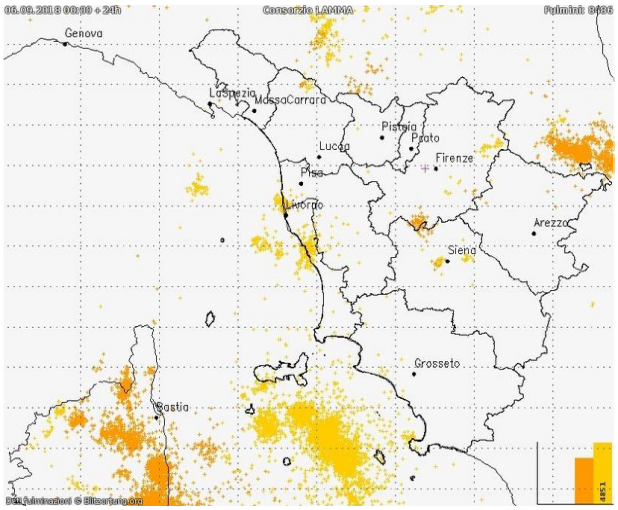
Differenza della Temperatura Massima tra 06/09/2018 e 05/09/2018



Total Precipitation [mm] cumulated on Thu, 06/09/2018

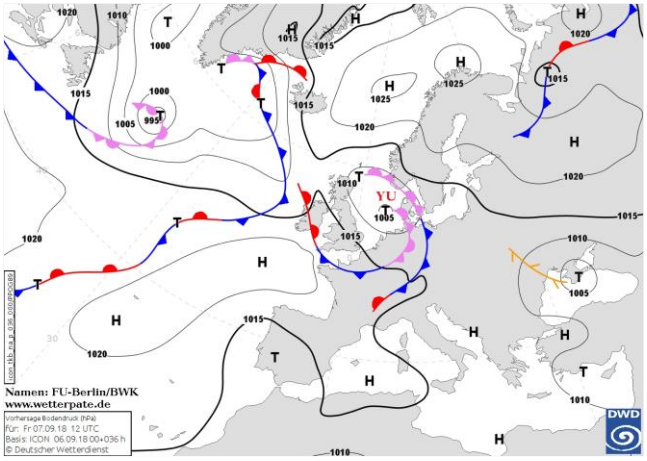


Fulminazioni osservate il giorno 06 Settembre

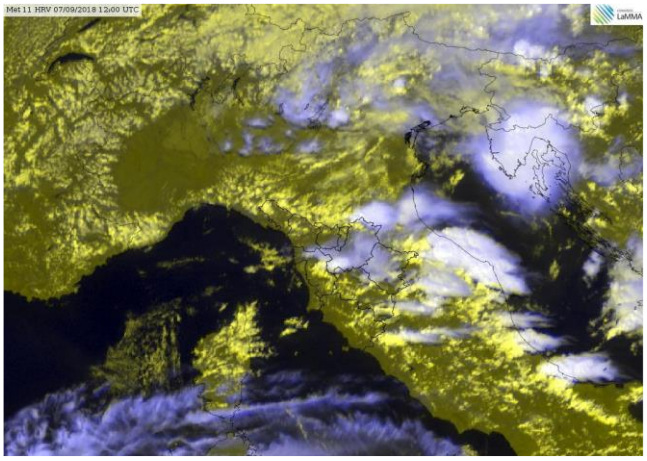


Venerdi' 7 Settembre 2018

Situazione: Pressione livellata intorno a 1012 hPa sul Mediterraneo centrale.

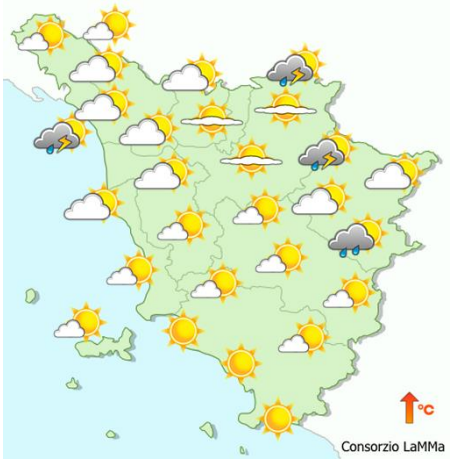


Pressione al suolo e fronti del 07 Settembre alle 12 UTC

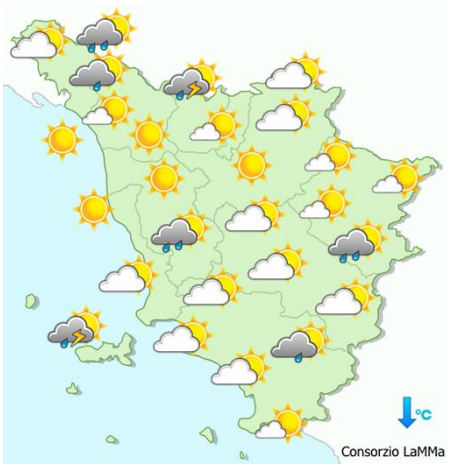


Meteosat HRV del 07 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: nuvolosità variabile.

Fenomeni: brevi rovesci e temporali a carattere diffuso. Temporale pomeridiano a Portoferraio con cumulato di 50-6o mm e intensità oraria di 35 mm.

Venti: deboli occidentali.

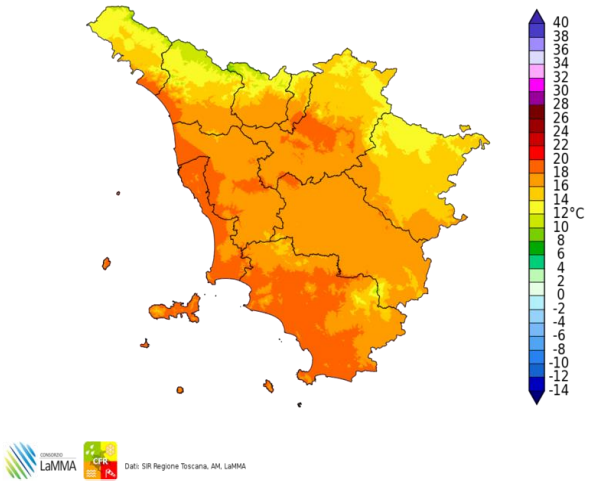
Mari: poco mossi.

Temperature: in aumento le minime in calo le massime.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	16	18	19	22	17	19	18	17	18	18
	anomalia*	4	3	3	4	1	2	2	2	2	2
T. max	osservata	25	28	29	26	28	26	26	27	28	28
	anomalia*	-2	0	1	0	0	-2	-1	-1	0	2
Precipitazione (mm/24ore)		0	0	1	0	0	0	0	0	2	1

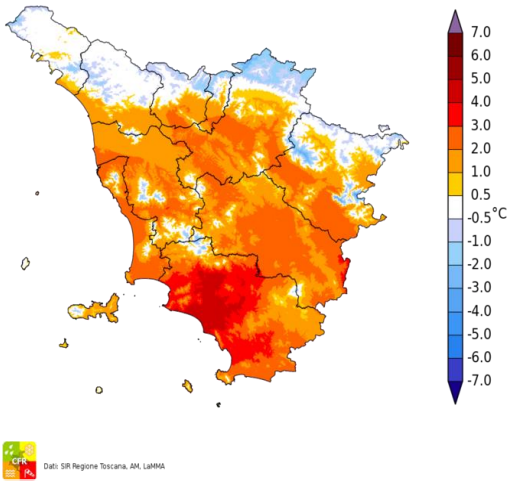
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 07/09/2018



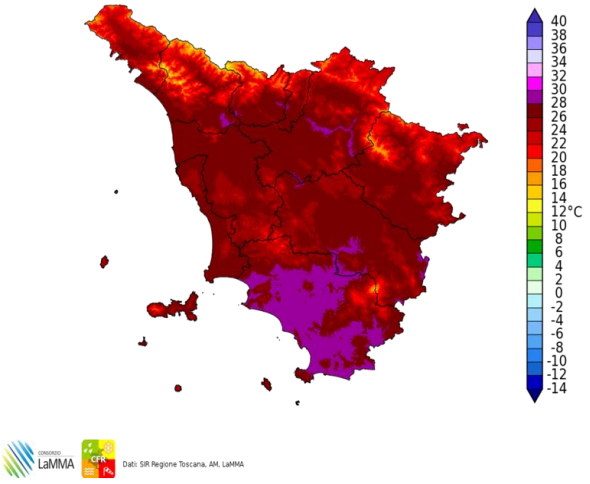
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 07/09/2018 e 06/09/2018



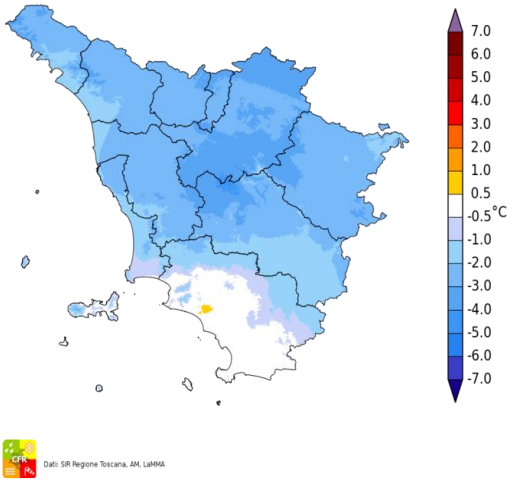
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 07/09/2018



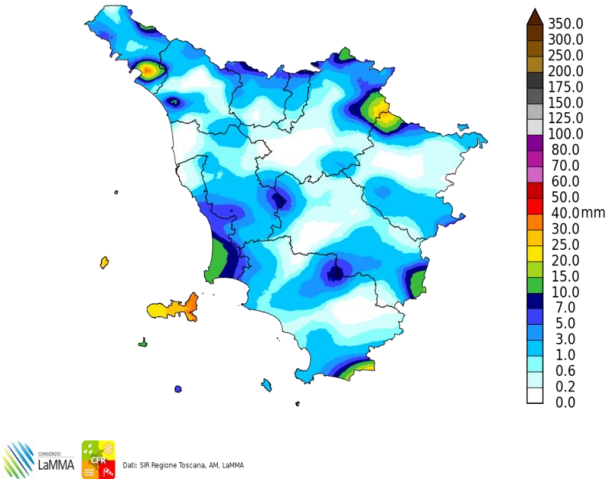
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 07/09/2018 e 06/09/2018



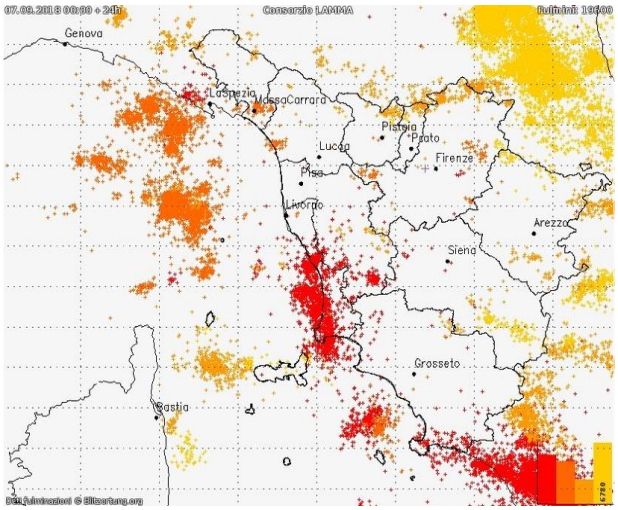
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 07/09/2018



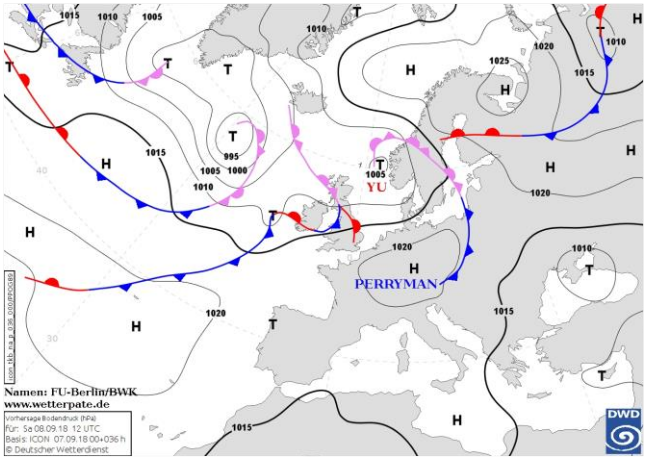
Dati: SIR Regione Toscana, AM, LaMMA

Fulminazioni osservate il giorno 07 Settembre

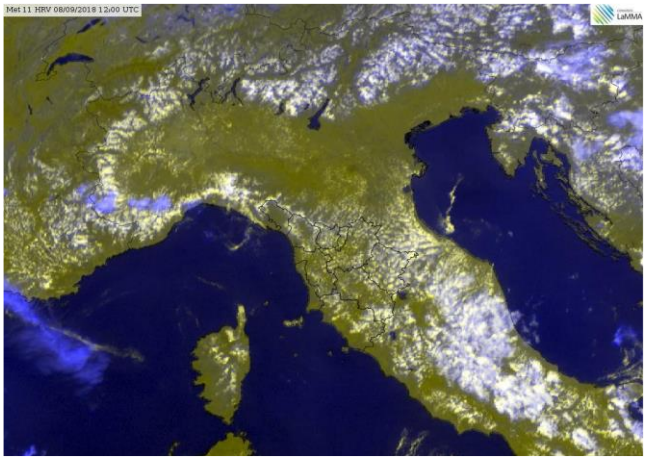


Sabato 8 Settembre 2018

Situazione: alta pressione in consolidamento a garanzia di tempo stabile e con graduale rialzo termico.

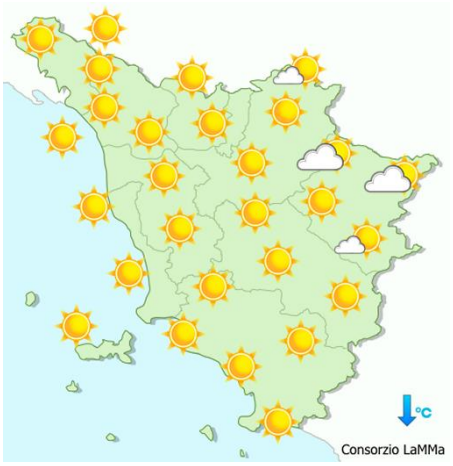


Pressione al suolo e fronti del 08 Settembre alle 12 UTC

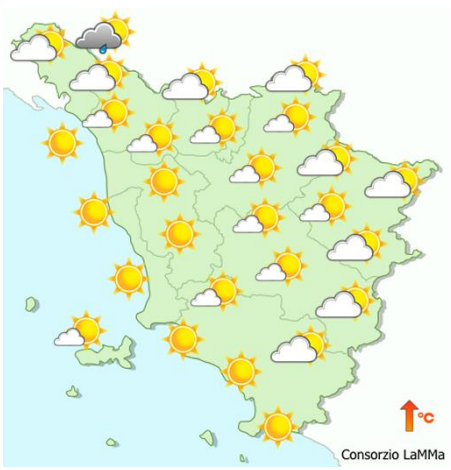


Meteosat HRV del 08 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso in mattinata, salvo addensamenti più consistenti a ridosso dell'Appennino aretino. Moderato aumento di nubi cumuliformi nelle ore pomeridiane sulle zone interne.

Fenomeni: breve rovesci sull'Appennino massese con cumulati di scarso rilievo.

Venti: deboli settentrionali, temporaneamente moderati di Maestrale in Maremma.

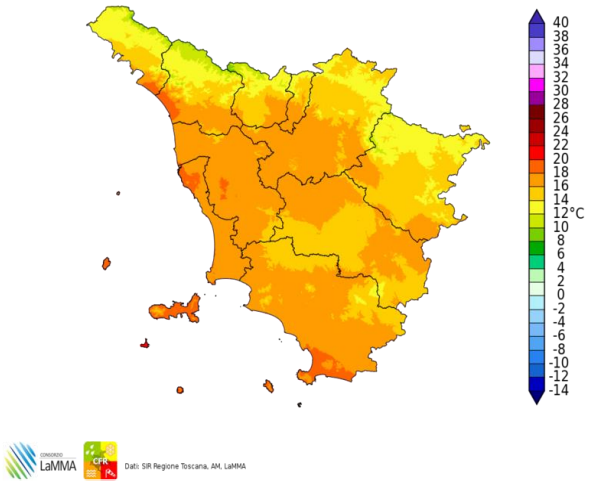
Mari: generalmente poco mossi.

Temperature: in lieve aumento.

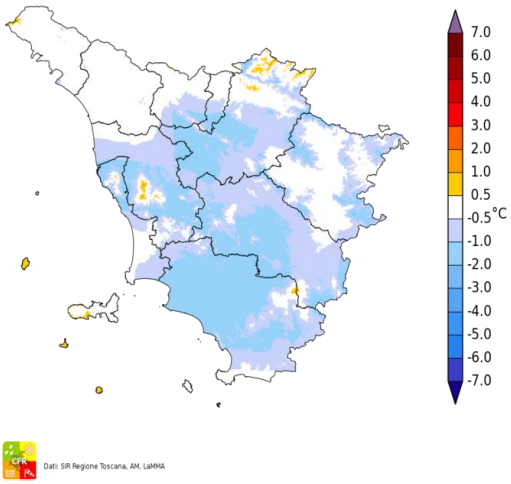
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	17	16	17	20	17	18	16	16	18	18
	anomalia*	4	0	2	2	1	1	0	1	2	2
T. max	osservata	27	31	29	28	29	26	29	29	30	29
	anomalia*	0	3	1	2	2	-1	2	1	2	3
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

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

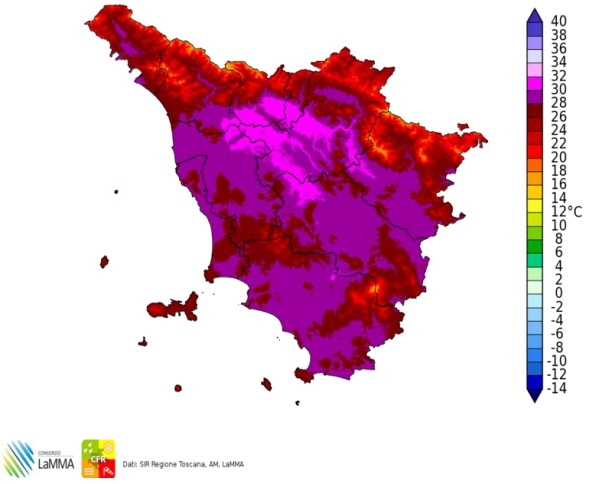
Temperatura Minima del 08/09/2018



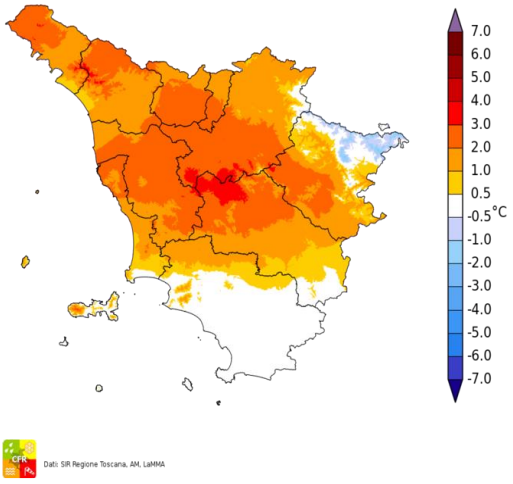
Differenza della Temperatura Minima tra 08/09/2018 e 07/09/2018



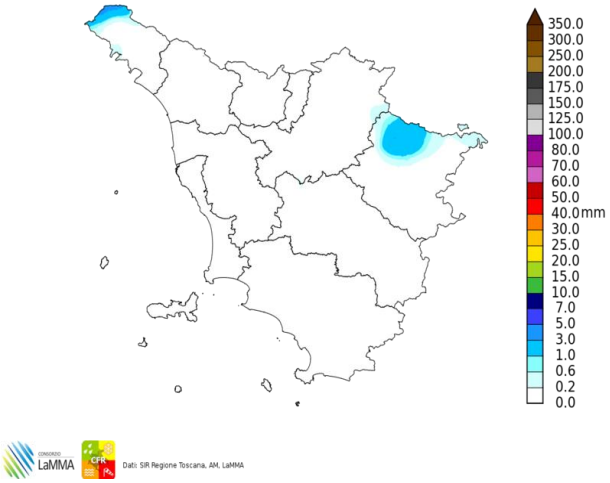
Temperatura Massima del 08/09/2018



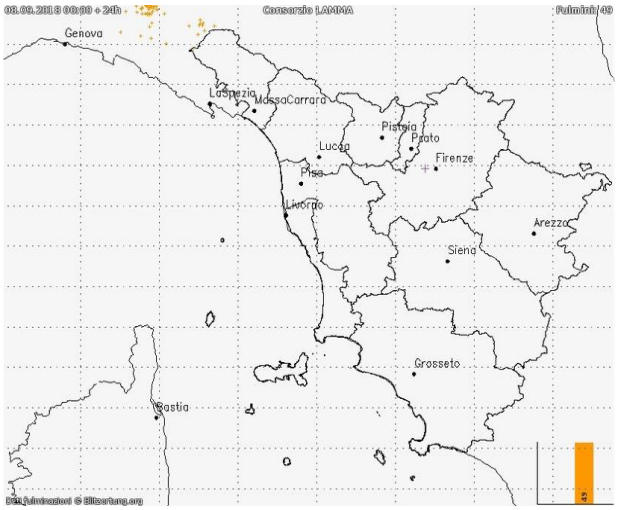
Differenza della Temperatura Massima tra 08/09/2018 e 07/09/2018



Precipitazione del 08/09/2018

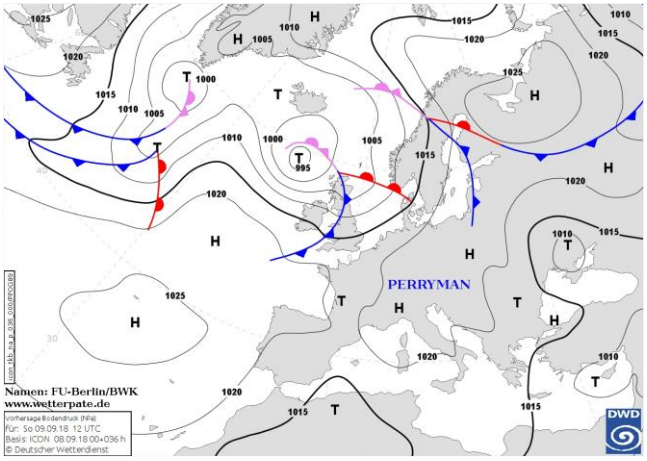


Fulminazioni osservate il giorno 08 Settembre

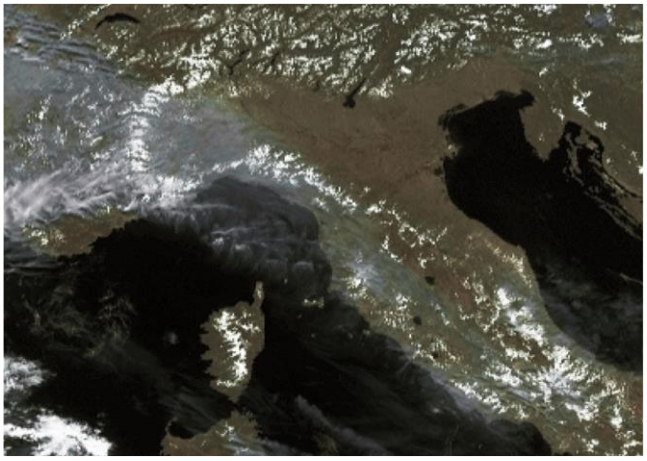


Domenica 9 Settembre 2018

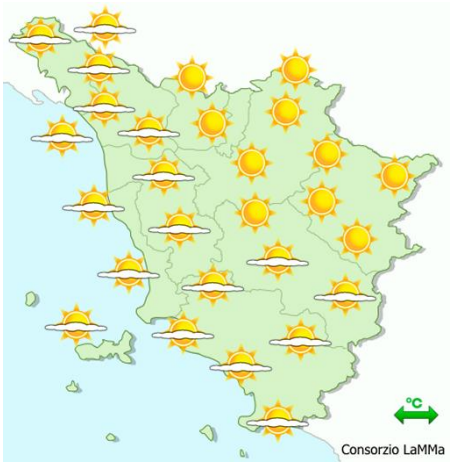
Situazione: alta pressione in consolidamento a garanzia di tempo stabile e con graduale rialzo termico.



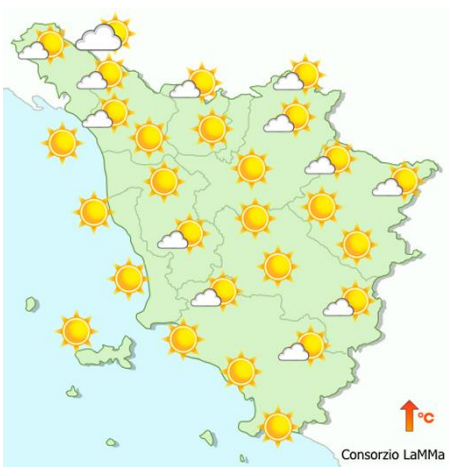
Pressione al suolo e fronti del 09 Settembre alle 12 UTC


Meteosat HRV del 09 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: prevalentemente soleggiato

Fenomeni: nessuno.

Venti: deboli a regime di brezza.

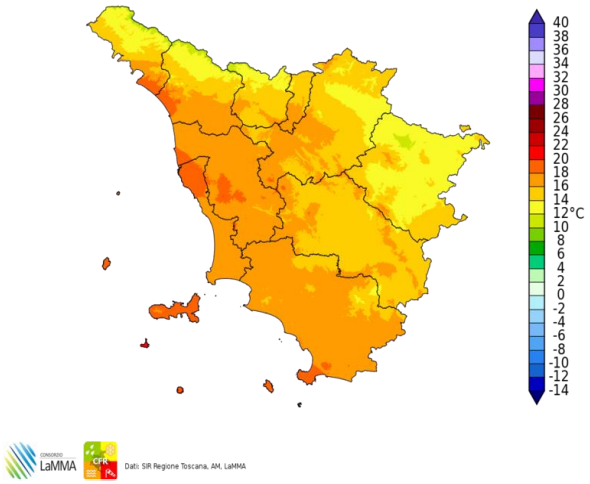
Mari: poco mossi.

Temperature: in aumento.

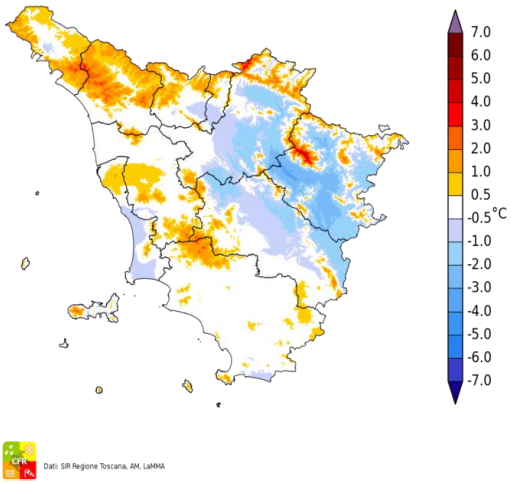
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	N.D.	N.D.	N.D.	21	16	18	N.D.	16	18	18
	anomalia*	N.D.	N.D.	N.D.	3	1	2	N.D.	1	2	2
T. max	osservata	N.D.	N.D.	N.D.	28	30	28	N.D.	30	32	31
	anomalia*	N.D.	N.D.	N.D.	2	2	0	N.D.	2	4	5
Precipitazione (mm/24ore)		N.D.	0	0	0	0	0	N.D.	0	0	0

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

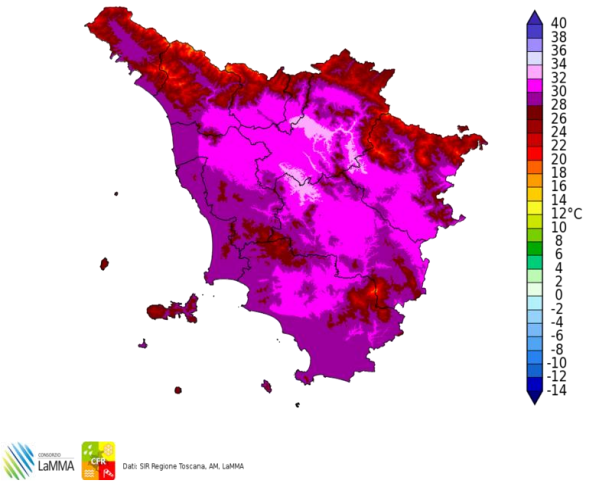
Temperatura Minima del 09/09/2018



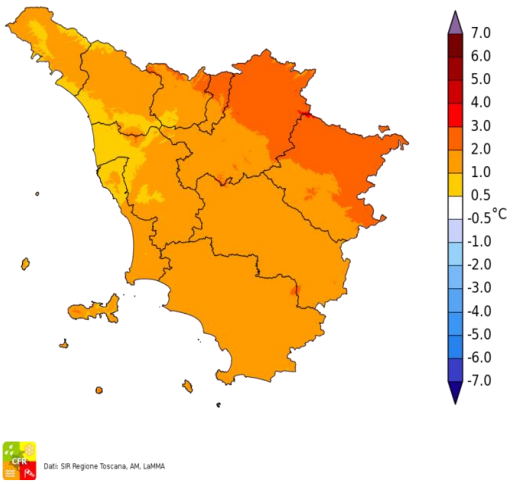
Differenza della Temperatura Minima tra 09/09/2018 e 08/09/2018



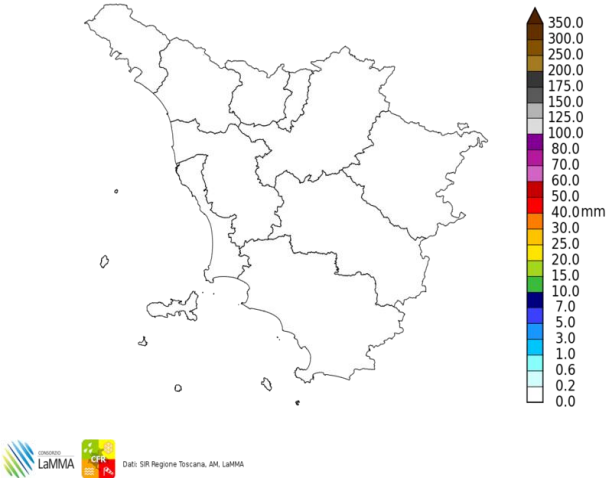
Temperatura Massima del 09/09/2018



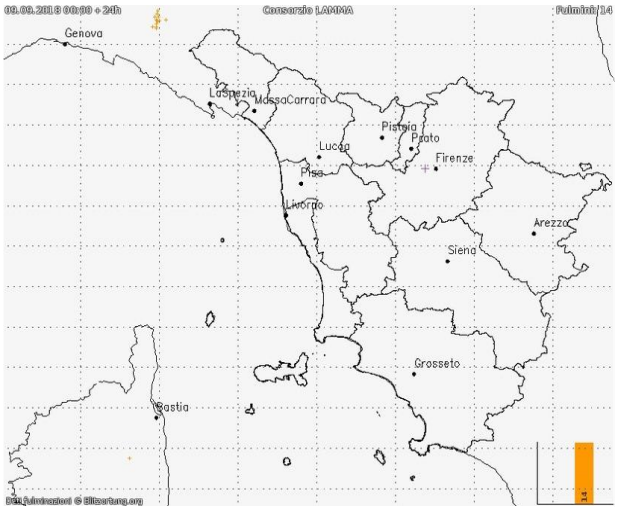
Differenza della Temperatura Massima tra 09/09/2018 e 08/09/2018



Precipitazione del 09/09/2018

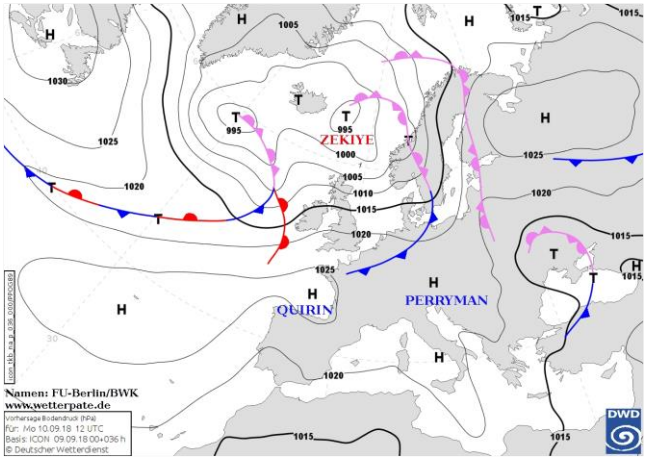


Fulminazioni osservate il giorno 09 Settembre

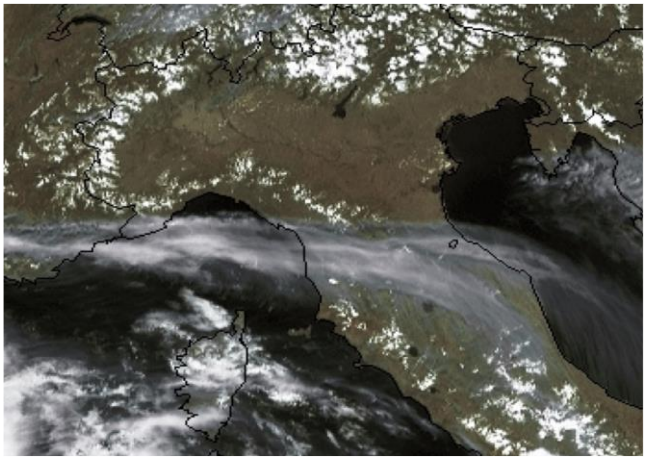


Lunedi' 10 Settembre 2018

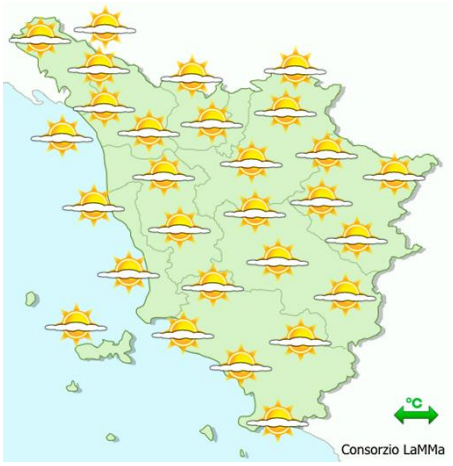
Situazione: un robusto campo si alta pressione si estende sul bacino del Mediterraneo.



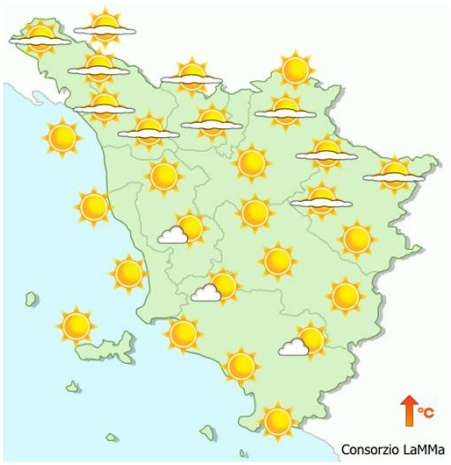
Pressione al suolo e fronti del 10 Settembre alle 12 UTC


Meteosat HRV del 10 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno in mattinata, localmente velato nel pomeriggio. Modesto sviluppo di nubi cumuliformi sui rilievi nelle ore più calde.

Fenomeni: nessuno.

Venti: deboli settentrionali, temporaneamente moderati di Maestrale in Maremma durante il pomeriggio.

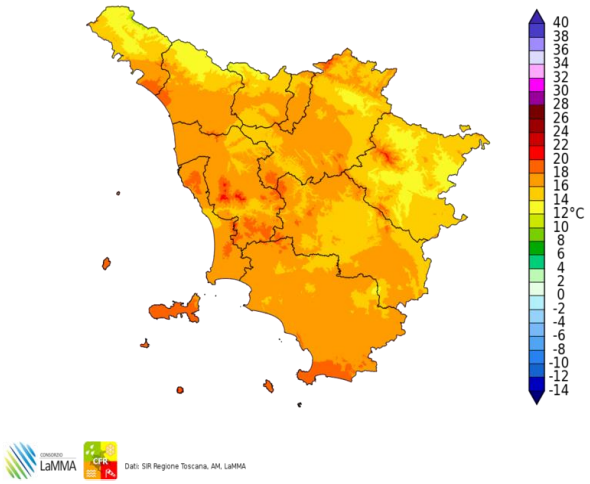
Mari: poco mossi.

Temperature: pressoché stazionarie.

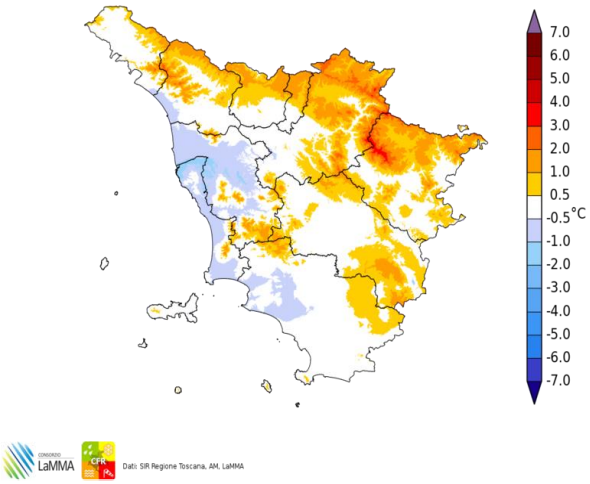
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	14	16	16	20	16	18	16	16	18	19
	anomalia*	1	1	1	2	1	1	0	1	2	3
T. max	osservata	29	32	31	26	30	28	28	30	32	31
	anomalia*	2	4	3	0	2	1	1	2	4	5
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

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

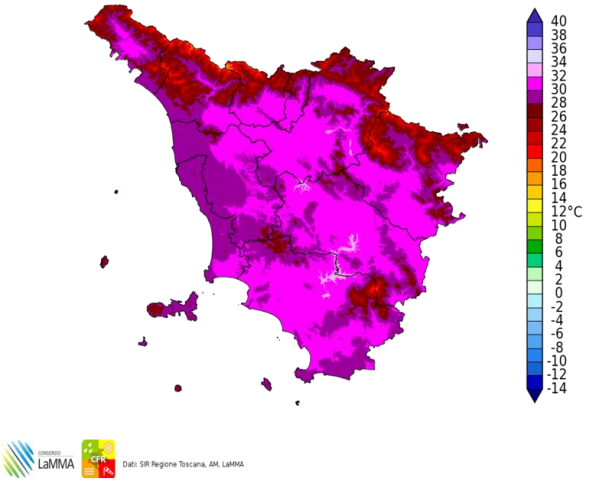
Temperatura Minima del 10/09/2018



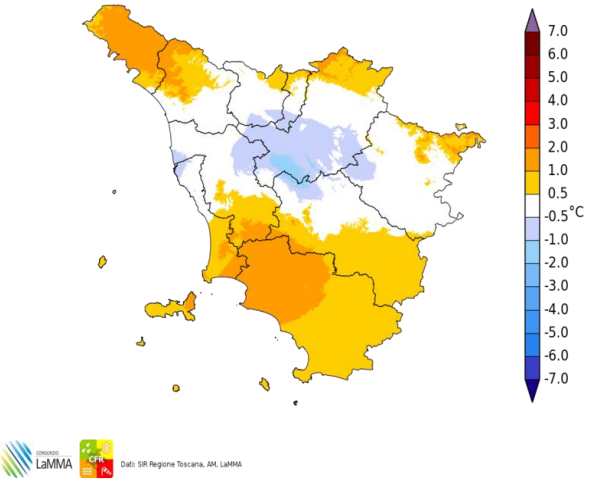
Differenza della Temperatura Minima tra 10/09/2018 e 09/09/2018



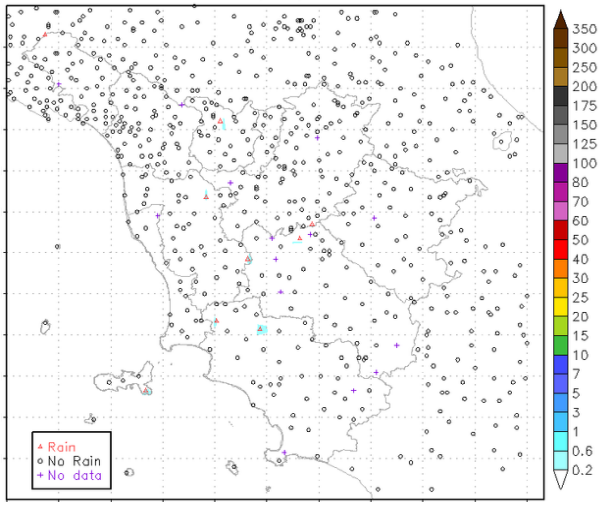
Temperatura Massima del 10/09/2018



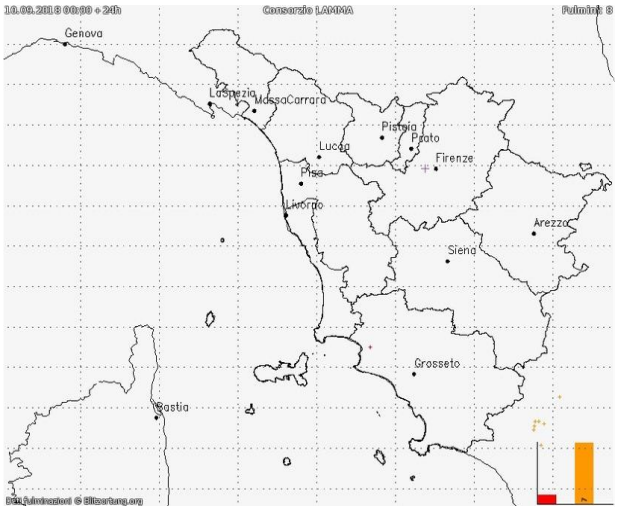
Differenza della Temperatura Massima tra 10/09/2018 e 09/09/2018



Total Precipitation [mm] cumulated on Mon, 10/09/2018

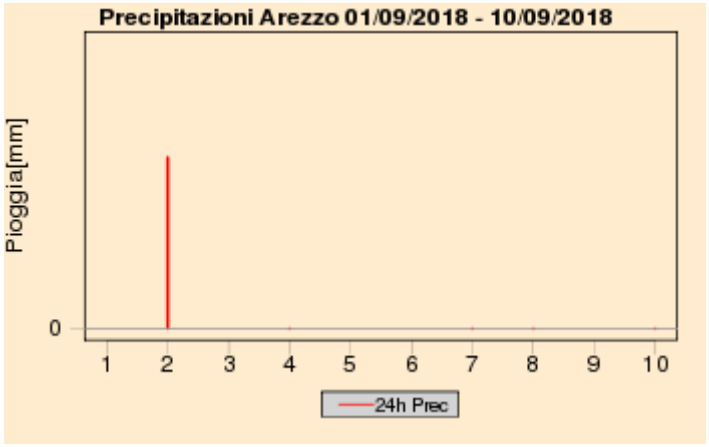


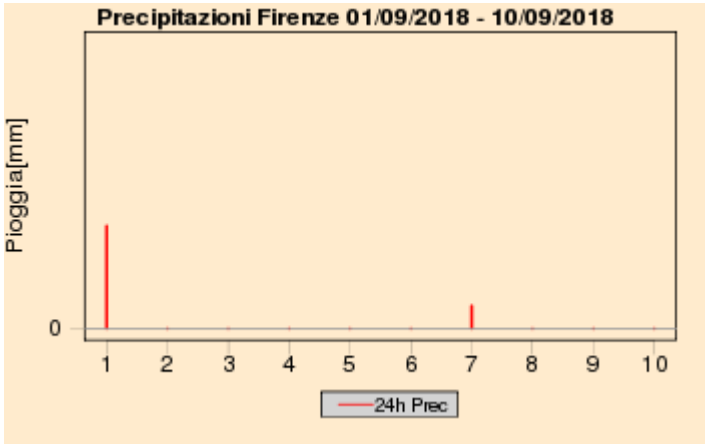
Fulminazioni osservate il giorno 10 Settembre

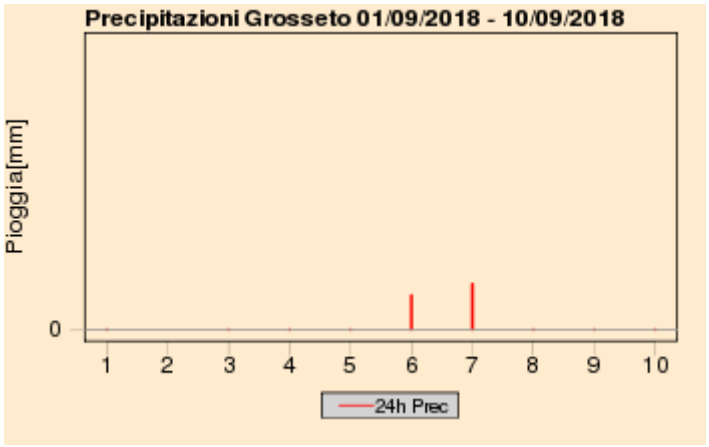


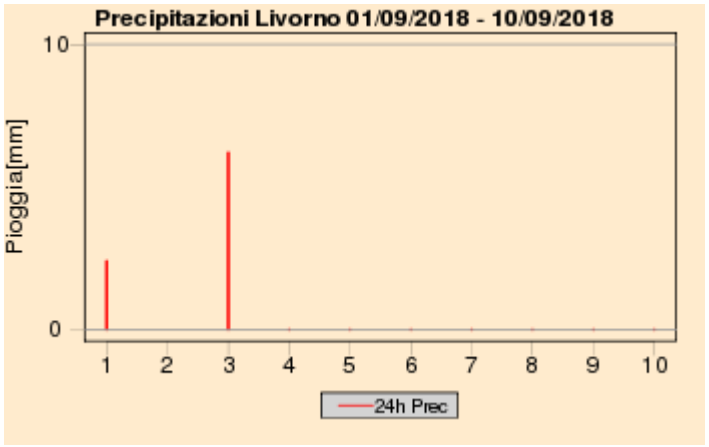
I decade - Quadro regionale – Precipitazioni

Nel corso della prima decade del mese di Settembre le precipitazioni sono risultate frequenti ma prevalentemente a carattere sparso o isolato; i cumulati decadali registrati sul territorio risultano di conseguenza decisamente eterogenei: sul nord ovest, sui settori Appenninici orientali e sull'isola d'Elba i cumulati risultano diffusamente prossimi a 50 mm con punte fino a 100 e oltre sulle Apuane e sul lucchese; non significativi invece i cumulati registrati su parte del fiorentino e su parte della Val d'Orcia e della Val di Chiana, ove non si raggiungono i 10 mm.

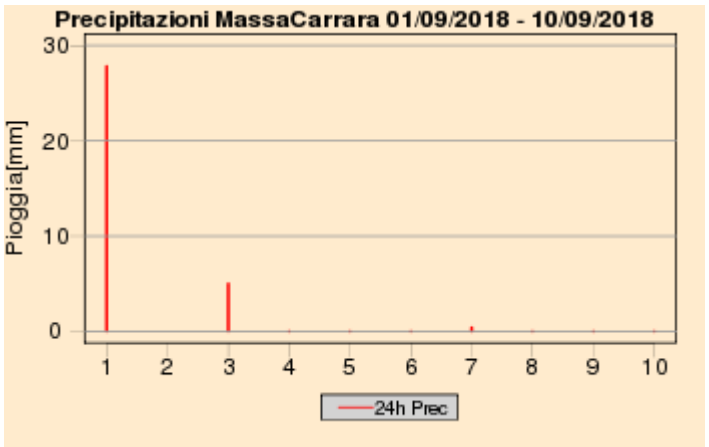


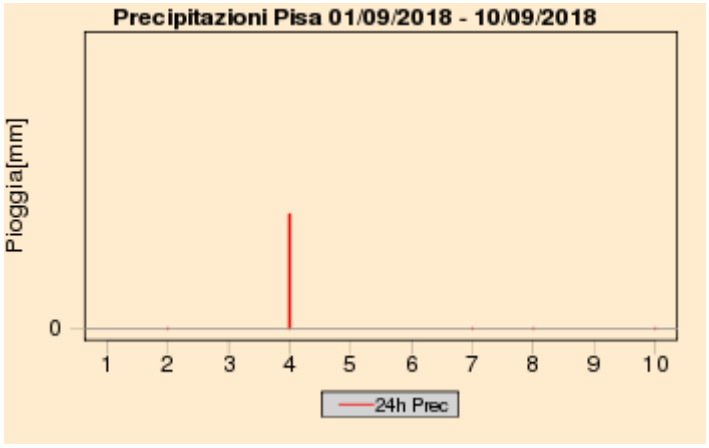


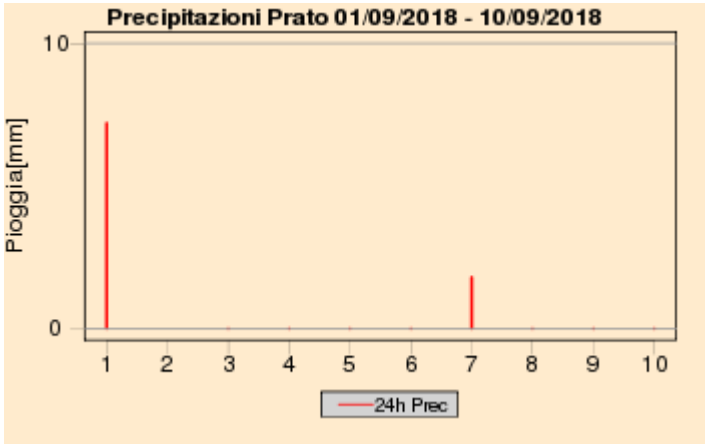


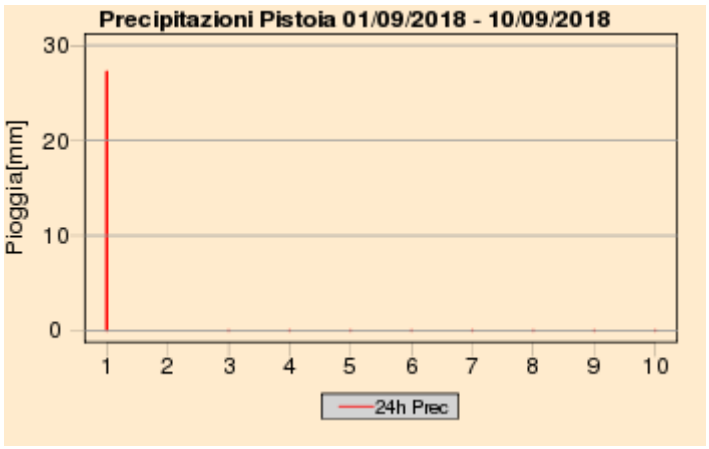


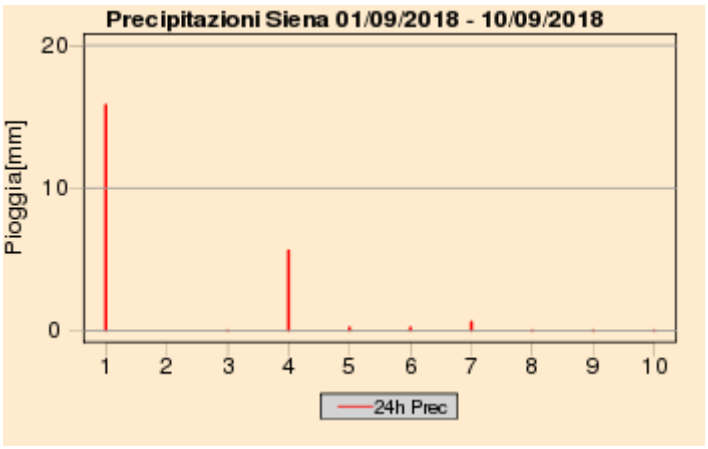




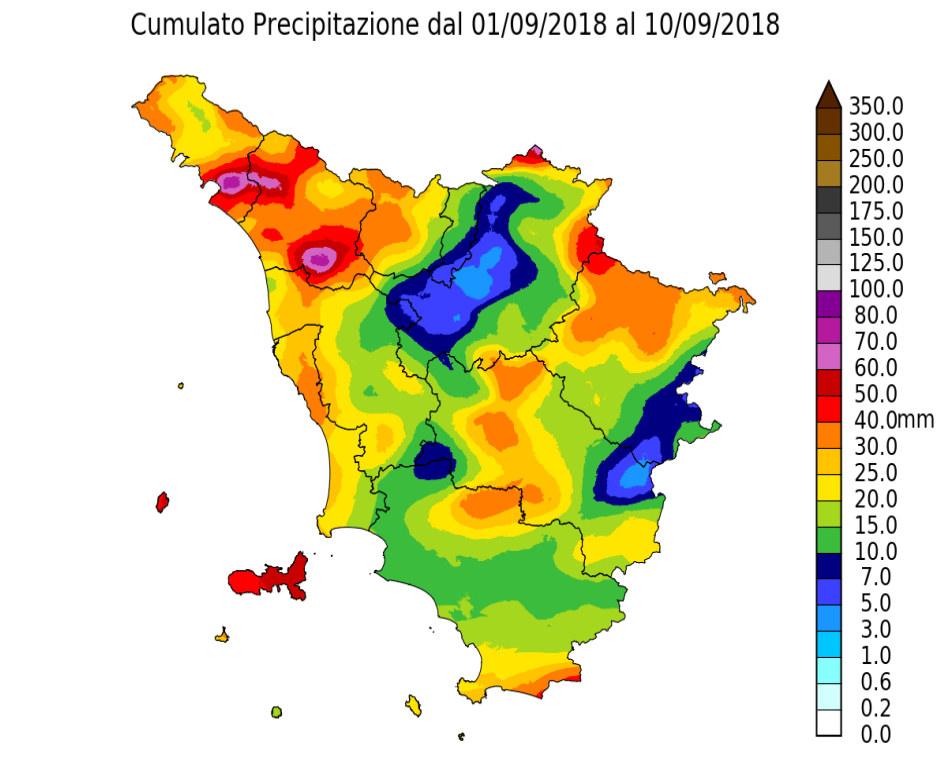






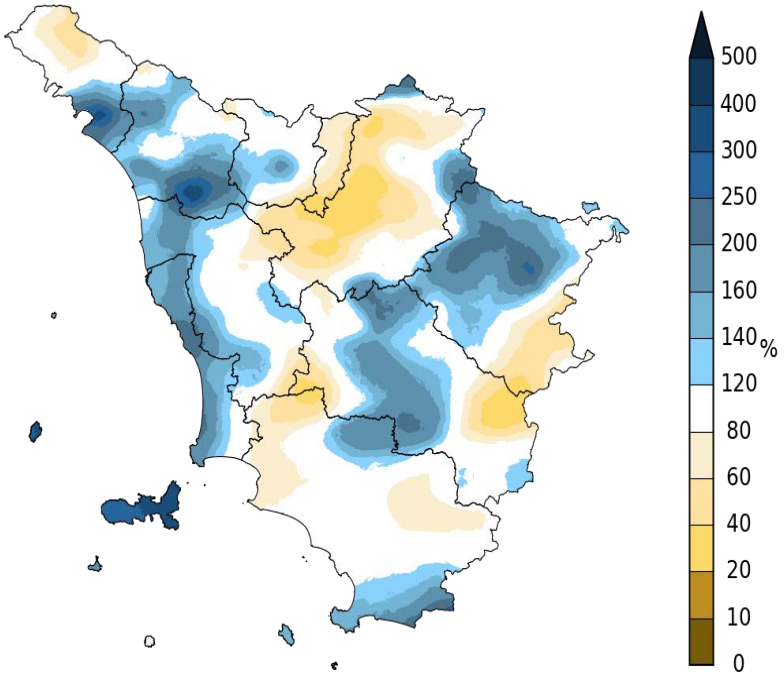


Quadro regionale – Cumulati decadali di precipitazione, anomalia di precipitazione e numero di giorni di pioggia



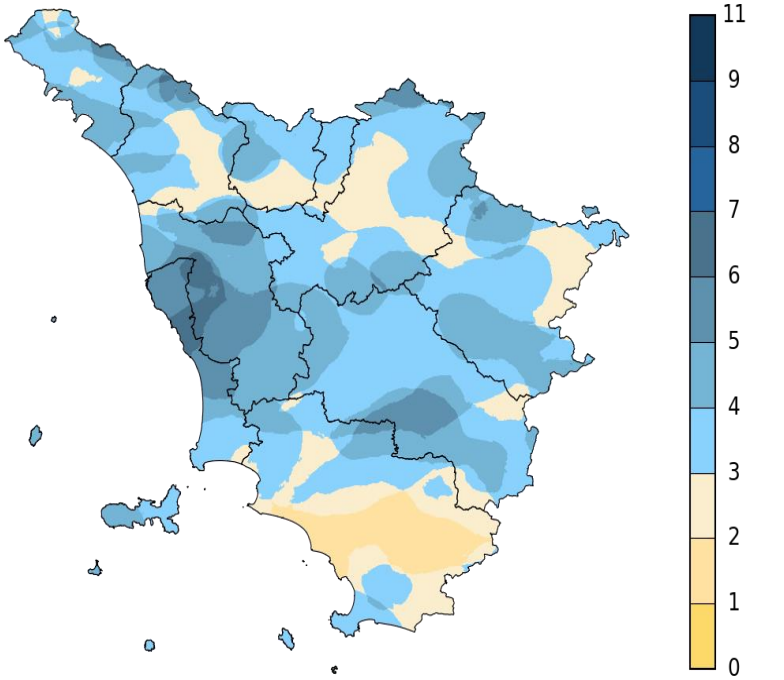
Dati: SIR Regione Toscana, AM, LaMMA

Percentuale di Precipitazione rispetto alla media climatica
dal 01/09/2018 al 10/09/2018



Dati: SIR Regione Toscana, AM, LaMMA

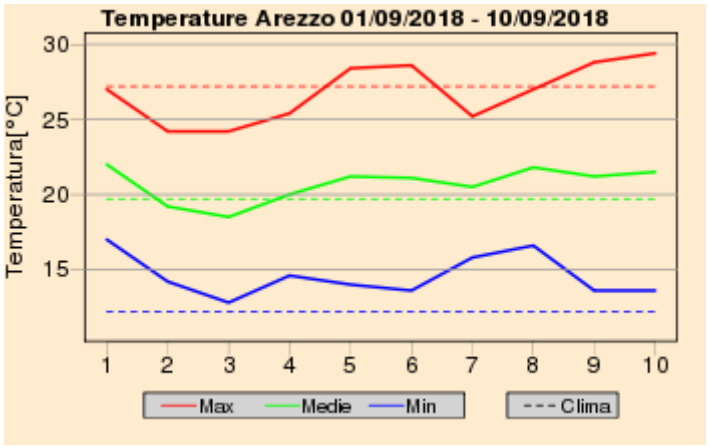
Giorni con Pioggia ≥ di 1 mm dal 01/09/2018 al 10/09/2018

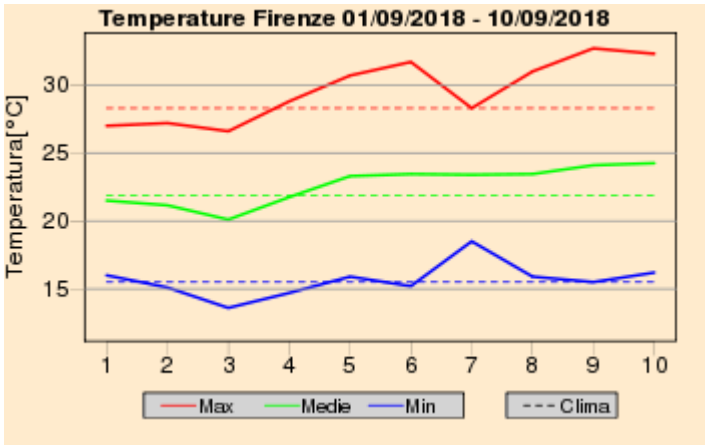


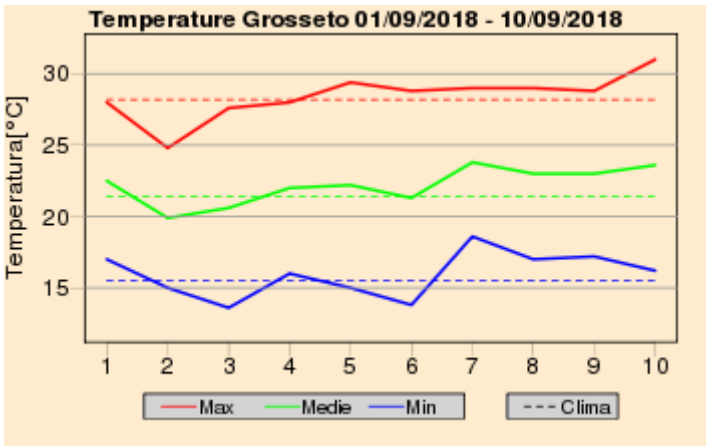
Dati: SIR Regione Toscana, AM, LaMMA

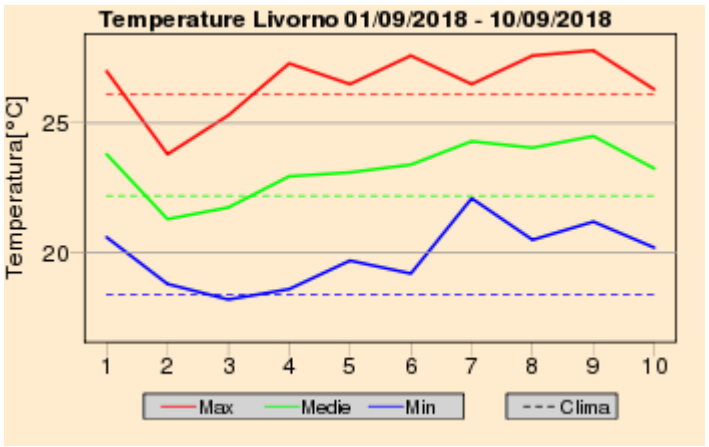
I decade - Quadro regionale – Temperature

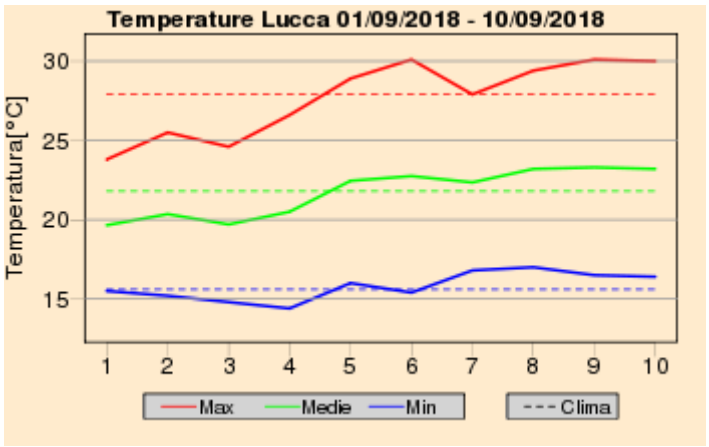
Le temperature registrate nel corso della prima decade di Settembre si sono mantenute costantemente su valori prossimi a quelli di riferimento climatico, sia per quanto riguarda i valori massimi che per quelli minimi giornalieri. Di conseguenza non si sono registrare anomalie termiche significative.

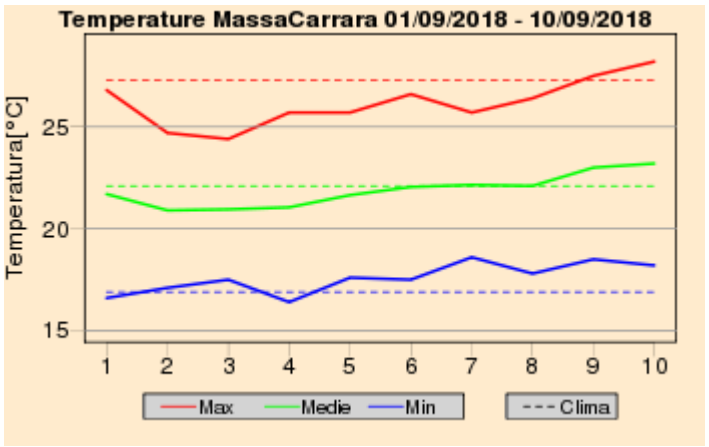


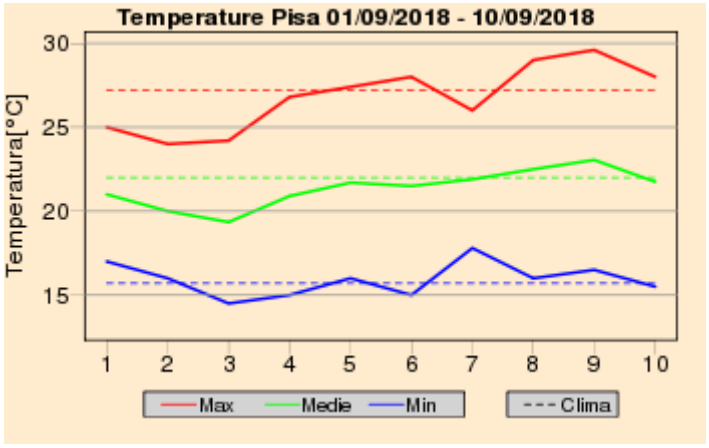


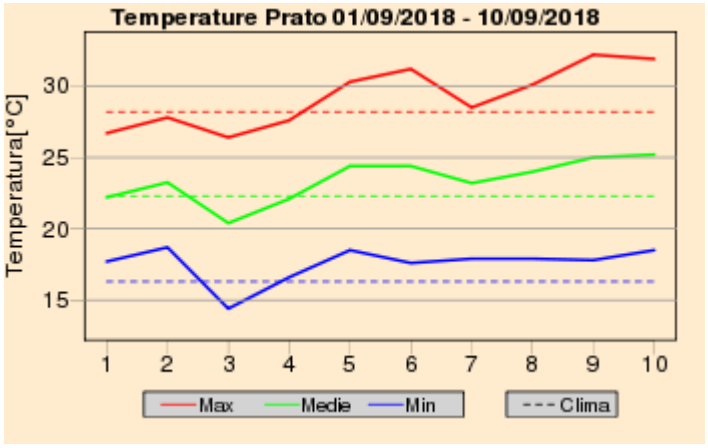


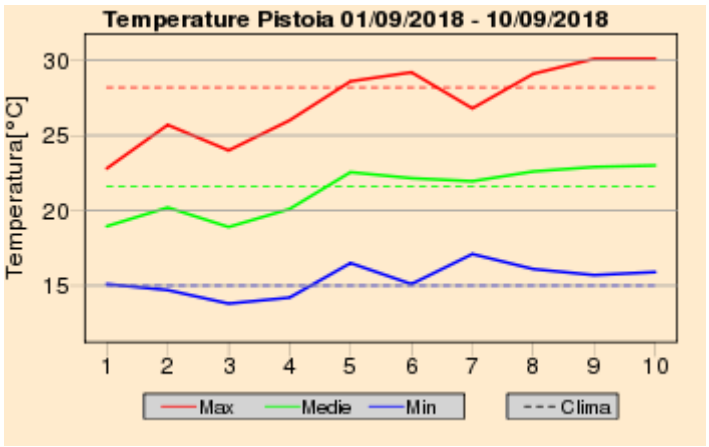


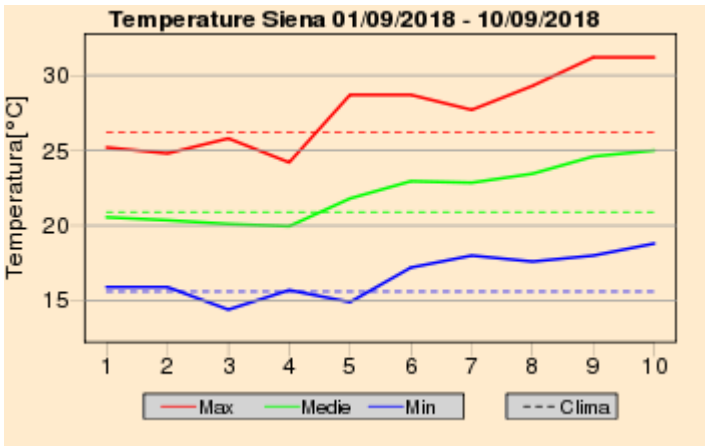




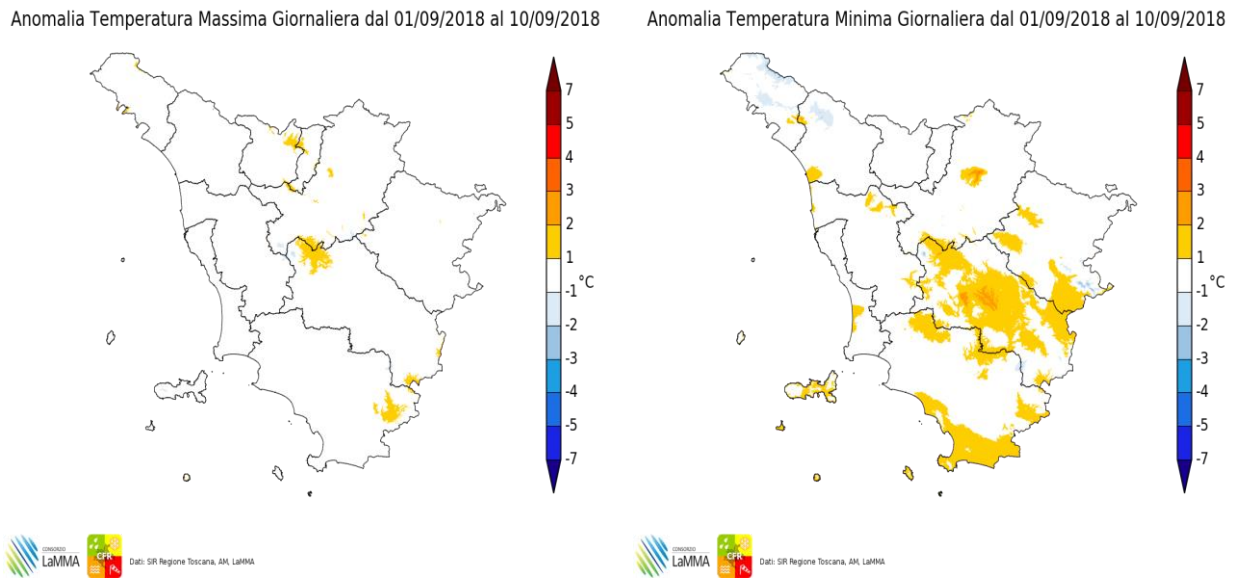








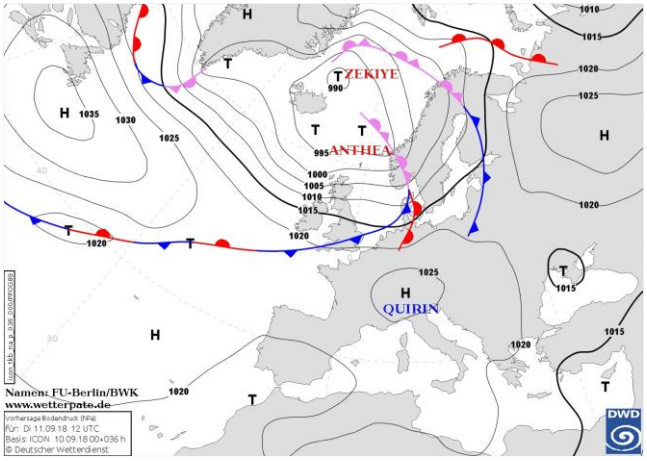
Quadro regionale – Anomalie termiche



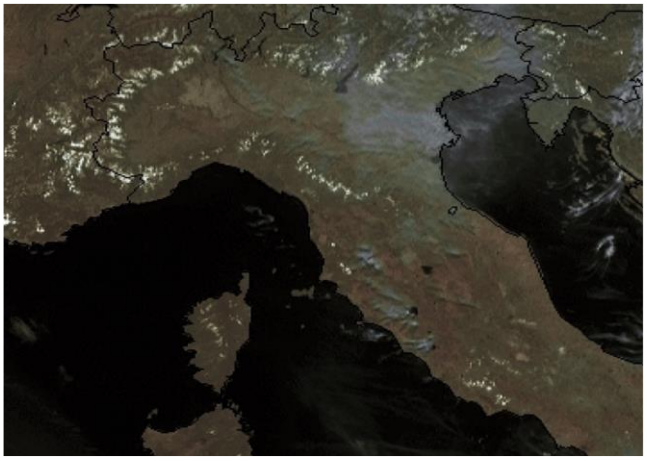
Anomalia termica decadale per le temperature massime e minime giornaliere

Martedi' 11 Settembre 2018

Situazione: un robusto campo di alta pressione interessa il bacino del Mediterraneo e gran parte dell'Europa.

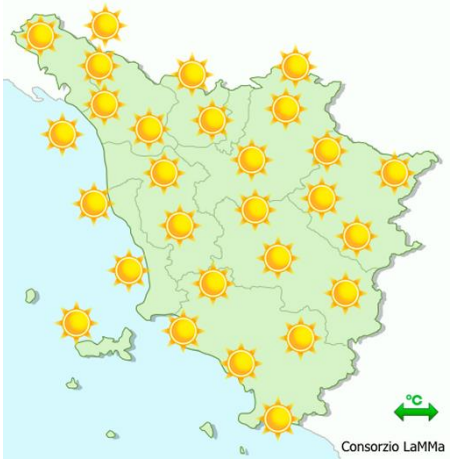


Pressione al suolo e fronti del 11 Settembre alle 12 UTC

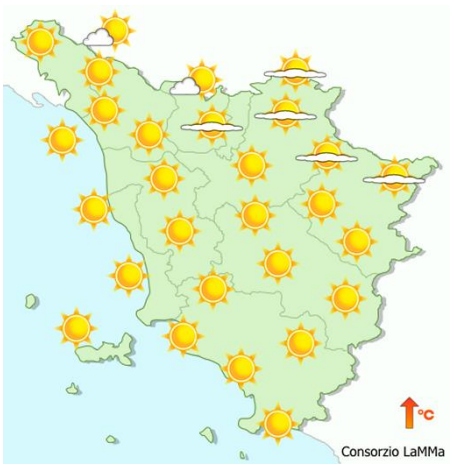


Meteosat HRV del 11 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso.

Fenomeni: nessuno.

Venti: deboli a regime di brezza. Moderati di Maestrale nel pomeriggio lungo la costa.

Mari: calmi o poco mossi.

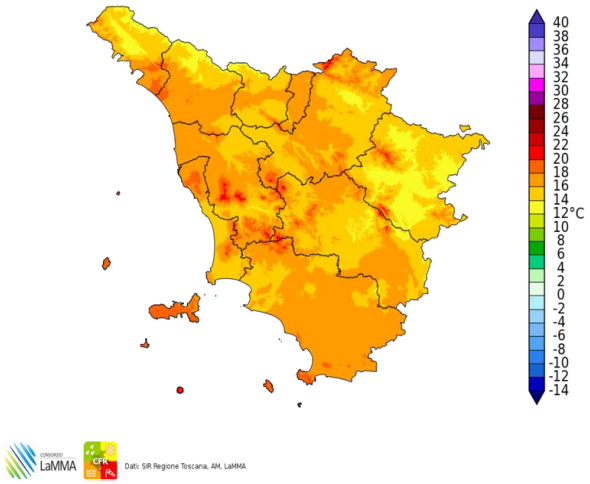
Temperature: massime in aumento.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	14	16	16	20	16	18	15	16	18	19
	anomalia*	2	1	1	3	2	2	0	2	3	4
T. max	osservata	30	35	32	29	32	28	30	32	34	33
	anomalia*	4	8	5	4	6	2	5	5	7	8
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

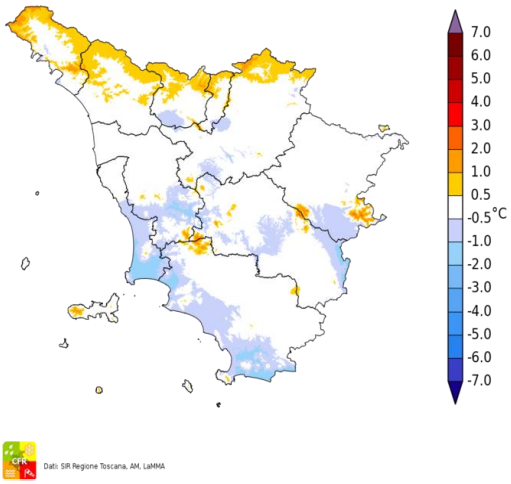
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

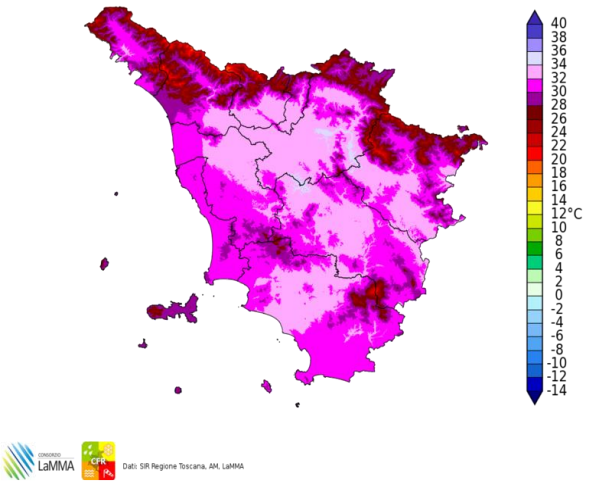
Temperatura Minima del 11/09/2018



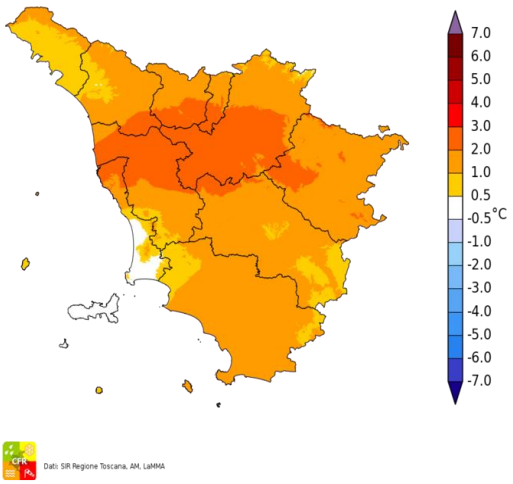
Differenza della Temperatura Minima tra 11/09/2018 e 10/09/2018



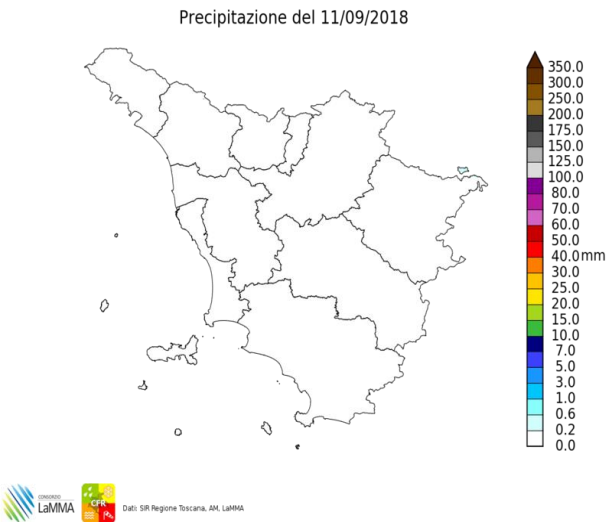
Temperatura Massima del 11/09/2018



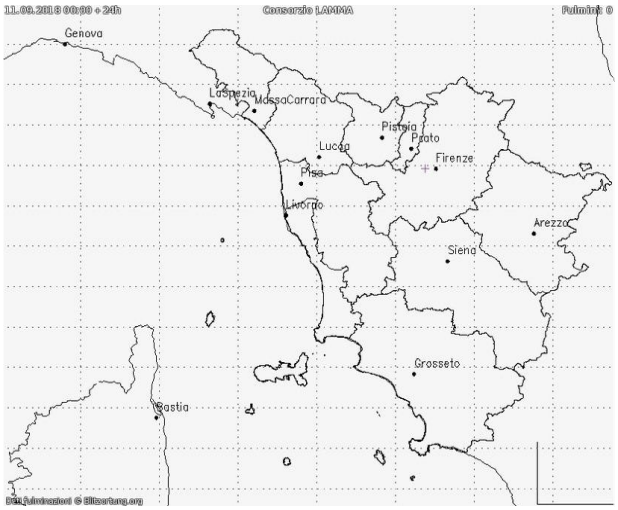
Differenza della Temperatura Massima tra 11/09/2018 e 10/09/2018



Precipitazione del 11/09/2018

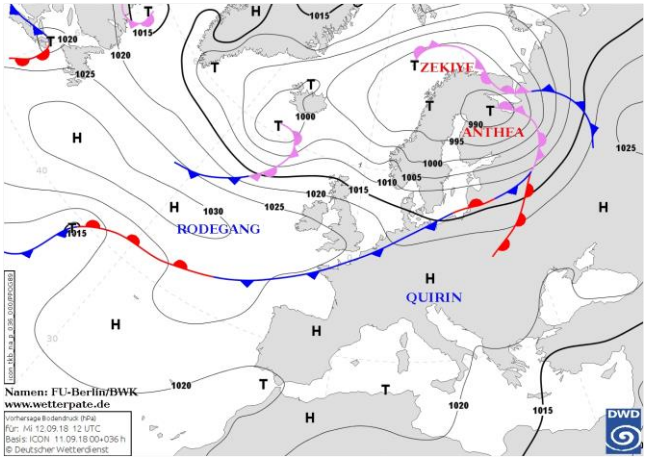


Fulminazioni osservate il giorno 11 Settembre

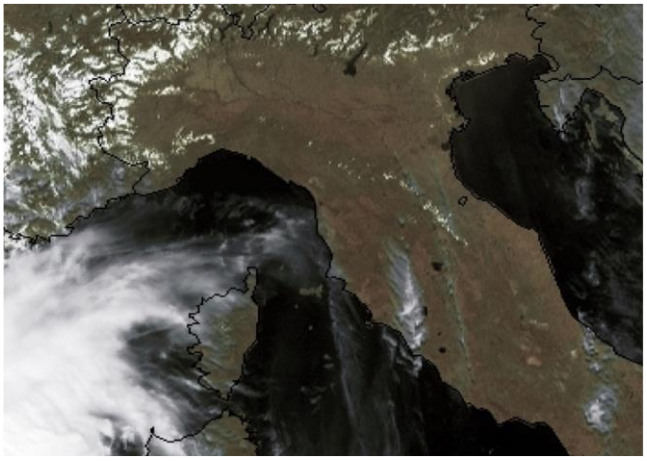


Mercoledi' 12 Settembre 2018

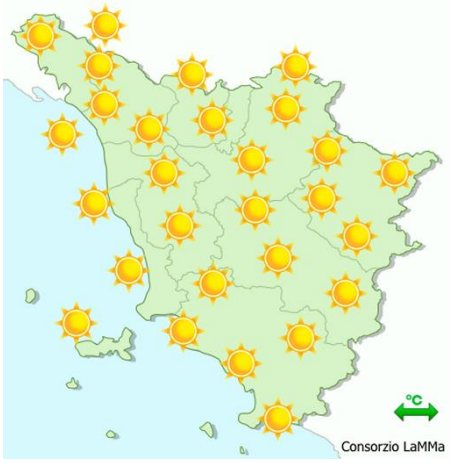
Situazione: un robusto campo di alta pressione interessa il bacino del Mediterraneo e gran parte dell'Europa.



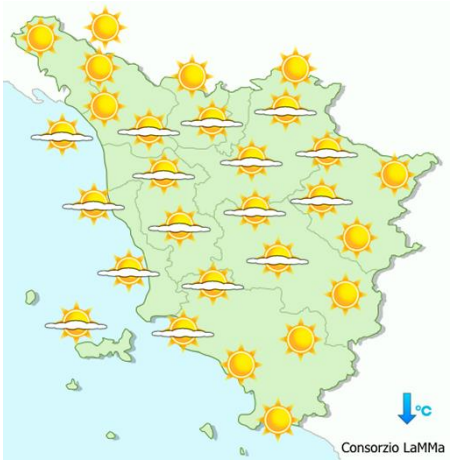
Pressione al suolo e fronti del 12 Settembre alle 12 UTC


Meteosat HRV del 12 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso.

Fenomeni: nessuno.

Venti: deboli di brezza con rinforzi di Maestrale sulla costa.

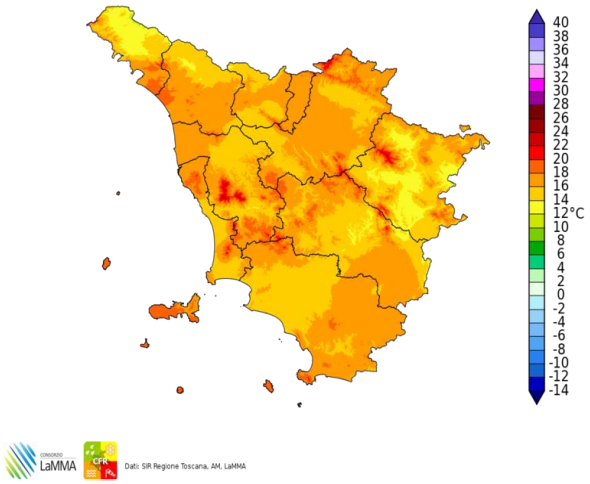
Mari: poco mossi con moto ondoso in aumento dalla sera.

Temperature: stazionarie o in lieve aumento.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	14	16	14	21	16	18	15	16	19	19
	anomalia*	2	2	-1	3	2	2	0	2	4	4
T. max	osservata	31	35	33	28	32	27	32	32	34	33
	anomalia*	6	8	6	3	5	1	6	5	7	8
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

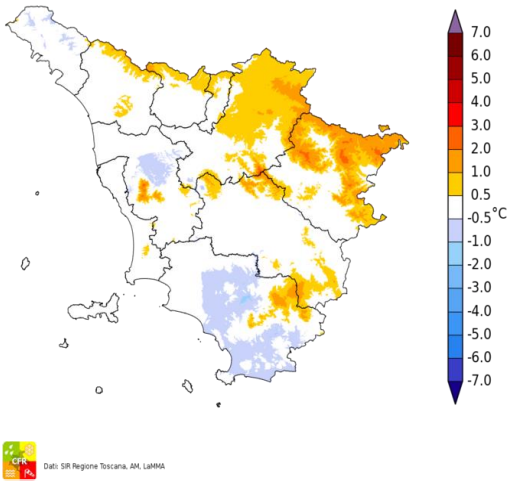
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 12/09/2018



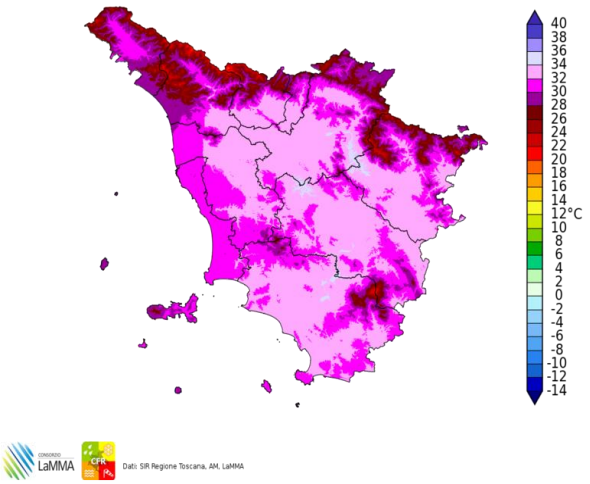
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 12/09/2018 e 11/09/2018



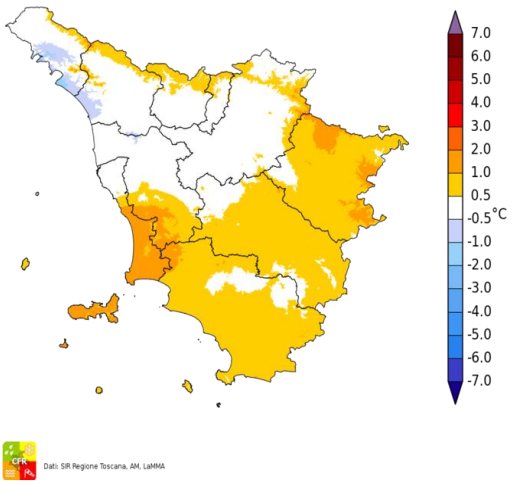
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 12/09/2018



Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 12/09/2018 e 11/09/2018



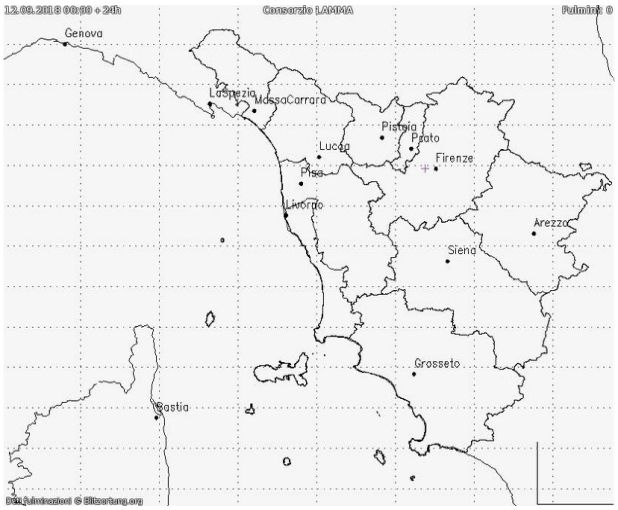
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 12/09/2018



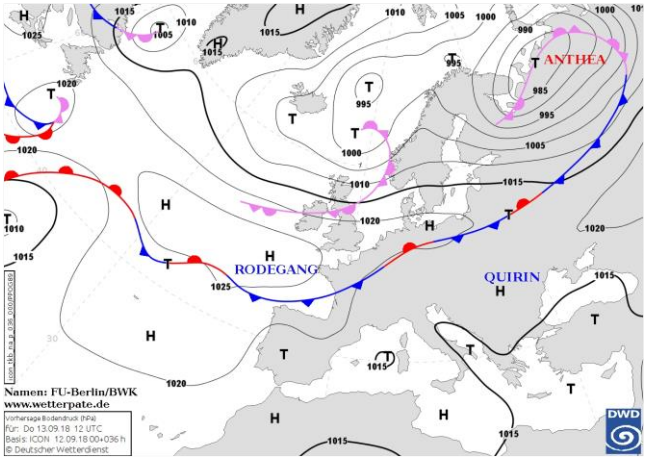
Dati: SIR Regione Toscana, AM, LaMMA

Fulminazioni osservate il giorno 12 Settembre

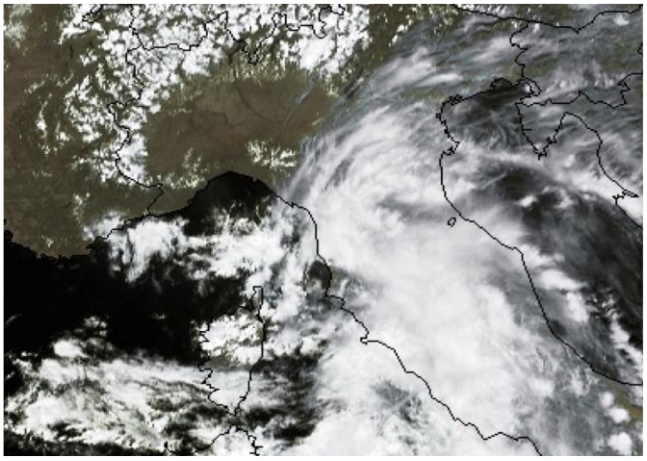


Giovedi' 13 Settembre 2018

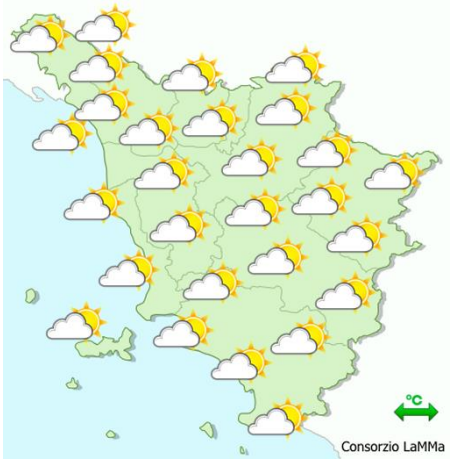
Situazione: una debole perturbazione in quota è in transito sulla penisola con nuvolosità anche consistente e locali precipitazioni.



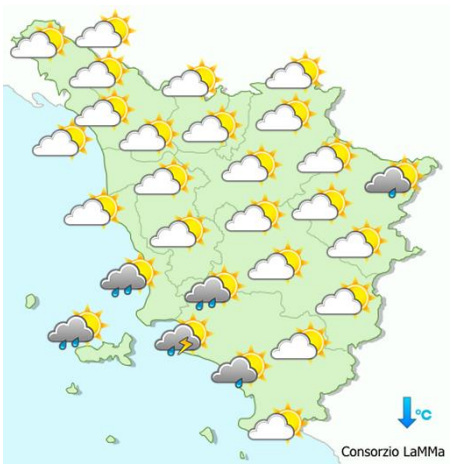
Pressione al suolo e fronti del 13 Settembre alle 12 UTC


Meteosat HRV del 13 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: nuvoloso.

Fenomeni: nel pomeriggio rovesci temporaleschi sull'Elba, sulle zone costiere tra Follonica e Cecina e sui rilievi retrostanti delle colline Metallifere.

Venti: deboli variabili.

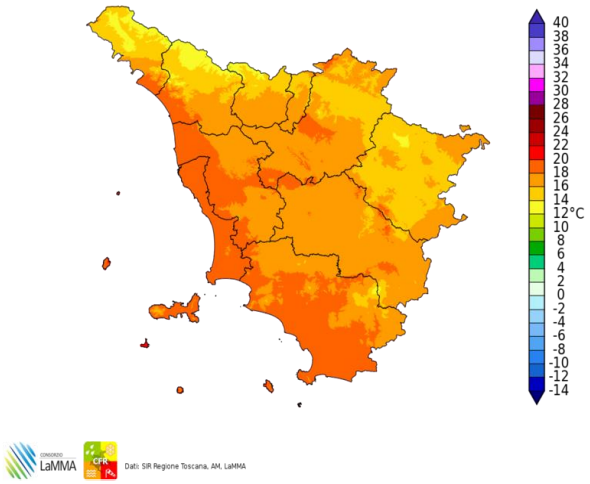
Mari: poco mossi.

Temperature: in calo le massime.

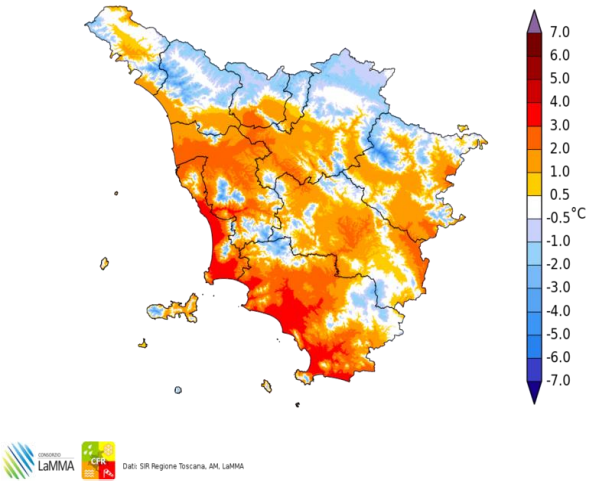
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	16	17	18	22	18	19	18	17	19	19
	anomalia*	4	3	3	5	4	3	3	3	4	4
T. max	osservata	24	26	28	26	25	26	26	25	26	24
	anomalia*	-2	-1	1	1	-2	-1	0	-2	-1	-1
Precipitazione (mm/24ore)		0	0	1	0	0	0	0	0	0	0

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

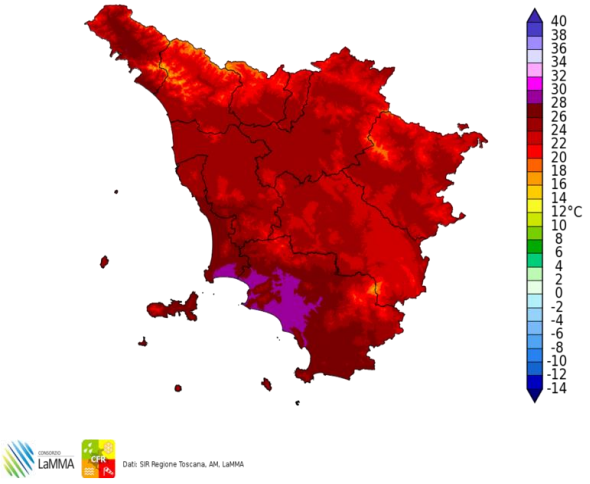
Temperatura Minima del 13/09/2018



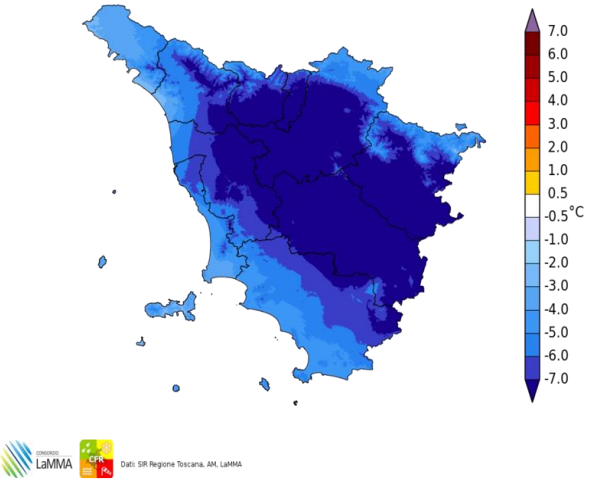
Differenza della Temperatura Minima tra 13/09/2018 e 12/09/2018



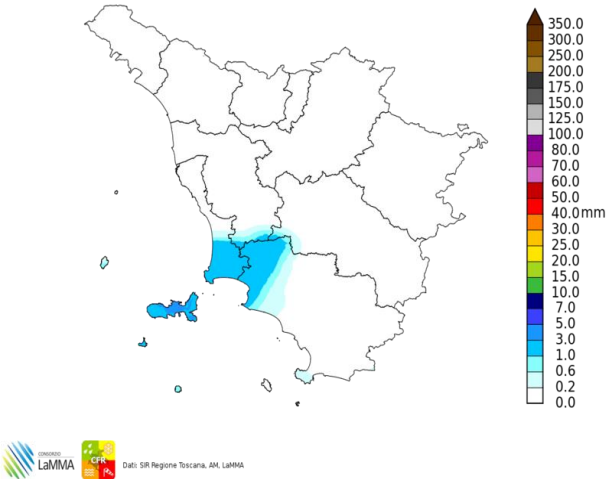
Temperatura Massima del 13/09/2018



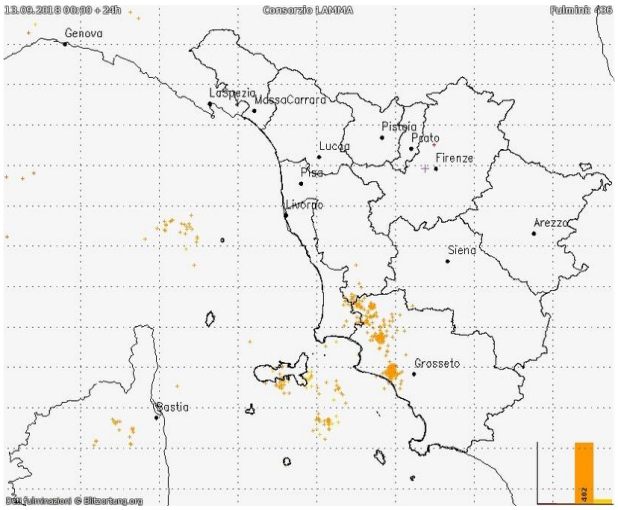
Differenza della Temperatura Massima tra 13/09/2018 e 12/09/2018



Precipitazione del 13/09/2018

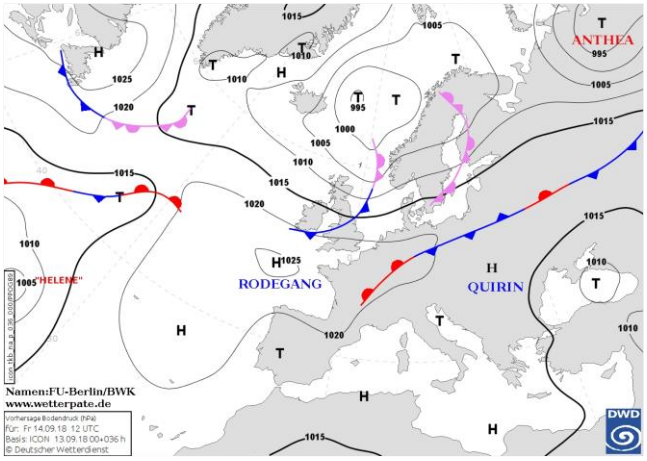


Fulminazioni osservate il giorno 13 Settembre

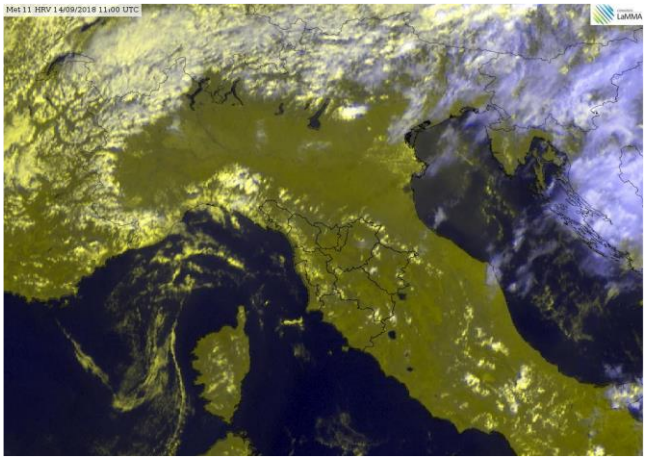


Venerdi' 14 Settembre 2018

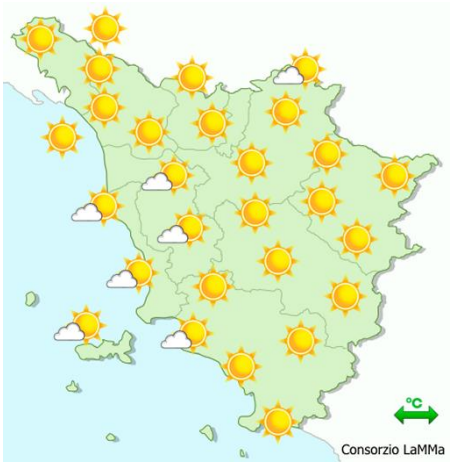
Situazione: debole minimo di 1016 hPa sul Mar Ligure in graduale colmamento e tempo in prevalenza stabile.



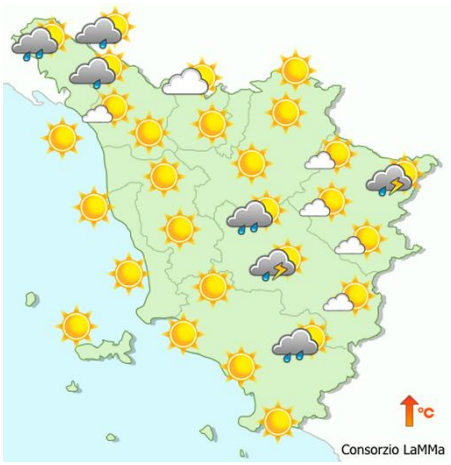
Pressione al suolo e fronti del 14 Settembre alle 12 UTC


Meteosat HRV del 14 Settembre alle 11 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso salvo sviluppo di nuvolosità cumuliforme nelle ore centrali della giornata.

Fenomeni: locali temporali sul Chianti senese, sull'Appennino settentrionali, sul Monte Amiata e sulla Val Tiberina.

Venti: deboli variabili.

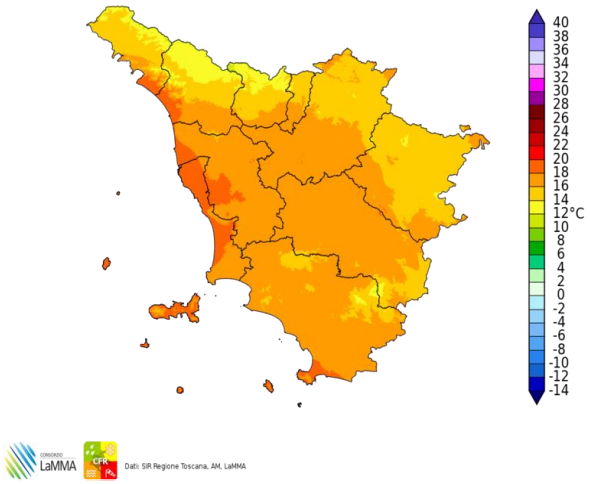
Mari: poco mossi.

Temperature: in aumento, anche sensibile, nei valori massimi.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	16	16	16	21	17	19	17	15	18	19
	anomalia*	5	1	1	4	2	3	2	1	2	4
T. max	osservata	30	32	29	27	29	26	28	29	31	31
	anomalia*	4	5	2	2	2	0	2	2	4	6
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

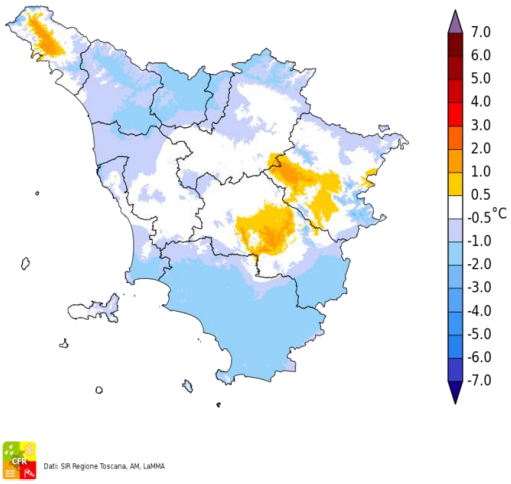
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 14/09/2018



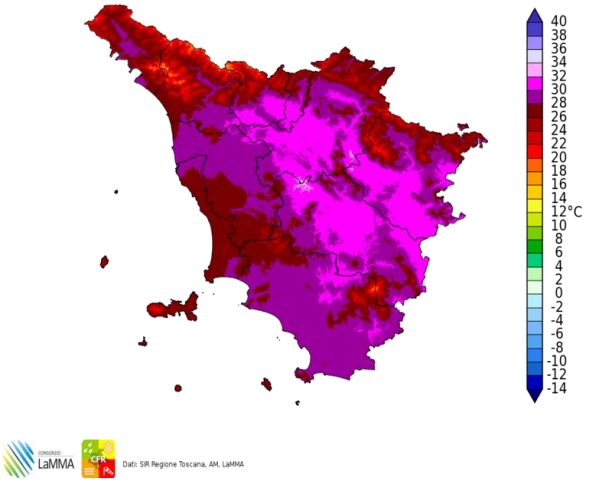
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 14/09/2018 e 13/09/2018



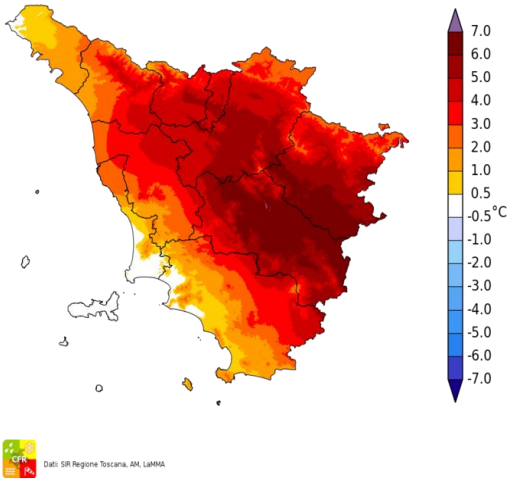
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 14/09/2018



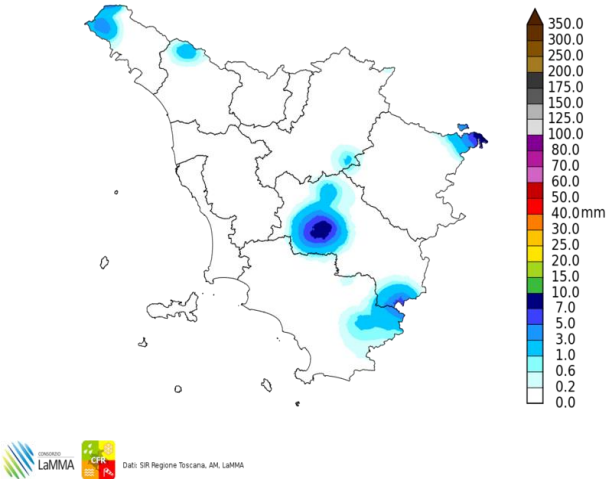
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 14/09/2018 e 13/09/2018



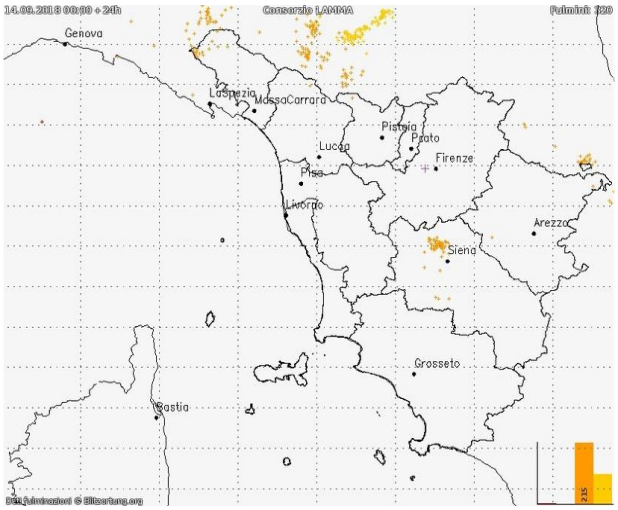
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 14/09/2018



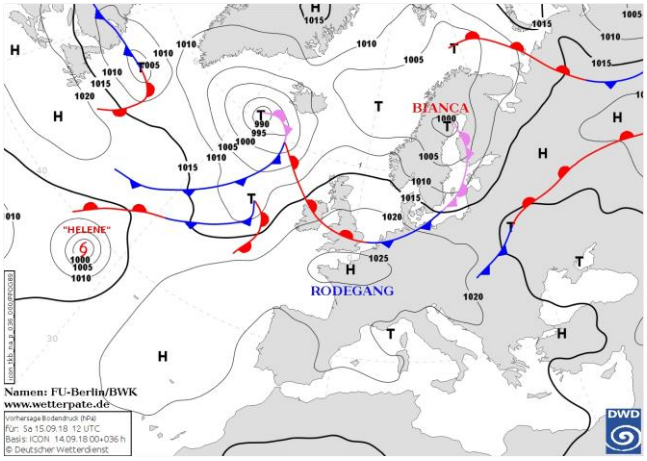
Dati: SIR Regione Toscana, AM, LaMMA

Fulminazioni osservate il giorno 14 Settembre

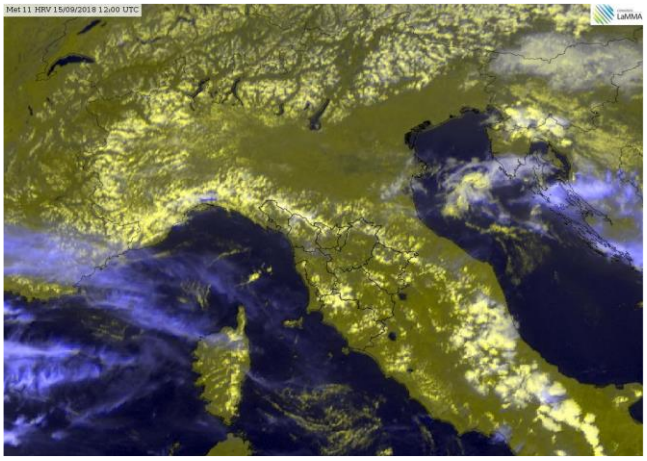


Sabato 15 Settembre 2018

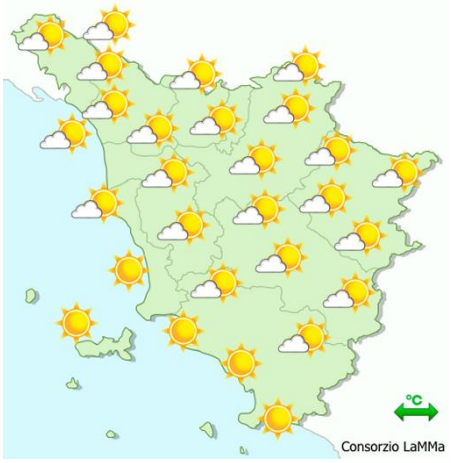
Situazione: un robusto campo di alta pressione domina la scena sul Mediterraneo, proteggendo la nostra penisola dal transito di fronti perturbati; infiltrazioni di aria fresca in quota favoriscono tuttavia locali condizioni di instabilità sui rilievi.



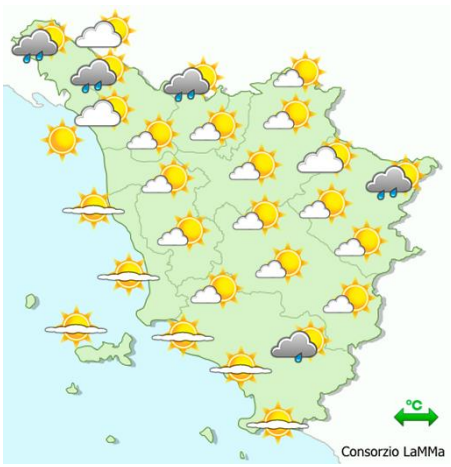
Pressione al suolo e fronti del 15 Settembre alle 12 UTC


Meteosat HRV del 15 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: poco nuvoloso al mattino, fino a parzialmente nuvoloso nel corso delle ore centrali della giornata per addensamenti in prossimità dei rilievi.

Fenomeni: debole pioggia nottetempo sul livornese, rovesci e temporali sparsi nel pomeriggio sui rilievi.

Venti: deboli variabili, temporaneamente moderati da ovest sulla costa settentrionale.

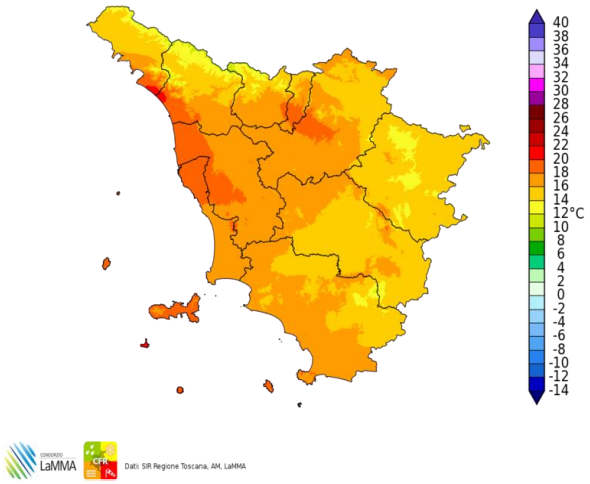
Mari: poco mossi.

Temperature: stazionarie.

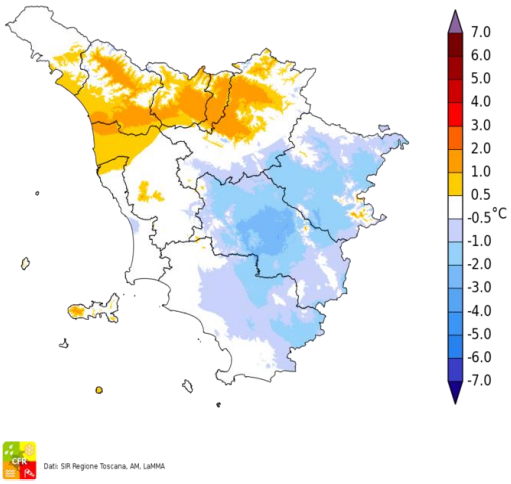
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	15	18	15	21	18	20	18	18	20	17
	anomalia*	3	4	1	4	3	4	3	4	4	2
T. max	osservata	28	32	30	27	29	26	28	29	31	31
	anomalia*	2	4	3	2	3	0	2	2	4	6
Precipitazione (mm/24ore)		0	0	0	2	0	0	0	0	0	0

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

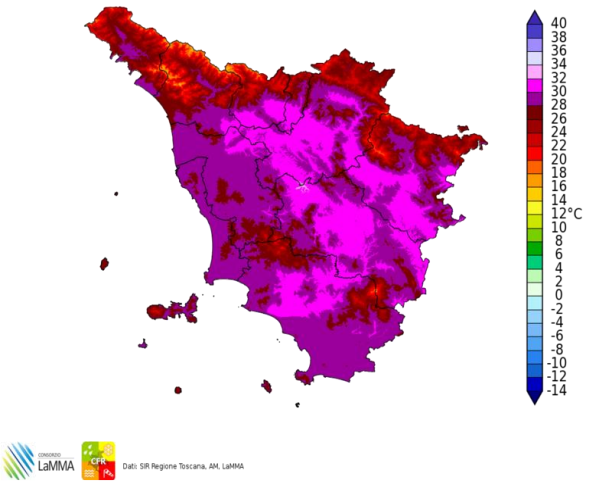
Temperatura Minima del 15/09/2018



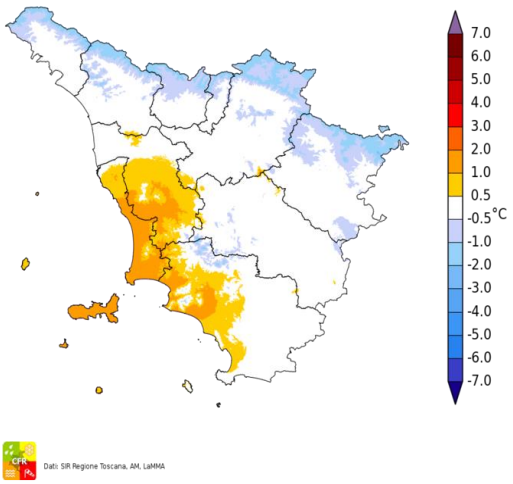
Differenza della Temperatura Minima tra 15/09/2018 e 14/09/2018



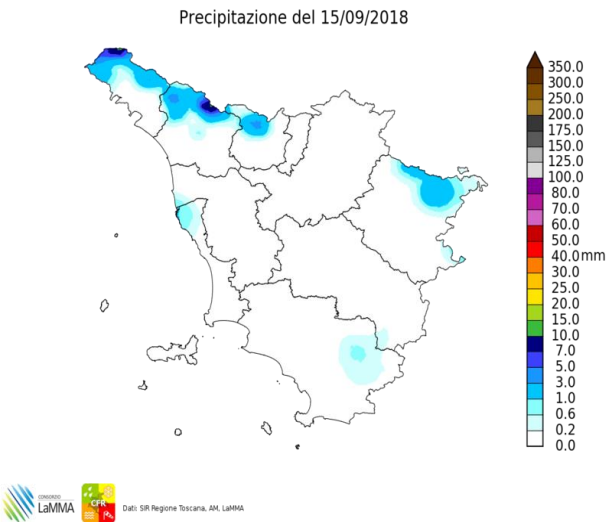
Temperatura Massima del 15/09/2018



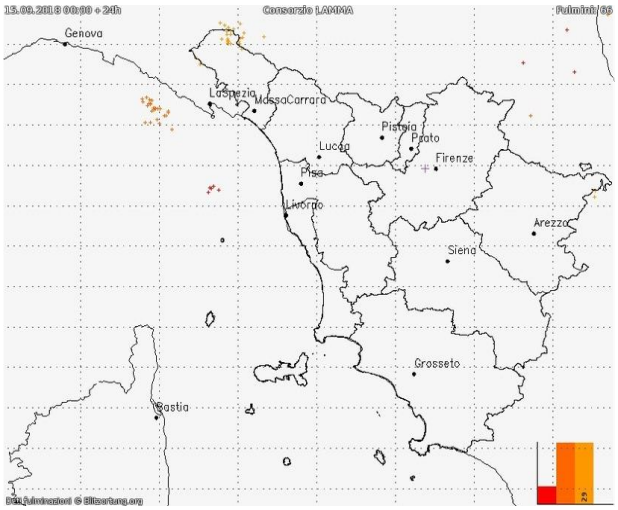
Differenza della Temperatura Massima tra 15/09/2018 e 14/09/2018



Precipitazione del 15/09/2018

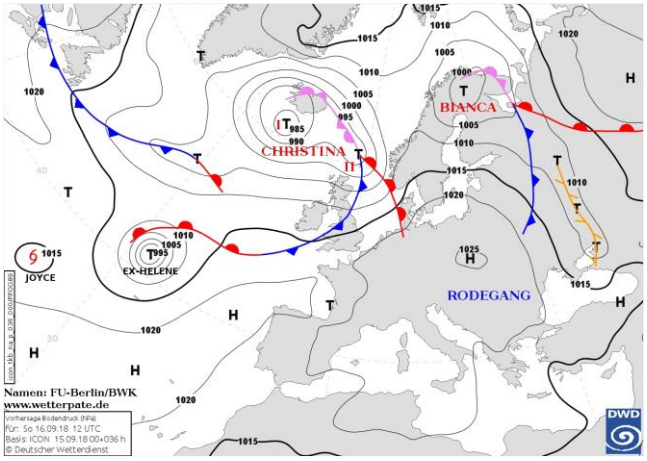


Fulminazioni osservate il giorno 15 Settembre

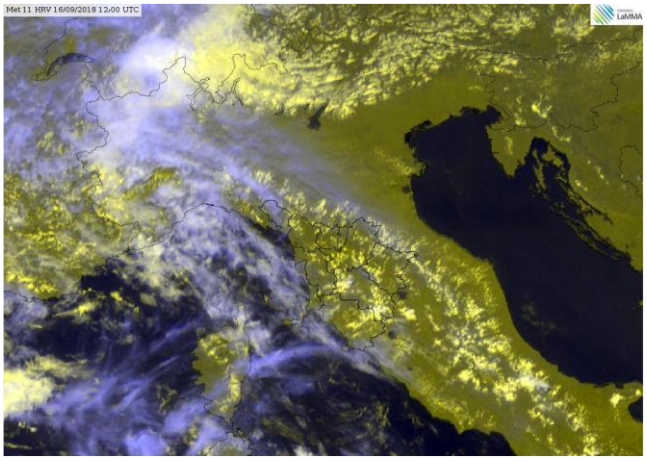


Domenica 16 Settembre 2018

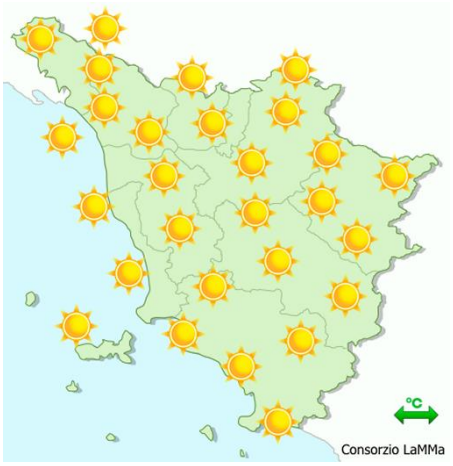
Situazione: un robusto campo di alta pressione domina la scena sul Mediterraneo, proteggendo la nostra penisola dal transito di fronti perturbati; infiltrazioni di aria fresca in quota favoriscono tuttavia locali condizioni di instabilità sui rilievi.



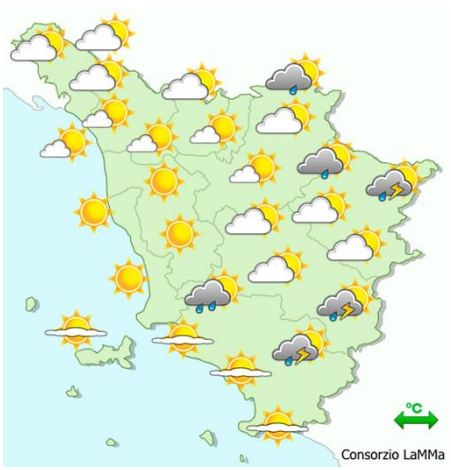
Pressione al suolo e fronti del 16 Settembre alle 12 UTC


Meteosat HRV del 16 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: poco nuvoloso al mattino, con sviluppo di nubi termoconvettive nel pomeriggio sulle zone interne fino a cielo nuvoloso o molto nuvoloso.

Fenomeni: rovesci e temporali sparsi sui settori Appenninici e sui rilievi collinari centro meridionali.

Venti: deboli variabili, a regime di brezza lungo la costa.

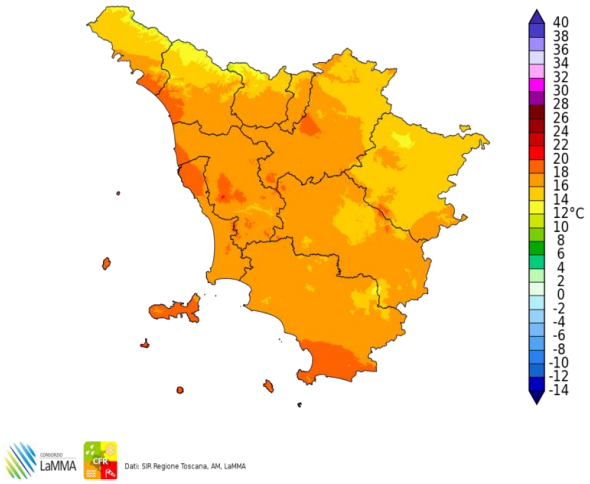
Mari: poco mossi.

Temperature: ancora superiori alle medie.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	16	17	16	21	17	19	17	17	19	18
	anomalia*	4	2	1	4	3	3	2	3	4	3
T. max	osservata	30	32	28	27	30	27	29	30	31	30
	anomalia*	4	5	1	2	4	0	4	3	4	6
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

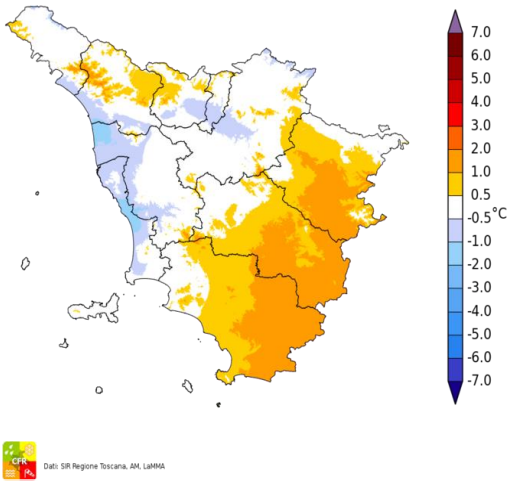
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 16/09/2018



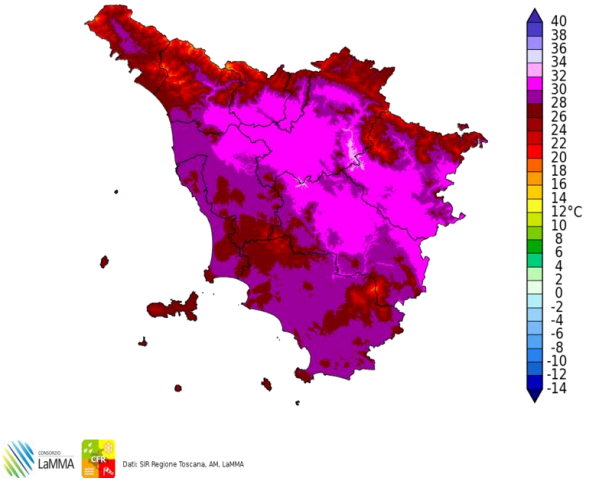
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 16/09/2018 e 15/09/2018



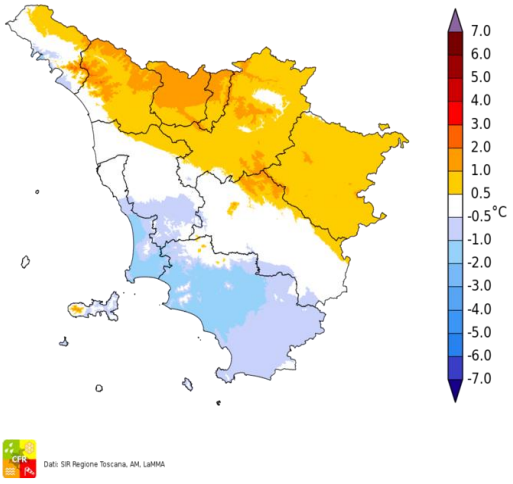
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 16/09/2018



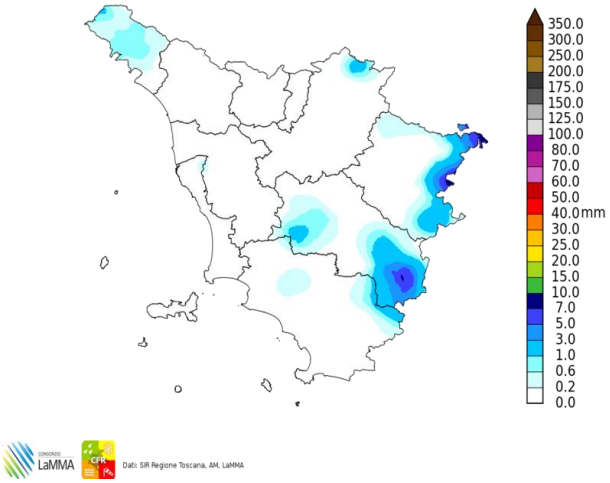
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 16/09/2018 e 15/09/2018



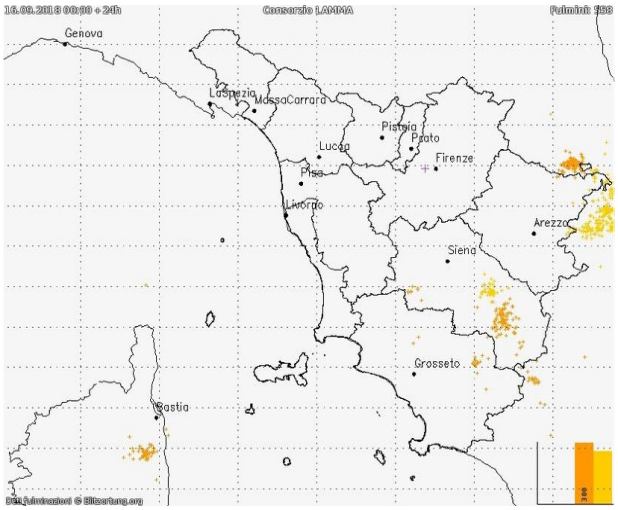
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 16/09/2018



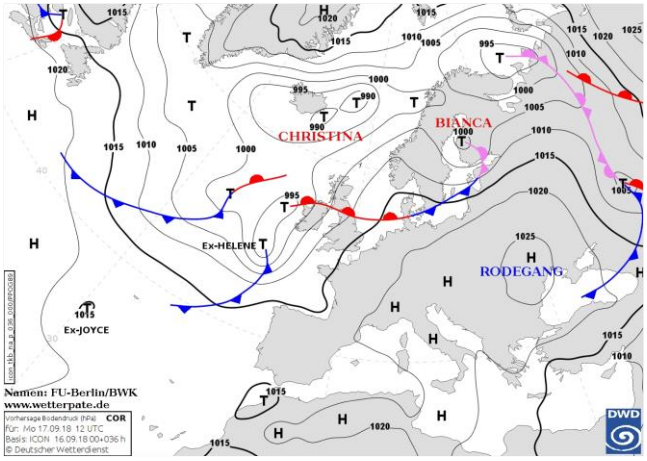
Dati: SIR Regione Toscana, AM, LaMMA

Fulminazioni osservate il giorno 16 Settembre

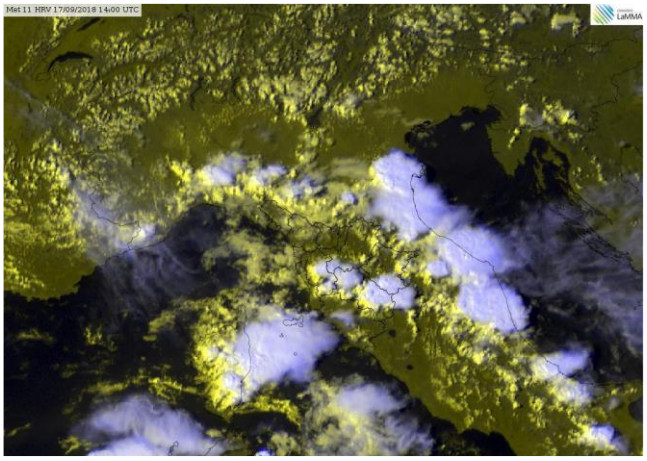


Lunedi' 17 Settembre 2018

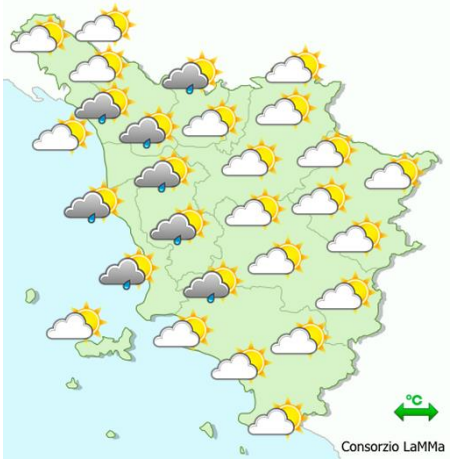
Situazione: alta pressione sul Mediterraneo con infiltrazioni di aria fresca alla media troposfera che favoriscono un aumento dell'instabilità sulla nostra penisola.



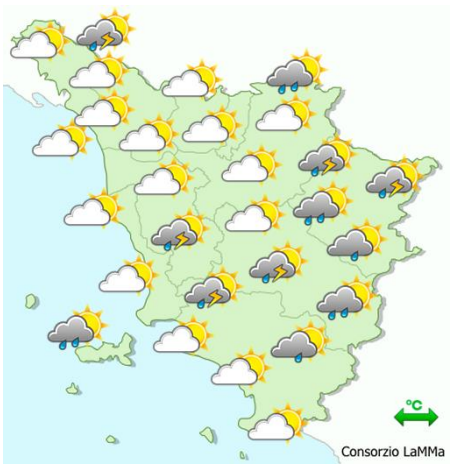
Pressione al suolo e fronti del 17 Settembre alle 12 UTC


Meteosat HRV del 17 Settembre alle 14 UTC

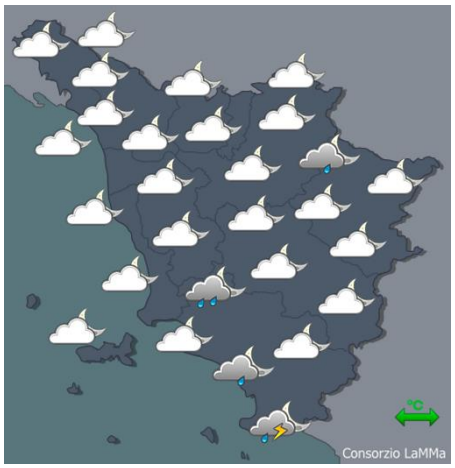
situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: nuvolosità irregolare a tratti intensa, più consistente al mattino in prossimità della costa, nell'interno dal pomeriggio.

Fenomeni: rovesci e temporali sparsi, localmente forti nel pomeriggio sulle zone interne. Massimi tra 50 e 60 mm in poco tempo su colline pisane, senese e aretino.

Venti: deboli meridionali.

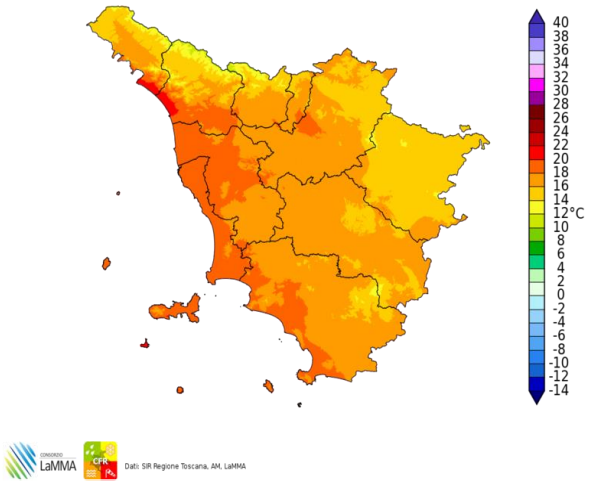
Mari: poco mossi.

Temperature: minime in aumento sulla costa, massime in calo.

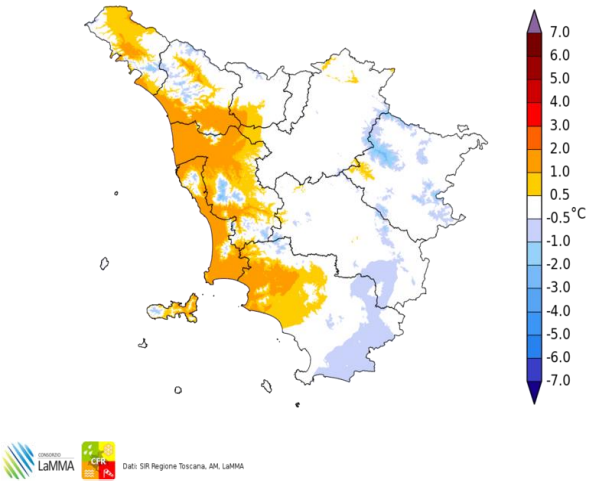
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	16	17	17	21	19	20	18	18	19	18
	anomalia*	4	3	2	4	5	4	4	4	4	3
T. max	osservata	28	31	29	27	29	27	29	29	30	30
	anomalia*	2	4	2	2	3	0	3	2	3	5
Precipitazione (mm/24ore)		1	0	0	2	0	0	3	0	0	4

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

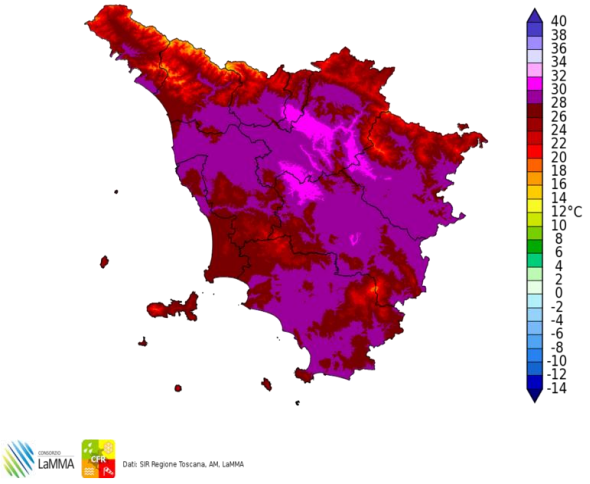
Temperatura Minima del 17/09/2018



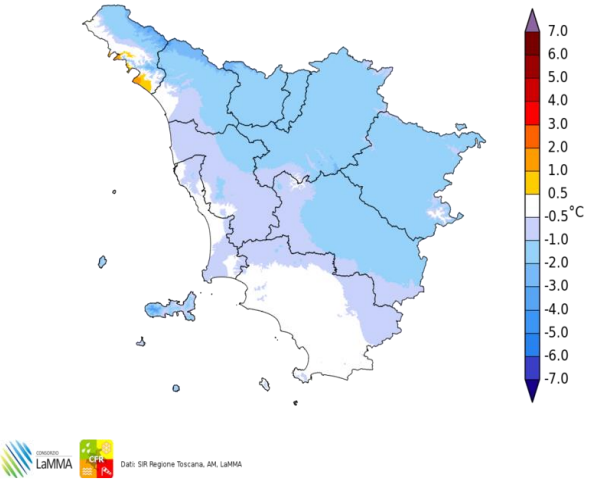
Differenza della Temperatura Minima tra 17/09/2018 e 16/09/2018



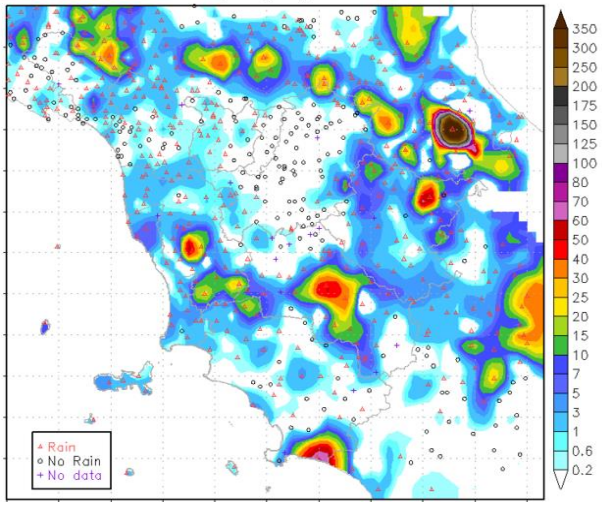
Temperatura Massima del 17/09/2018



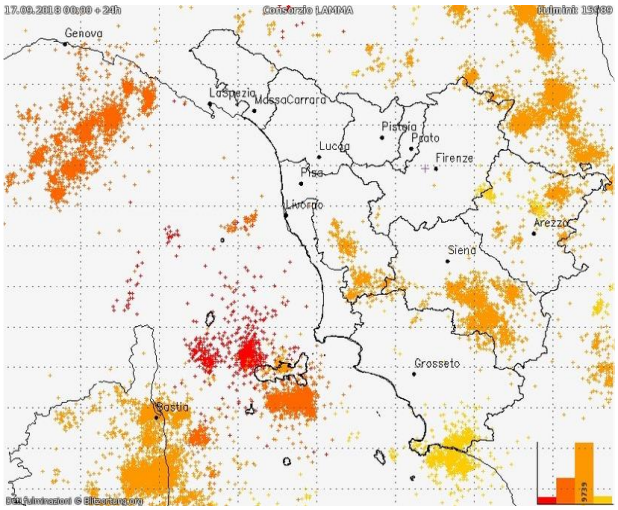
Differenza della Temperatura Massima tra 17/09/2018 e 16/09/2018



Total Precipitation [mm] cumulated on Mon, 17/09/2018

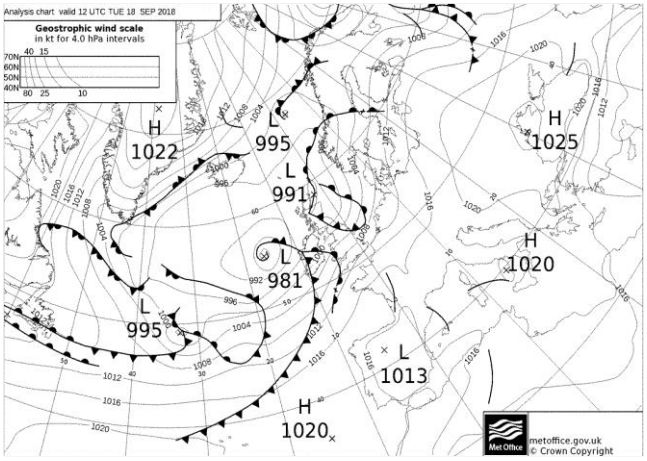


Fulminazioni osservate il giorno 17 Settembre

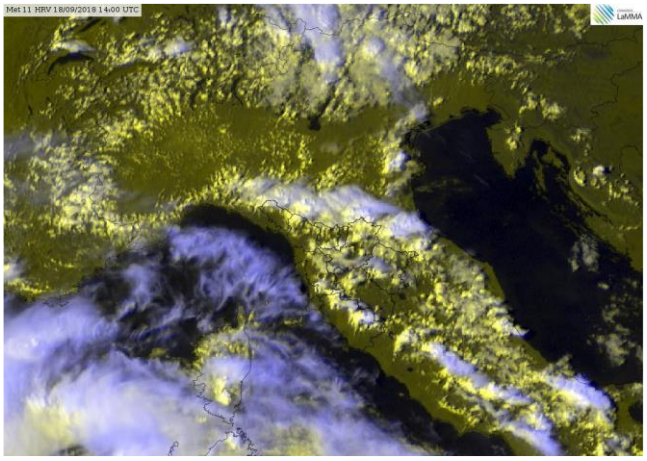


Martedi' 18 Settembre 2018

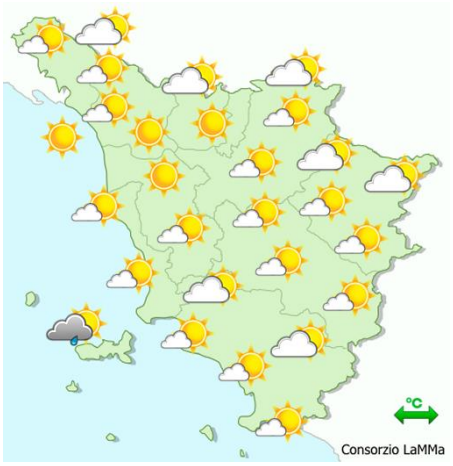
Situazione: alta pressione sul Mediterraneo con infiltrazioni di aria fresca alla media troposfera che favoriscono locali condizioni di instabilità sulla penisola.



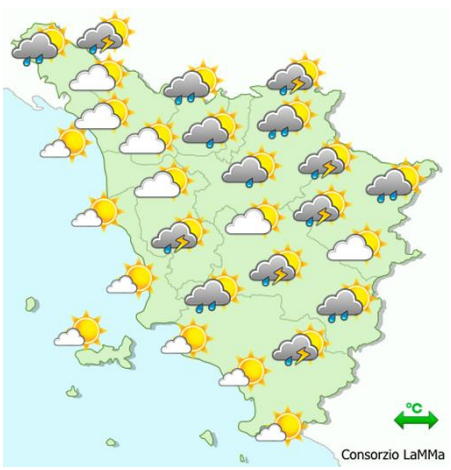
Pressione al suolo e fronti del 18 Settembre alle 12 UTC


Meteosat HRV del 18 Settembre alle 14 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: poco nuvoloso in mattinata (nuvoloso all'Elba). Nuvoloso nel pomeriggio e nella prima parte della sera.

Fenomeni: deboli piogge in mattinata all'Elba. Temporali sparsi nell'interno (soprattutto Appennino e province di Grosseto, Pisa, Siena, Arezzo e Firenze).

Venti: deboli meridionali o assenti.

Mari: poco mossi.

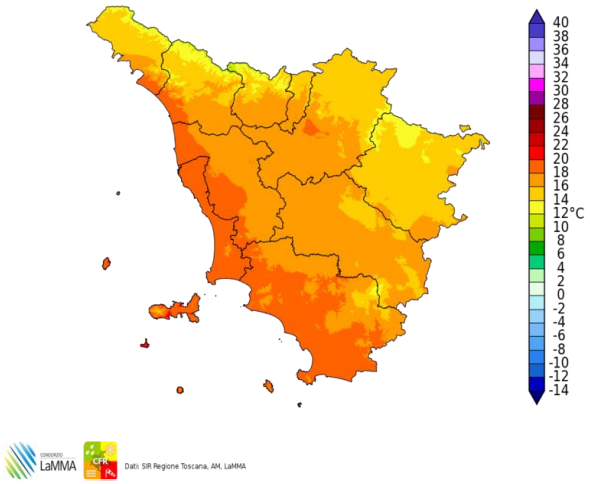
Temperature: pressoché stazionarie. Massime sui 29-31 gradi nell'interno.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	16	17	18	21	18	20	17	17	19	17
	anomalia*	4	3	3	4	3	4	2	3	3	2
T. max	osservata	27	31	29	29	29	26	29	29	30	28
	anomalia*	2	4	2	4	2	0	3	2	4	3
Precipitazione (mm/24ore)		2	1	0	0	3	0	0	0	0	0

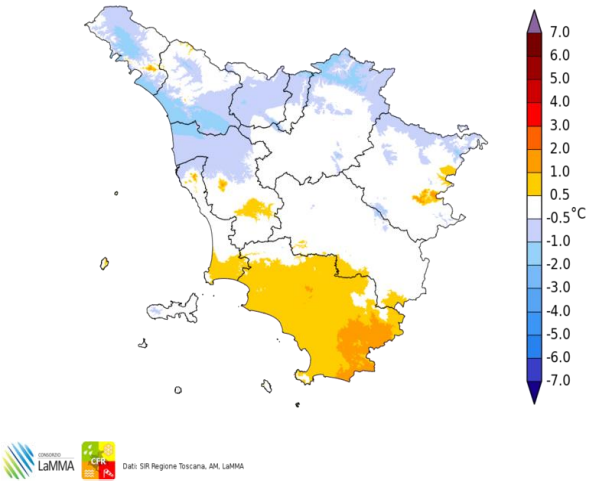
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

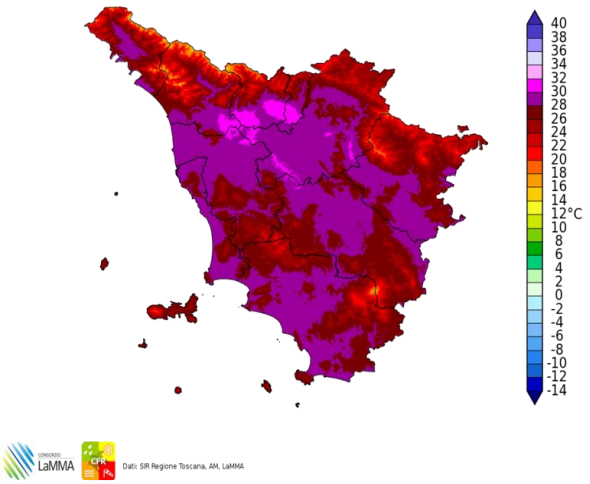
Temperatura Minima del 18/09/2018



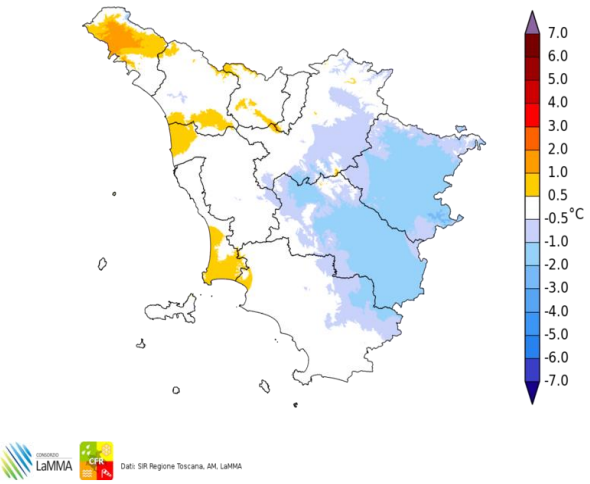
Differenza della Temperatura Minima tra 18/09/2018 e 17/09/2018



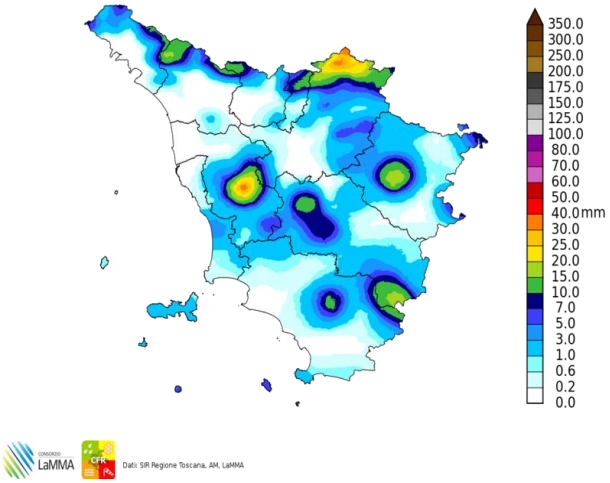
Temperatura Massima del 18/09/2018



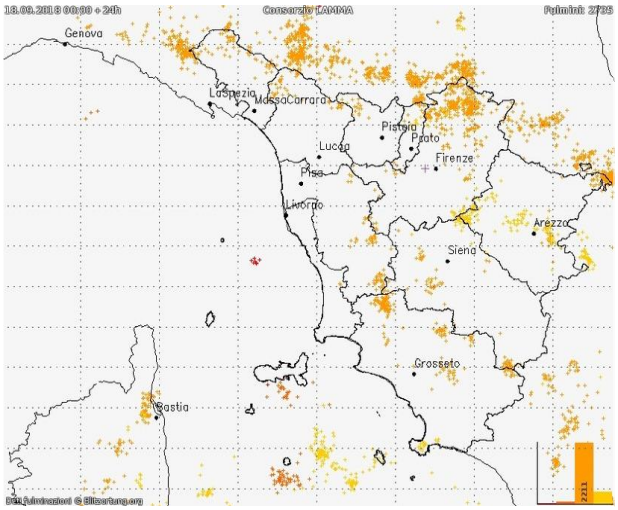
Differenza della Temperatura Massima tra 18/09/2018 e 17/09/2018



Precipitazione del 18/09/2018

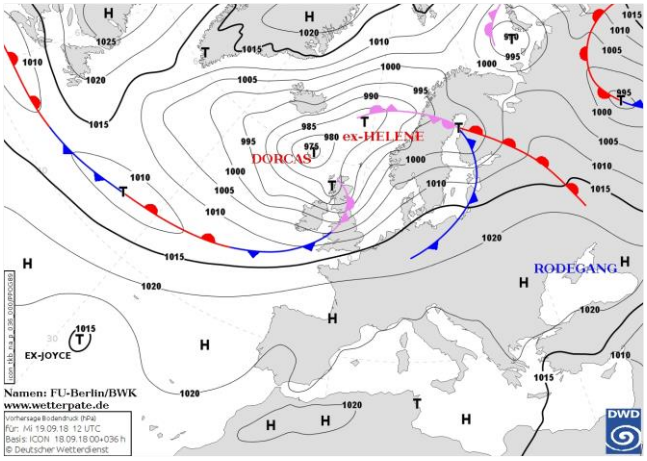


Fulminazioni osservate il giorno 18 Settembre

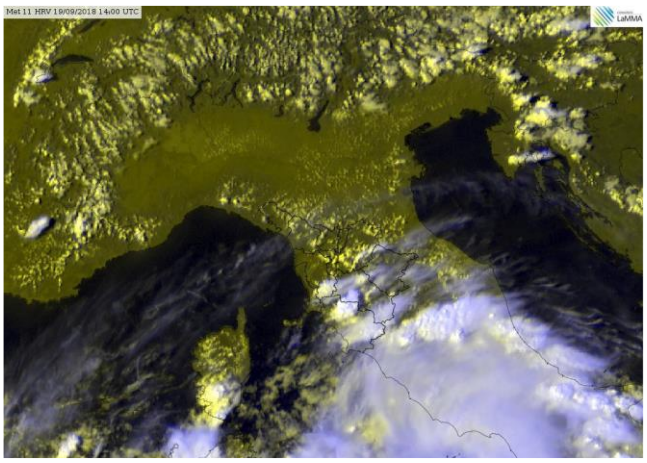


Mercoledi' 19 Settembre 2018

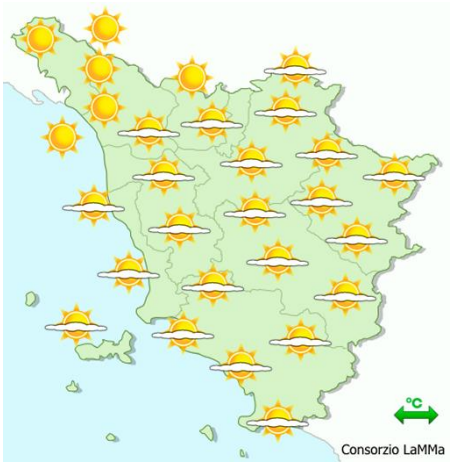
Situazione: pressione livellata attorno a 1016 hPa sul Tirreno settentrionale e Golfo Ligure, in calo sul Tirreno centro-meridionale con graduale formazione di un'area depressionaria molto circoscritta a est della Sardegna.



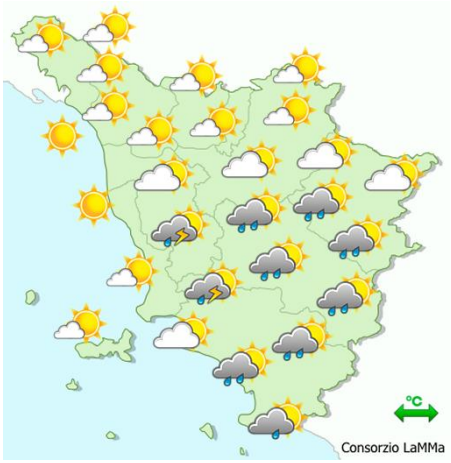
Pressione al suolo e fronti del 19 Settembre alle 12 UTC


Meteosat HRV del 19 Settembre alle 14 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso con moderato incremento della nuvolosità durante le ore centrali della giornata in particolare sulle zone meridionali della regione.

Fenomeni: rovesci sparsi sulle zone centro-meridionali della regione, localmente anche a carattere di temporale.

Venti: deboli da nord-est.

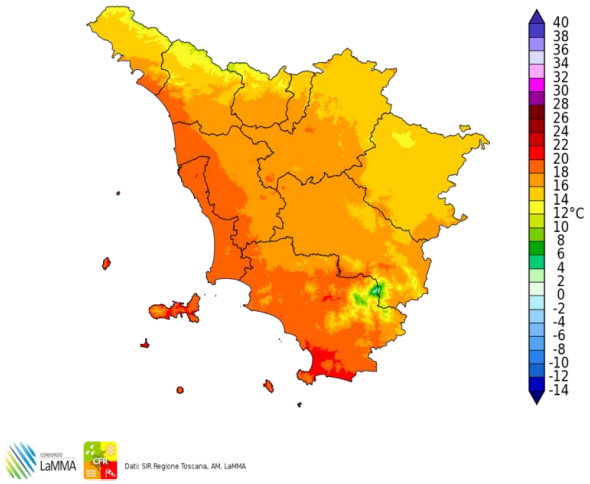
Mari: poco mossi.

Temperature: massime in modesto aumento sulle zone occidentali.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	15	16	20	21	17	19	17	17	18	18
	anomalia*	4	2	5	4	3	3	2	3	3	3
T. max	osservata	27	32	30	28	30	28	30	30	30	30
	anomalia*	1	5	3	2	4	2	4	3	4	5
Precipitazione (mm/24ore)		0	0	8	0	0	0	0	0	0	7

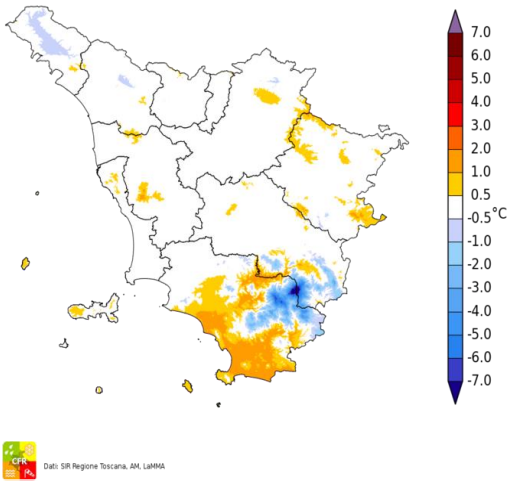
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 19/09/2018



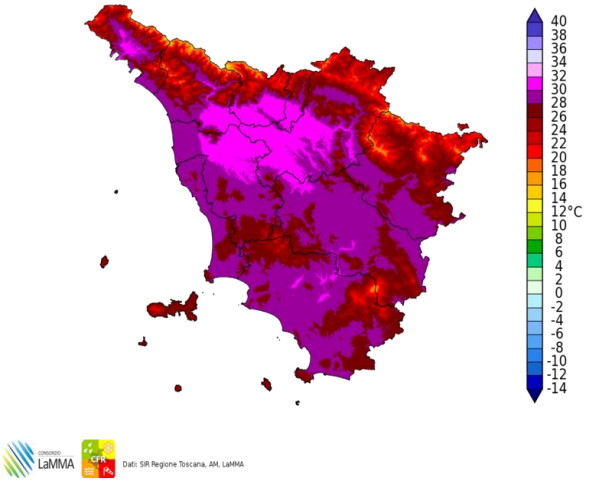
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 19/09/2018 e 18/09/2018



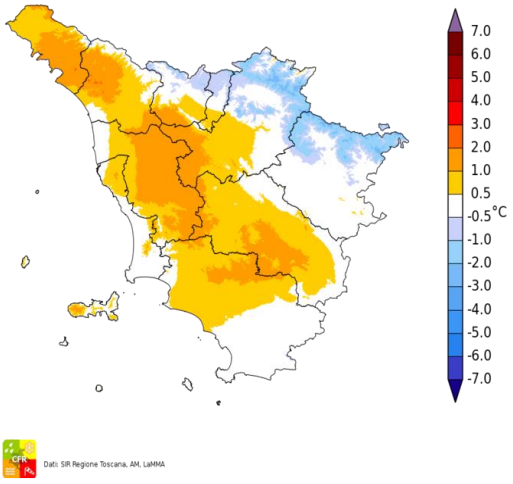
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 19/09/2018



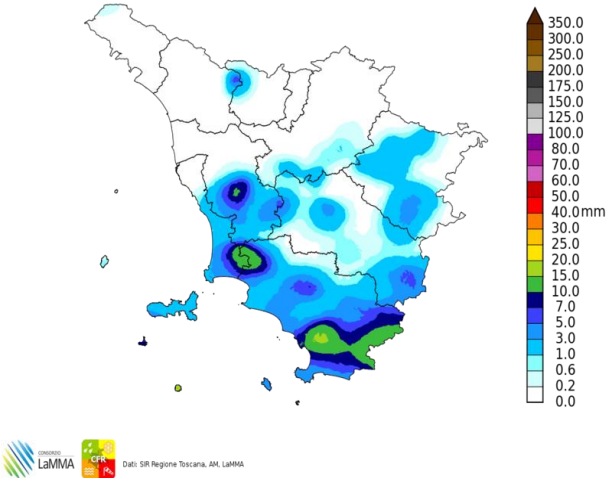
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 19/09/2018 e 18/09/2018



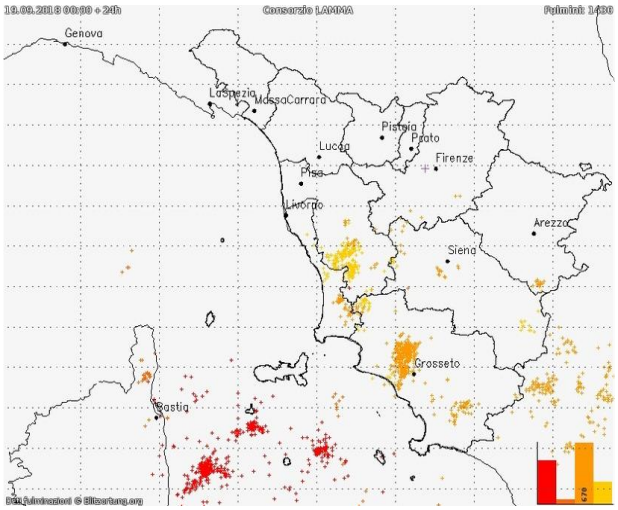
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 19/09/2018



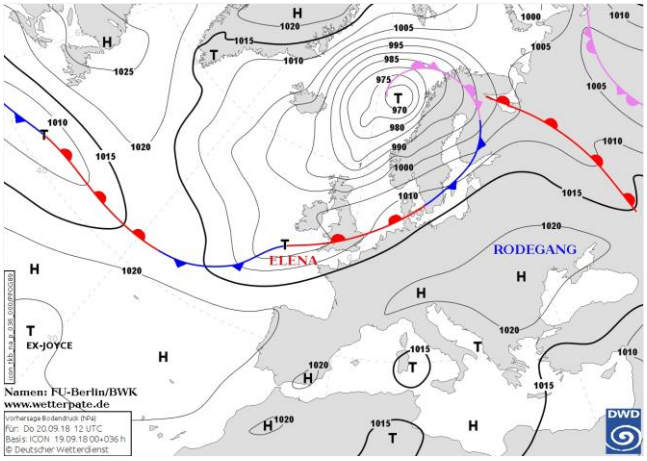
Dati: SIR Regione Toscana, AM, LaMMA

Fulminazioni osservate il giorno 19 Settembre

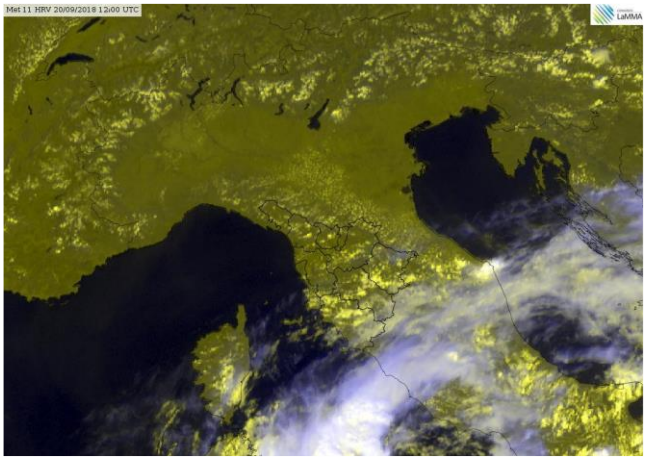


Giovedi' 20 Settembre 2018

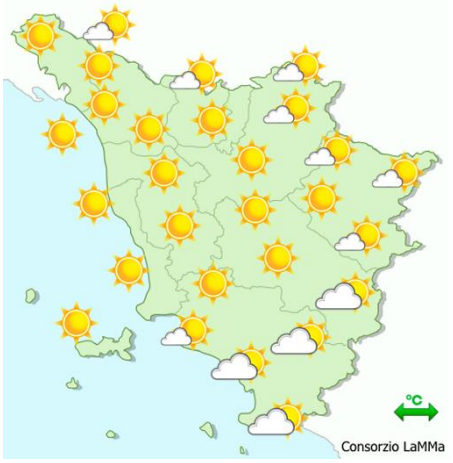
Situazione: una perturbazione sul Tirreno meridionale porta maltempo sulle isole maggiori e locale instabilità anche in Toscana.



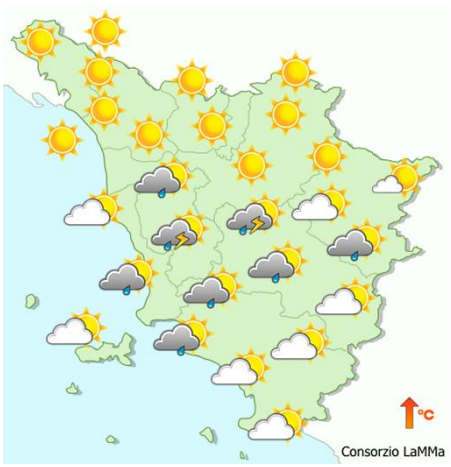
Pressione al suolo e fronti del 20 Settembre alle 12 UTC


Meteosat HRV del 20 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso al nord, nuvoloso al centro-sud.

Fenomeni: locali rovesci o brevi temporali sulle zone centrali nel pomeriggio.

Venti: deboli-moderati da nord-est, temporaneamente da nord-ovest sulla costa nel pomeriggio.

Mari: poco mossi, localmente mossi sull'Arcipelago meridionale.

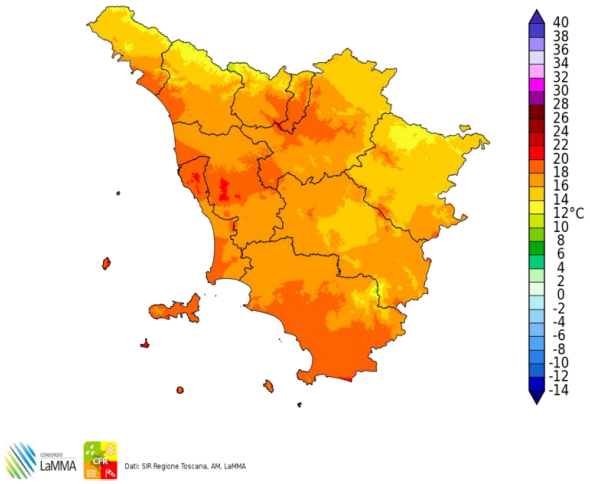
Temperature: stazionarie le minime, in aumento le massime sulla fascia costiera con valori superiori a 30 °C.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	16	18	17	22	17	19	17	18	21	18
	anomalia*	4	3	3	4	3	3	2	4	6	4
T. max	osservata	29	32	30	30	32	28	30	30	30	29
	anomalia*	3	5	3	6	5	2	4	4	4	4
Precipitazione (mm/24ore)		0	0	2	0	0	0	0	0	0	0

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

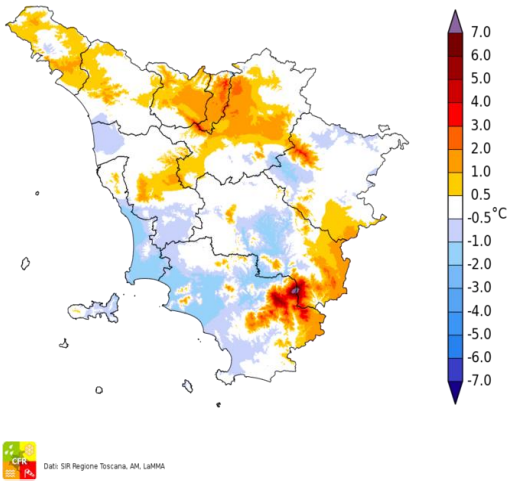
Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 20/09/2018



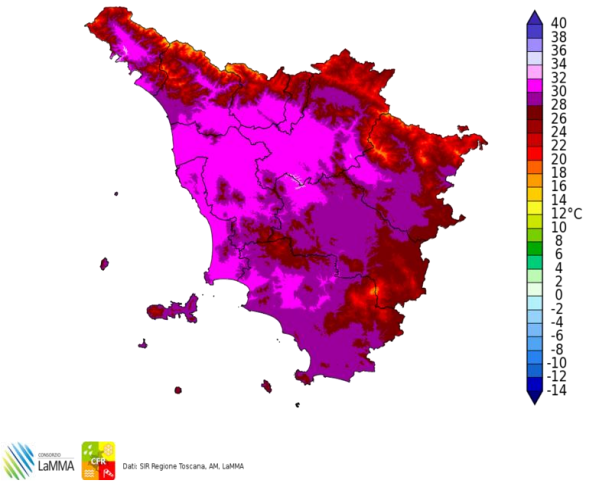
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 20/09/2018 e 19/09/2018



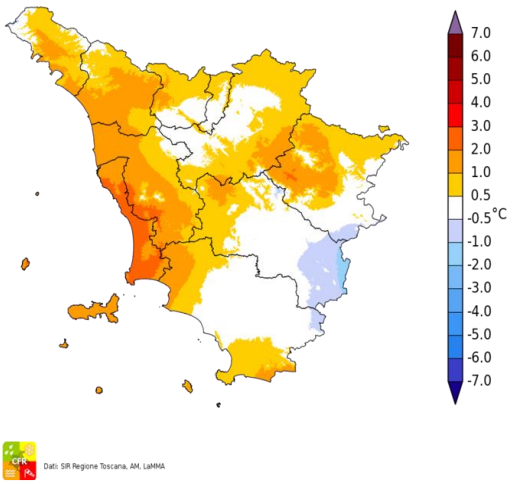
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 20/09/2018



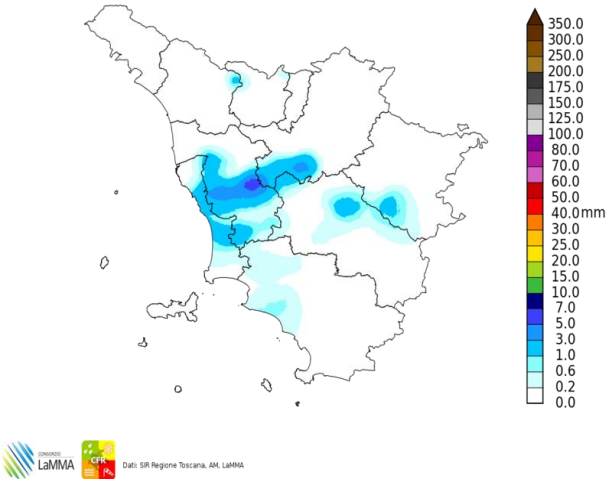
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 20/09/2018 e 19/09/2018



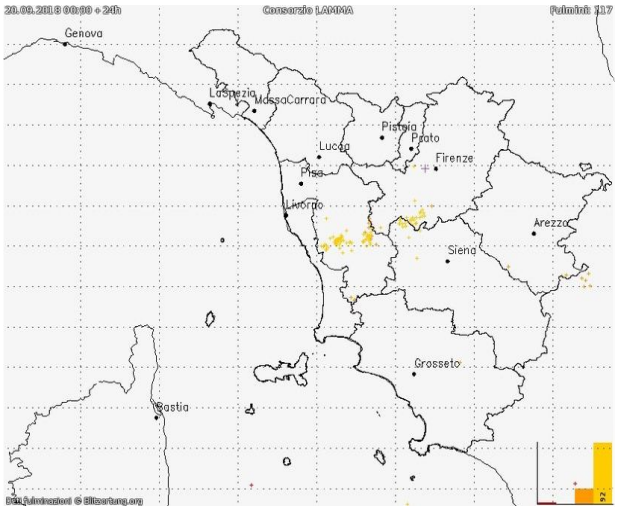
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 20/09/2018



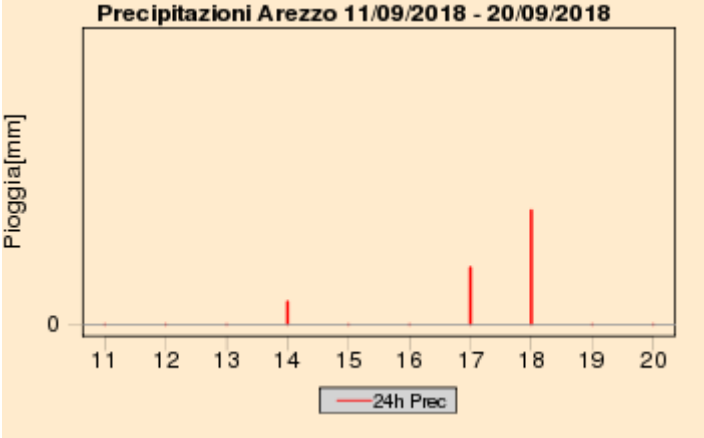
Dati: SIR Regione Toscana, AM, LaMMA

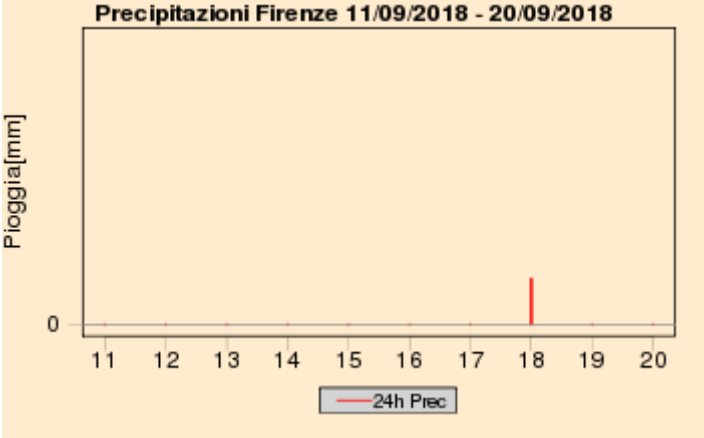
Fulminazioni osservate il giorno 20 Settembre

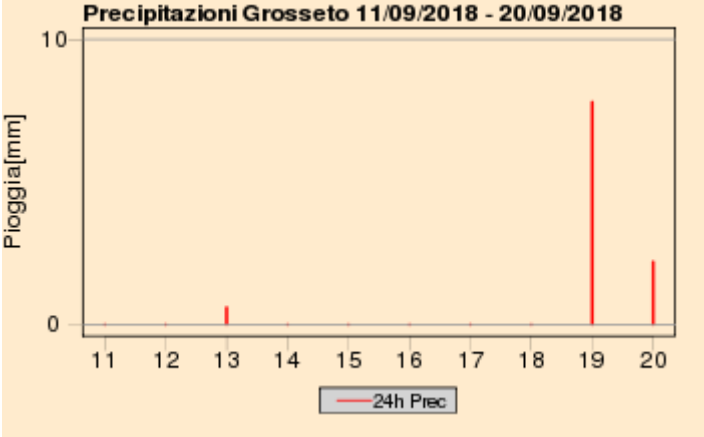


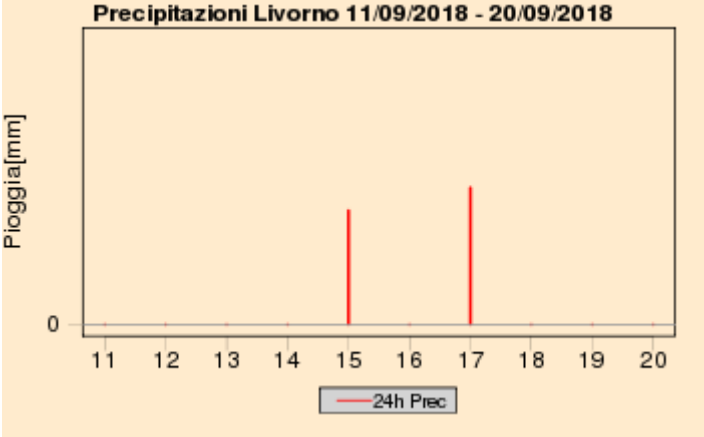
II decade - Quadro regionale – Precipitazioni

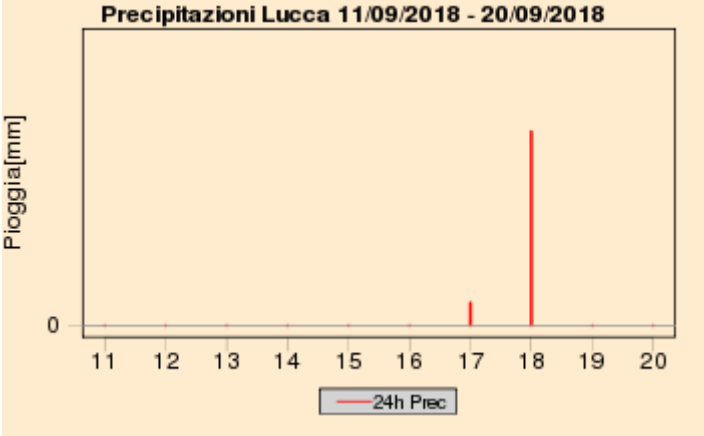
La seconda decade di Settembre è stata prevalentemente caratterizzata da condizioni di alta pressione o da flussi nord orientali che hanno favorito un clima prevalentemente fresco e asciutto, con poche precipitazioni. Le piogge più rilevanti sono stati locali rovesci e temporali a carattere sparso che hanno interessato in prevalenza i settori appenninici e le zone centro meridionali sul finire della decade; su alcune di queste zone si sono localmente raggiunti e superati i 50 mm decadali, ma su gran parte del territorio i cumulati risultano scarsi o addirittura assenti e nel complesso le piogge sono risultate ben inferiori alle medie.

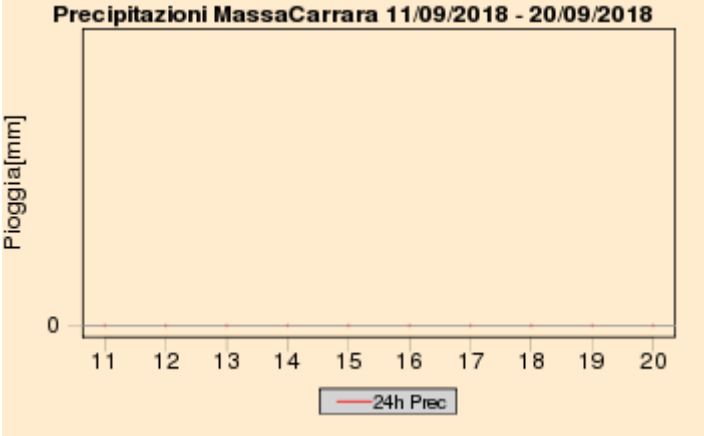


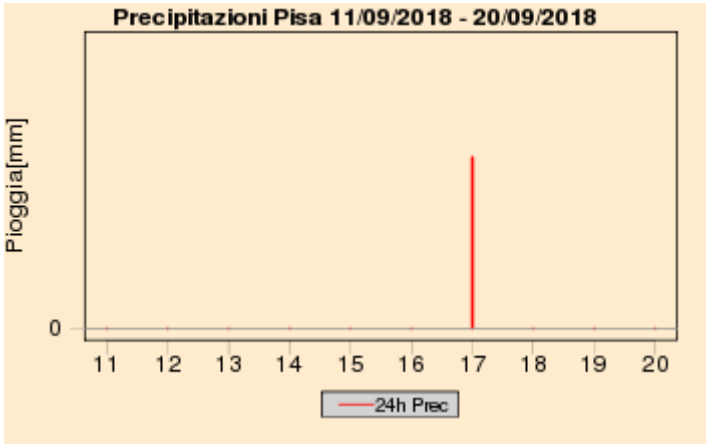


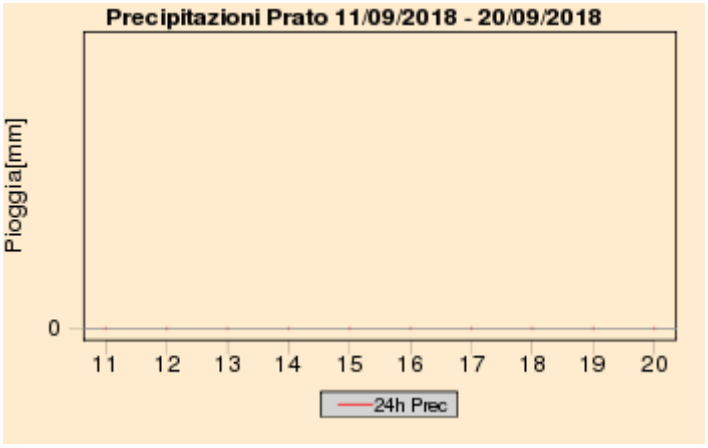




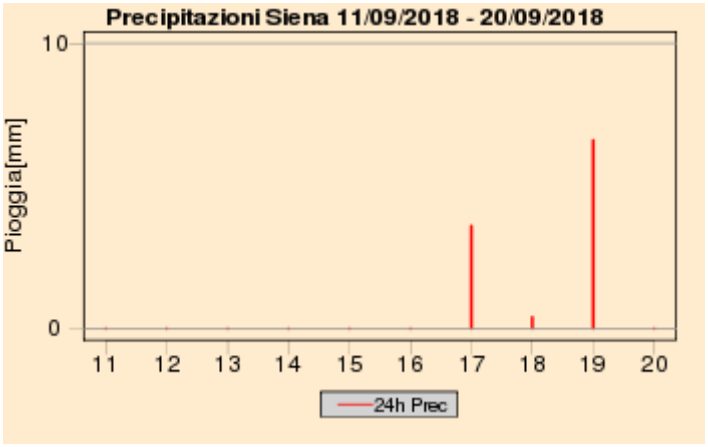




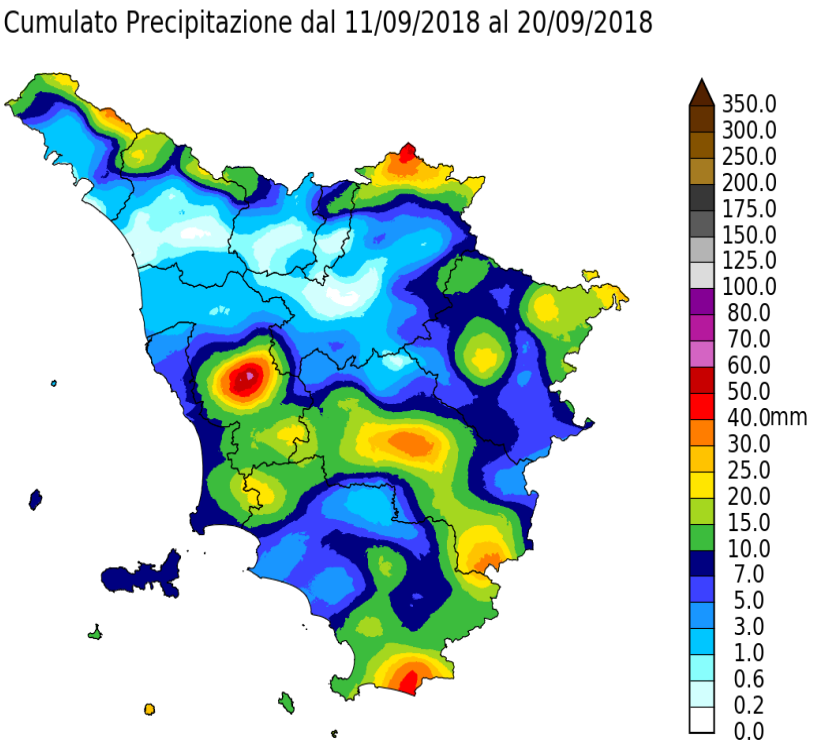






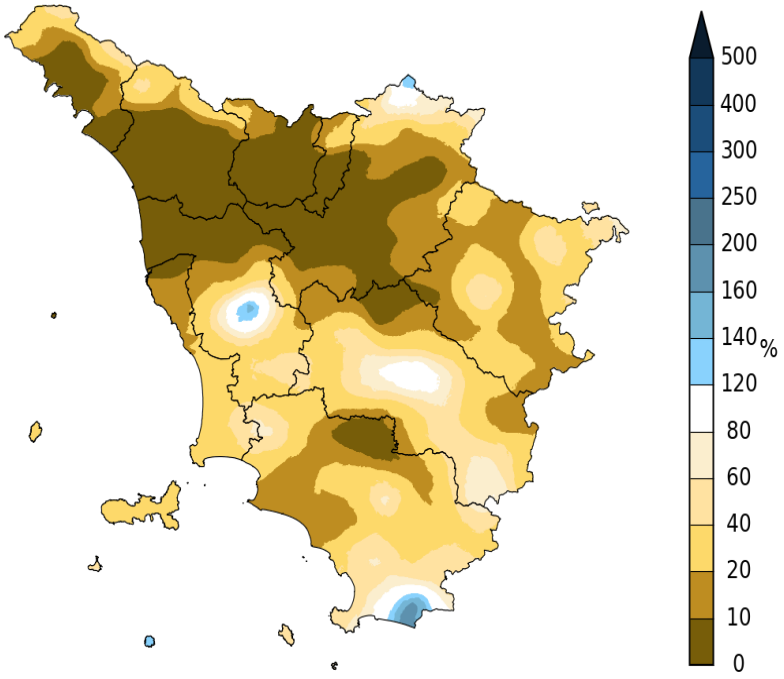


Quadro regionale – Cumulati decadali di precipitazione, anomalia di precipitazione e numero di giorni di pioggia



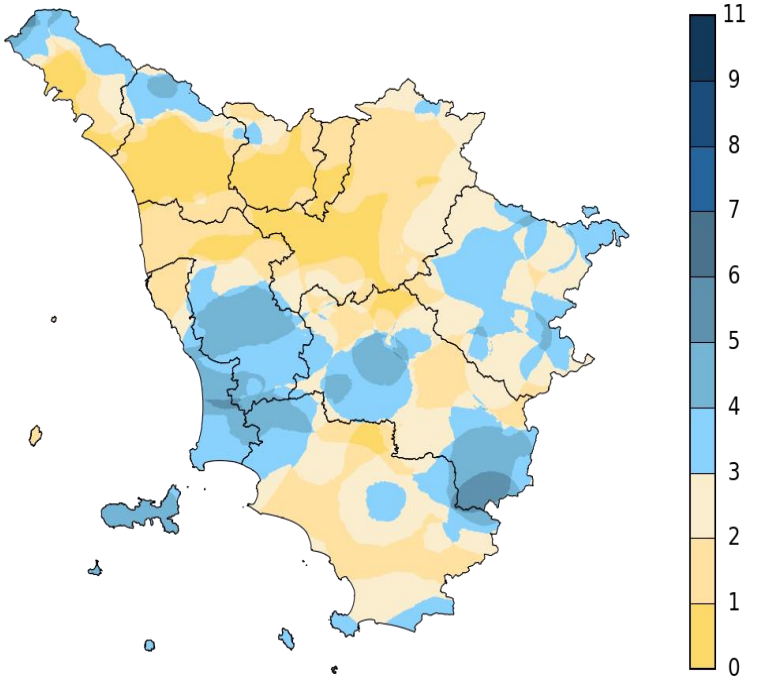
Dati: SIR Regione Toscana, AM, LaMMA

Percentuale di Precipitazione rispetto alla media climatica
dal 11/09/2018 al 20/09/2018



Dati: SIR Regione Toscana, AM, LaMMA

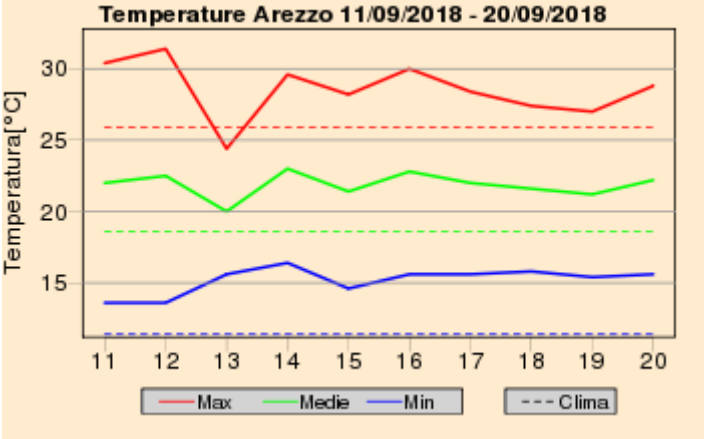
Giorni con Pioggia ≥ di 1 mm dal 11/09/2018 al 20/09/2018

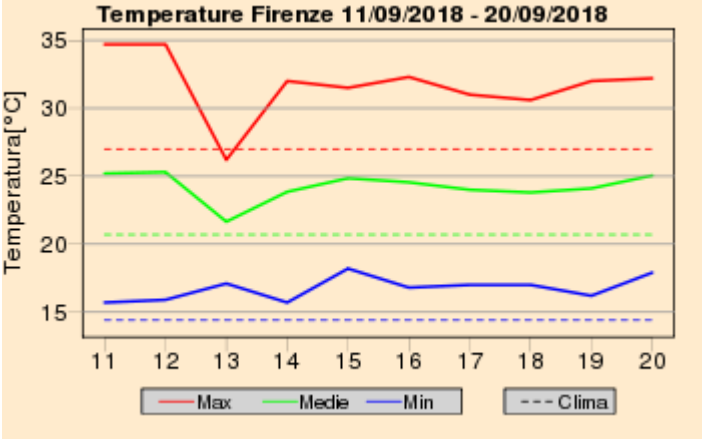


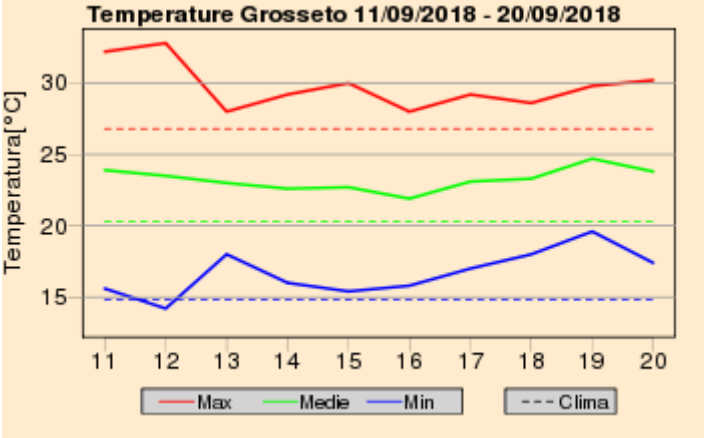
Dati: SIR Regione Toscana, AM, LaMMA

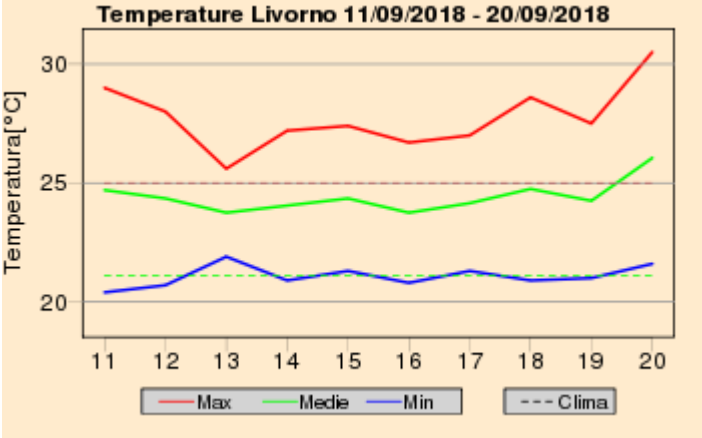
II decade - Quadro regionale - Temperature

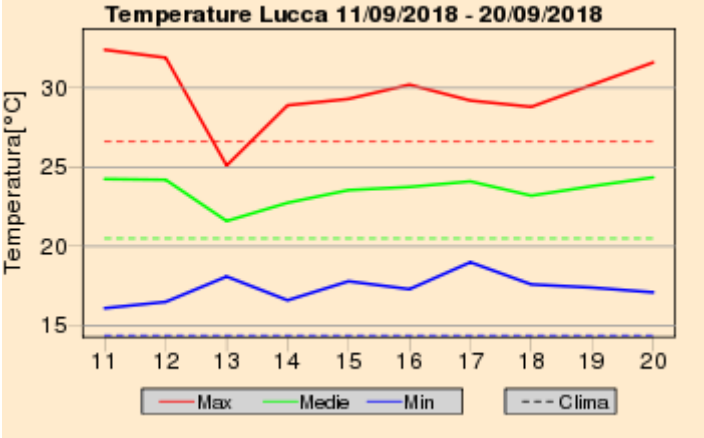
La seconda decade del mese di Settembre ha fatto registrare temperature elevate ben superiori alle medie del periodo; i valori minimi giornalieri si sono mantenuti in pratica costantemente al di sopra dei valori di riferimento climatologico e hanno fatto registrare una anomalia positiva generalmente compresa tra 2 e 3 gradi. Per quanto riguarda i valori massimi, questi si sono mantenuti spesso oltre i 30 gradi in pianura e hanno fatto registrare una anomalia media nei 10 giorni addirittura superiori, fino a 4-5 gradi sulle zone interne della regione.

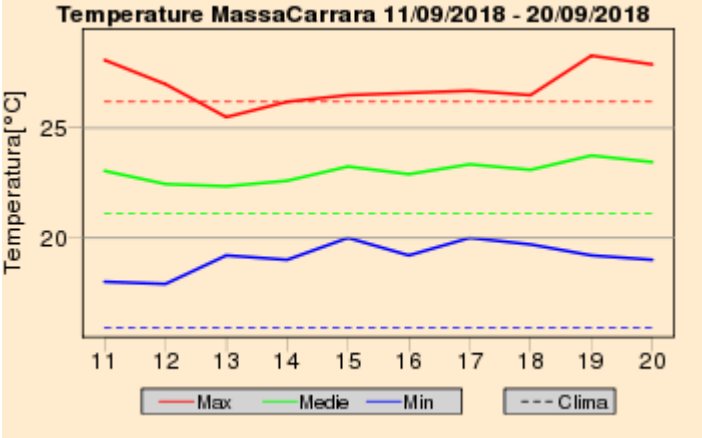


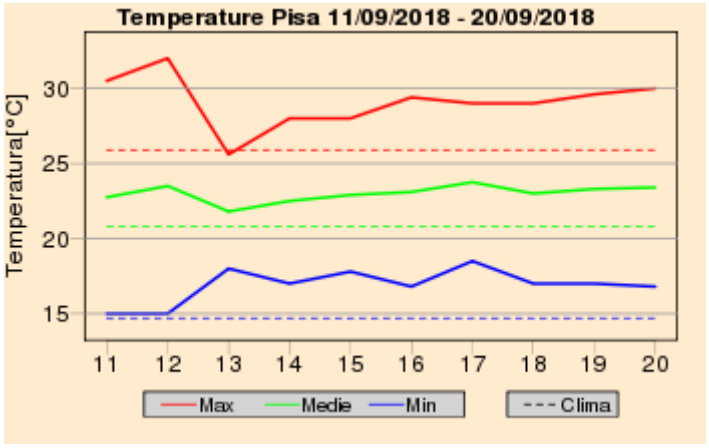


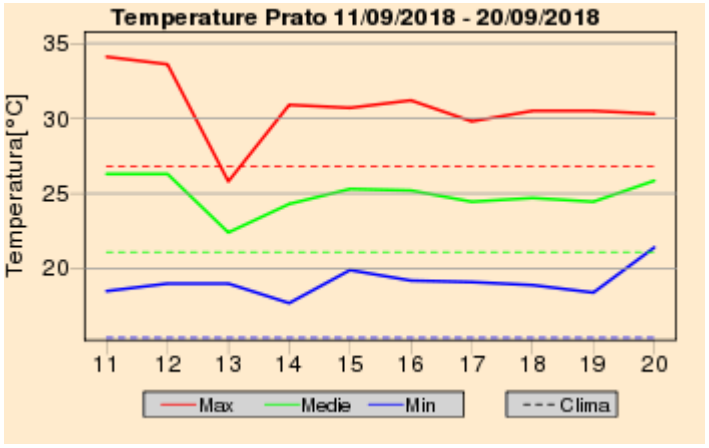


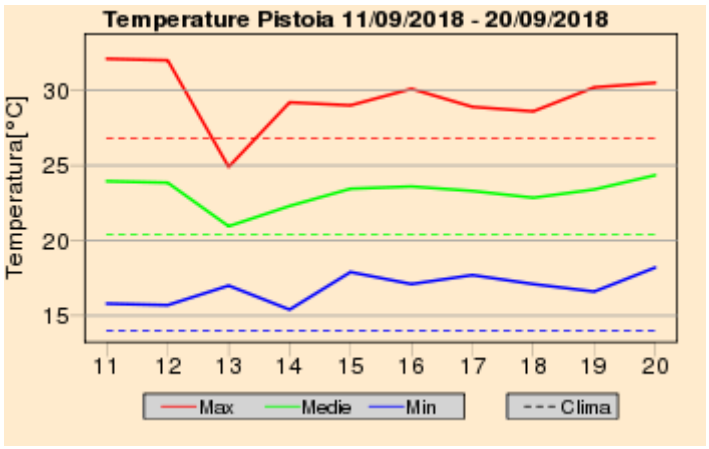


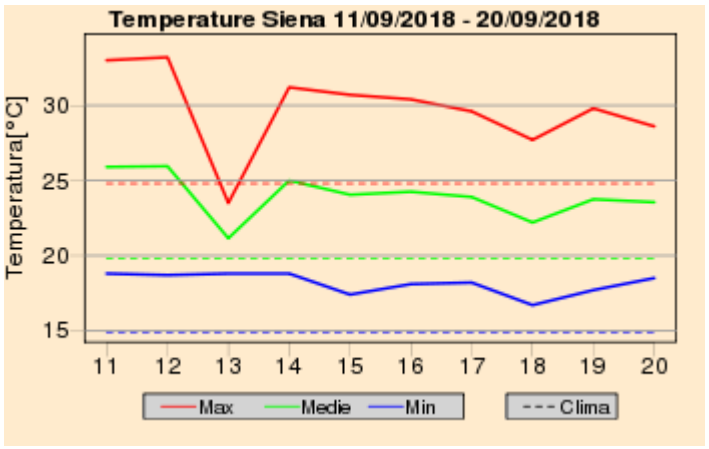




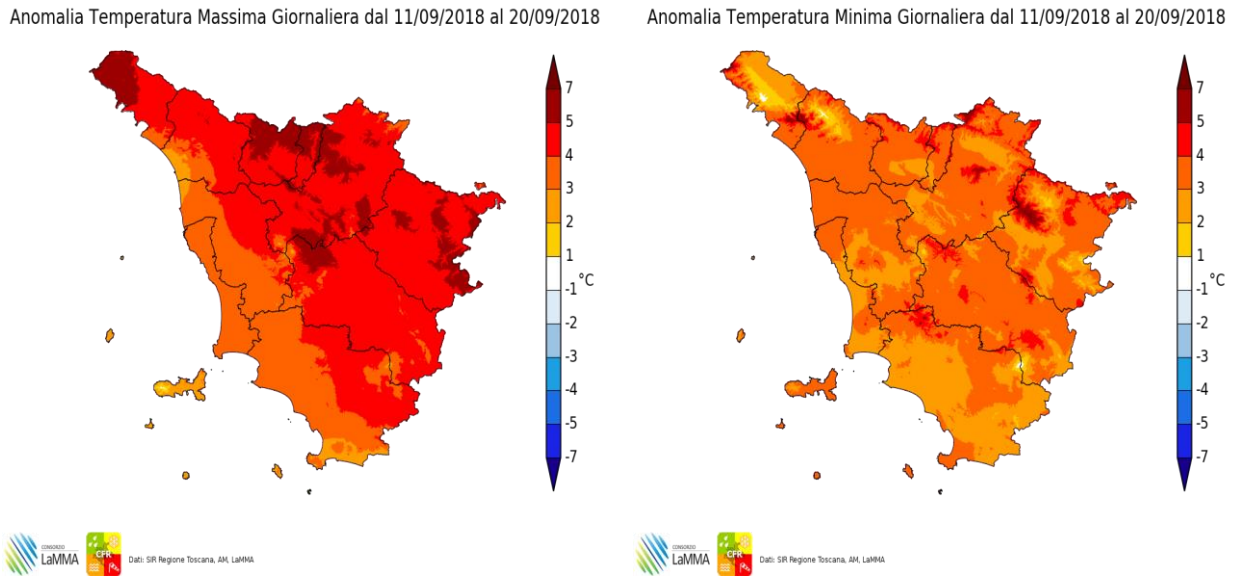








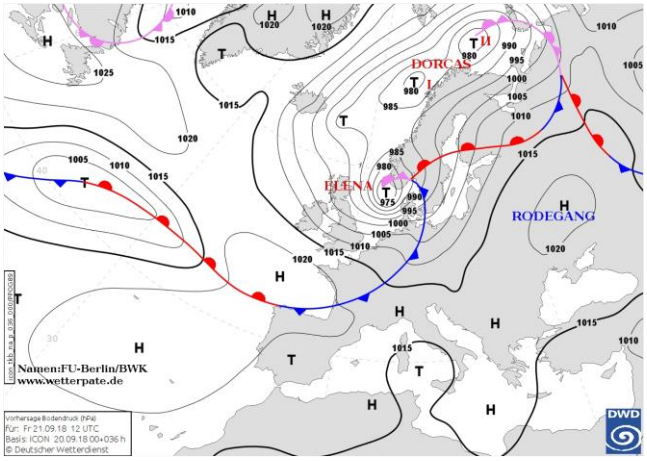
Quadro regionale – Anomalie termiche



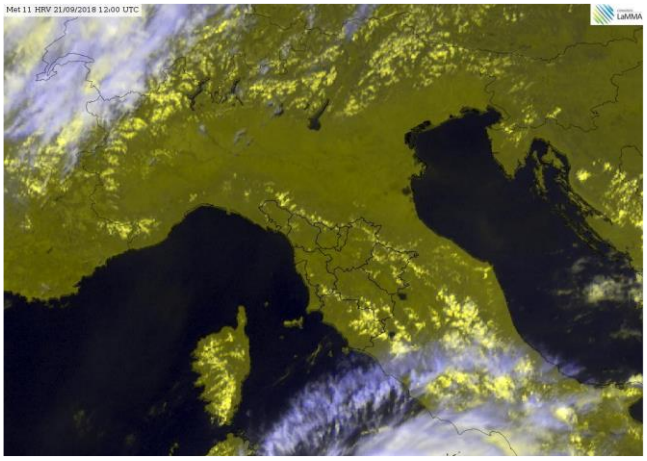
Anomalia termica decadale per le temperature massime e minime giornaliere

Venerdi' 21 Settembre 2018

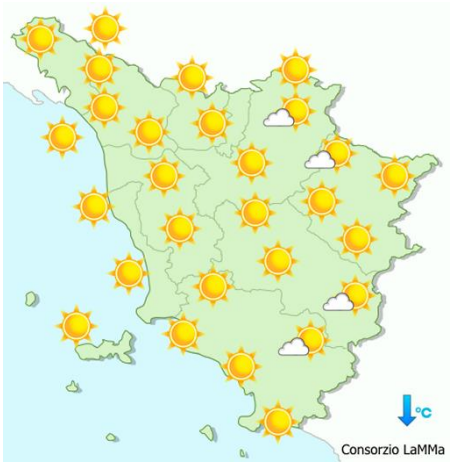
Situazione: una vasta area anticiclonica interessa l'Europa centro-meridionale e gran parte del Mediterraneo. Sul Tirreno tuttavia permane una depressione con minimo a est della Sardegna, in via di graduale colmamento.



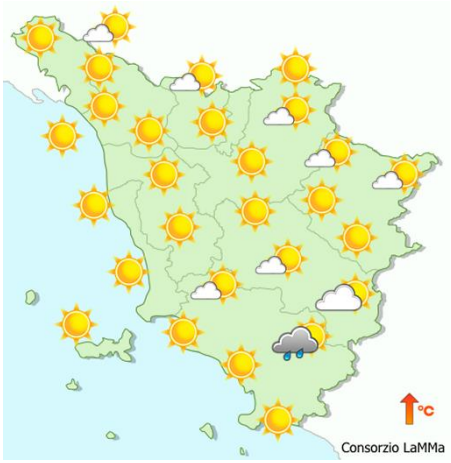
Pressione al suolo e fronti del 21 Settembre alle 12 UTC


Meteosat HRV del 21 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: in prevalenza sereno. Modesti addensamenti sulle zone meridionali della regione.

Fenomeni: rovesci isolati in provincia di Grosseto.

Venti: deboli occidentali, tendenti a divenire meridionali in serata.

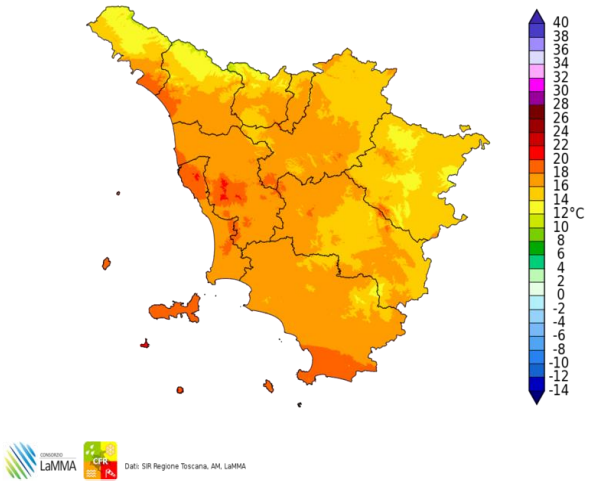
Mari: poco mossi, localmente mossi a sud dell'Elba

Temperature: minime in modesto calo, massime in aumento nelle zone interne. Valori superiori alla media del periodo.

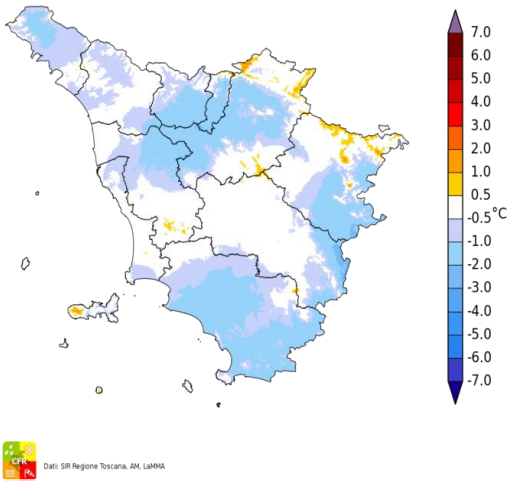
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	14	16	16	21	16	19	17	16	19	18
	anomalia*	4	2	3	4	3	4	3	3	5	4
T. max	osservata	30	33	29	29	31	28	31	31	32	30
	anomalia*	6	8	3	5	6	3	6	6	7	7
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

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

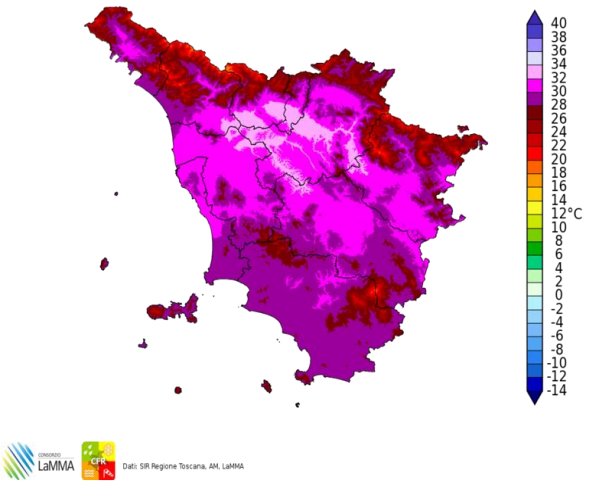
Temperatura Minima del 21/09/2018



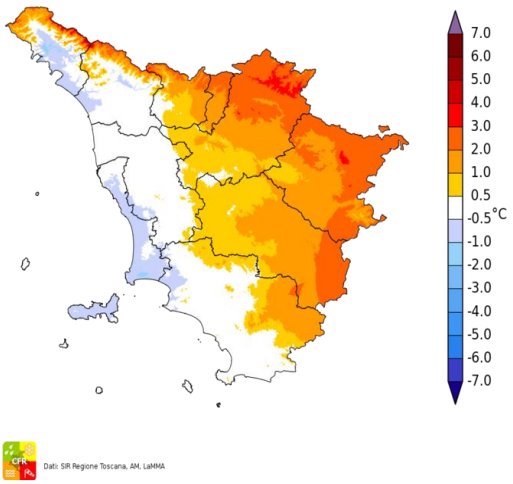
Differenza della Temperatura Minima tra 21/09/2018 e 20/09/2018



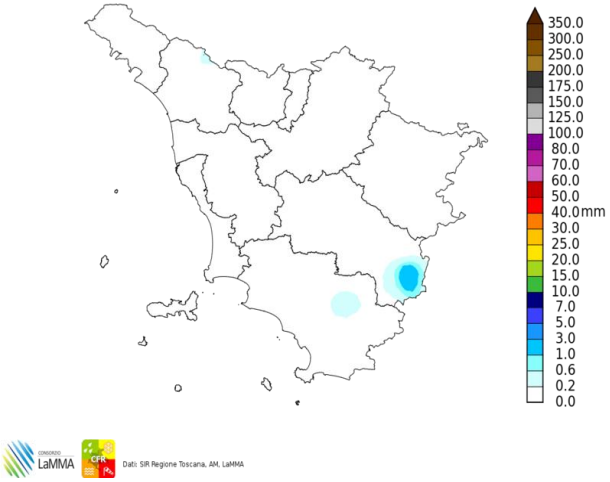
Temperatura Massima del 21/09/2018



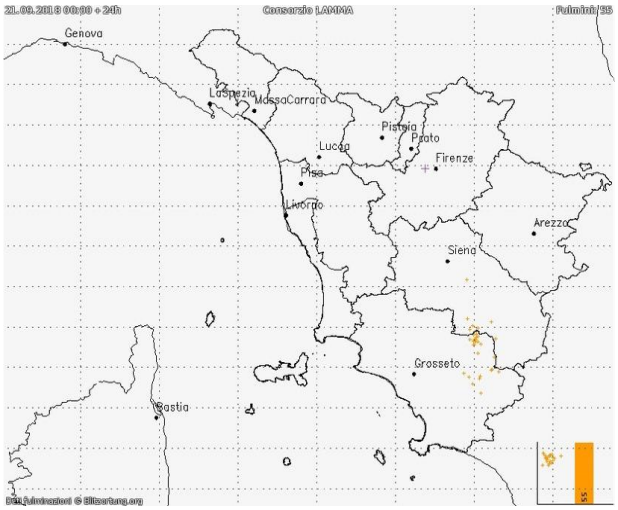
Differenza della Temperatura Massima tra 21/09/2018 e 20/09/2018



Precipitazione del 21/09/2018

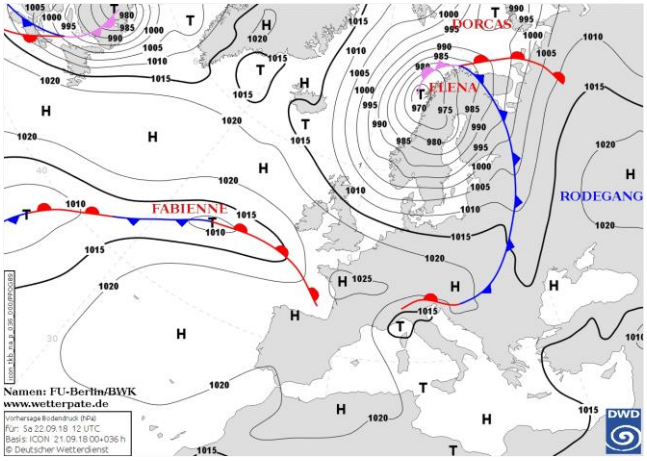


Fulminazioni osservate il giorno 21 Settembre

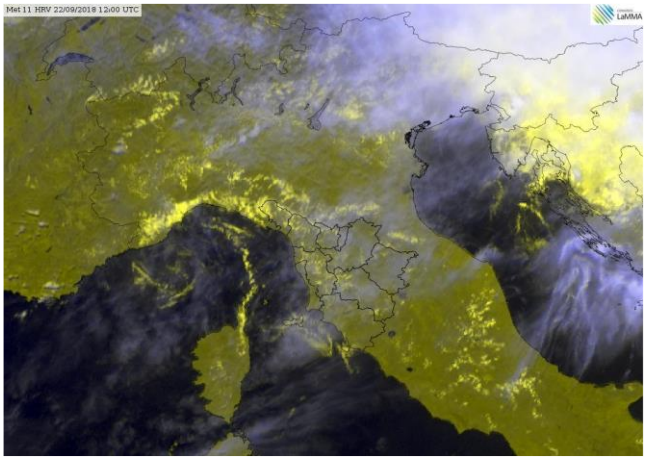


Sabato 22 Settembre 2018

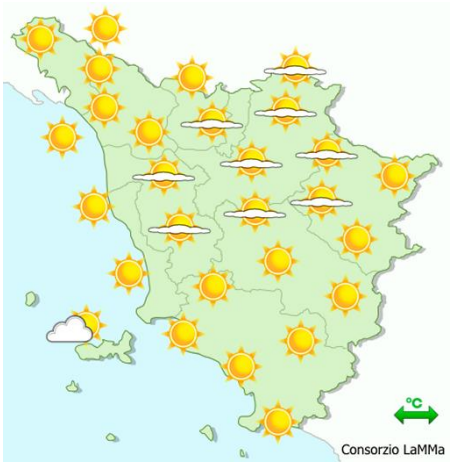
Situazione: un debole minimo sul mar Ligure non condiziona particolarmente il tempo sulla regione.



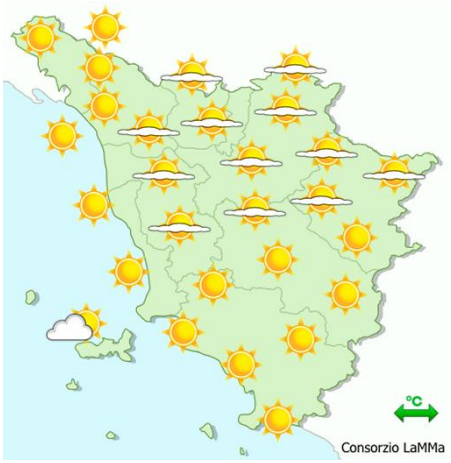
Pressione al suolo e fronti del 22 Settembre alle 12 UTC


Meteosat HRV del 22 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: velato.

Fenomeni: nessuno.

Venti: meridionali, deboli nell'interno, moderati lungo la costa.

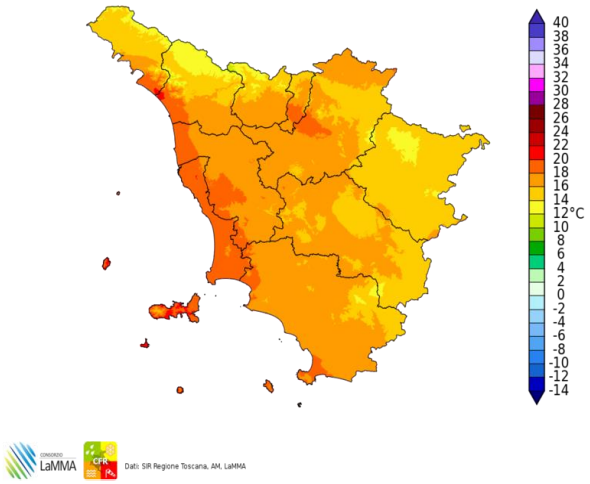
Mari: poco mossi, tendenti a divenire mossi al largo.

Temperature: stazionarie su valori decisamente superiori alle medie del periodo.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	15	18	17	23	17	19	17	18	20	17
	anomalia*	4	4	3	6	4	4	3	4	5	3
T. max	osservata	28	31	29	23	30	27	30	29	31	28
	anomalia*	4	6	3	-1	5	2	5	4	6	5
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

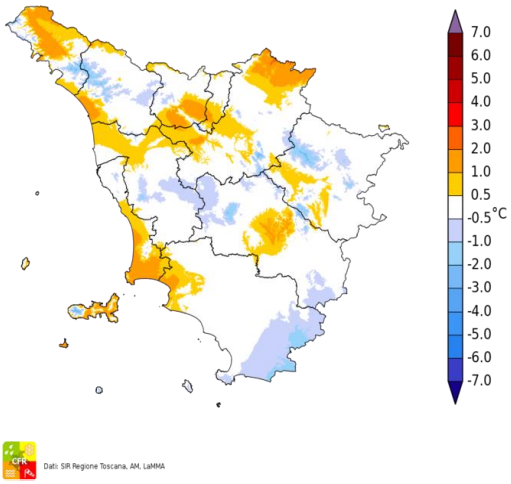
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 22/09/2018



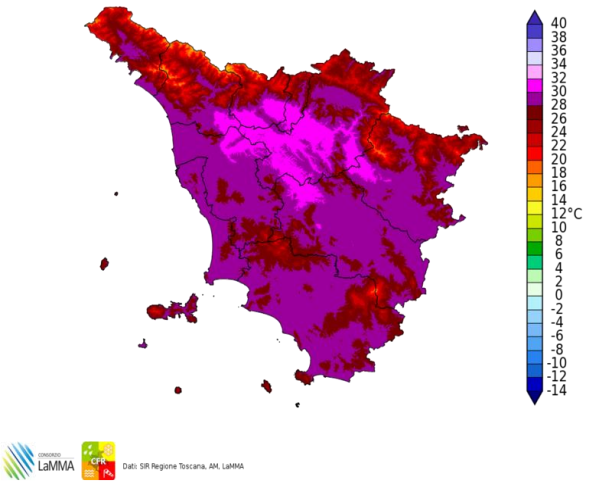
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 22/09/2018 e 21/09/2018



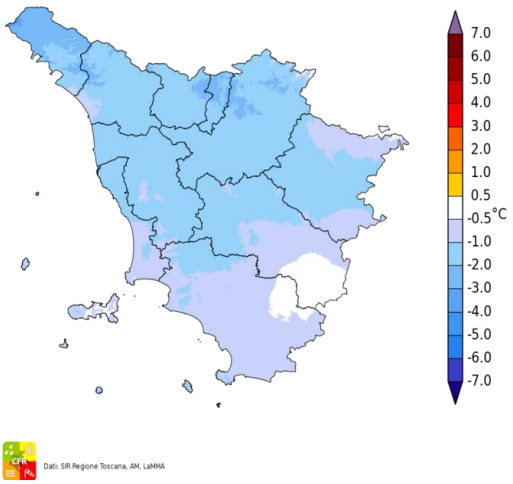
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 22/09/2018



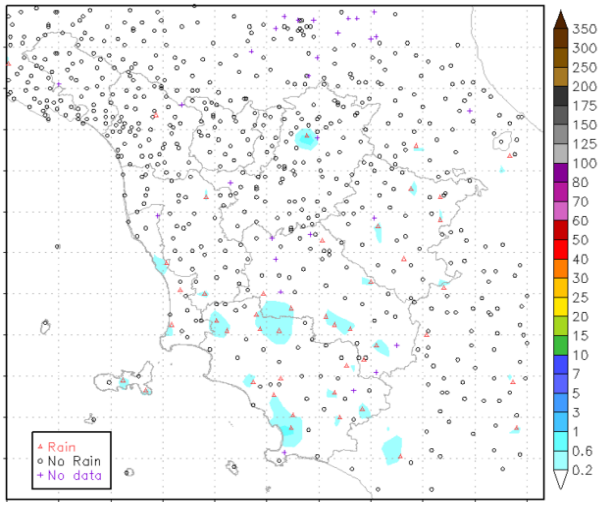
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 22/09/2018 e 21/09/2018

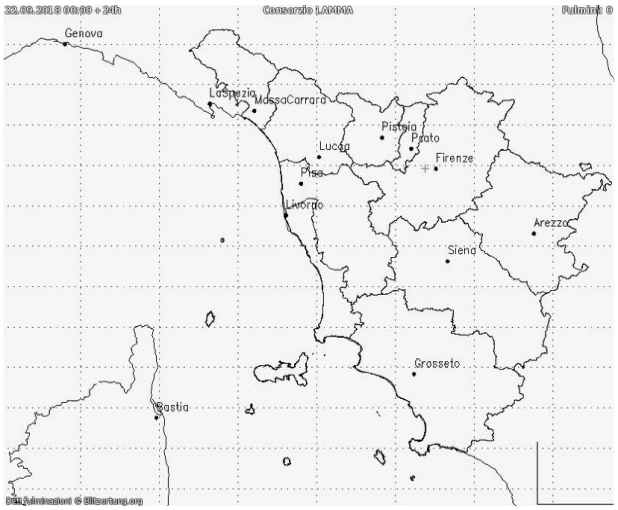


Dati: SIR Regione Toscana, AM, LaMMA

Total Precipitation [mm] cumulated on Sat, 22/09/2018

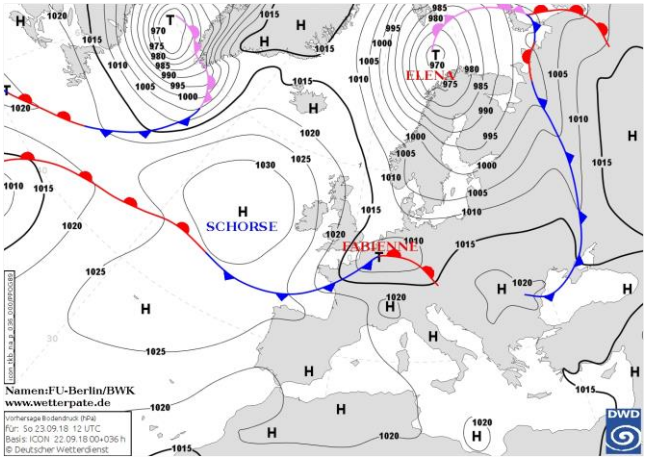


Fulminazioni osservate il giorno 22 Settembre

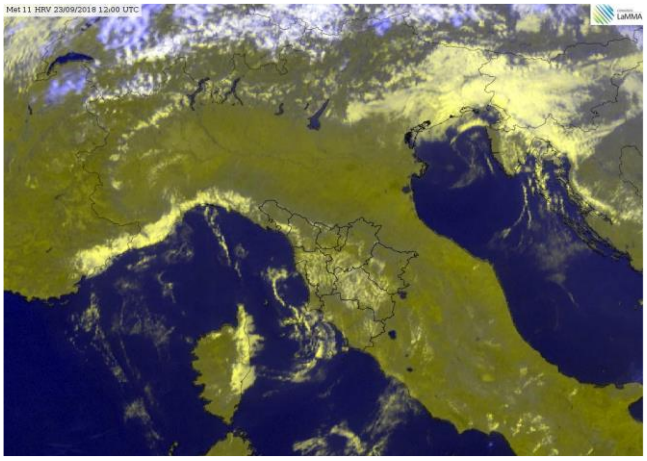


Domenica 23 Settembre 2018

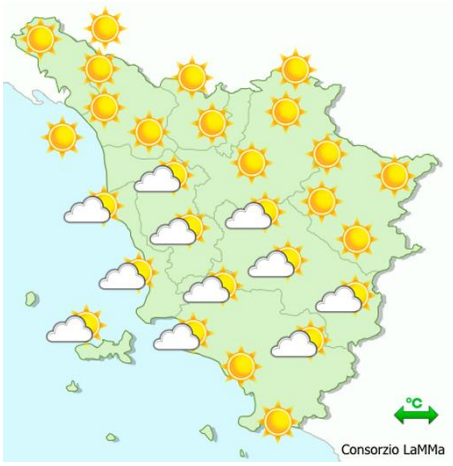
Situazione: alta pressione sul Mediterraneo centro-occidentale; tuttavia un fronte in transito sull'Europa centro-settentrionale, determina una modesta area depressionaria tra Mar di Corsica, Mar Ligure e Tirreno settentrionale.



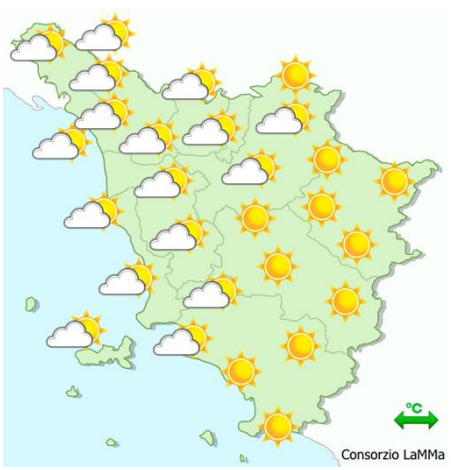
Pressione al suolo e fronti del 23 Settembre alle 12 UTC


Meteosat HRV del 23 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso con aumento della nuvolosità dal pomeriggio.

Fenomeni: deboli piogge in serata sulle zone settentrionali

Venti: deboli variabili, tendenti a disporsi da sud nella seconda parte della giornata con rinforzi lungo la costa.

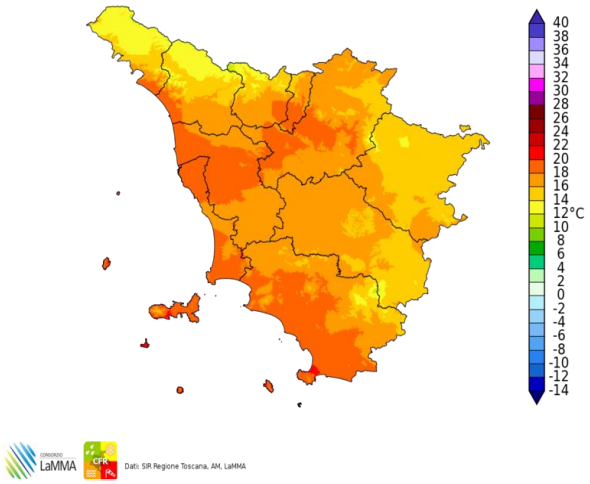
Mari: poco mossi.

Temperature: stazionarie su valori molto superiori alle medie del periodo.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	16	18	18	N.D.	18	18	18	18	20	18
	anomalia*	5	4	4	N.D.	4	3	4	4	6	4
T. max	osservata	28	31	28	N.D.	28	27	29	29	30	27
	anomalia*	4	6	3	N.D.	4	2	5	4	5	4
Precipitazione (mm/24ore)		0	0	0	0	1	0	0	2	0	0

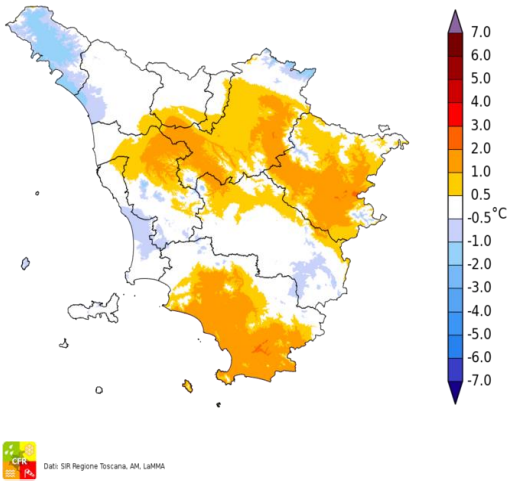
*anomalia calcolata sulla base della normale climatica decadale 1981-2010 Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 23/09/2018



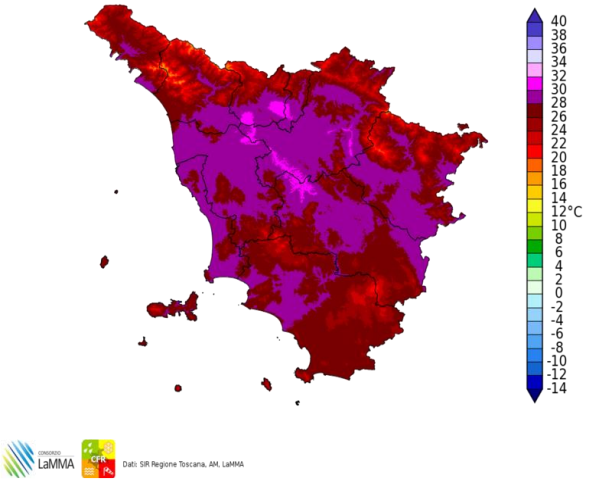
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 23/09/2018 e 22/09/2018



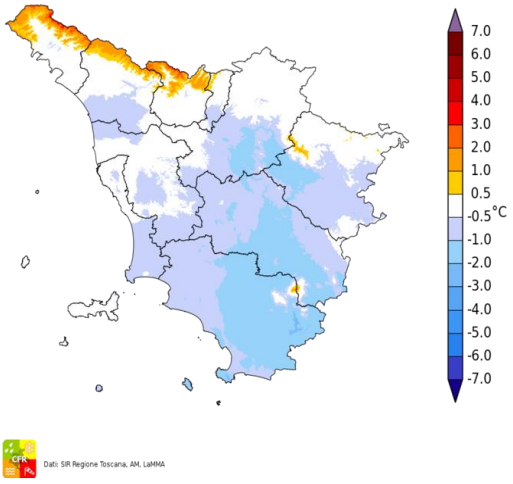
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 23/09/2018



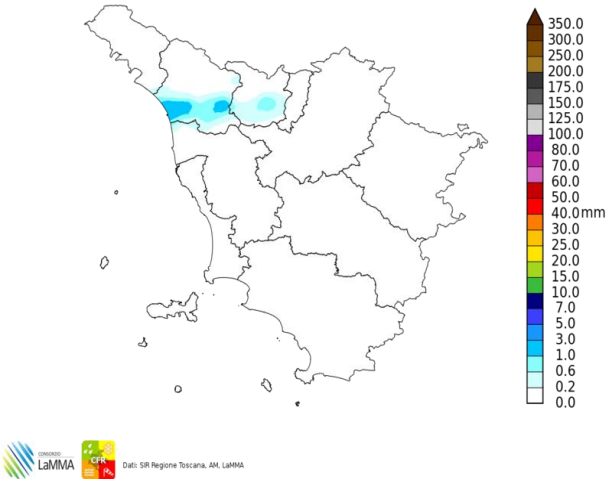
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 23/09/2018 e 22/09/2018



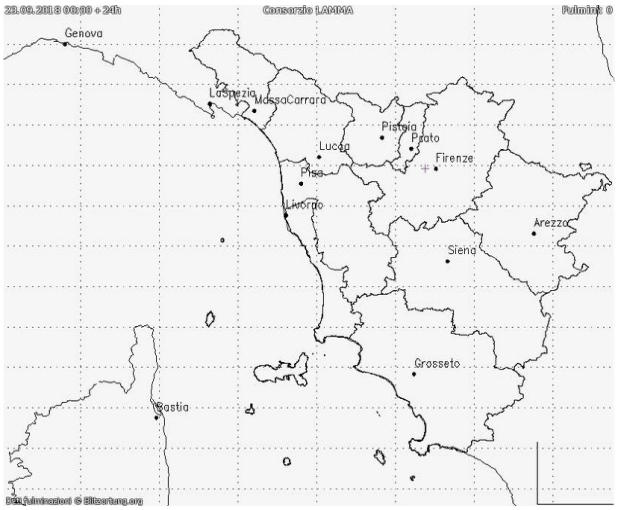
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 23/09/2018



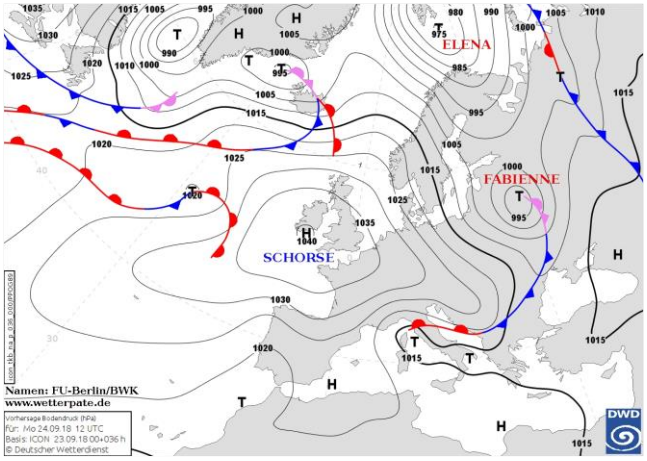
Dati: SIR Regione Toscana, AM, LaMMA

Fulminazioni osservate il giorno 23 Settembre

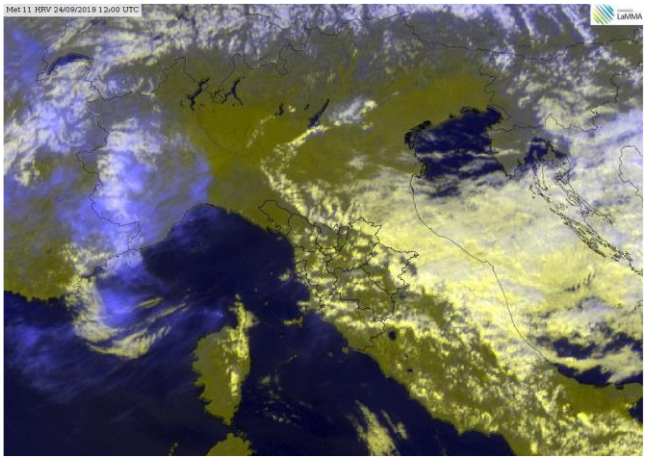


Lunedi' 24 Settembre 2018

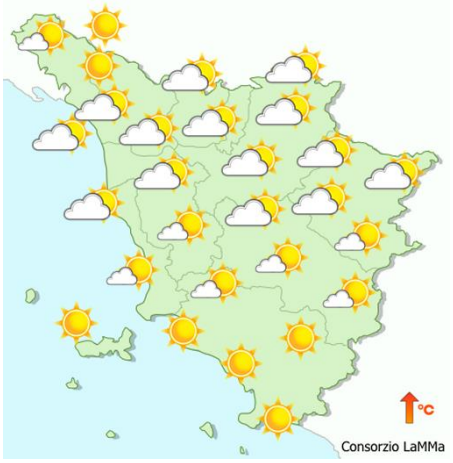
Situazione: situazione caratterizzata dalla presenza di un robusto campo anticiclonico sulle Isole Britanniche e dal transito di un sistema frontale sui Balcani con forte gradiente barico sul centro e sud Italia associato a forti venti di Grecale.



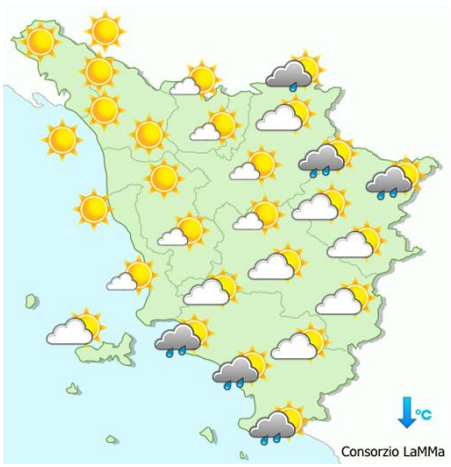
Pressione al suolo e fronti del 24 Settembre alle 12 UTC


Meteosat HRV del 24 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: nuvoloso nottetempo e al primo mattino; successivamente parzialmente nuvoloso; nel pomeriggio nuvolosità consistente sul grossetano con ampi rasserenamenti a partire dalle zone settentrionali.

Fenomeni: piovaschi nottetempo sulle zone settentrionali, in mattinata su quello orientali, nel pomeriggio rovescio sulla costa grossetana.

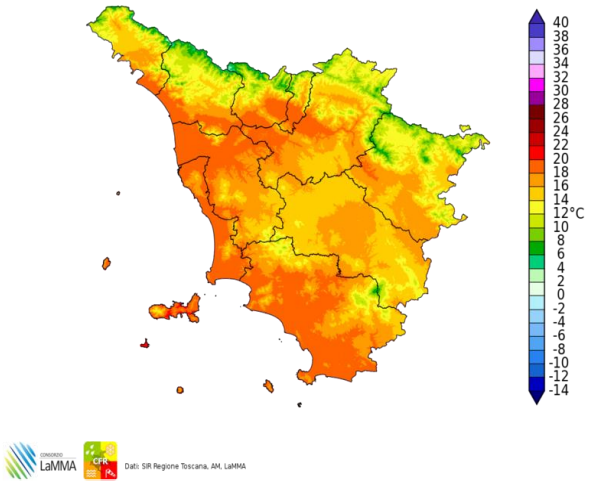
Venti: inizialmente deboli variabili, in rotazione a nord-est dal pomeriggio con forti raffiche, soprattutto su rilievi e zone centro-meridionali.
Mari: tendenti a divenire mossi o molto mossi al largo.

Temperature: in calo dal pomeriggio.

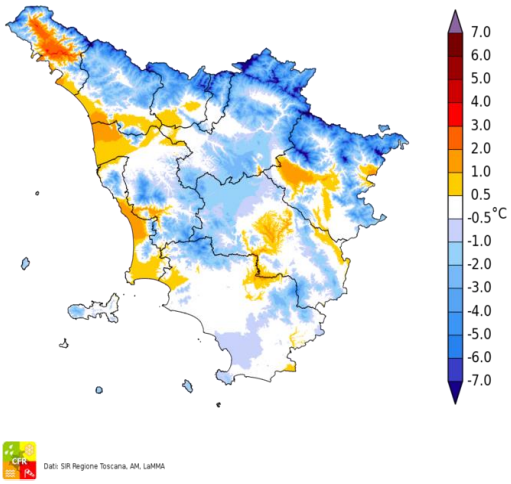
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	18	19	19	N.D.	18	19	20	18	18	16
	anomalia*	7	6	5	N.D.	4	4	6	5	4	2
T. max	osservata	28	32	32	N.D.	30	28	30	29	30	29
	anomalia*	4	6	6	N.D.	5	3	5	4	5	5
Precipitazione (mm/24ore)		0	0	4	0	1	1	0	1	0	0

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

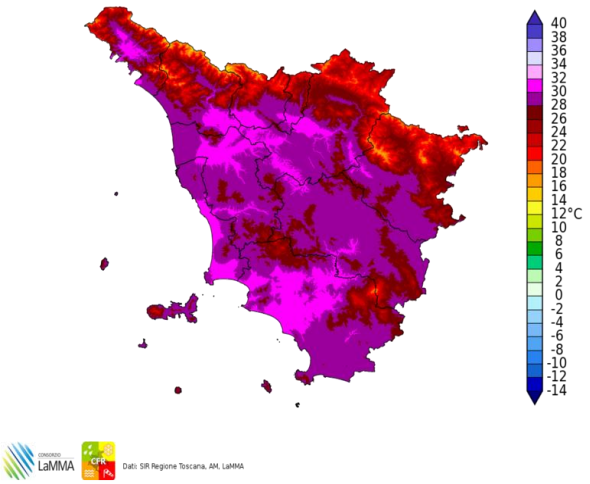
Temperatura Minima del 24/09/2018



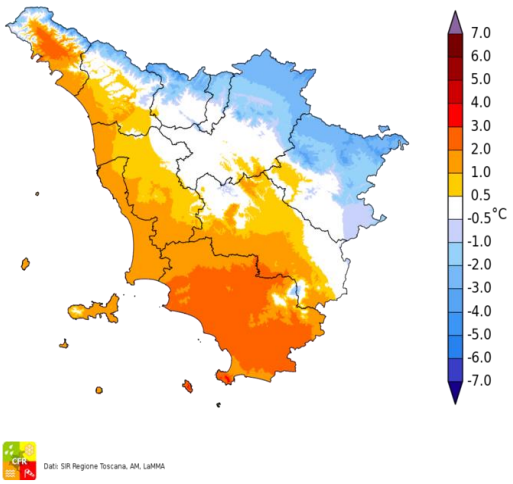
Differenza della Temperatura Minima tra 24/09/2018 e 23/09/2018



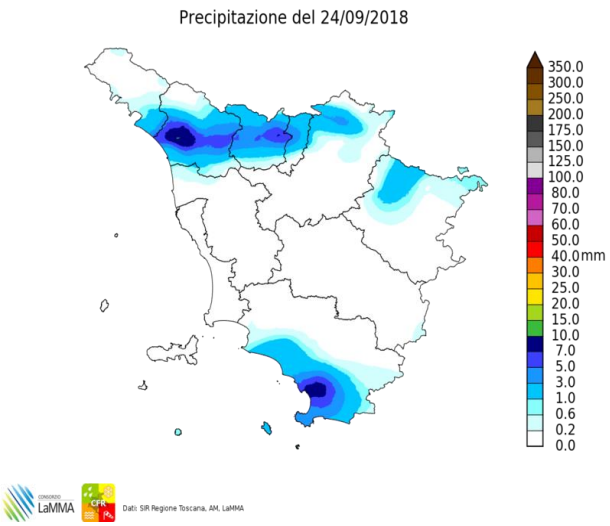
Temperatura Massima del 24/09/2018



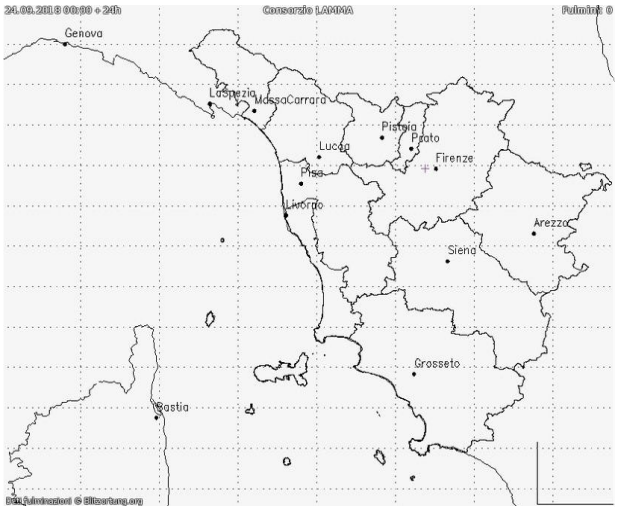
Differenza della Temperatura Massima tra 24/09/2018 e 23/09/2018



Precipitazione del 24/09/2018

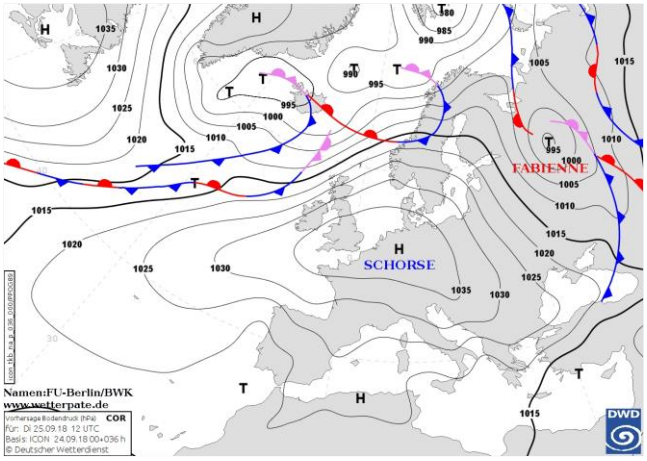


Fulminazioni osservate il giorno 24 Settembre

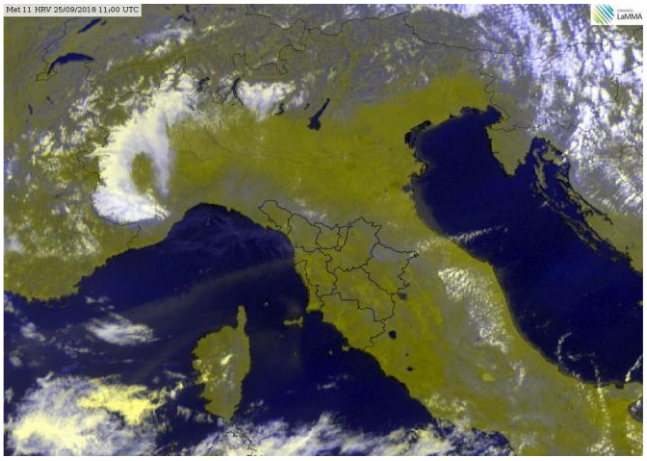


Martedi' 25 Settembre 2018

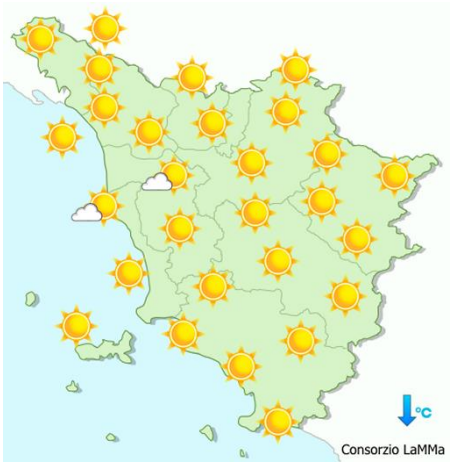
Situazione: un robusto campo anticiclonico interessa gran parte dell'Europa, mentre un'area depressionaria insiste ancora tra Mar Ionio ed Egeo.



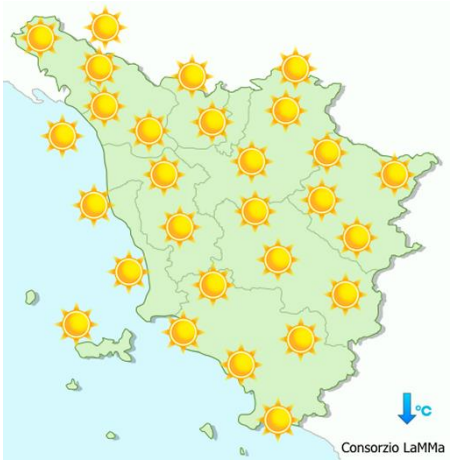
Pressione al suolo e fronti del 25 Settembre alle 12 UTC


Meteosat HRV del 25 Settembre alle 11 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso.

Fenomeni: nessuno.

Venti: moderati di Grecale con forti raffiche.

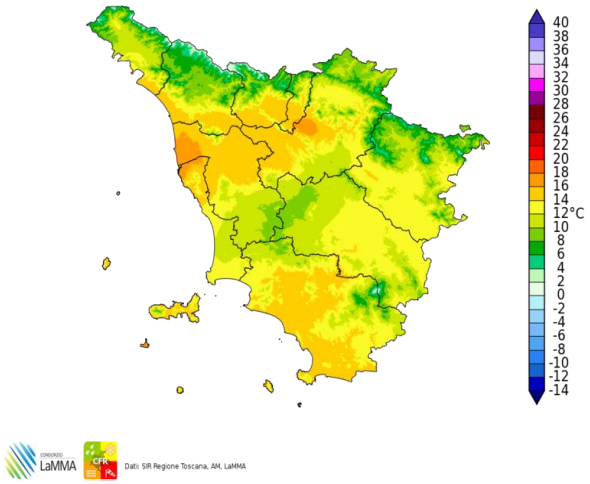
Mari: poco mossi sottocosta, mossi a largo.

Temperature: in sensibile calo, soprattutto le massime.

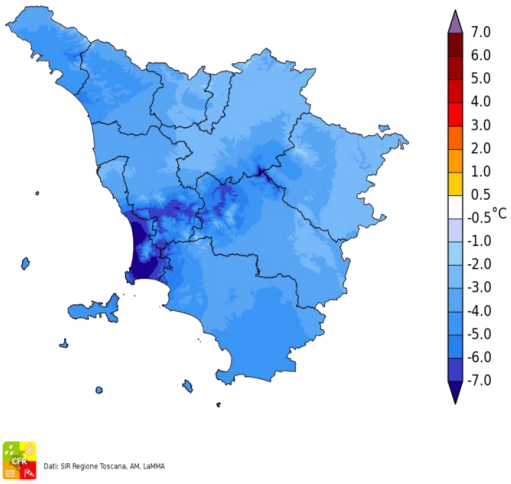
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	15	16	14	17	16	15	16	16	16	13
	anomalia*	4	2	0	0	2	0	2	2	1	-1
T. max	osservata	22	23	25	23	23	23	24	21	22	20
	anomalia*	-2	-2	-1	-1	-2	-2	-1	-4	-4	-3
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

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

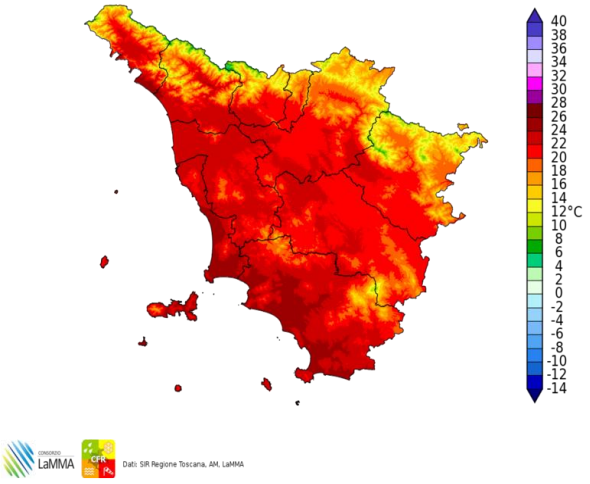
Temperatura Minima del 25/09/2018



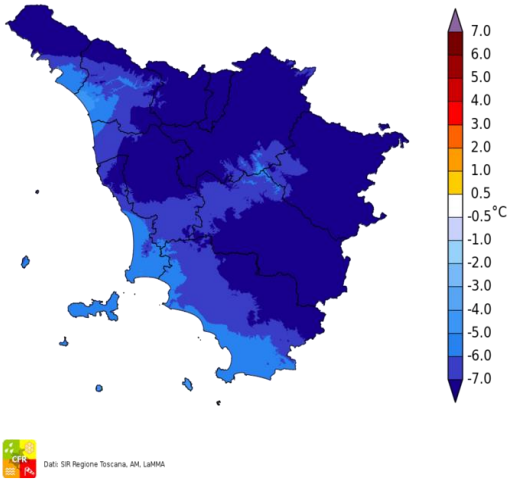
Differenza della Temperatura Minima tra 25/09/2018 e 24/09/2018



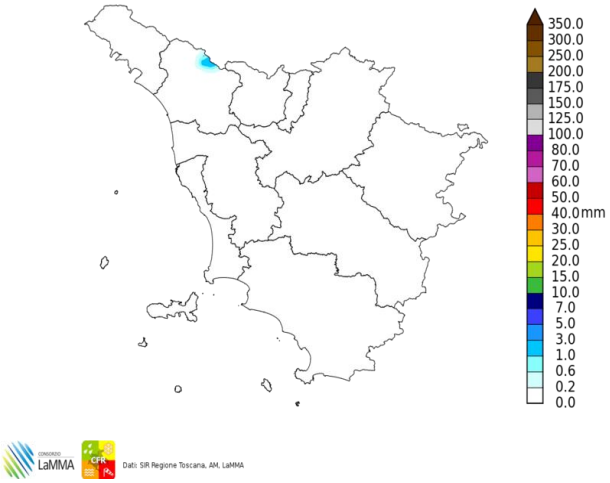
Temperatura Massima del 25/09/2018



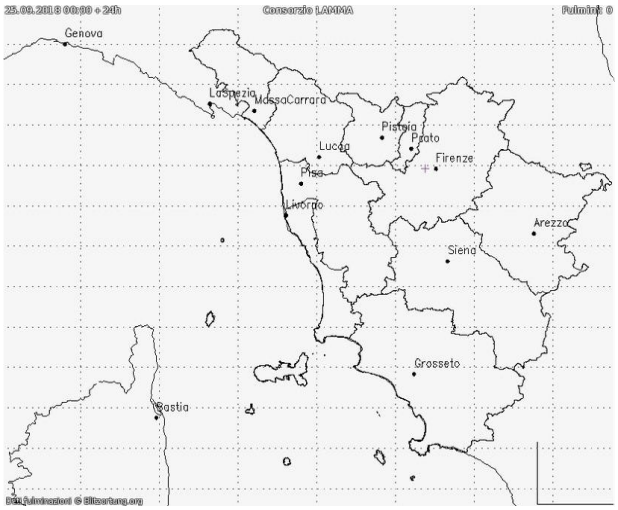
Differenza della Temperatura Massima tra 25/09/2018 e 24/09/2018



Precipitazione del 25/09/2018

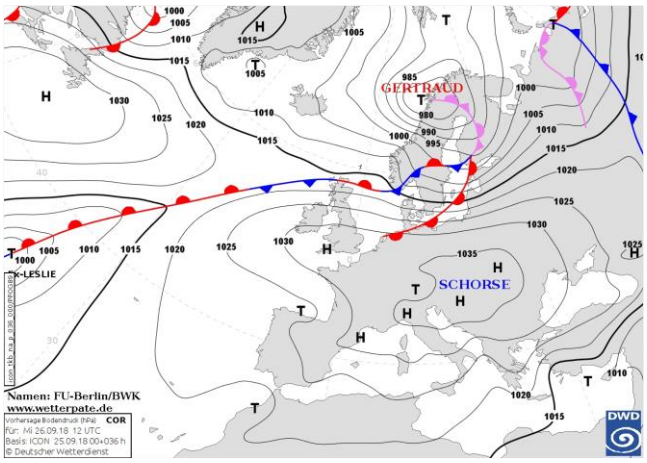


Fulminazioni osservate il giorno 25 Settembre

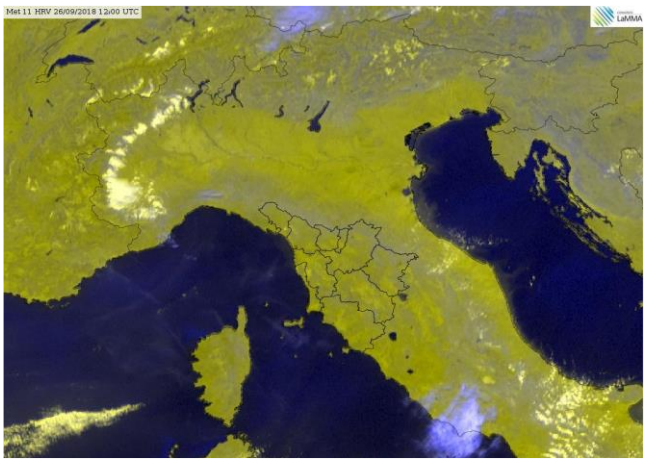


Mercoledi' 26 Settembre 2018

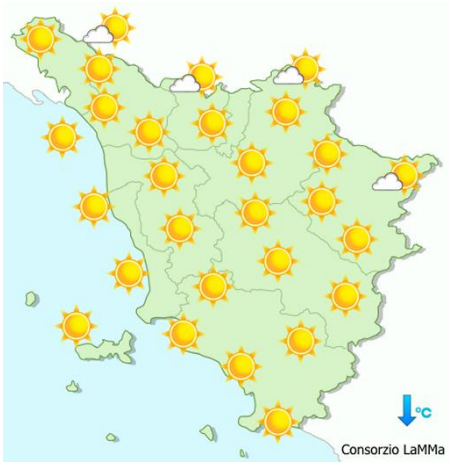
Situazione: robusto campo anticiclonico sulle Isole Britanniche e area depressionaria che insiste tra Mar Ionio ed Egeo mantenendo attivo un sostenuto flusso di Grecale sul centro e sud Italia.



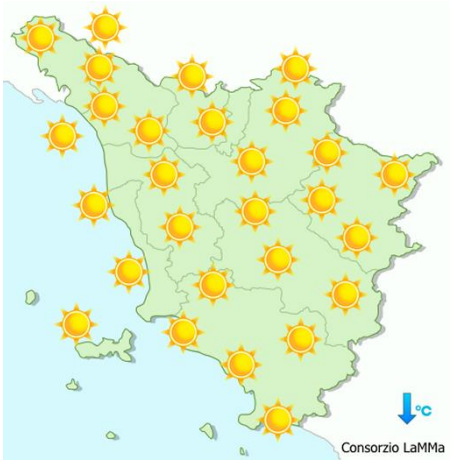
Pressione al suolo e fronti del 26 Settembre alle 12 UTC


Meteosat HRV del 26 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso.

Fenomeni: nessuno.

Venti: moderati di Grecale con locali forti raffiche; graduale attenuazione nel corso del pomeriggio.

Mari: poco mossi sottocosta, mossi a largo.

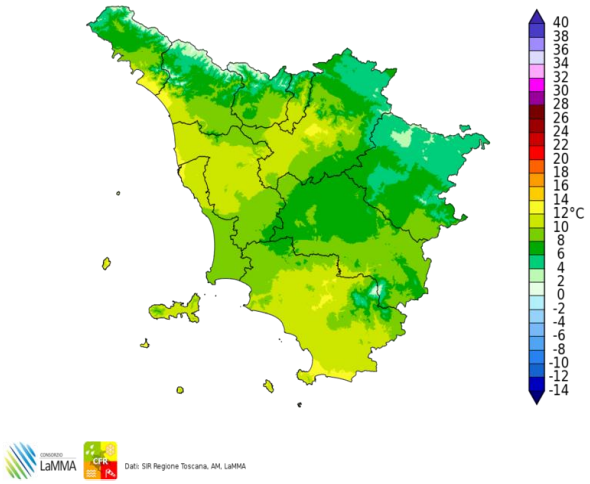
Temperature: in calo, soprattutto nei valori minimi.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	12	9	10	15	9	13	11	8	14	10
	anomalia*	2	-4	-4	-2	-5	-2	-3	-6	-1	-4
T. max	osservata	19	21	22	22	22	22	23	21	20	19
	anomalia*	-5	-4	-3	-2	-3	-3	-2	-4	-5	-4
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

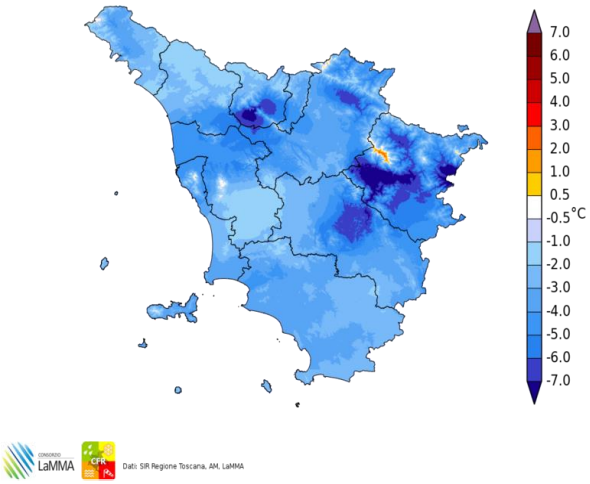
*anomalia calcolata sulla base della normale climatica decadale 1981-2010

Dati: SIR-Regione Toscana, AM, LaMMA

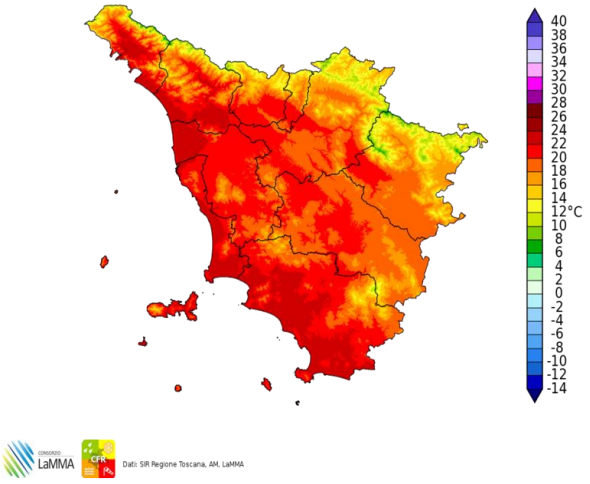
Temperatura Minima del 26/09/2018



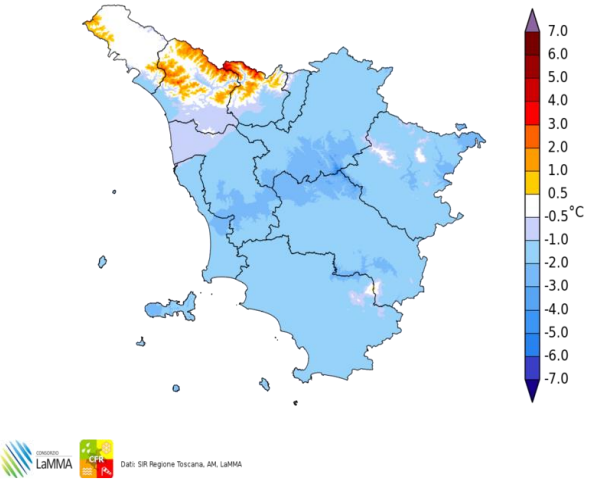
Differenza della Temperatura Minima tra 26/09/2018 e 25/09/2018



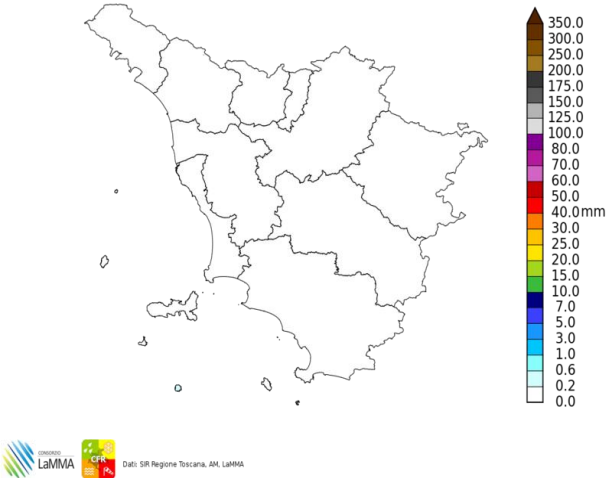
Temperatura Massima del 26/09/2018



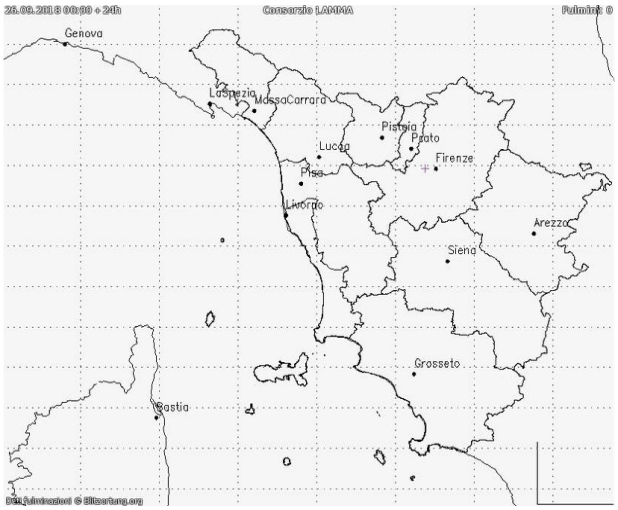
Differenza della Temperatura Massima tra 26/09/2018 e 25/09/2018



Precipitazione del 26/09/2018

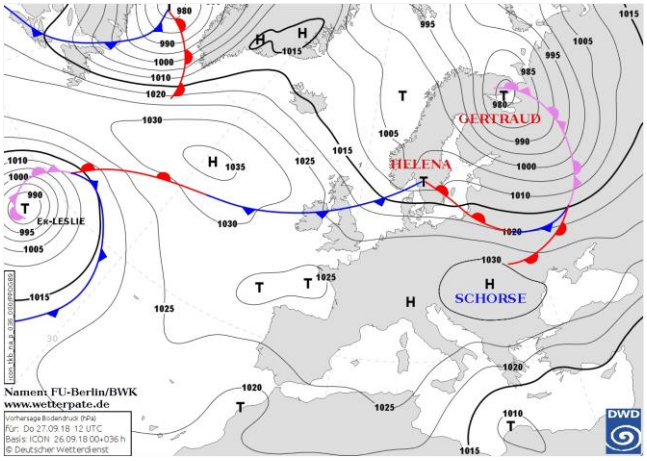


Fulminazioni osservate il giorno 26 Settembre

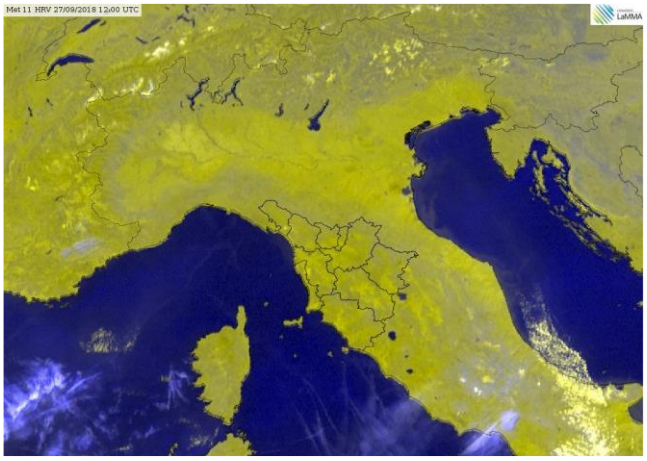


Giovedi' 27 Settembre 2018

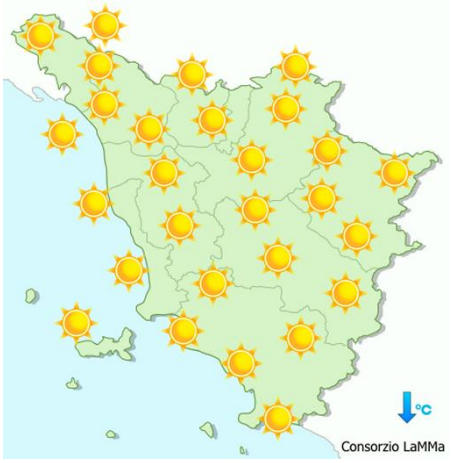
Situazione: un vasto e robusto anticiclone interessa gran parte dell'Europa e quindi l'Italia, mentre un'area depressionaria si va approfondendo tra Mar Ionio e Mar Libico.



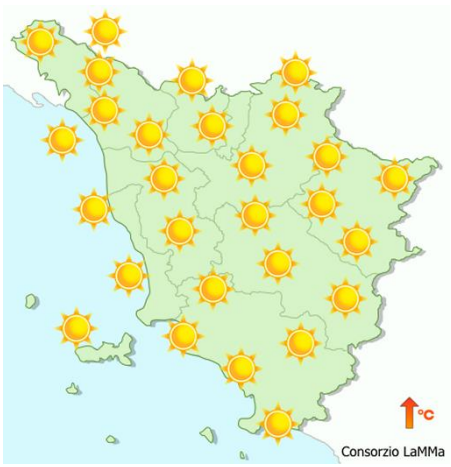
Pressione al suolo e fronti del 27 Settembre alle 12 UTC


Meteosat HRV del 27 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: prevalentemente soleggiato.

Fenomeni: nessuno.

Venti: deboli da nord-est, in temporanea rotazione a Maestrale sulla costa nel pomeriggio.

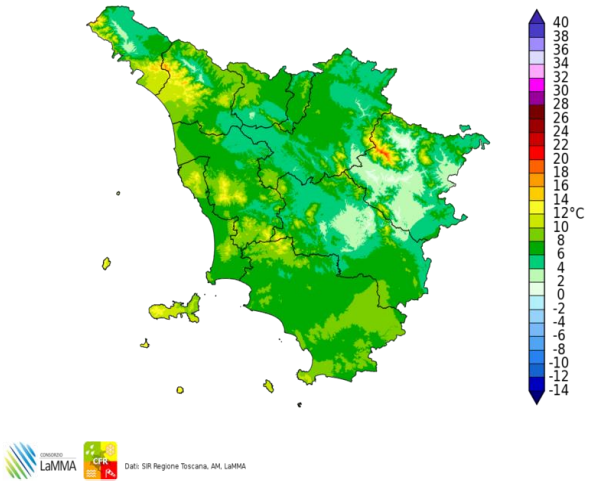
Mari: poco mossi o temporaneamente mossi a sud dell'Elba.

Temperature: in sensibile aumento.

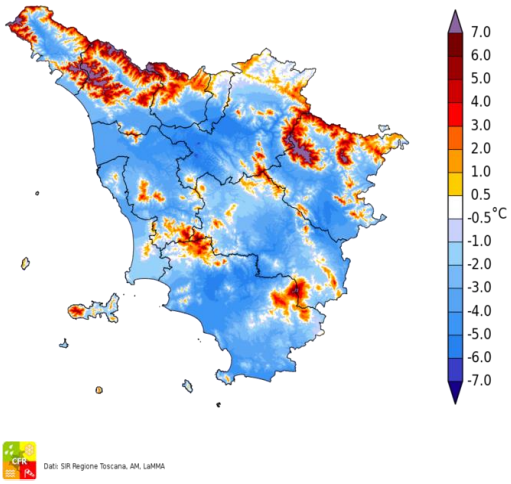
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	4	5	6	13	7	10	6	6	10	9
	anomalia*	-7	-9	-8	-4	-7	-5	-8	-8	-5	-5
T. max	osservata	27	31	29	23	27	24	26	29	29	28
	anomalia*	3	5	3	-1	2	0	1	4	4	4
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

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

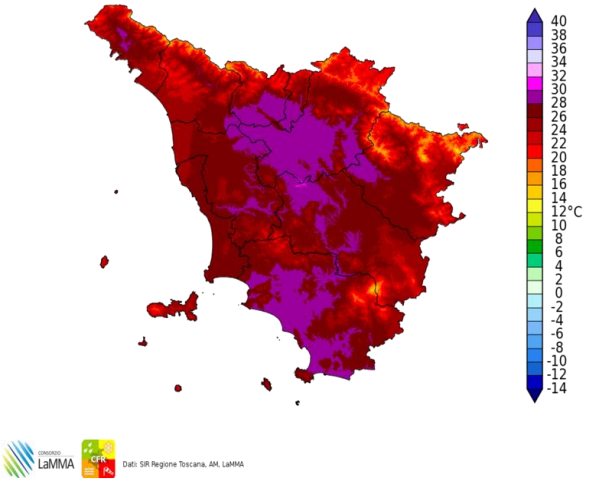
Temperatura Minima del 27/09/2018



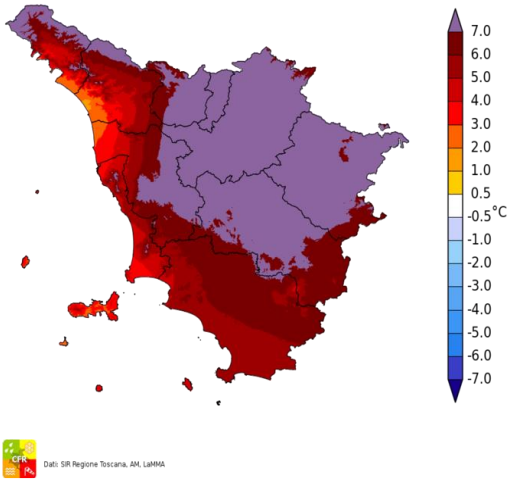
Differenza della Temperatura Minima tra 27/09/2018 e 26/09/2018



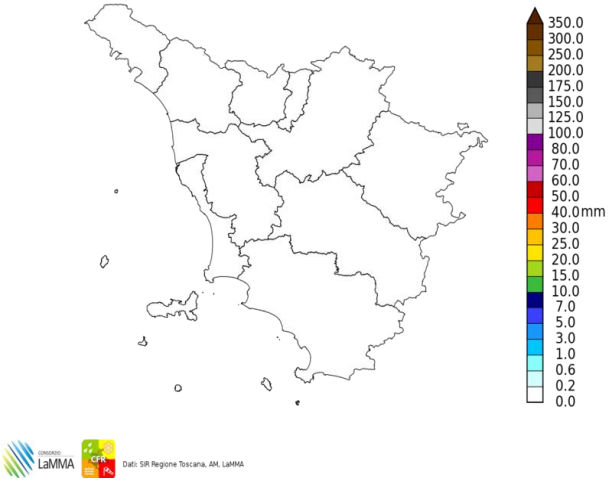
Temperatura Massima del 27/09/2018



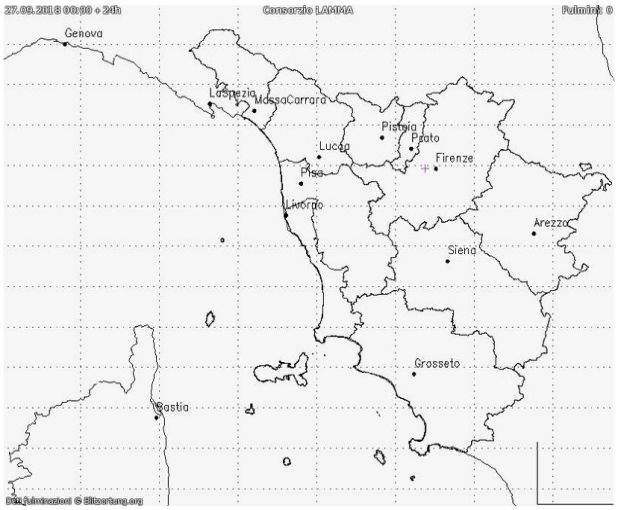
Differenza della Temperatura Massima tra 27/09/2018 e 26/09/2018



Precipitazione del 27/09/2018

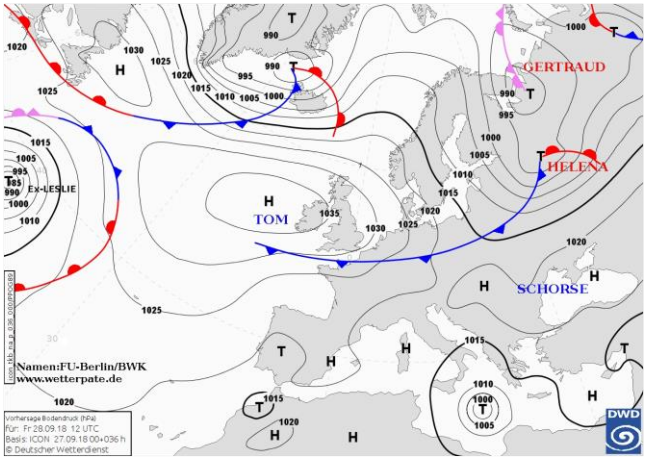


Fulminazioni osservate il giorno 27 Settembre

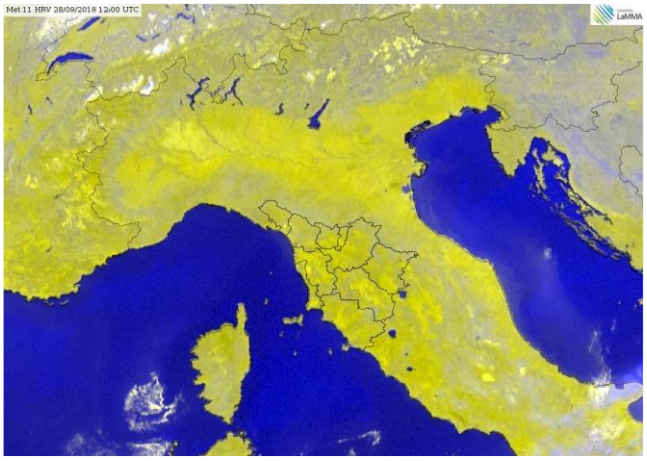


Venerdi' 28 Settembre 2018

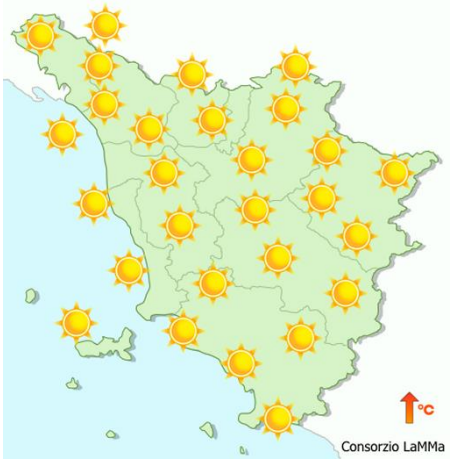
Situazione: alta pressione sull'Europa occidentale centrata sul Regno Unito; profonda circolazione depressionaria, associata a forti venti e intensi temporali tra Libia e Ionio Meridionale.



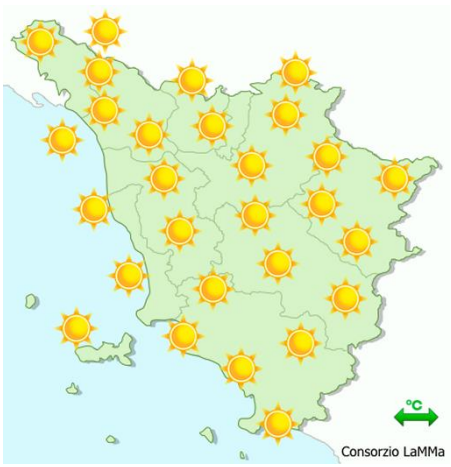
Pressione al suolo e fronti del 28 Settembre alle 12 UTC


Meteosat HRV del 28 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno.

Fenomeni: nessuno.

Venti: deboli variabili o assenti. Nel pomeriggio rinforzi di Maestrale sul litorale centro-meridionale.

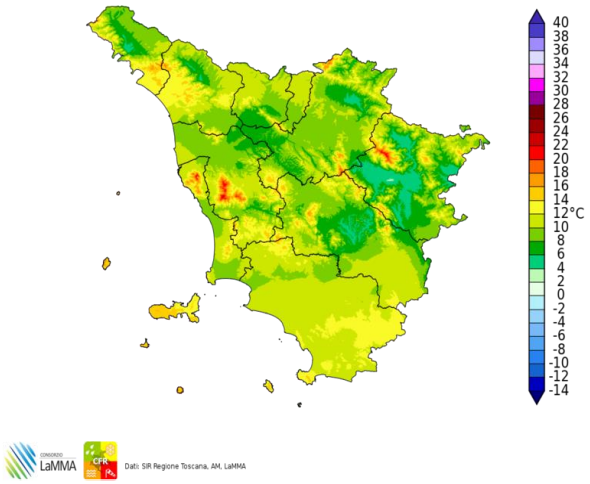
Mari: poco mossi (localmente mossi dal pomeriggio a sud dell'Elba).

Temperature: minime in aumento, massime in lieve aumento. Punte di 30-31 gradi nelle pianure interne.

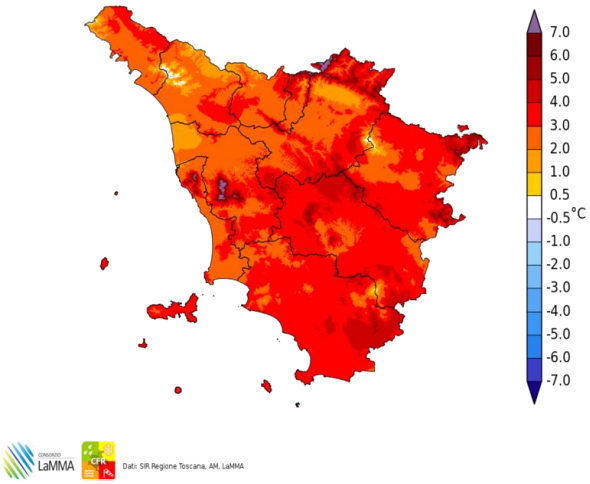
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	7	7	10	16	9	12	8	8	13	13
	anomalia*	-4	-7	-4	-1	-5	-3	-6	-6	-2	-1
T. max	osservata	28	31	31	25	27	25	27	28	30	29
	anomalia*	4	6	5	1	2	0	2	3	5	5
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

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

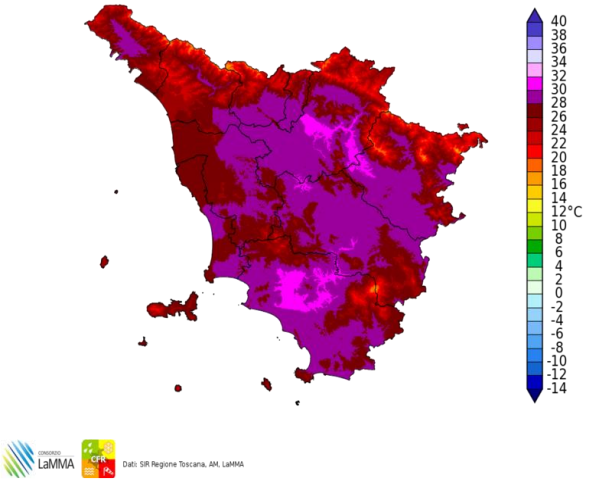
Temperatura Minima del 28/09/2018



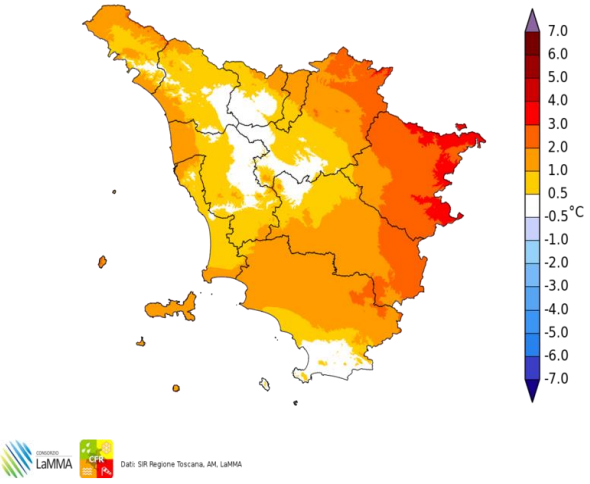
Differenza della Temperatura Minima tra 28/09/2018 e 27/09/2018



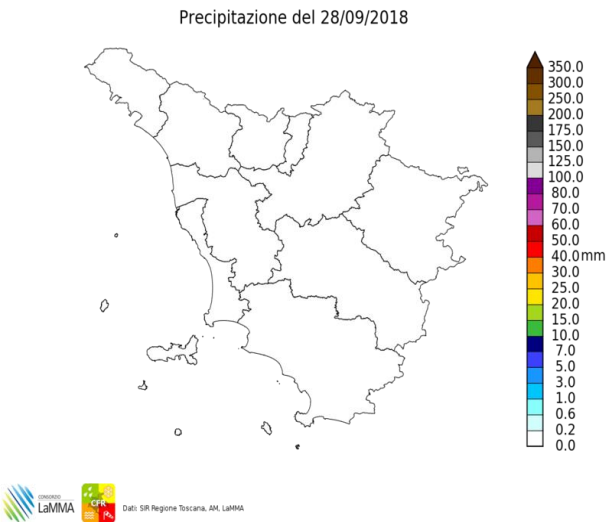
Temperatura Massima del 28/09/2018



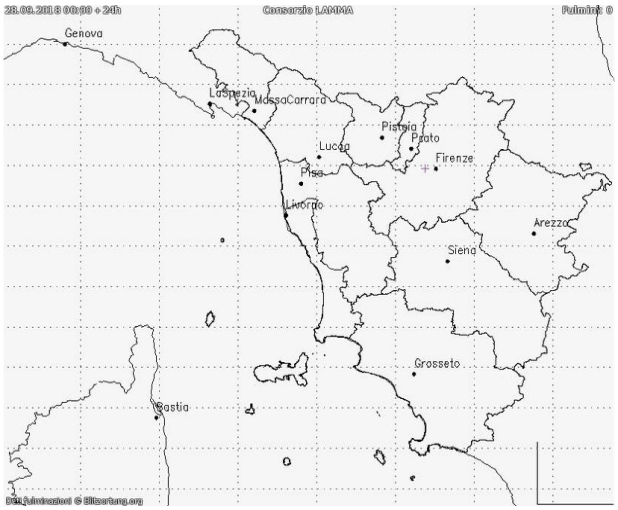
Differenza della Temperatura Massima tra 28/09/2018 e 27/09/2018



Precipitazione del 28/09/2018

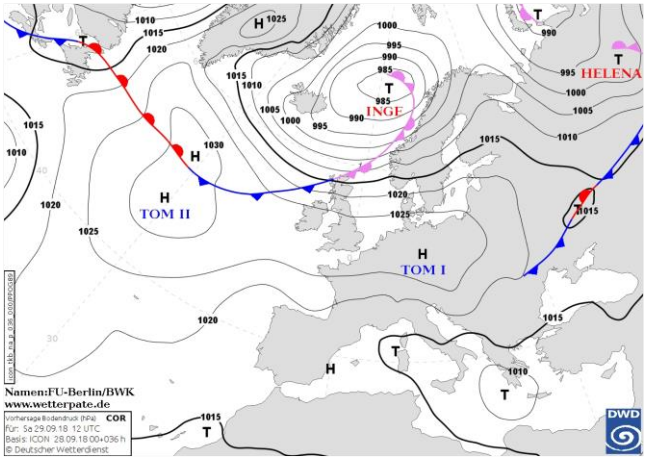


Fulminazioni osservate il giorno 28 Settembre

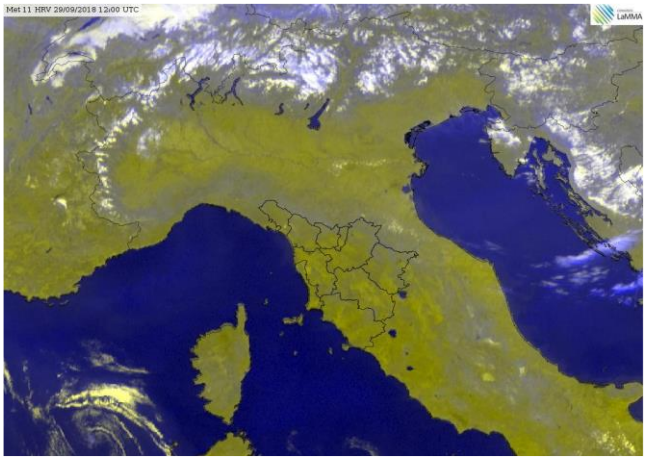


Sabato 29 Settembre 2018

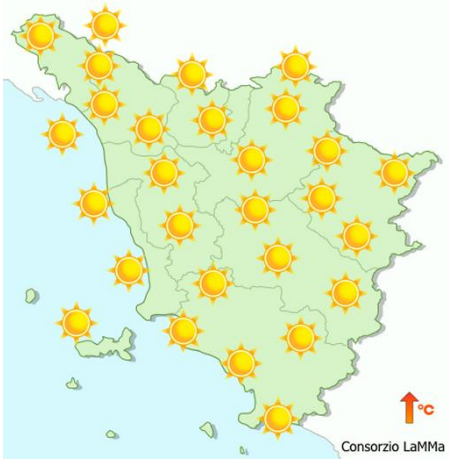
Situazione: alta pressione sull'Europa settentrionale con massimo di 1032 hPa sul Regno Unito; profonda circolazione depressionaria, associata a forti venti e intensi temporali tra Libia e Ionio Meridionale in fase di spostamento verso ENE. Fronte freddo in avvicinamento all'arco alpino con correnti più fresche e secche, soprattutto sul nord Italia e sul medio Adriatico.



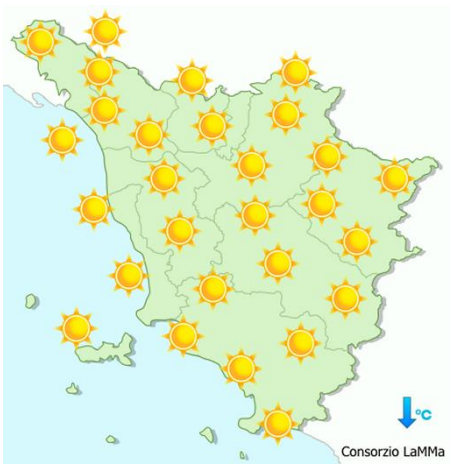
Pressione al suolo e fronti del 29 Settembre alle 12 UTC


Meteosat HRV del 29 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: soleggiato.

Fenomeni: nessuno.

Venti: in rinforzo fino a moderati da nord-est. Locali forti raffiche in particolare sui rilievi e sulle zone sottovento.

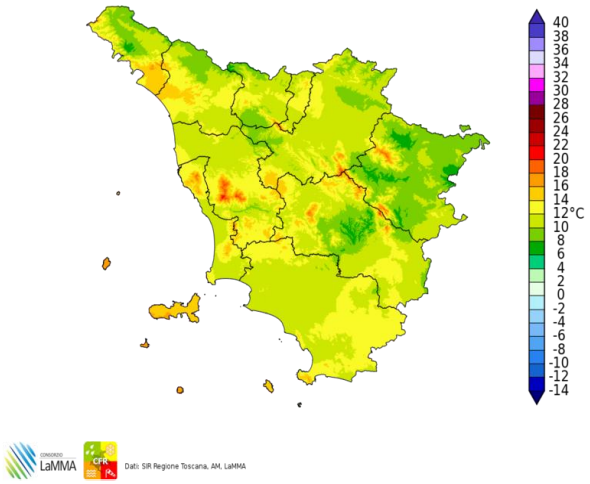
Mari: poco mossi sottocosta, mossi al largo (in particolare dal tardo pomeriggio).

Temperature: superiori alle medie.

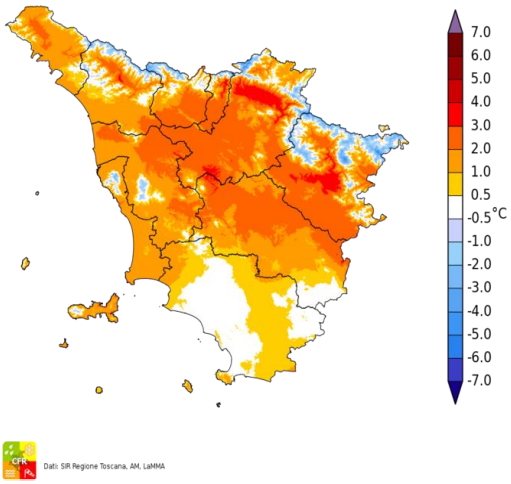
		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	10	9	11	16	11	14	10	10	15	16
	anomalia*	-1	-4	-3	0	-3	-1	-4	-3	0	2
T. max	osservata	27	30	30	28	29	28	29	28	27	26
	anomalia*	3	5	4	4	4	3	4	3	2	3
Precipitazione (mm/24ore)		0	0	0	0	0	0	0	0	0	0

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

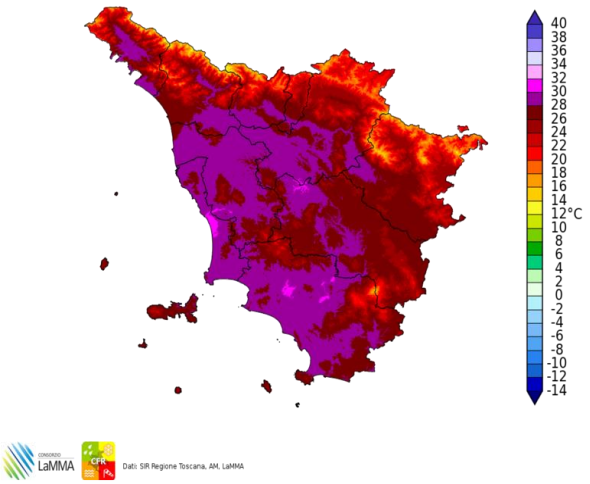
Temperatura Minima del 29/09/2018



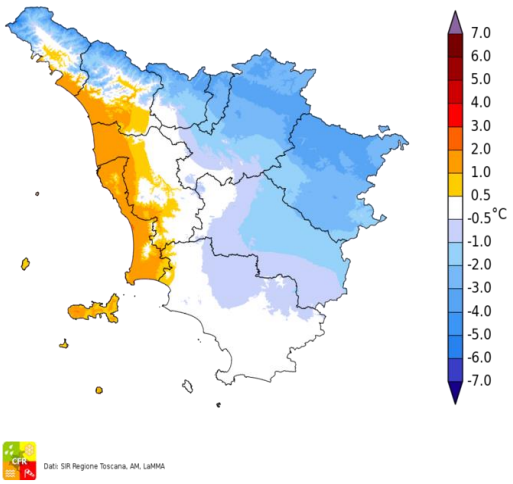
Differenza della Temperatura Minima tra 29/09/2018 e 28/09/2018



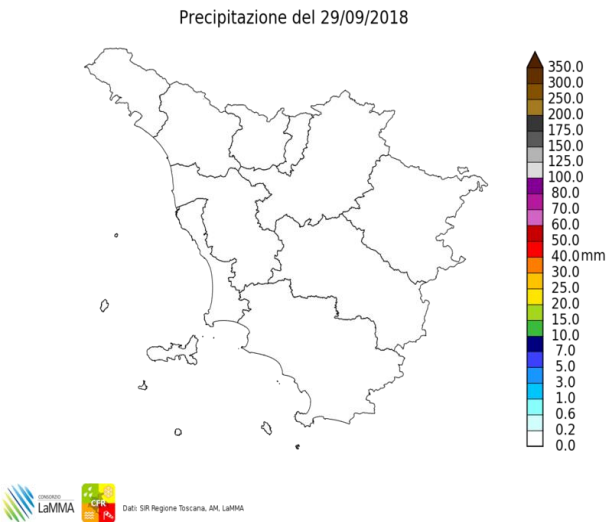
Temperatura Massima del 29/09/2018



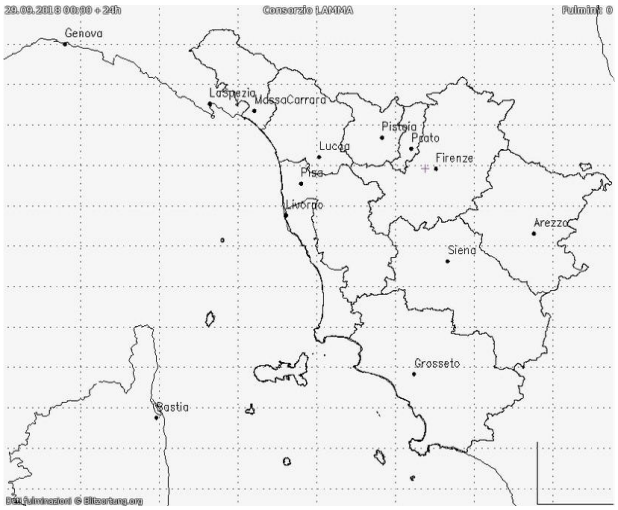
Differenza della Temperatura Massima tra 29/09/2018 e 28/09/2018



Precipitazione del 29/09/2018

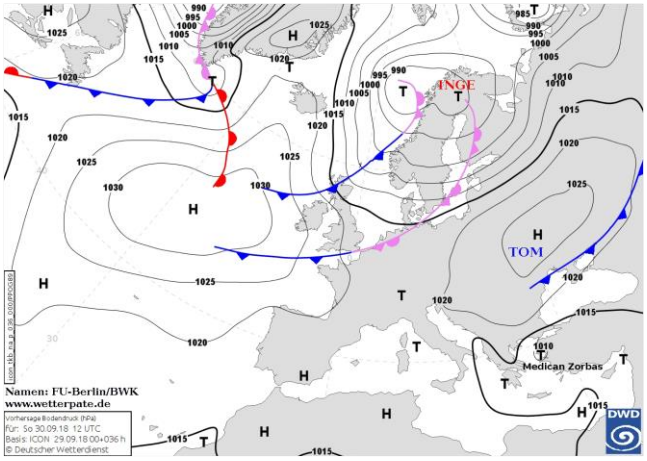


Fulminazioni osservate il giorno 29 Settembre

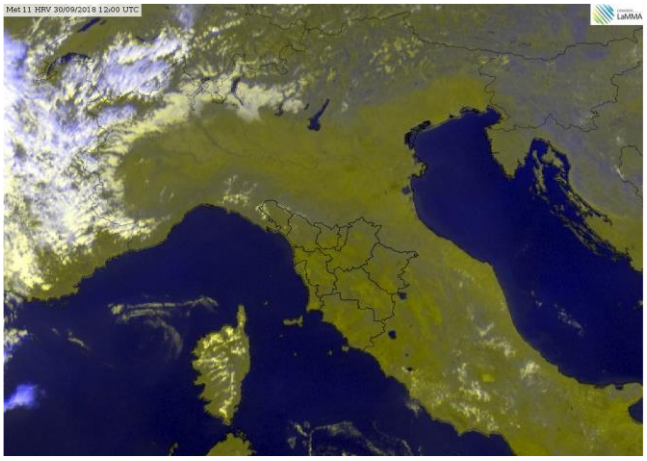


Domenica 30 Settembre 2018

Situazione: pressione in calo per l'approssimarsi di una saccatura atlantica.

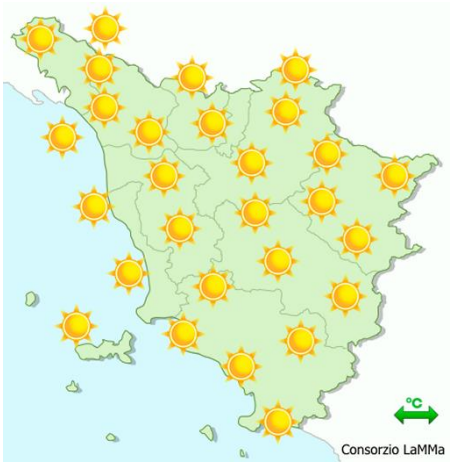


Pressione al suolo e fronti del 30 Settembre alle 12 UTC

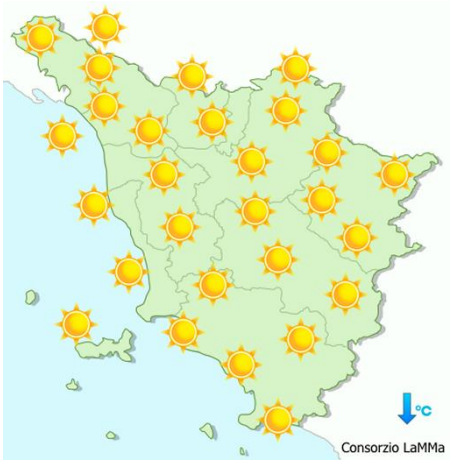


Meteosat HRV del 30 Settembre alle 12 UTC

situazione in Toscana



mattina



pomeriggio



sera

Stato del cielo: sereno o poco nuvoloso. In tarda serata nubi in aumento sulla costa a nord di Cecina.

Fenomeni: nessuno.

Venti: deboli-moderati di Grecale, in attenuazione dalla mattina.

Mari: poco mossi sottocosta; inizialmente mossi al largo, ma in attenuazione.

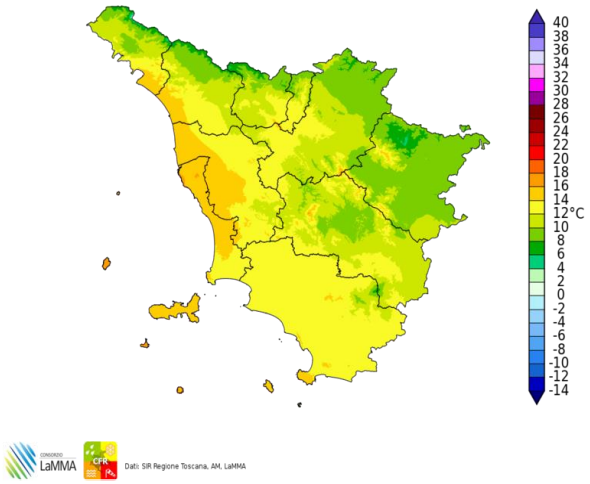
Temperature: massime in calo.

		Arezzo	Firenze	Grosseto	Livorno	Lucca	Massa	Pisa	Pistoia	Prato	Siena
T. min	osservata	10	10	11	19	12	15	15	11	15	14
	anomalia*	-1	-3	-2	2	-1	0	1	-2	0	0
T. max	osservata	25	28	28	26	27	25	28	26	27	26
	anomalia*	1	3	2	2	2	0	3	1	2	3
Precipitazione (mm/24ore)		0	0	0	0	2	1	0	0	0	0

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

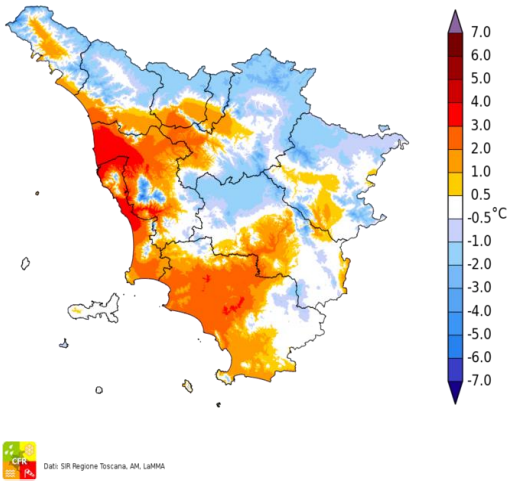
Dati: SIR-Regione Toscana, AM, LaMMA

Temperatura Minima del 30/09/2018



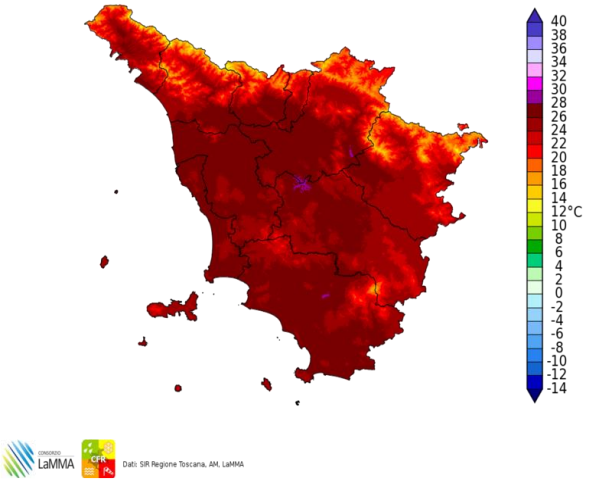
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Minima tra 30/09/2018 e 29/09/2018



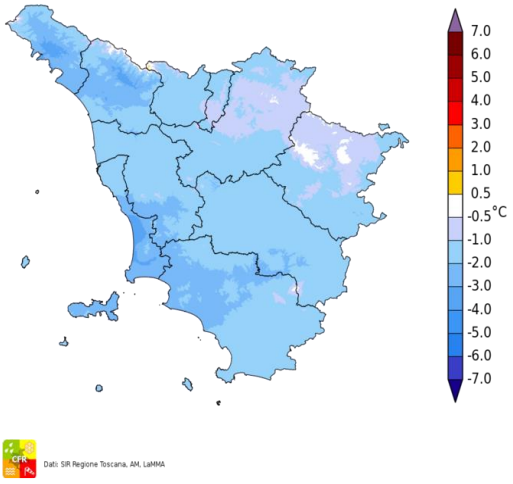
Dati: SIR Regione Toscana, AM, LaMMA

Temperatura Massima del 30/09/2018



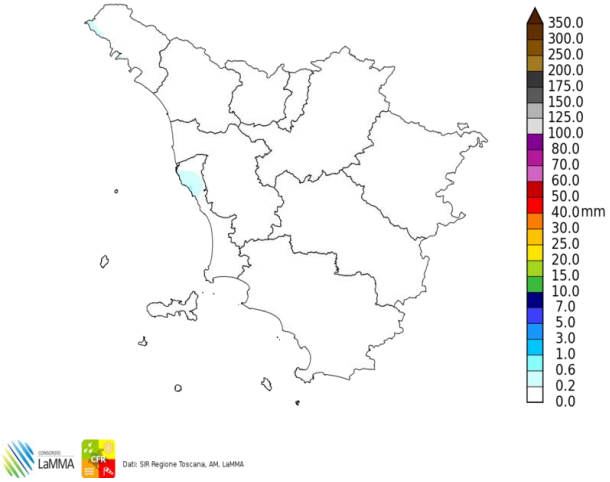
Dati: SIR Regione Toscana, AM, LaMMA

Differenza della Temperatura Massima tra 30/09/2018 e 29/09/2018



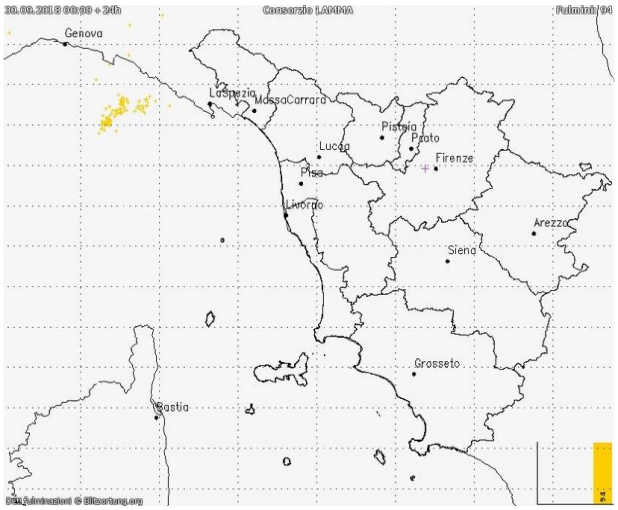
Dati: SIR Regione Toscana, AM, LaMMA

Precipitazione del 30/09/2018



Dati: SIR Regione Toscana, AM, LaMMA

Fulminazioni osservate il giorno 30 Settembre

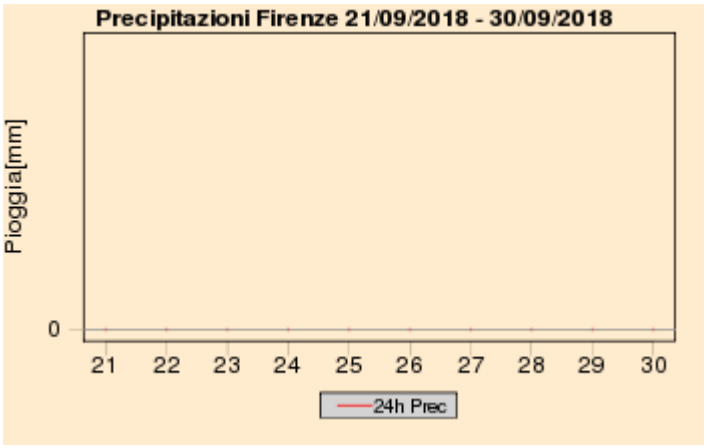


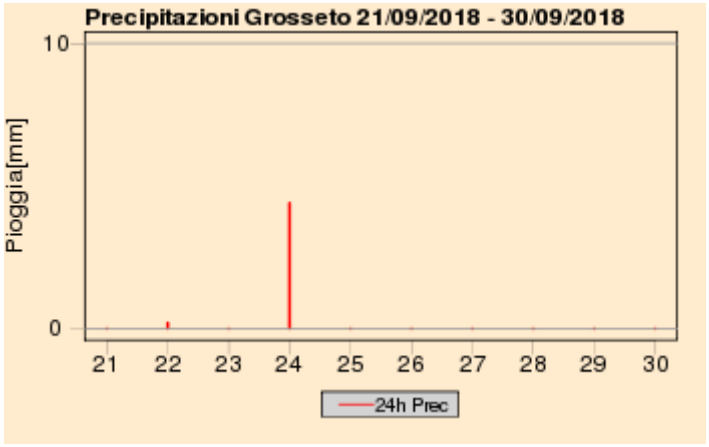
III decade - Quadro regionale – Precipitazioni

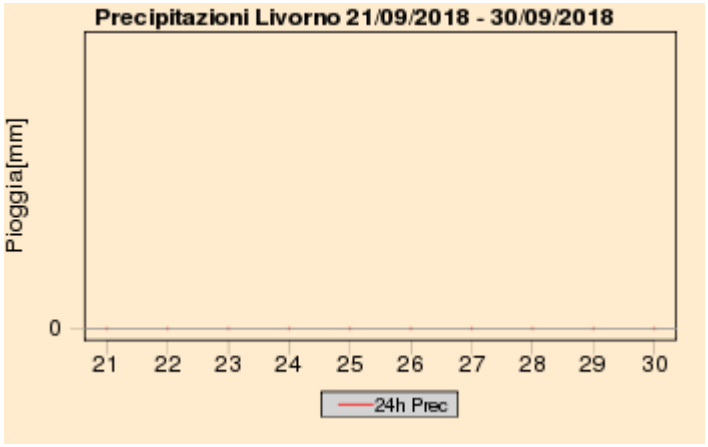
La terza decade di Settembre, ancor più della seconda, è stata caratterizzata da prevalenti condizioni di alta pressione con correnti asciutte orientali; non si sono osservate perturbazioni in transito sulla nostra regione e le piogge sono risultate sporadiche, isolate e scarsamente significative.

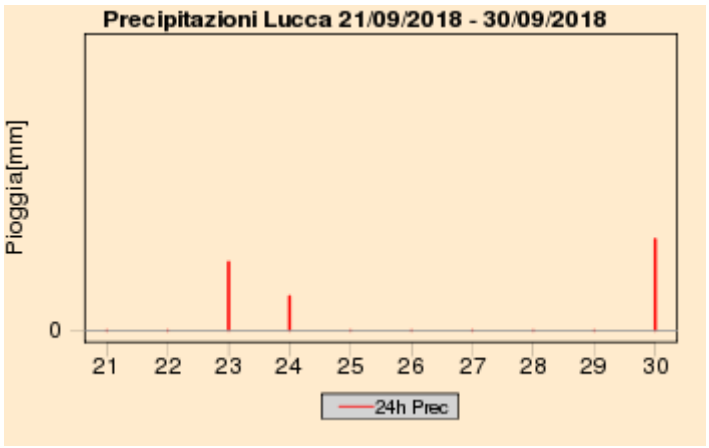
Su la gran parte del territorio le piogge sono risultate del tutto assenti, e sulle poche zone ove si sono registrate piogge i cumulati i solo localmente hanno raggiunto i 10 mm.

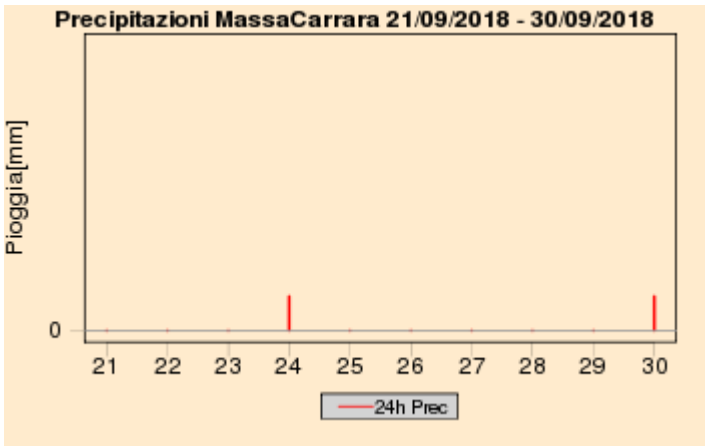


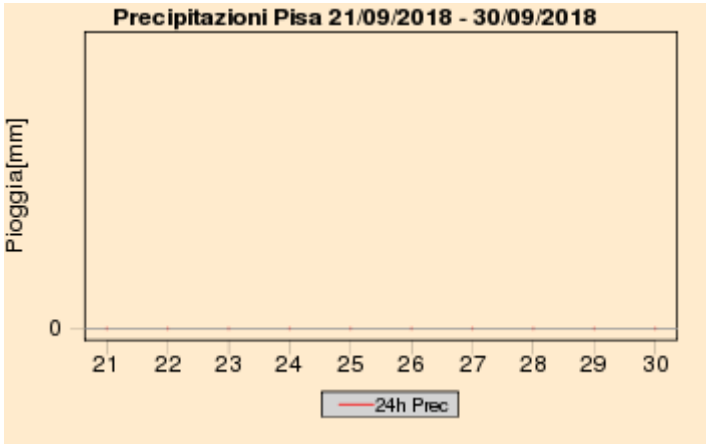


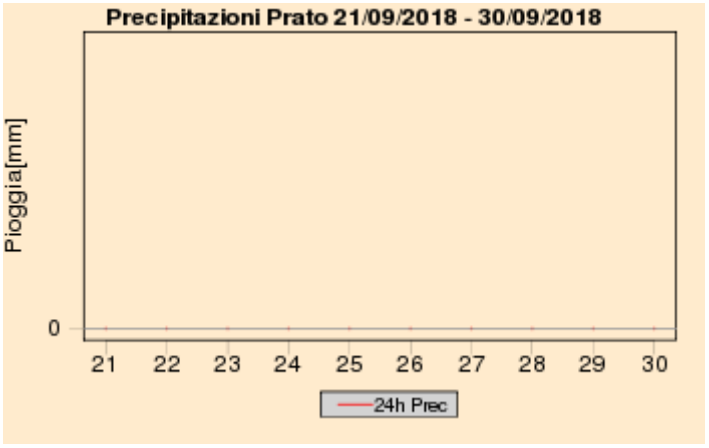


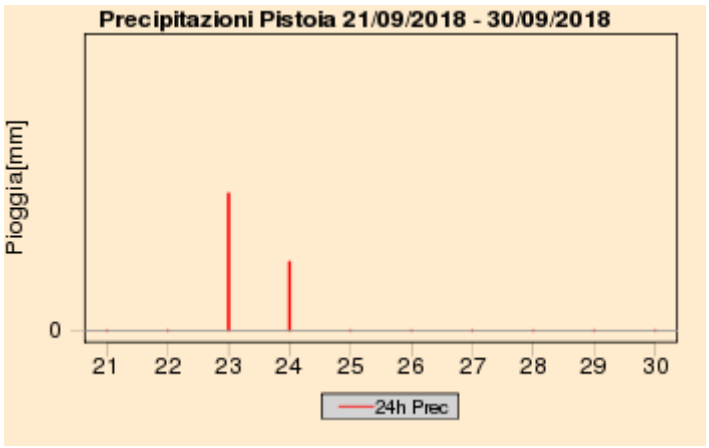






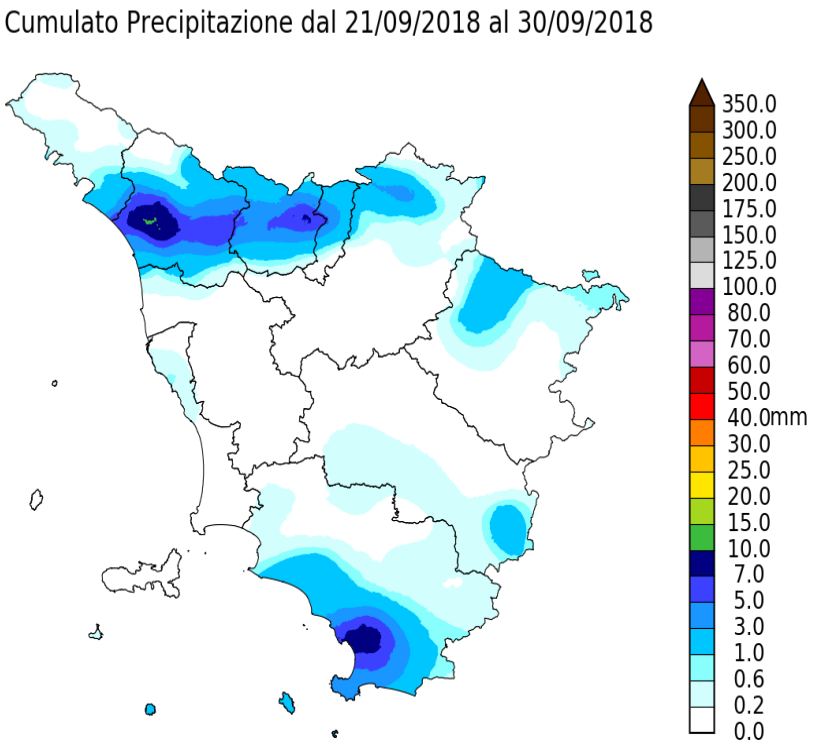






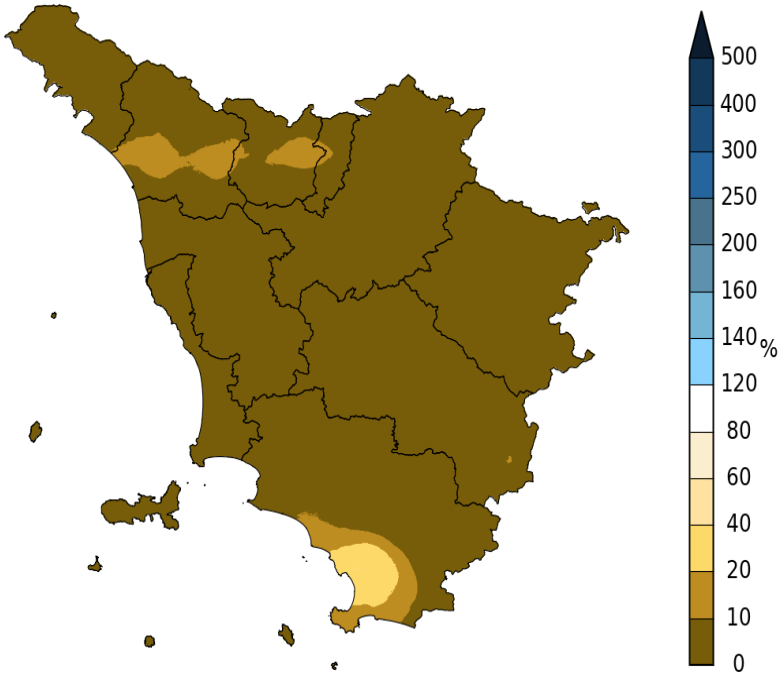


Quadro regionale – Cumulati decadali di precipitazione, anomalia di precipitazione e numero di giorni di pioggia



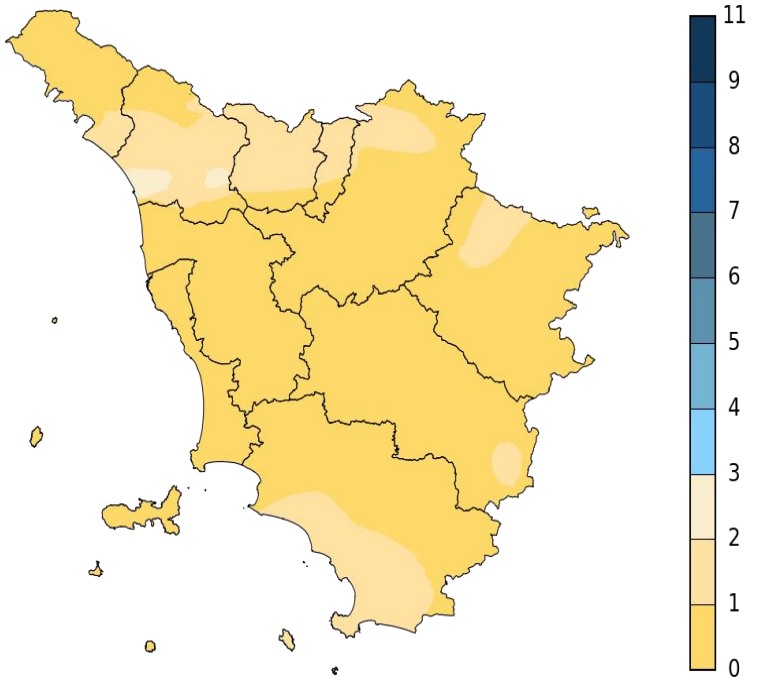
Dati: SIR Regione Toscana, AM, LaMMA

Percentuale di Precipitazione rispetto alla media climatica
dal 21/09/2018 al 30/09/2018



Dati: SIR Regione Toscana, AM, LaMMA

Giorni con Pioggia ≥ di 1 mm dal 21/09/2018 al 30/09/2018

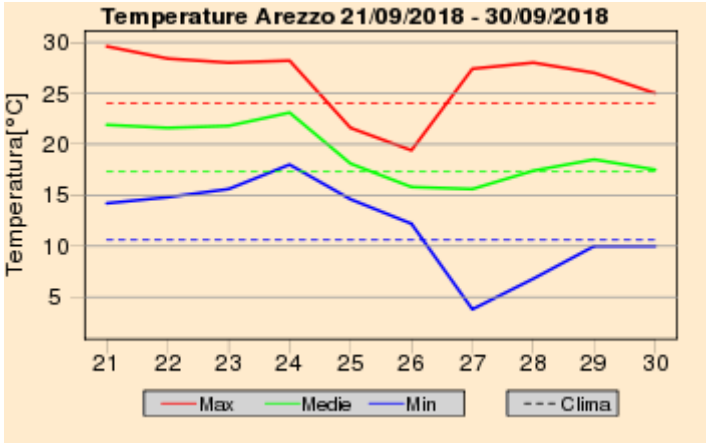


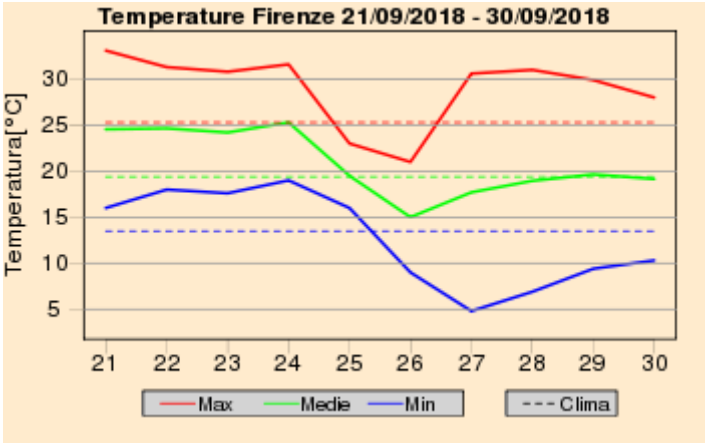
Dati: SIR Regione Toscana, AM, LaMMA

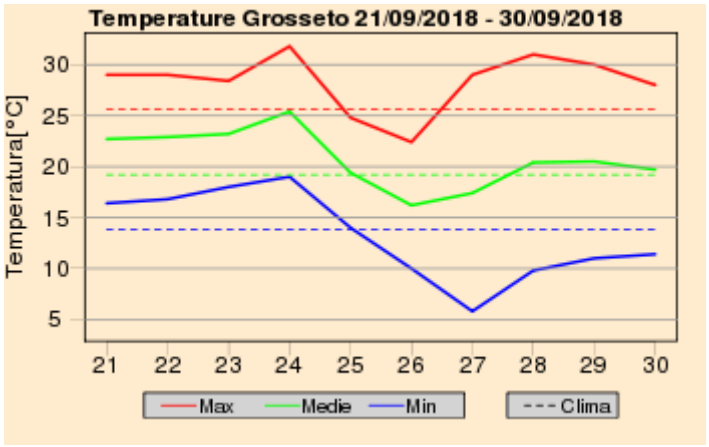
III decade - Quadro regionale – Temperature

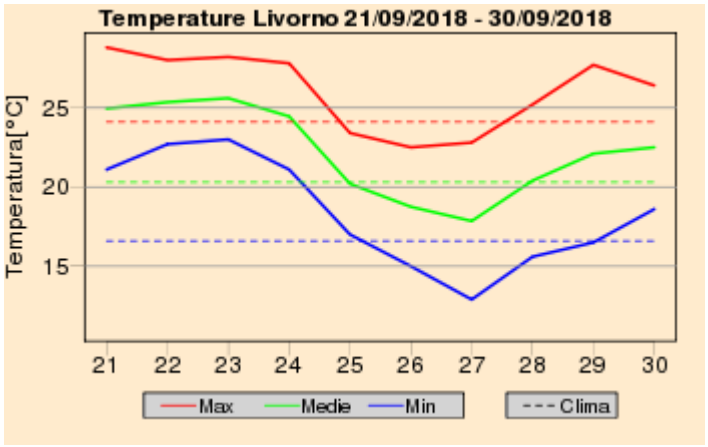
Nel corso della terza decade di settembre si sono registrate generalmente temperature superiori alle medie di riferimento, in particolare a inizio decade e nuovamente sul finire del mese; tra il 24 e il 27 tuttavia si è assistito ad una irruzione di aria più fresca che ha favorito un temporaneo calo dei valori termici, soprattutto per quanto riguarda le minime.

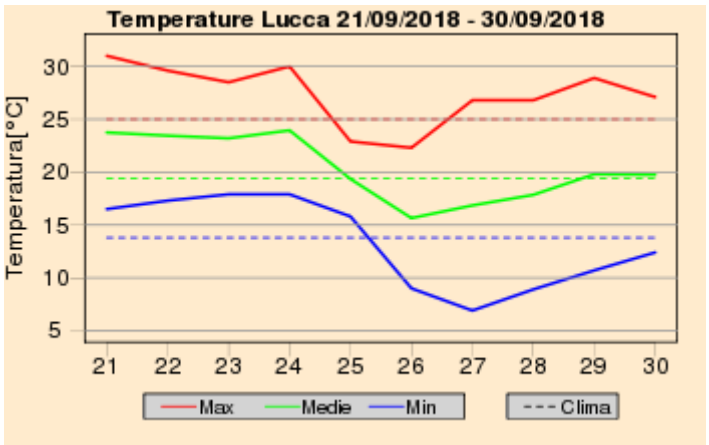
Nel complesso la decade risulta leggermente più calda della media con i valori massimi che hanno fatto registrare una anomalia positiva di circa 2 gradi e con i valori minimi complessivamente in media.

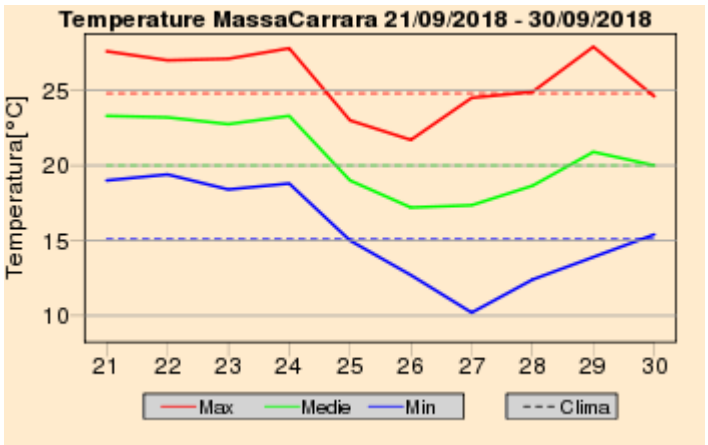


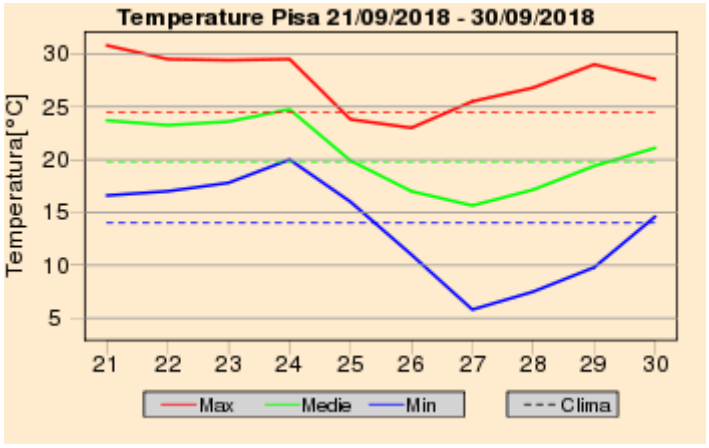


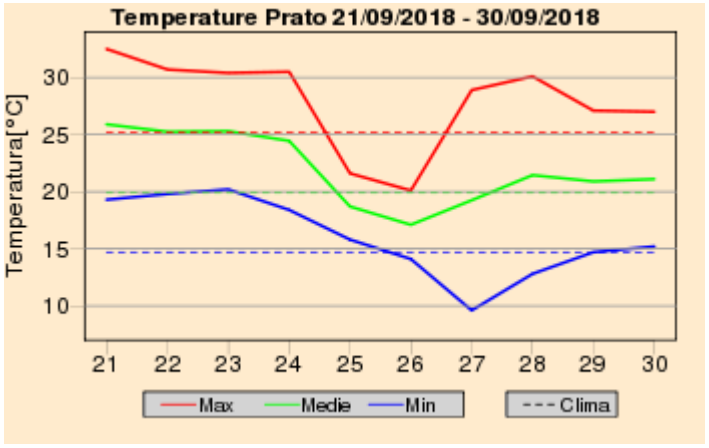


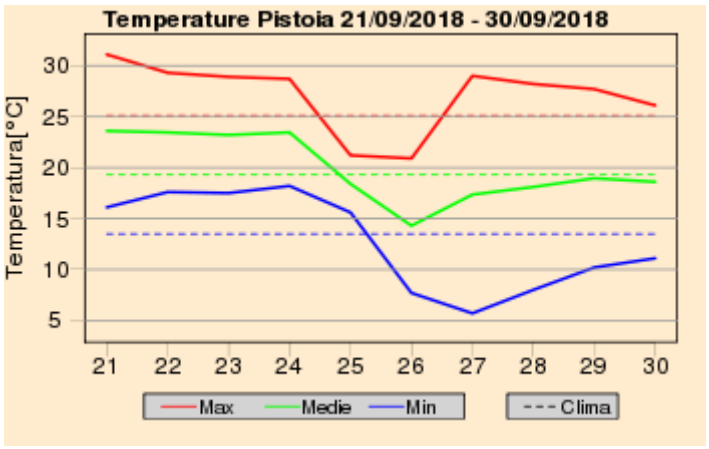


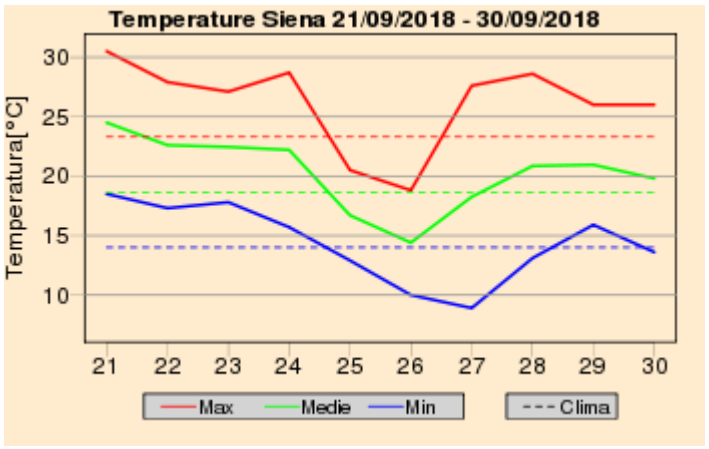




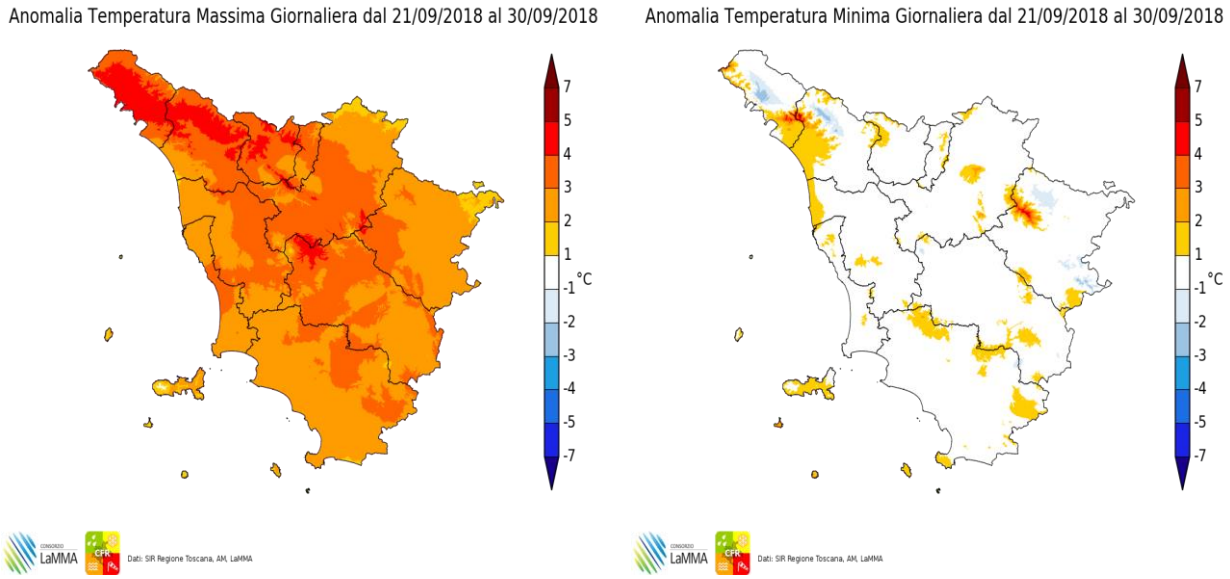








Quadro regionale – Anomalie termiche

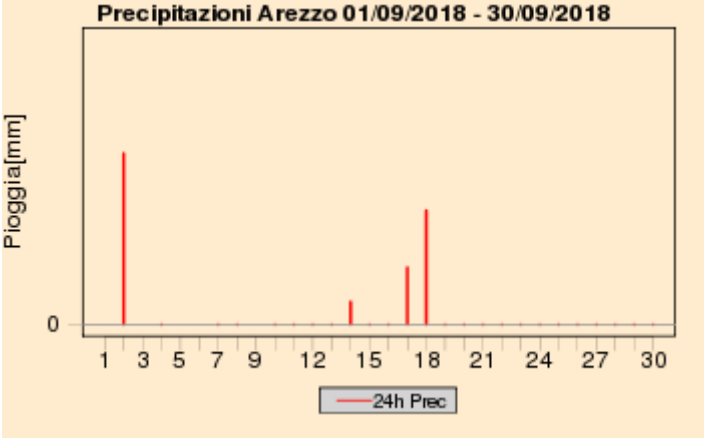


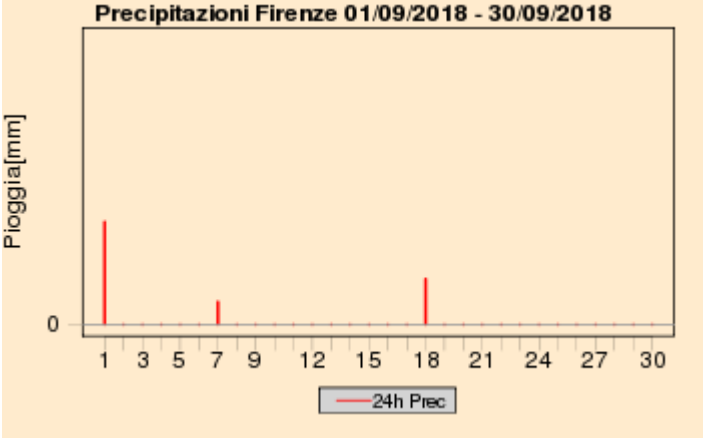
Anomalia termica decadale per le temperature massime e minime giornaliere

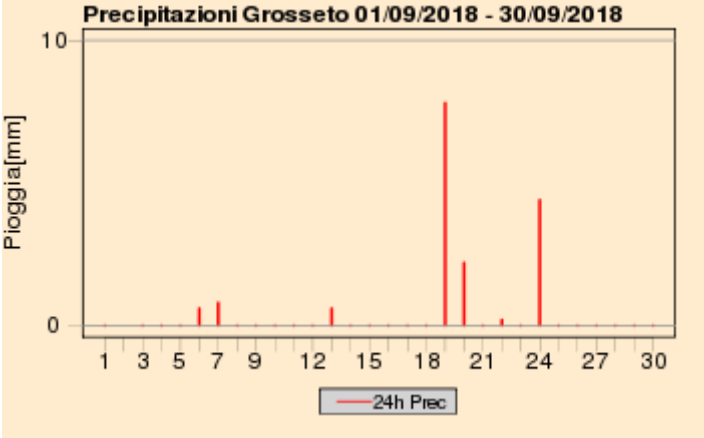
Grafici mensili: Precipitazioni

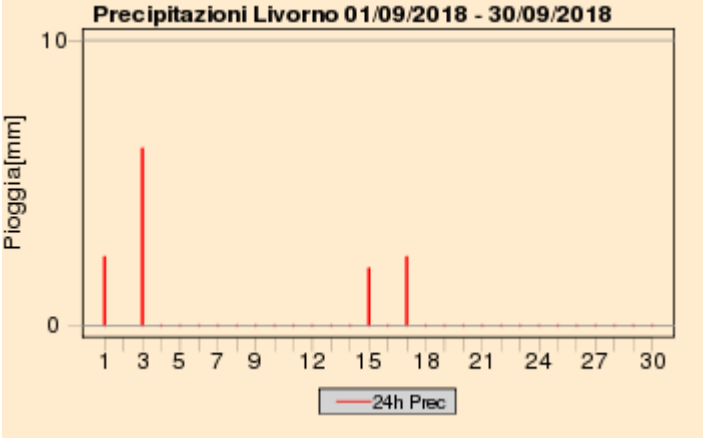
Il mese di Settembre 2018 è risultato essere decisamente avaro di precipitazioni: i cumulati mensili più elevati sono stati osservati su gran parte della lucchesia, su limitate zone delle province di Massa e di Pisa e sui versanti emiliano romagnoli dell'Appennino, ove si sono raggiunti valori compresi tra 50 e 100 mm, mentre su buona parte della regione si sono registrati non più di 10-20 mm. Nel complesso il deficit di precipitazione risulta attorno al 70% rispetto a quanto è piovuto mediamente nel decennio 1981-2010.

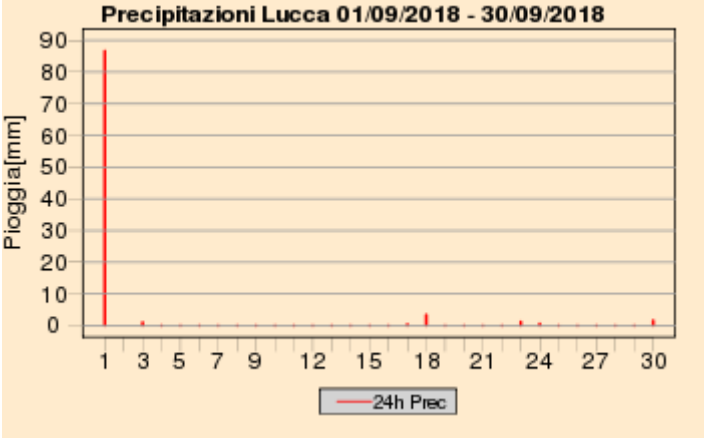
Quadro regionale – Precipitazioni osservate nei capoluoghi

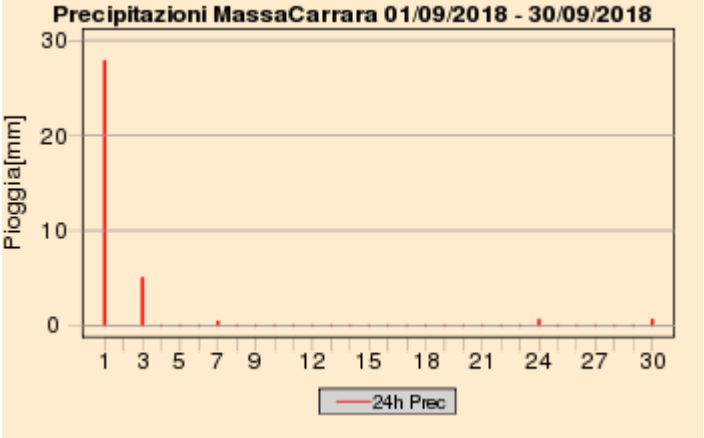


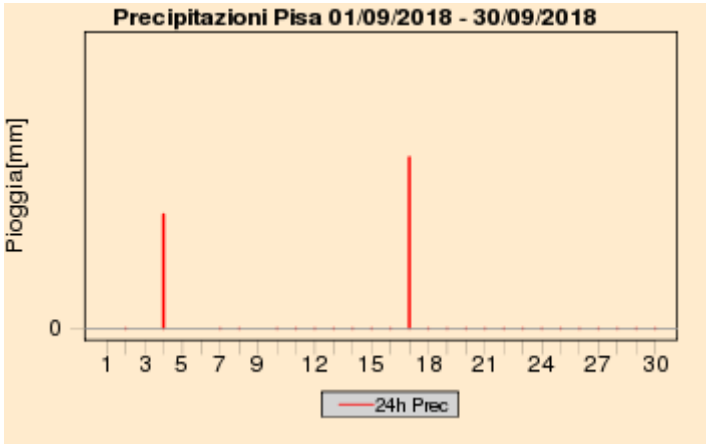


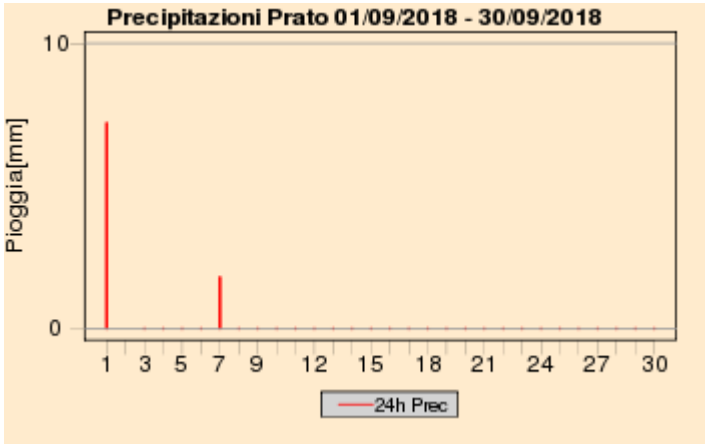


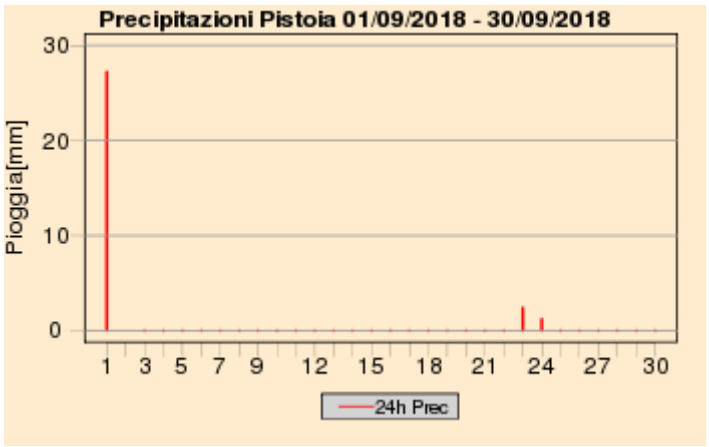


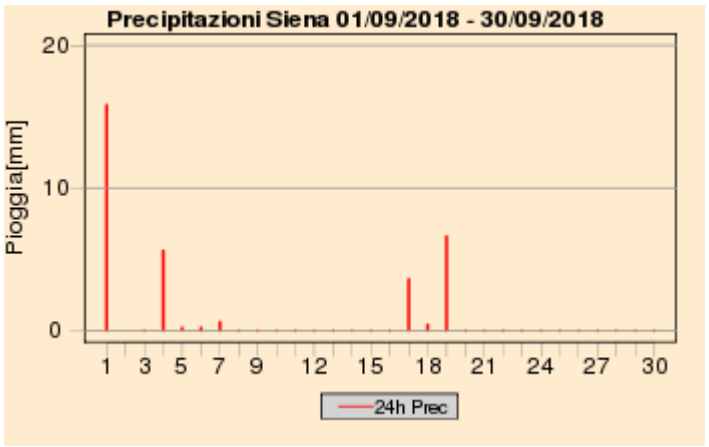




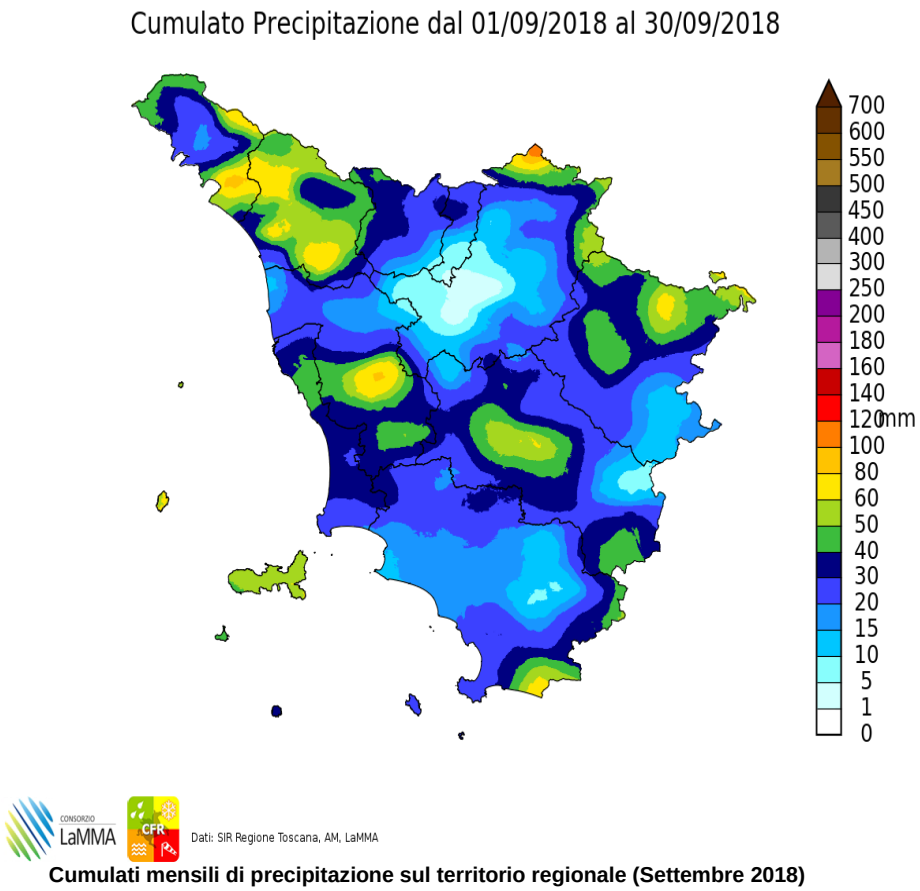






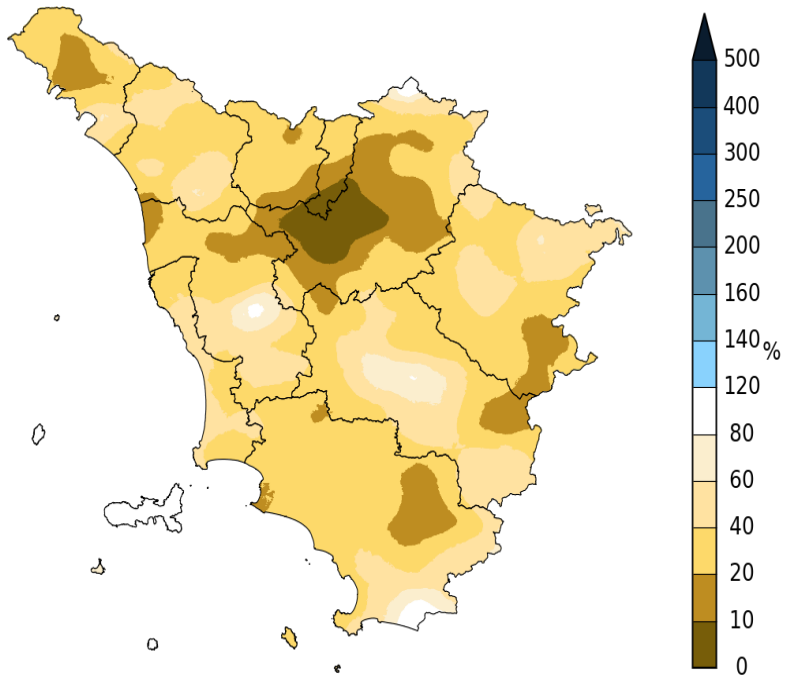


Quadro regionale – Cumulati mensili di precipitazione, anomalia di precipitazione e numero di giorni di pioggia



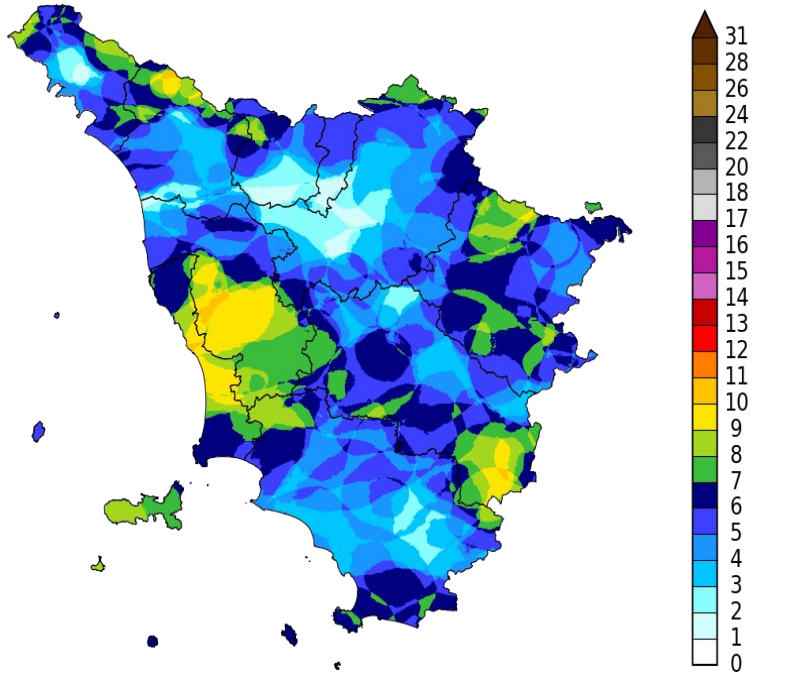
Cumulati mensili di precipitazione sul territorio regionale (Settembre 2018)

Percentuale di Precipitazione rispetto alla media climatica
dal 01/09/2018 al 30/09/2018



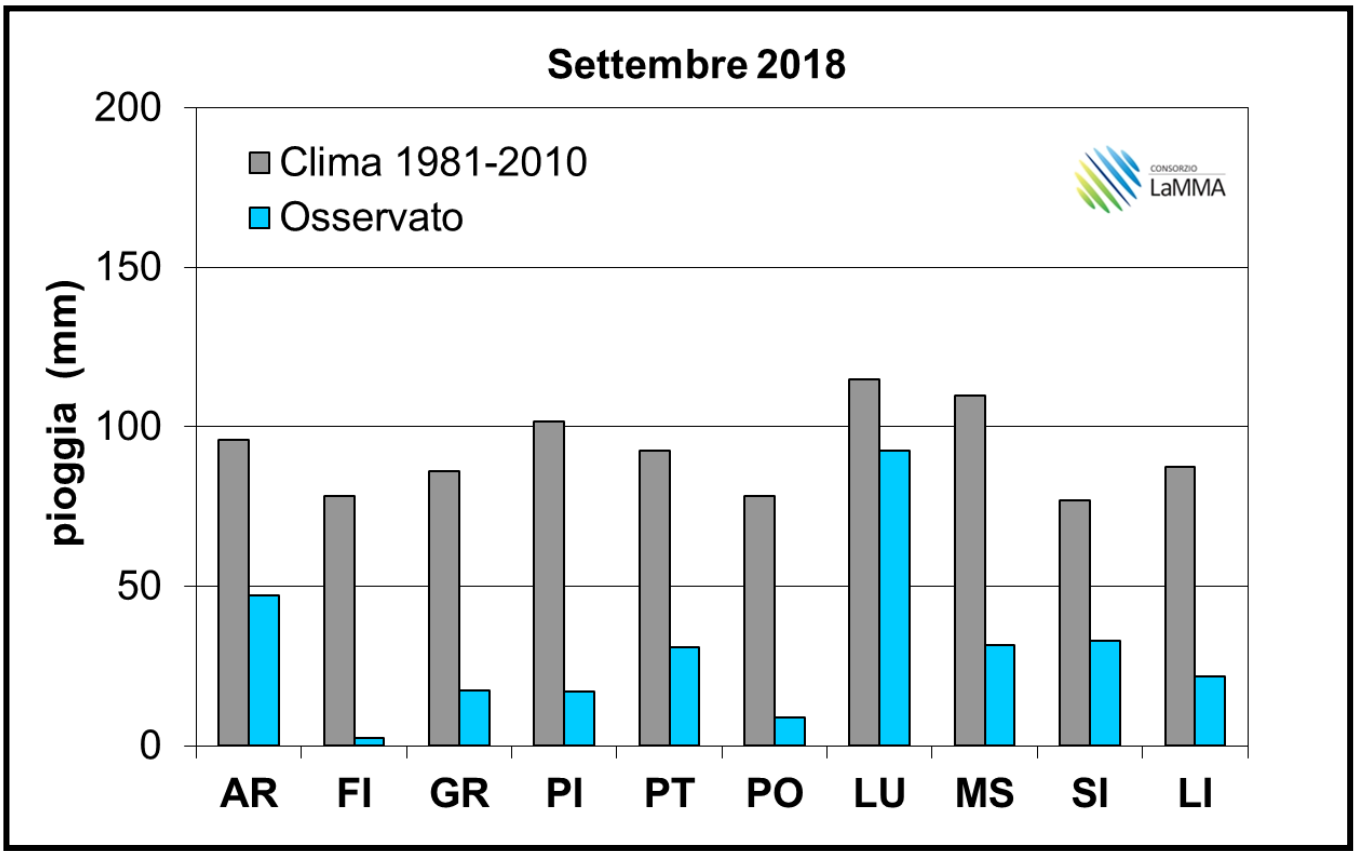
Dati: SIR Regione Toscana, AM, LaMMA

Giorni con Pioggia ≥ di 1 mm dal 01/09/2018 al 30/09/2018

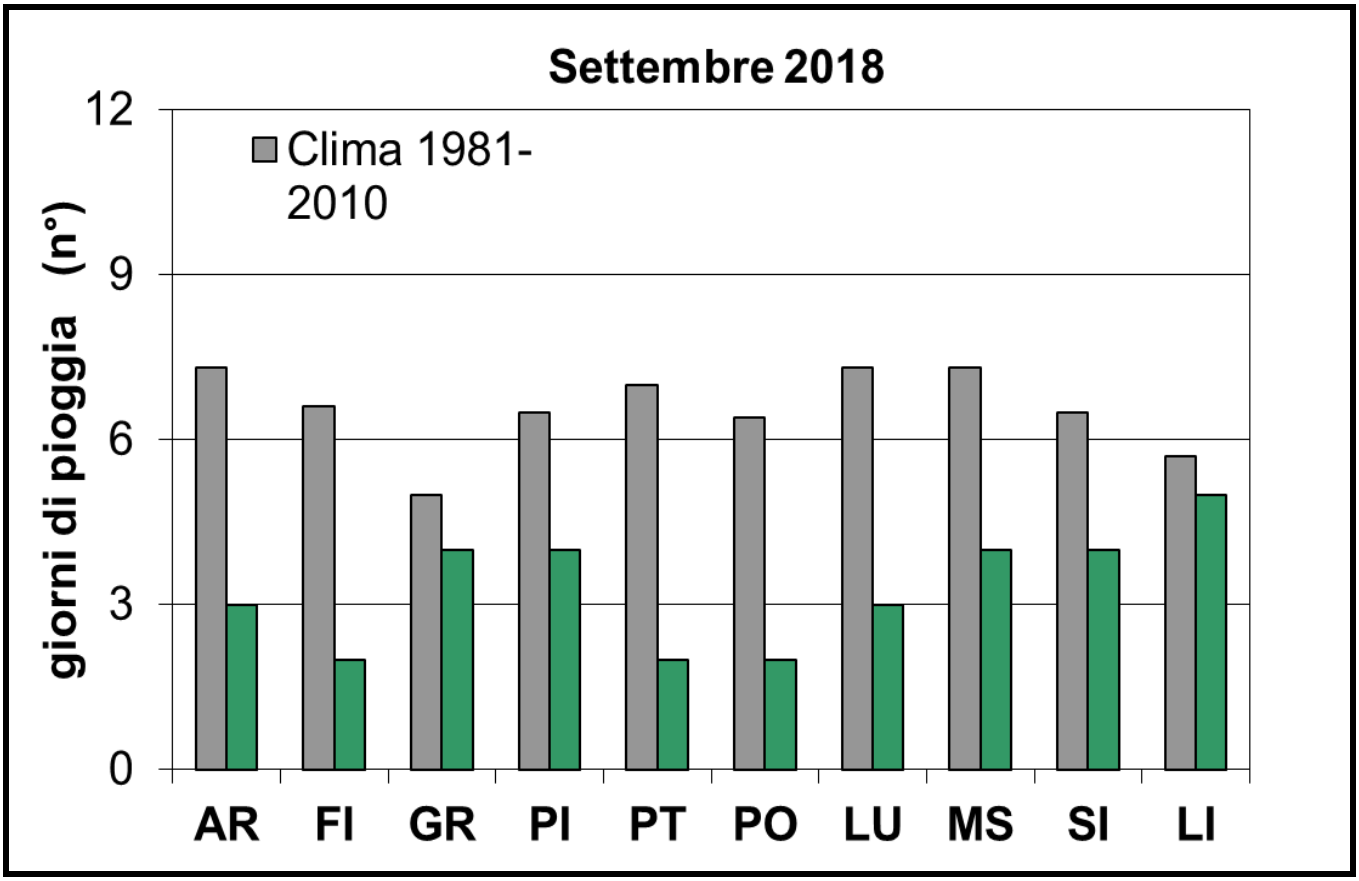


Dati: SIR Regione Toscana, AM, LaMMA

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



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

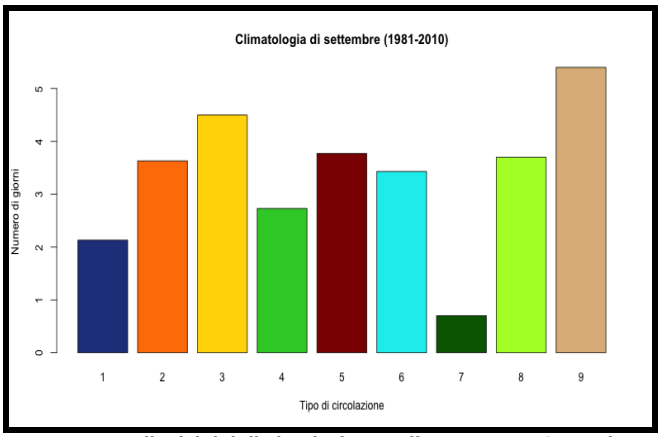


Deficit/surplus di giorni piovosi osservato nei capoluoghi toscani (Settembre 2018)

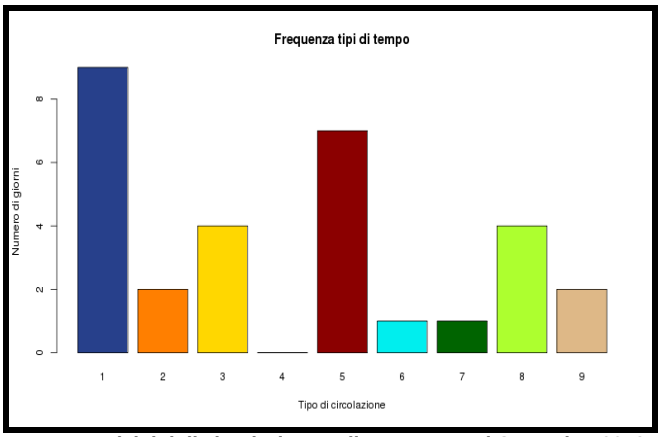
tipi di circolazione prevalenti nel mese di Settembre e impatto sulle precipitazioni

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

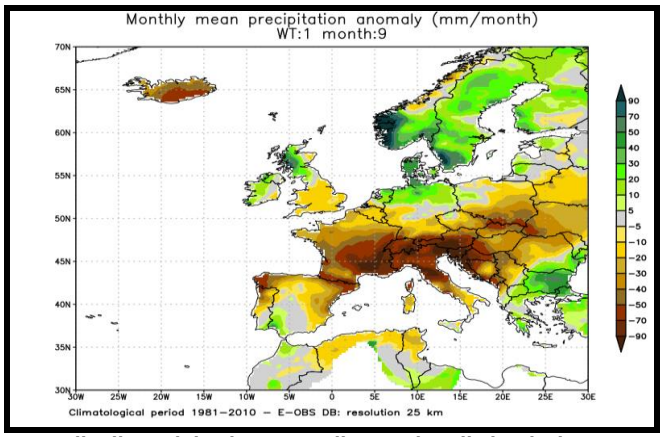
I tipi di circolazione prevalenti nel corso del mese di Settembre 2018 secondo la classificazione PCT (Principal Component Transversa) sono risultati la numero 1 (***alta pressione a nord, minimo al centro-sud con flusso da E-NE***), osservata 9 giorni su 30, e la numero 5 (***pressione medio-alta con minimo sull'Egeo e flusso da E-NE)*** osservata 7 giorni su 31; entrambi i tipi di circolazione sono caratterizzati sulla Toscana da correnti asciutte e stabili nord orientali e da precipitazioni scarse o assenti su gran parte dell'Italia centro settentrionale, compresa la nostra regione; una configurazione questa che naturalmente ha favorito l'occorrenza dei un settembre con un marcato deficit precipitativo.



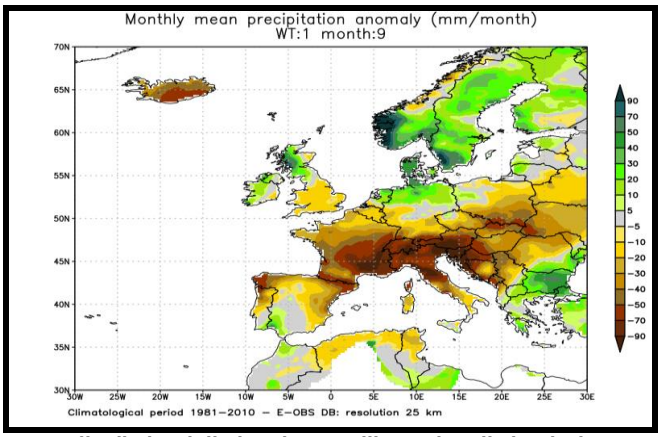
Frequenza media dei tipi di circolazione sulla Toscana a Settembre



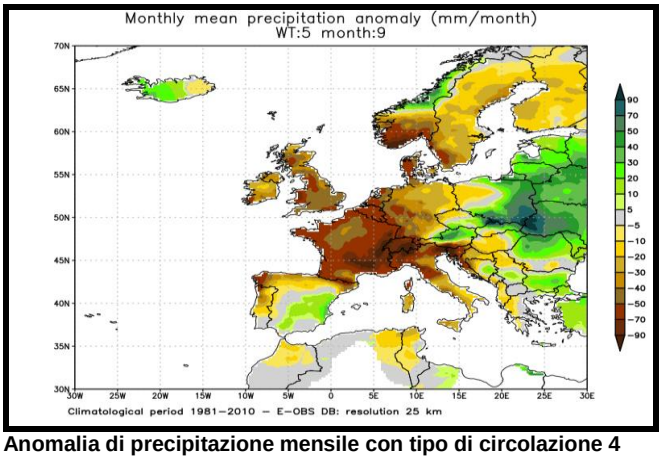
Frequenza dei tipi di circolazione sulla Toscana nel Settembre 2018



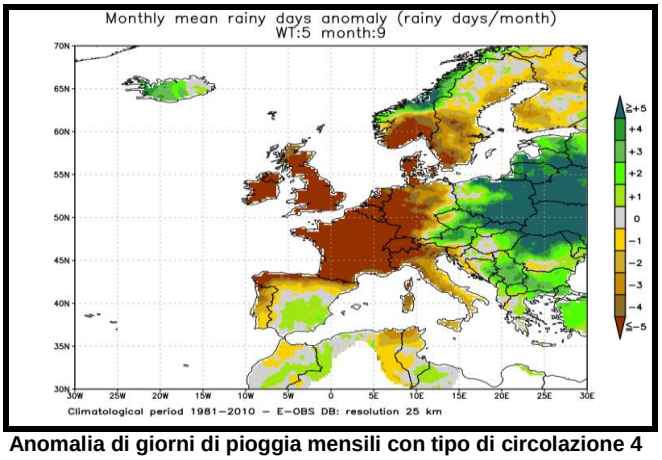
Anomalia di precipitazione mensile con tipo di circolazione 7



Anomalia di giorni di pioggia mensili con tipo di circolazione 7



Anomalia di precipitazione mensile con tipo di circolazione 4



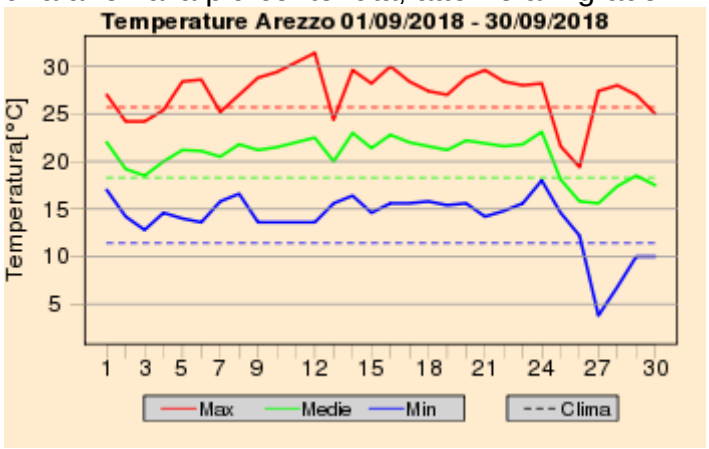
Anomalia di giorni di pioggia mensili con tipo di circolazione 4

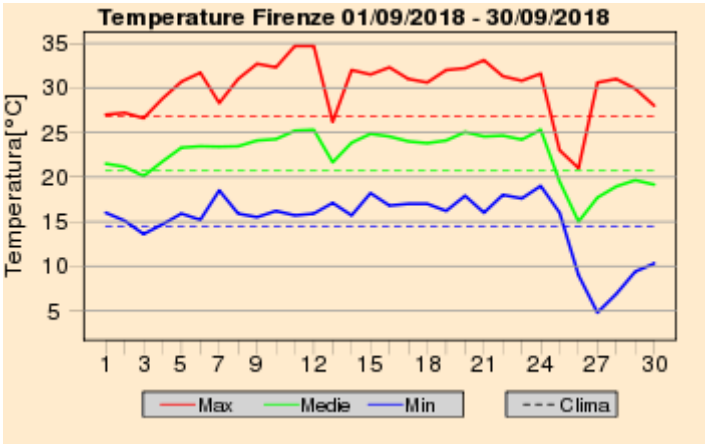
Grafici mensili: Temperature

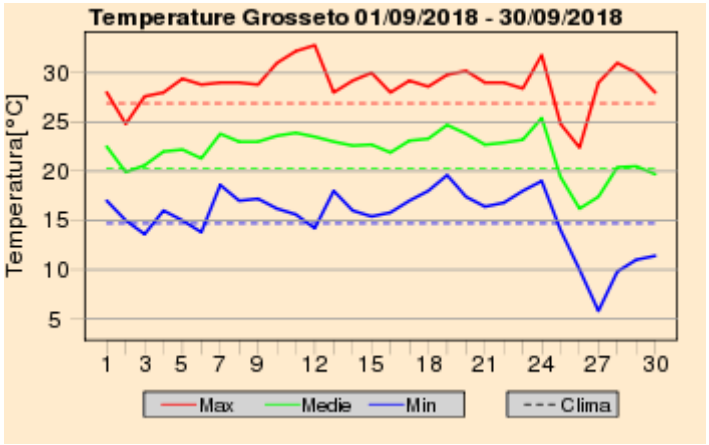
Dal punto di vista termico il mese di Settembre è risultato più caldo rispetto alla normale climatica calcolata sul trentennio ‘81-2010.

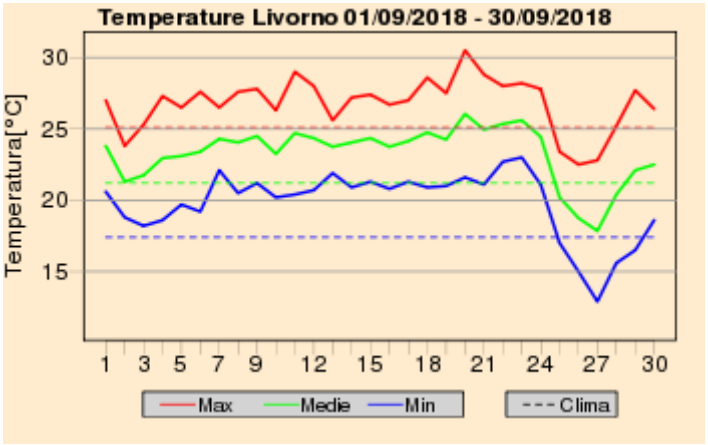
Le temperature, sia minime che massime, si sono infatti mantenute quasi costantemente al di sopra dei valori di riferimento fino al 25 del mese per poi calare solo temporaneamente su valori inferiori alle medie.

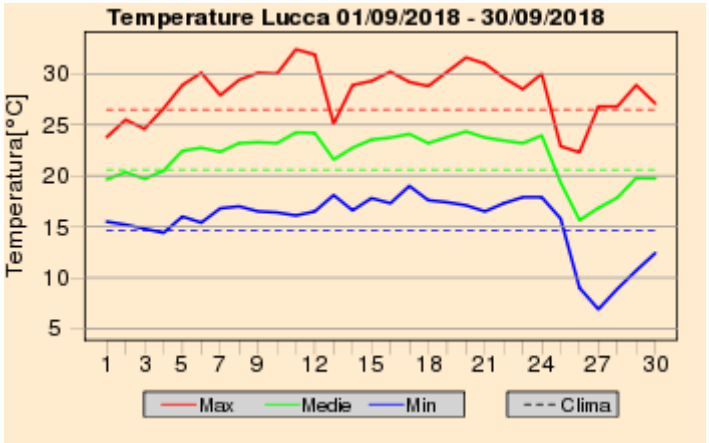
Le anomalie più significative si sono osservate per i valori massimi giornalieri, che mediamente risultano di oltre 2 gradi superiori alle medie; le minime hanno fatto registrare una anomalia più contenuta, attorno a 1 grado.

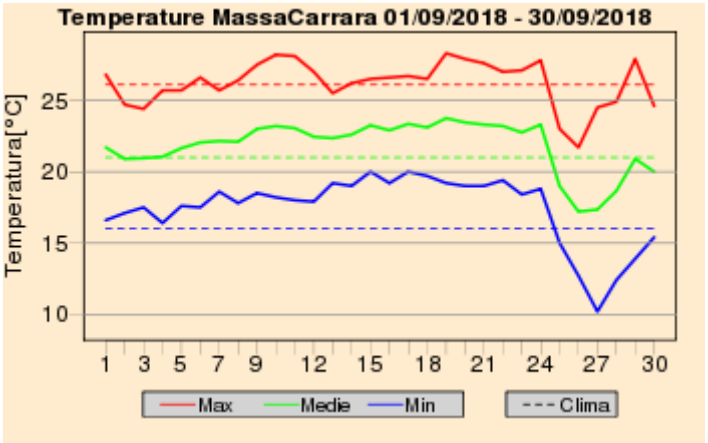


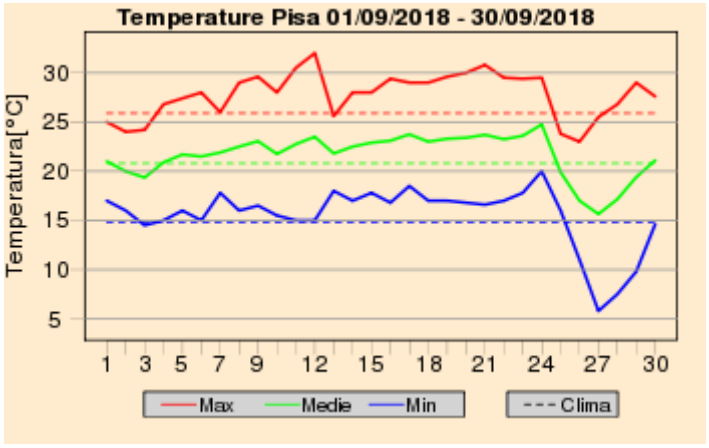


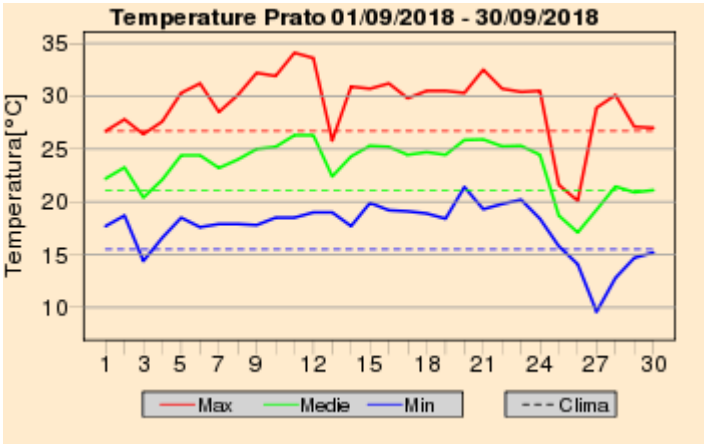


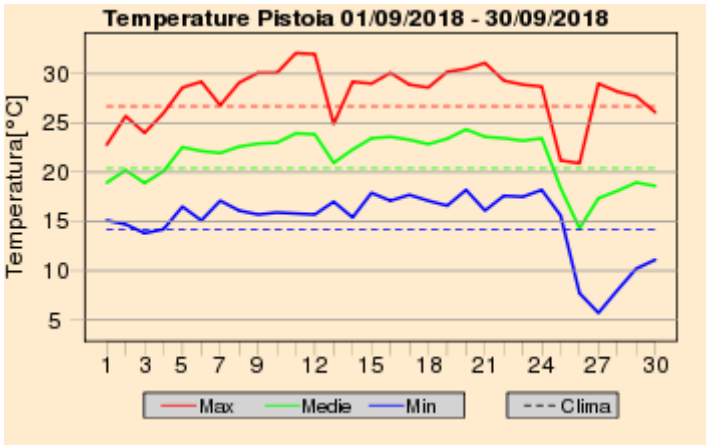


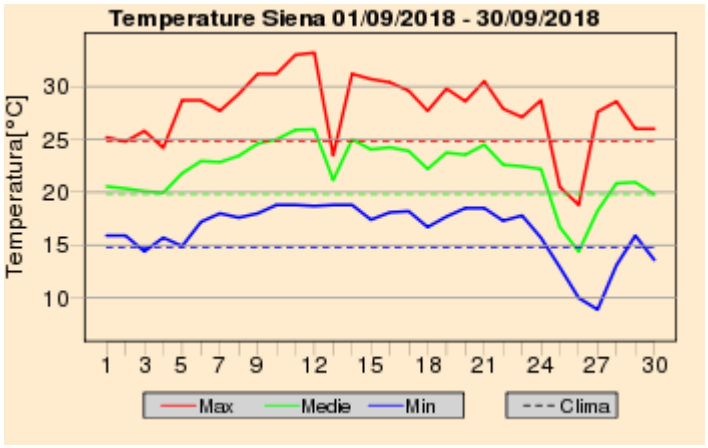




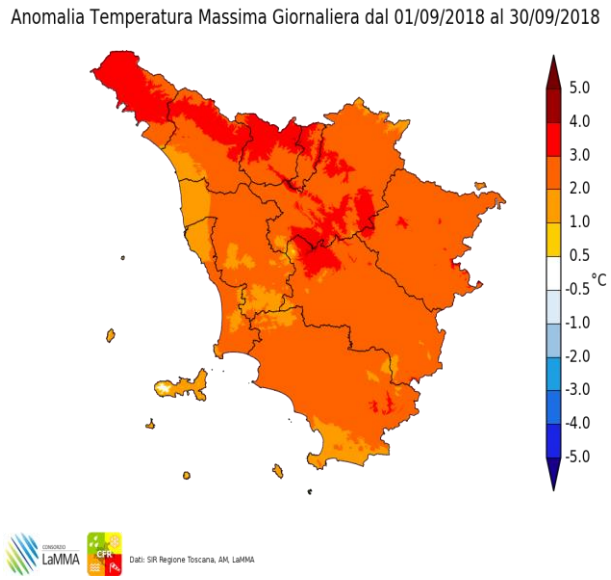


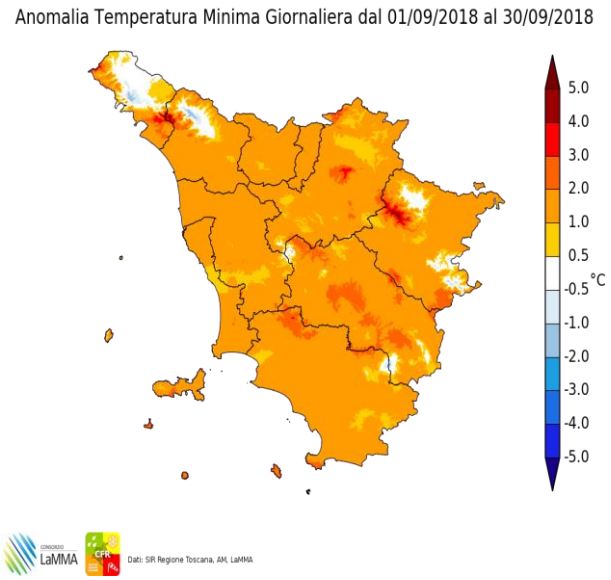






Quadro regionale – Anomalie termiche



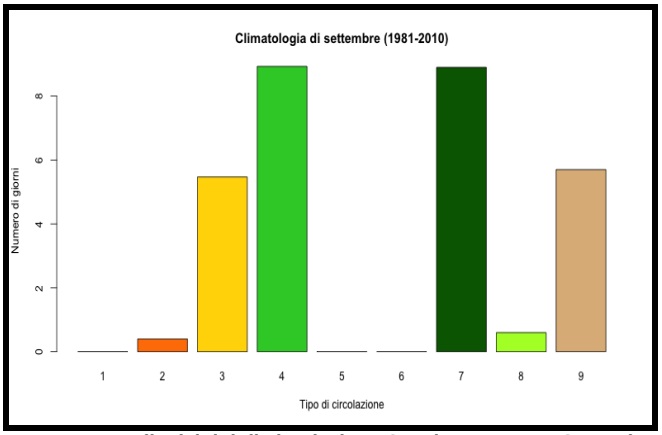


Anomalia termica mensile per le temperature massime e minime giornaliere

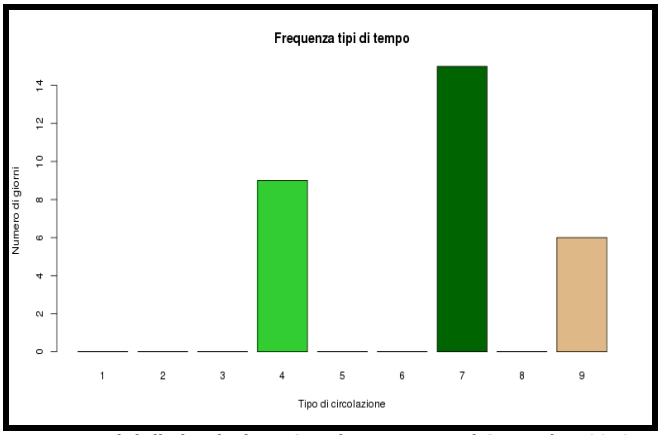
Quadro regionale – tipi di circolazione prevalenti nel mese di Settembre e impatto sulle temperature

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

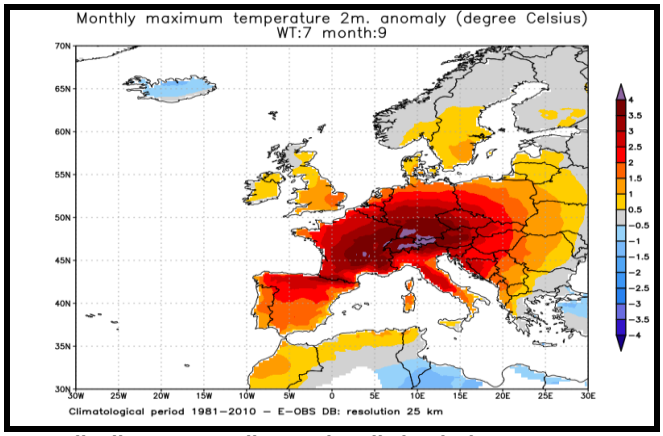
Le temperature superiori alle medie osservate nel corso del mese di Settembre 2018 sono state favorite dalla netta prevalenza di due tipi di circolazione (classificazione SAN - Simulated Annealing) che risultano spesso ricorrenti nel mese di Settembre: il tipo di circolazione 7 e il tipo di tempo 4.
Il tipo di tempo 7 (***promontorio nord africano con afflusso di aria calda da S***), osservata ben 15 giorni su 30 favorisce tipicamente temperature sopra la media su quasi tutto il continente europeo (Europa centrale in particolare), soprattutto per quanto riguarda i valori massimi giornalieri.
Il tipo di tempo 4 (***promontorio con flusso di matrice atlantica***), osservata per 9 giorni, risulta generalmente associato a temperature in linea o leggermente superiori alle medie sulla penisola italiana.



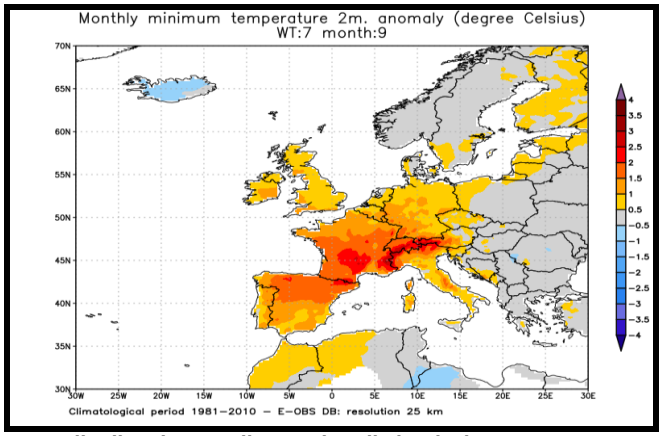
Frequenza media dei tipi di circolazione SAN in Toscana a Settembre



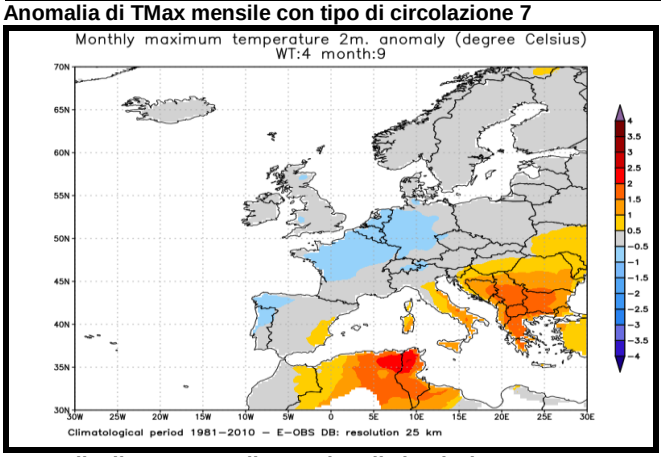
Frequenza tipi di circolazione SAN in Toscana nel Settembre 2018



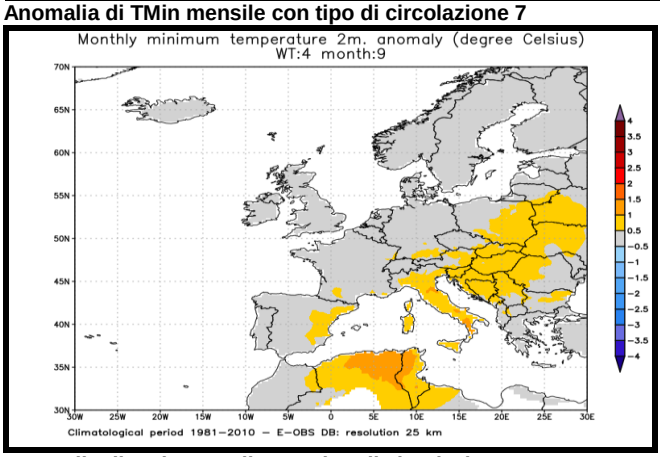
Anomalia di TMax mensile con tipo di circolazione 7



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

A cura di:

GIORGIO BARTOLINI
GIULIO BETTI
VALERIO CAPECCHI
LUCA FIBBI
DANIELE GRIFONI
GIANNI MESSERI
FRANCESCO PASI
FRANCESCO PIANI
MATTEO ROSSI
CLAUDIO TEI
TOMMASO TORRIGIANI
ROBERTO VALLORANI
BERNARDO GOZZINI

Fonte Dati:

SERVIZIO IDROLOGICO REGIONALE - SERVIZIO METEOROLOGICO DELL'AERONAUTICA MILITARE - CONSORZIO LAMMA