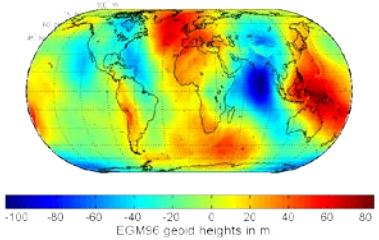
BSMEFFGS

Lebanon Case Study

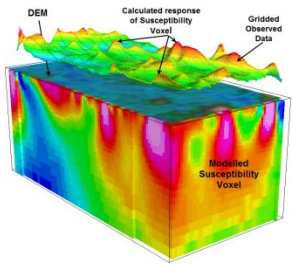
Flash Flood

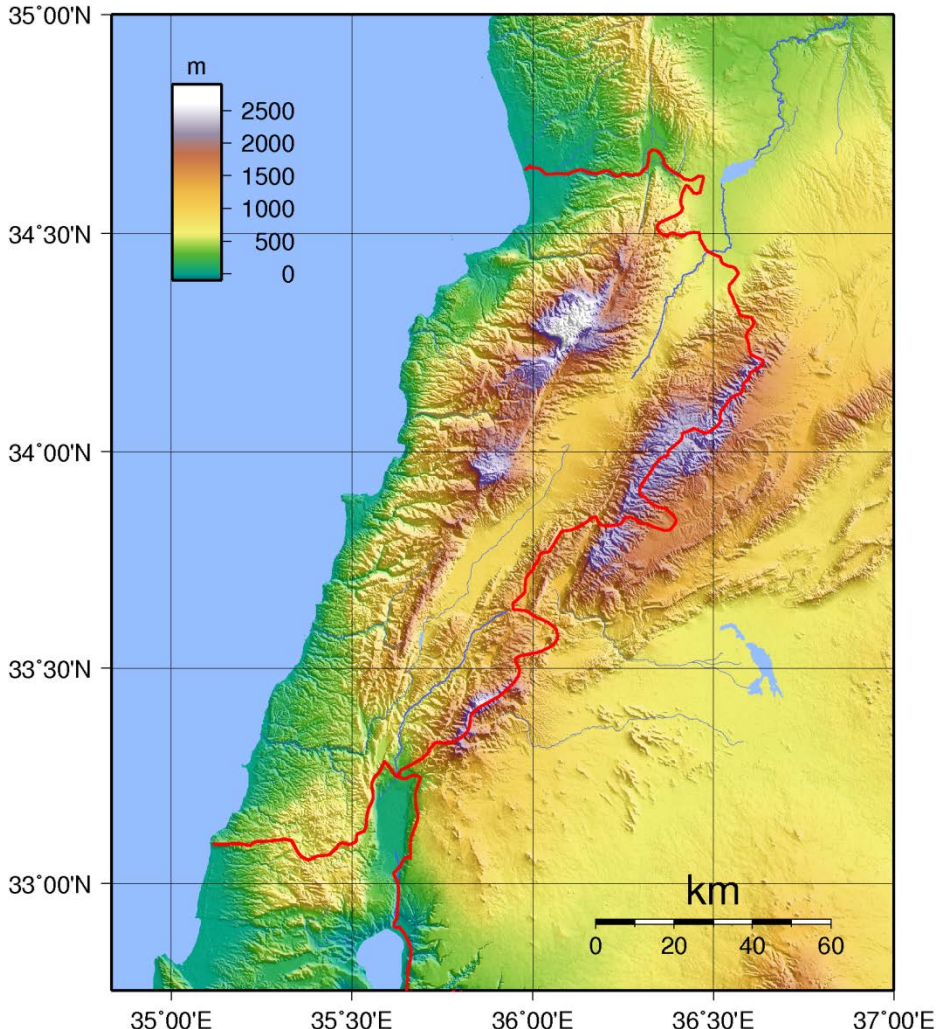
25-10-2015


Europe
Atlantic Ocean
France
Slovenia
Croatia
Bosnia & Herzegovina
Monaco
Ligurian Sea
Italy
Adriatic Sea
Yugoslavia
Black Sea
Albania
Corsica
Balearic Sea
Spain
Tyrrhenian Sea
Greece
Aegean Sea
Asia
Balearic Islands
Sardinia
Ionian Sea
Turkey
Syria
Sicily
Malta
Crete
Cyprus
Algeria
Mediterranean Sea
Lebanon
Morocco
Tunisia
Israel
Africa
Libya

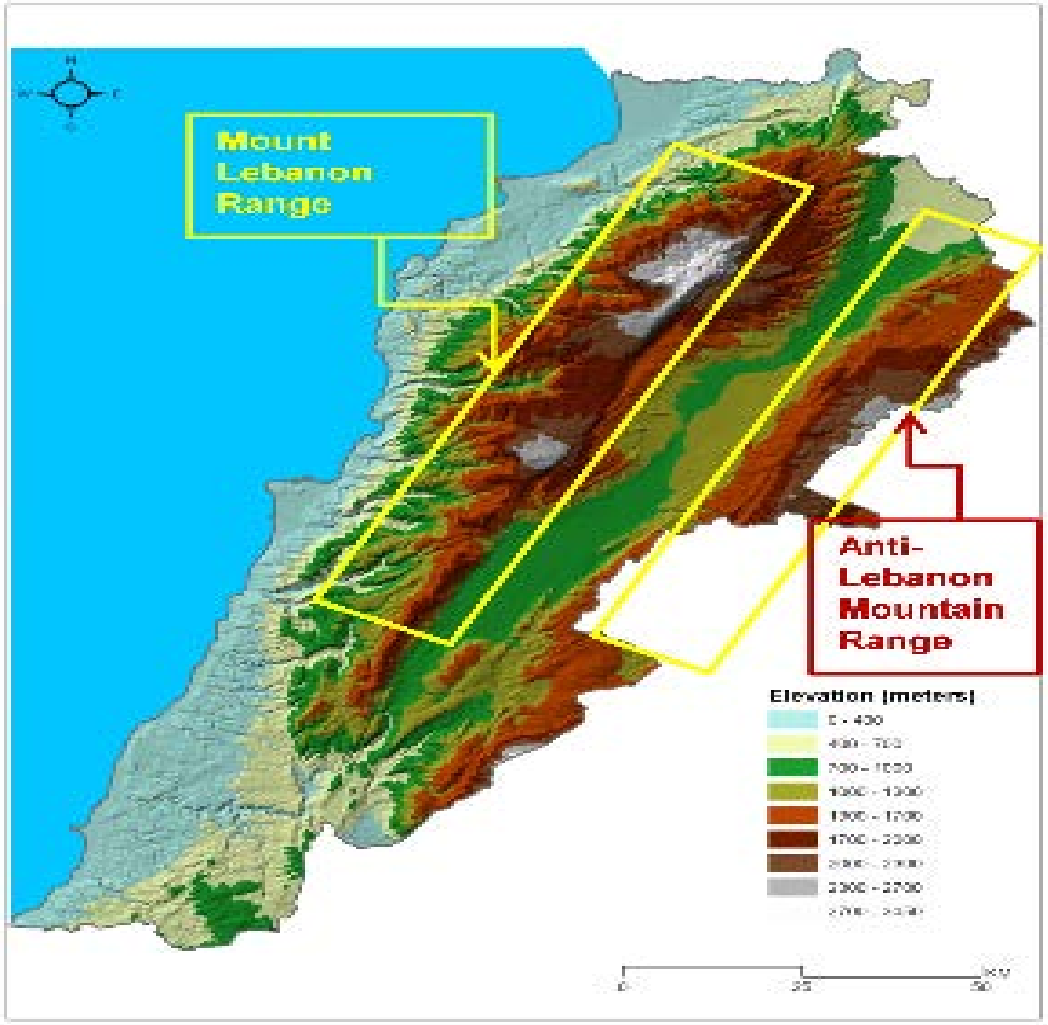


Lebanon Maps

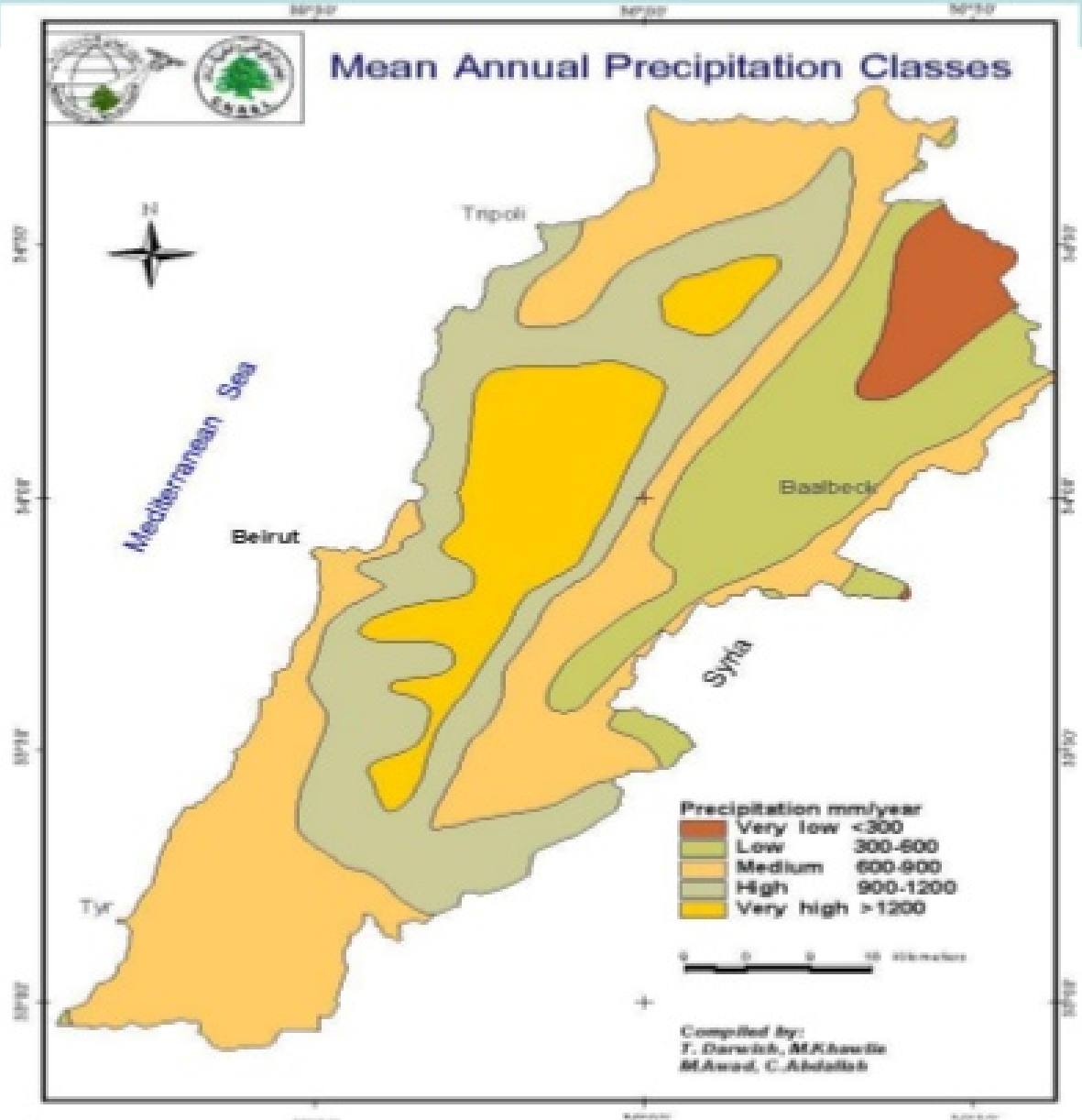




Different maps

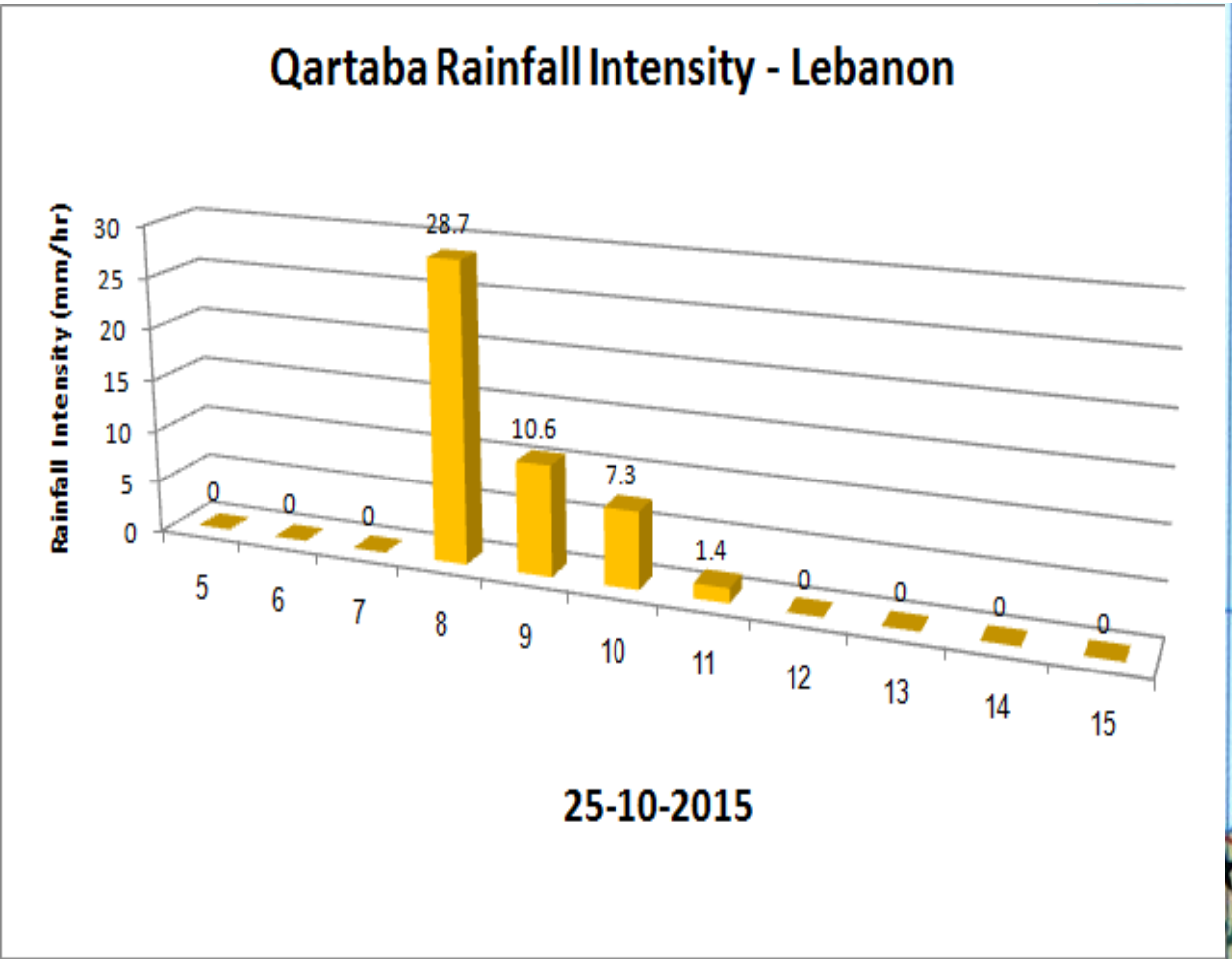


Precipitation

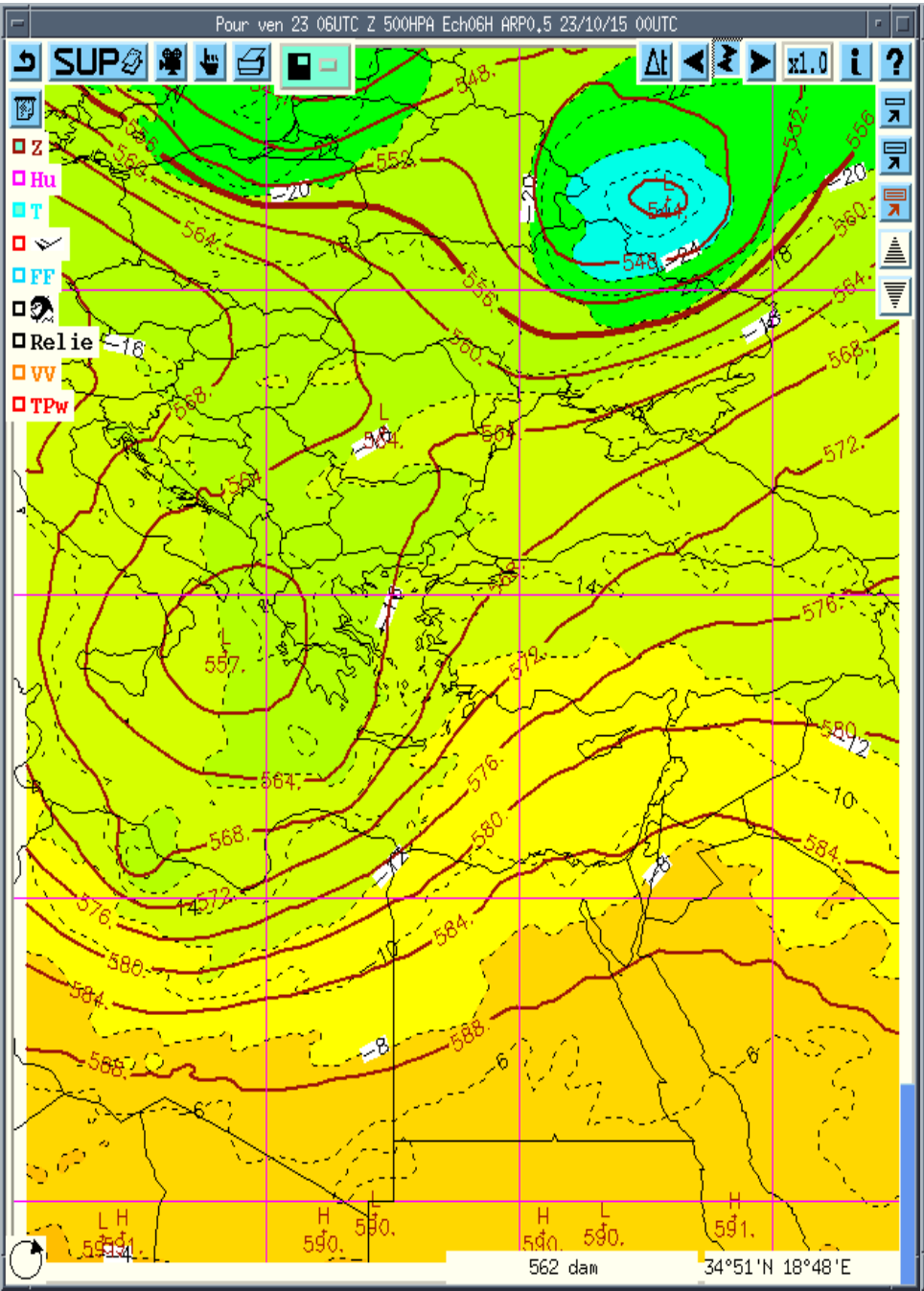


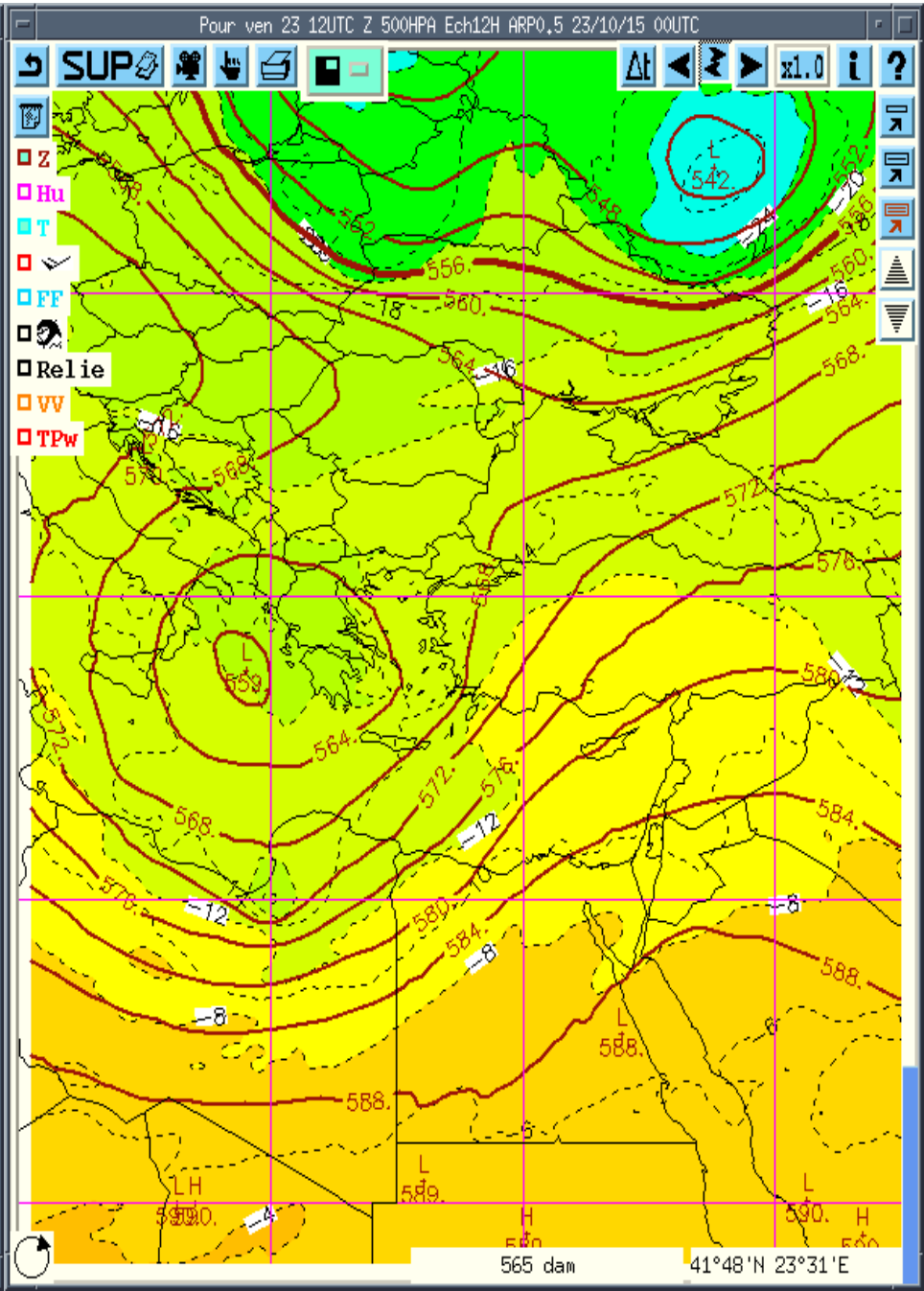
25-10-2015
mm/< 3hrs:
Beirut 49
Tripoli 67 + 104
Abdeh 75
Qartaba 48

QARTABA
40133
E: 1222m

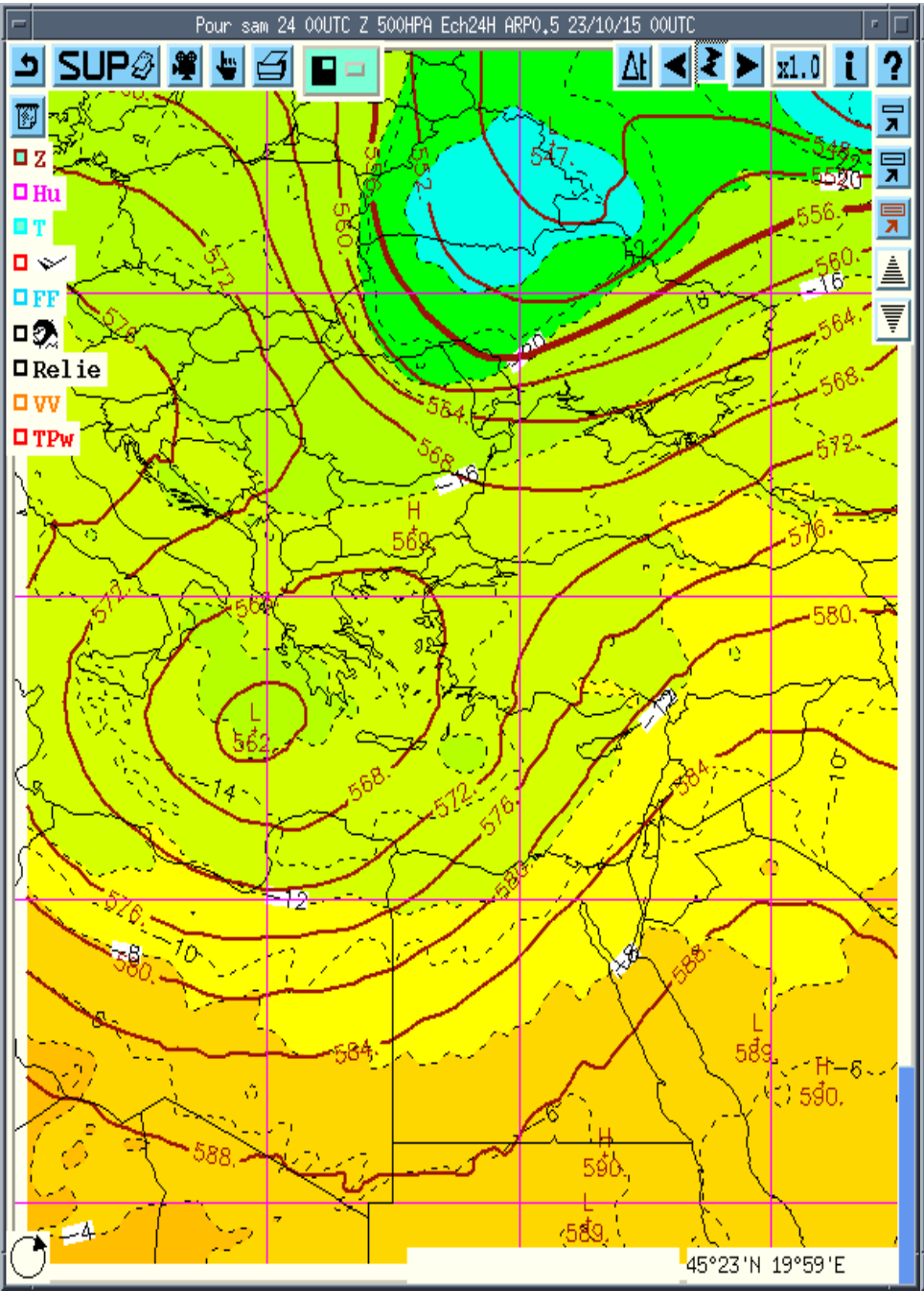


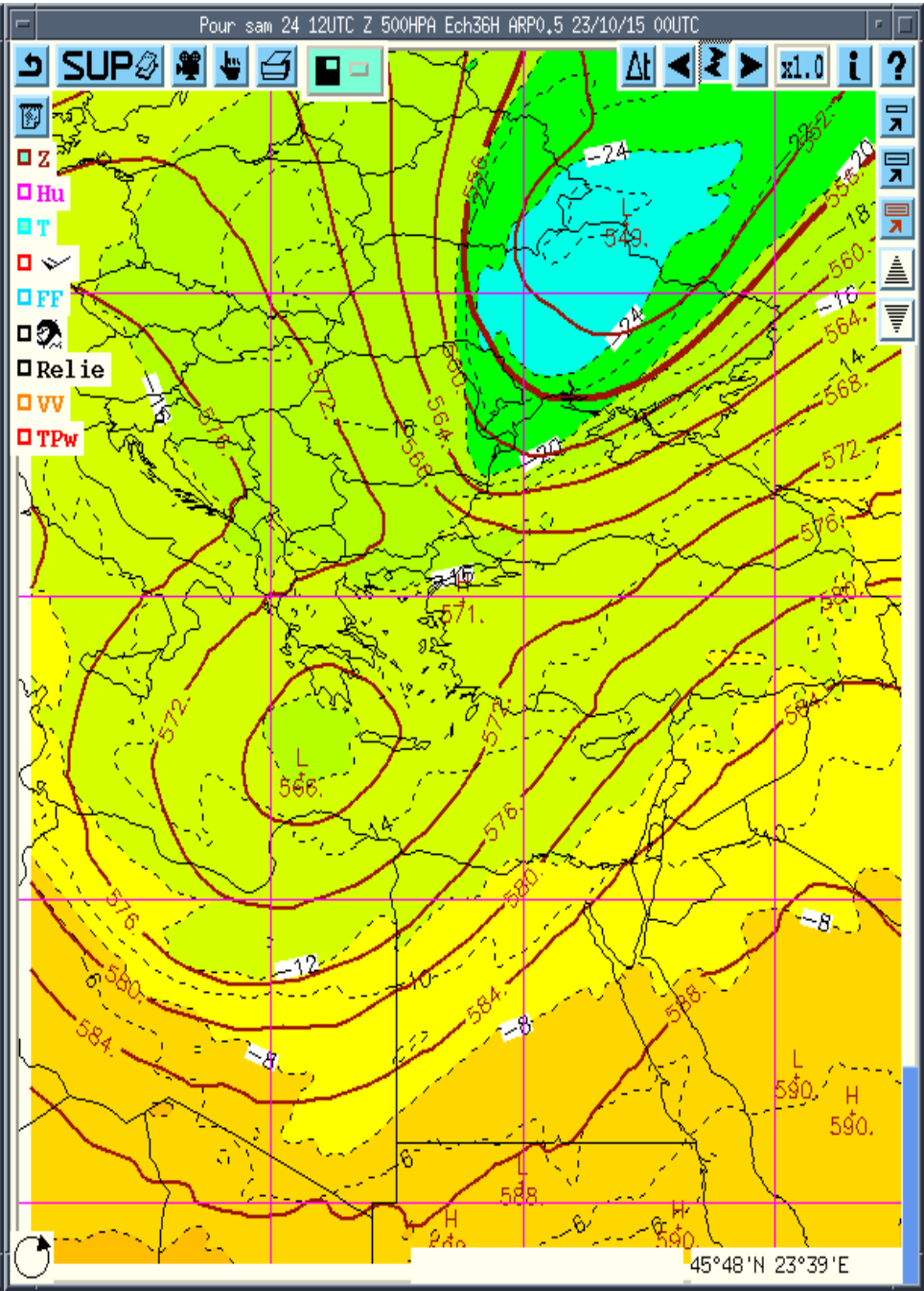
Synop.Analysis (Z+T) 500 hpa 23 Oct 2015 (06 & 12)UTC



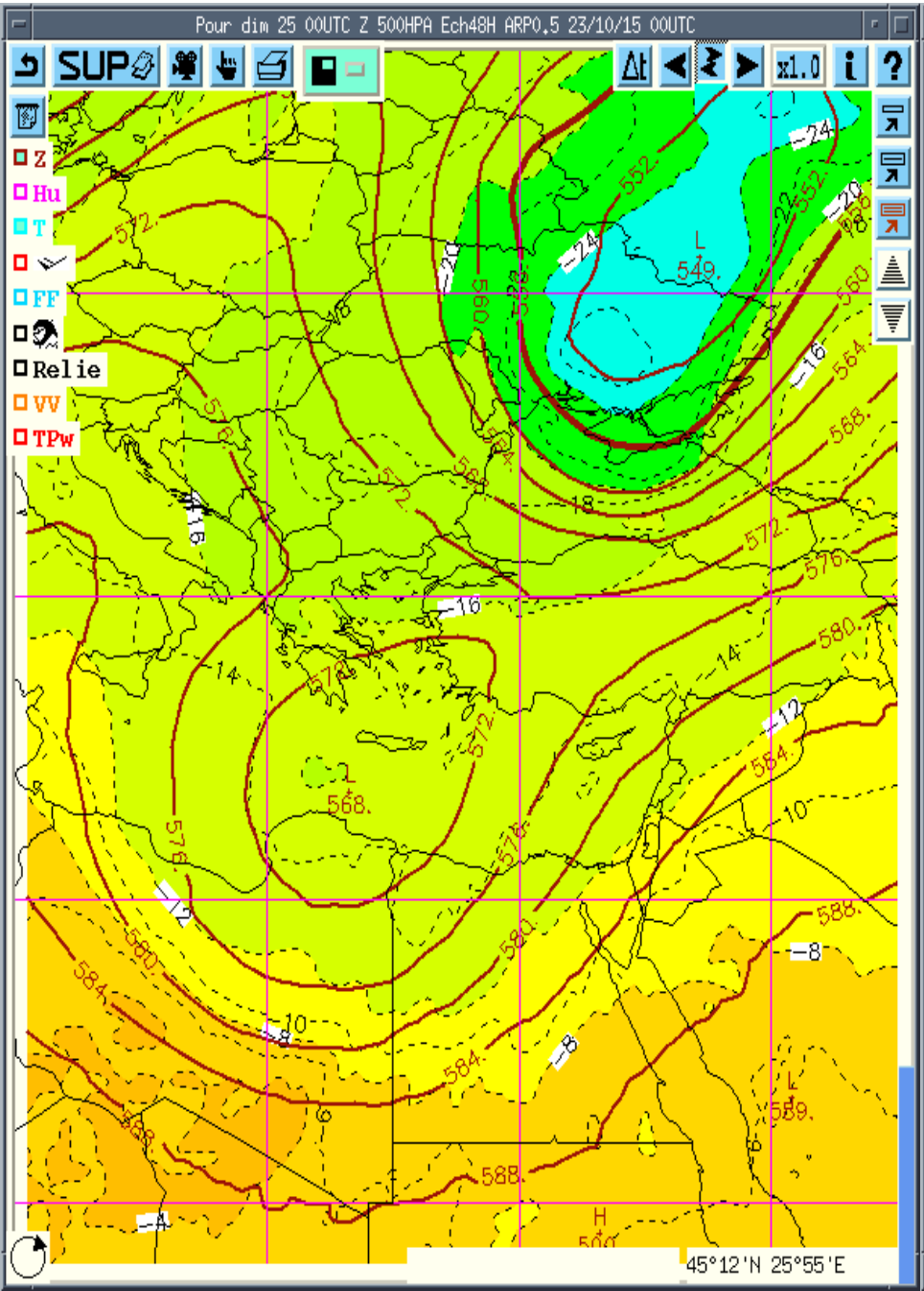


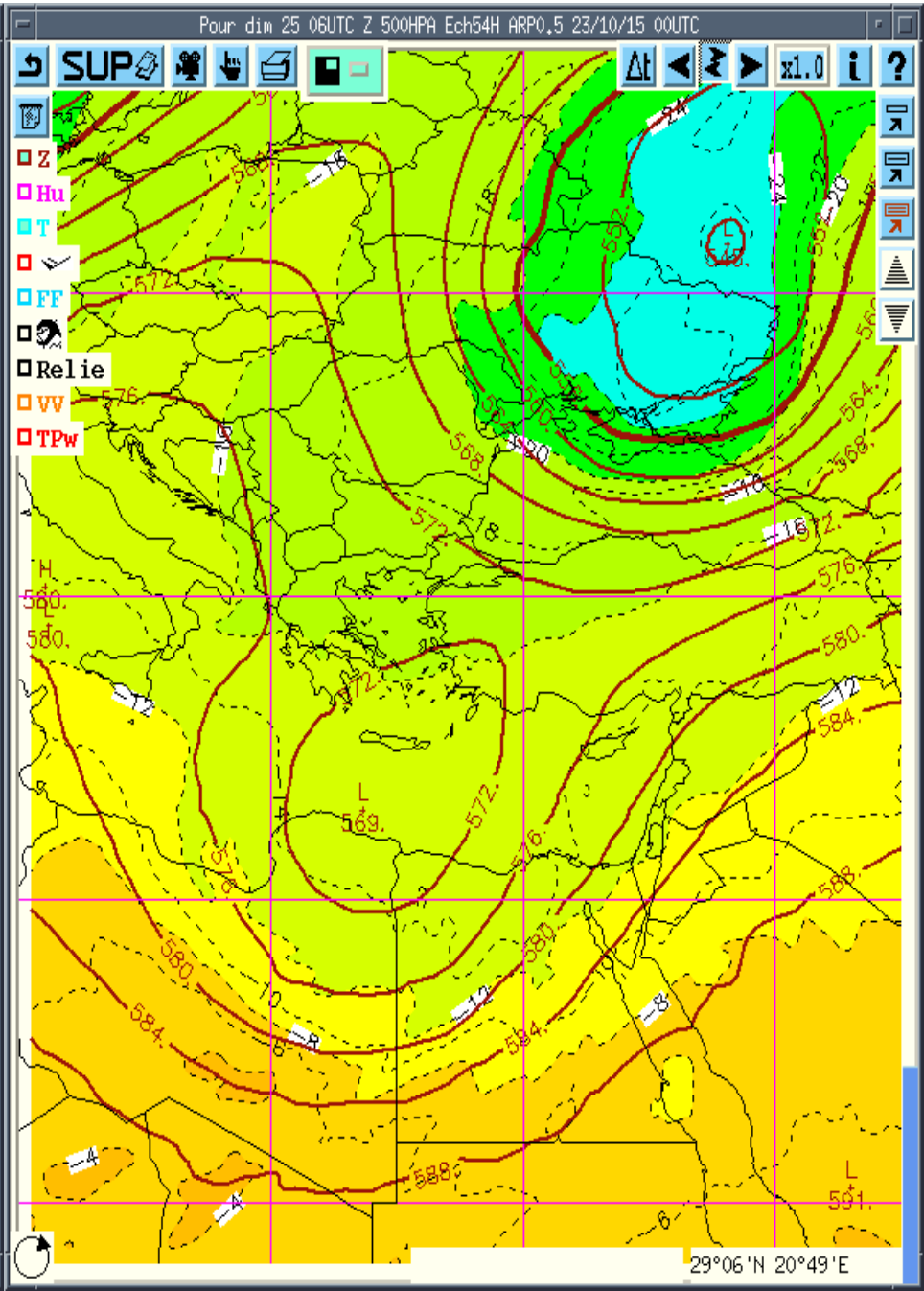
(Z+T) 500 hpa 24 Oct 2015 (00 & 12)UTC





(Z+T) 500 hpa 25 Oct 2015 (00 & 06)UTC





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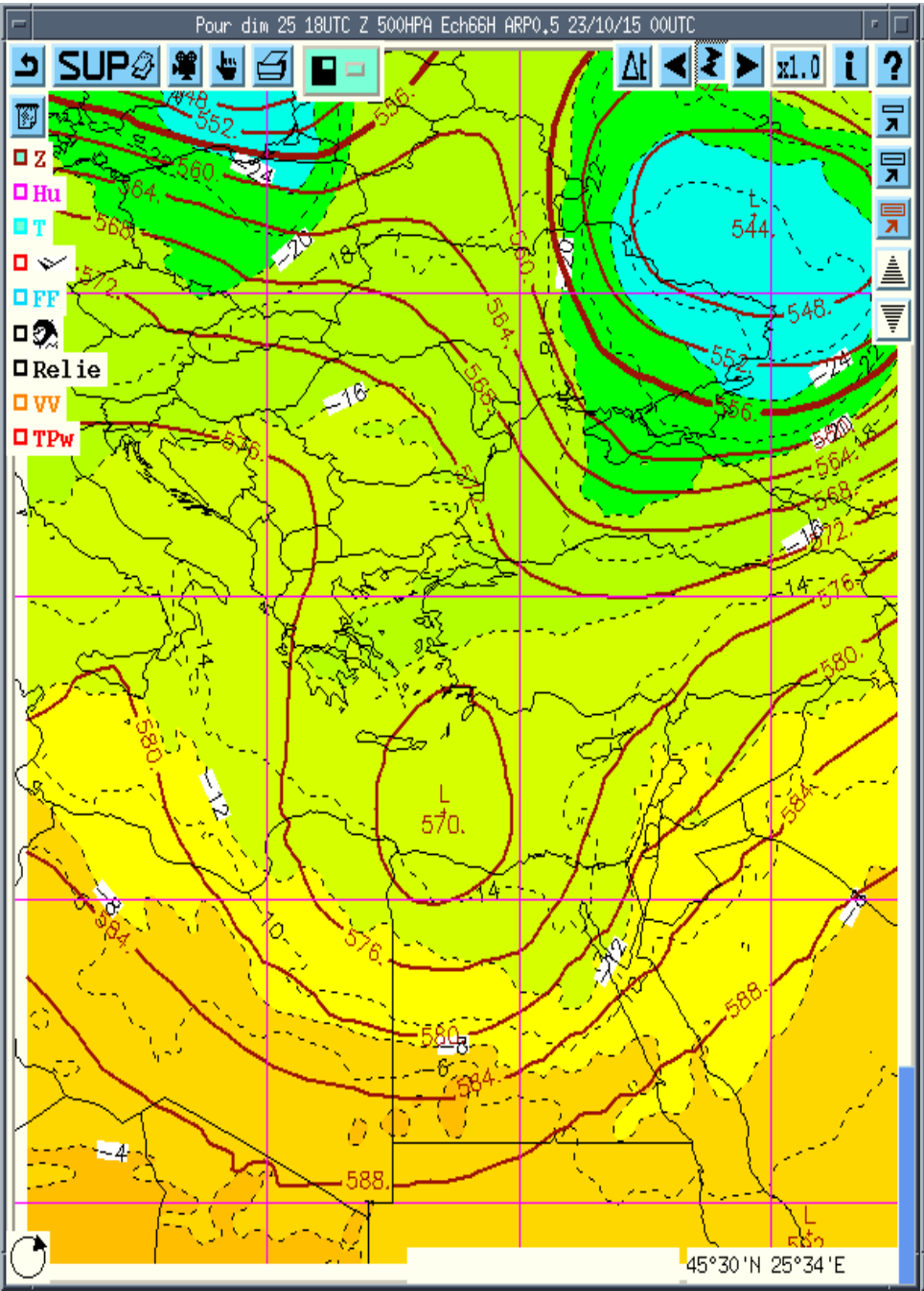
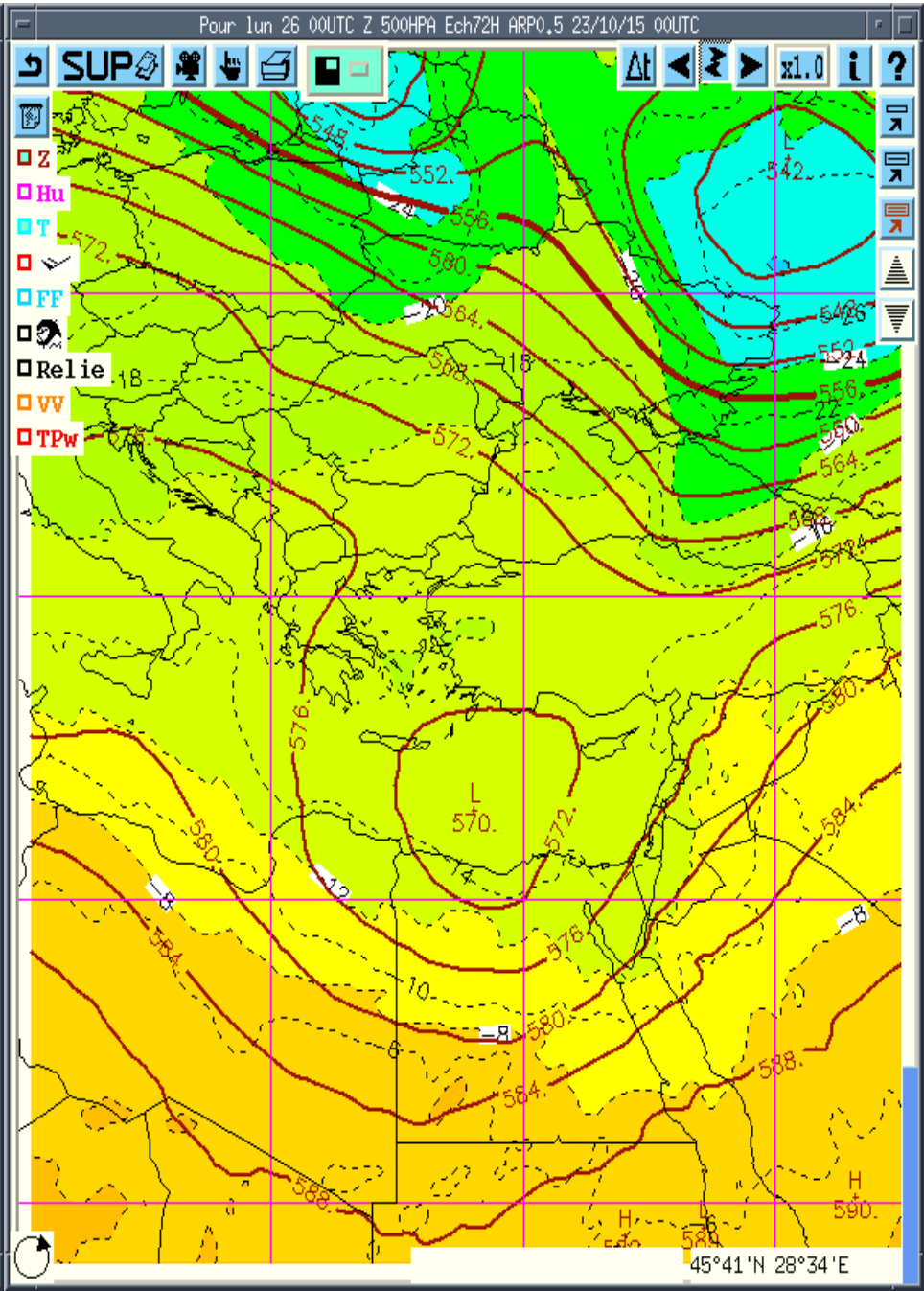
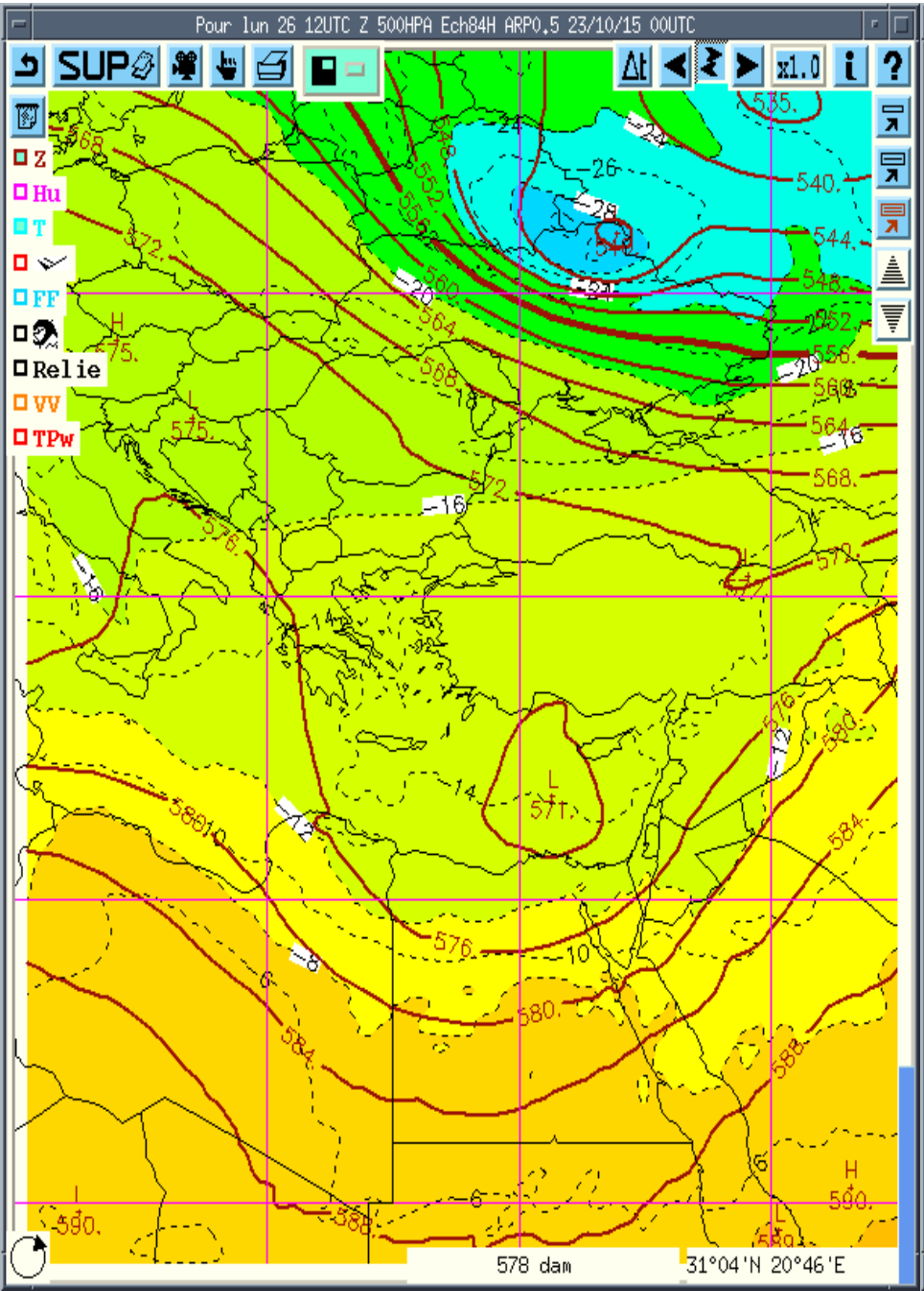
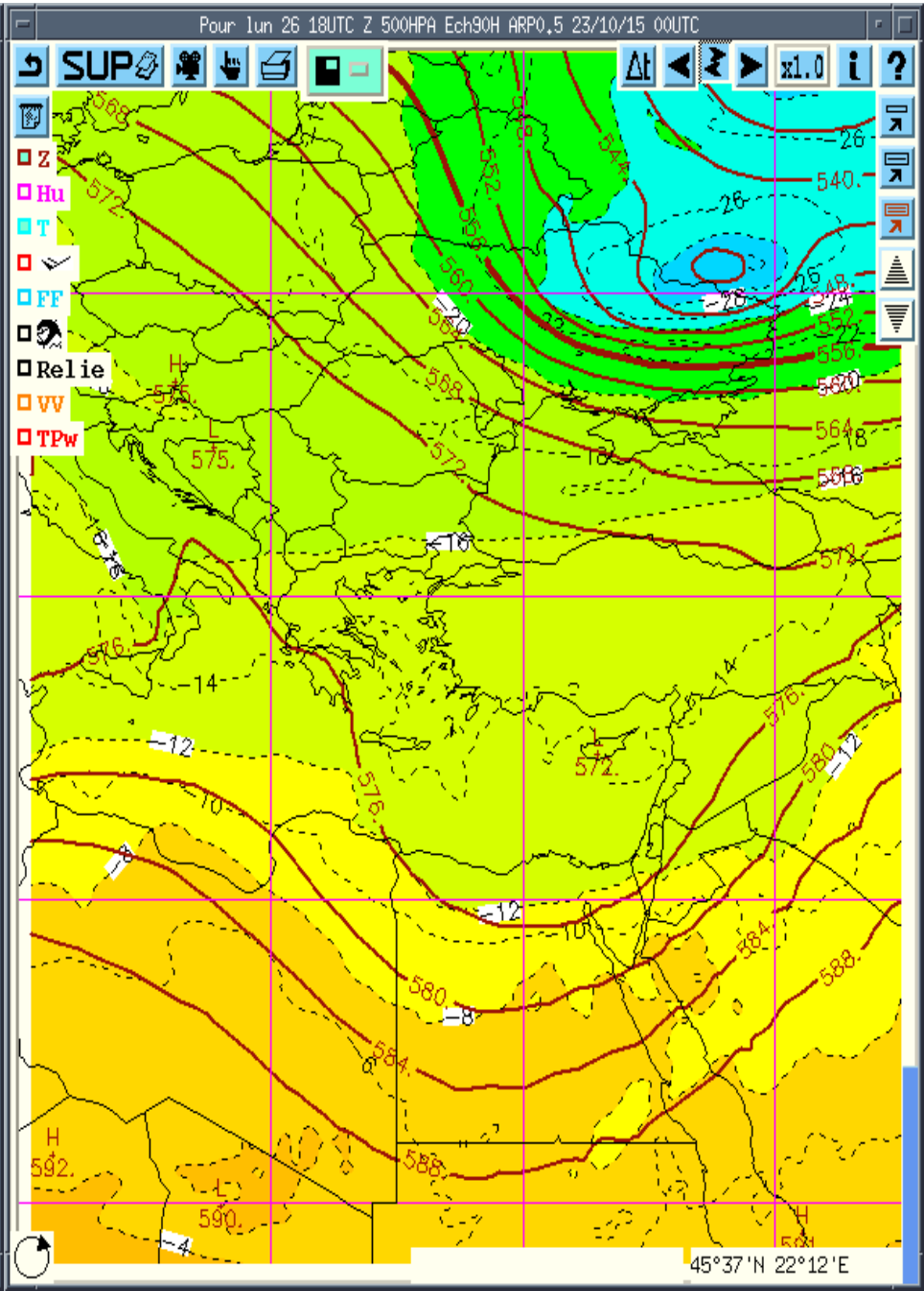
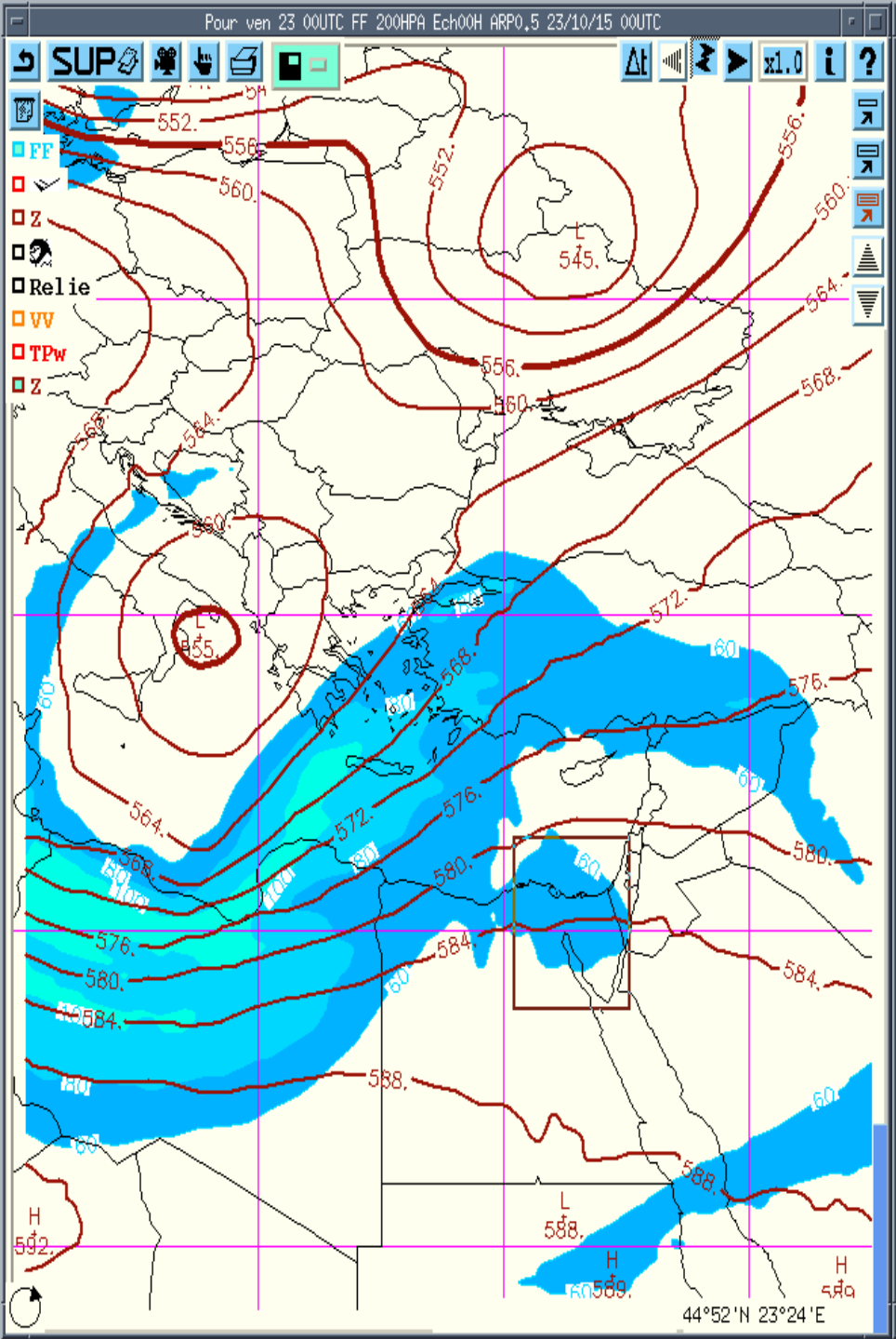


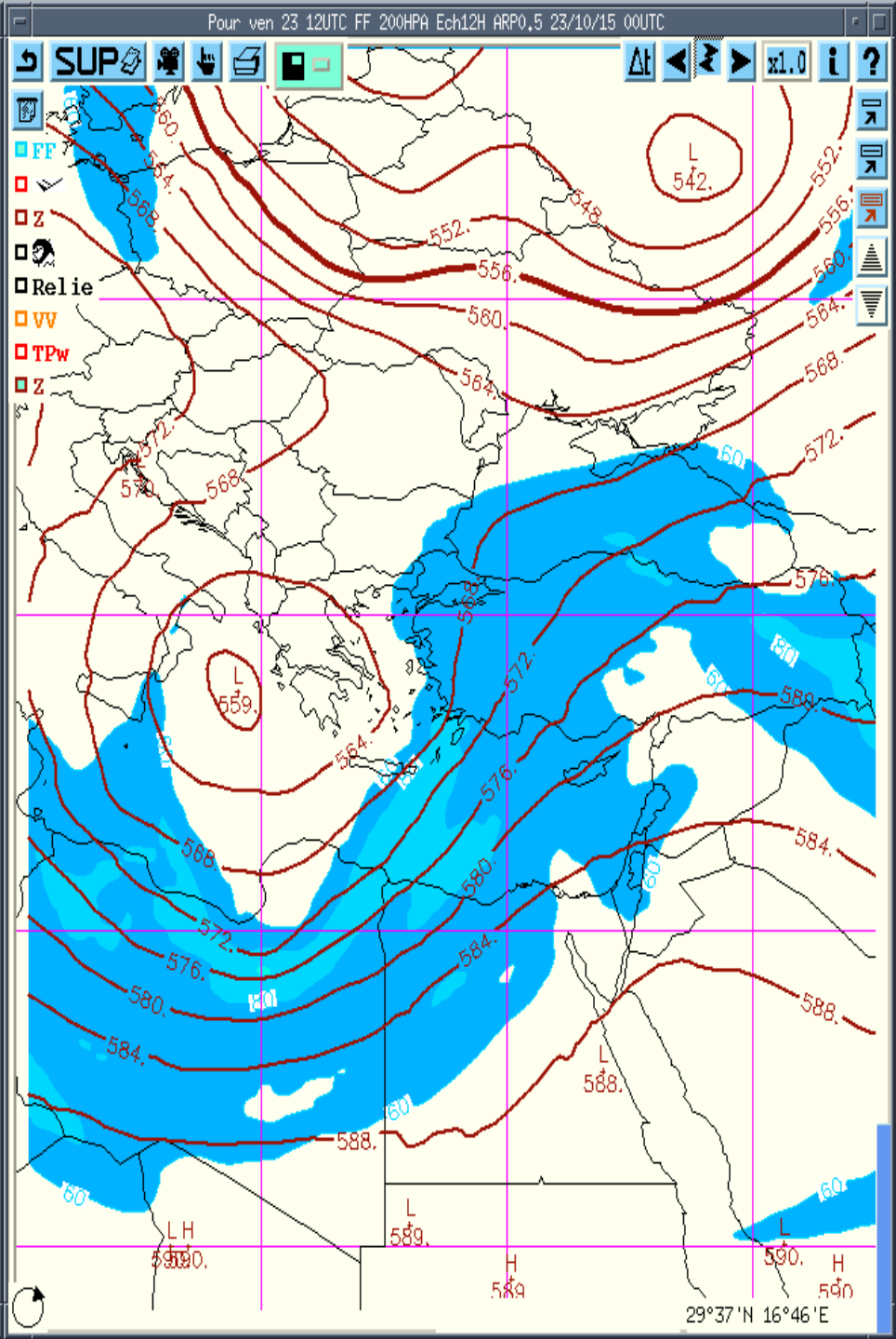


(Z+T) 500 hpa 26 Oct 2015 (12& 18)UTC






Pour ven 23 00UTC FF 200HPA Ech00H ARP0.5 23/10/15 00UTC
SUP
x1.0
FF
Z
Relie
VV
TPw
Z
44°52'N 23°24'E


Pour ven 23 12UTC FF 200HPA Ech12H ARP0.5 23/10/15 00UTC
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FF
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Relie
VV
TPw
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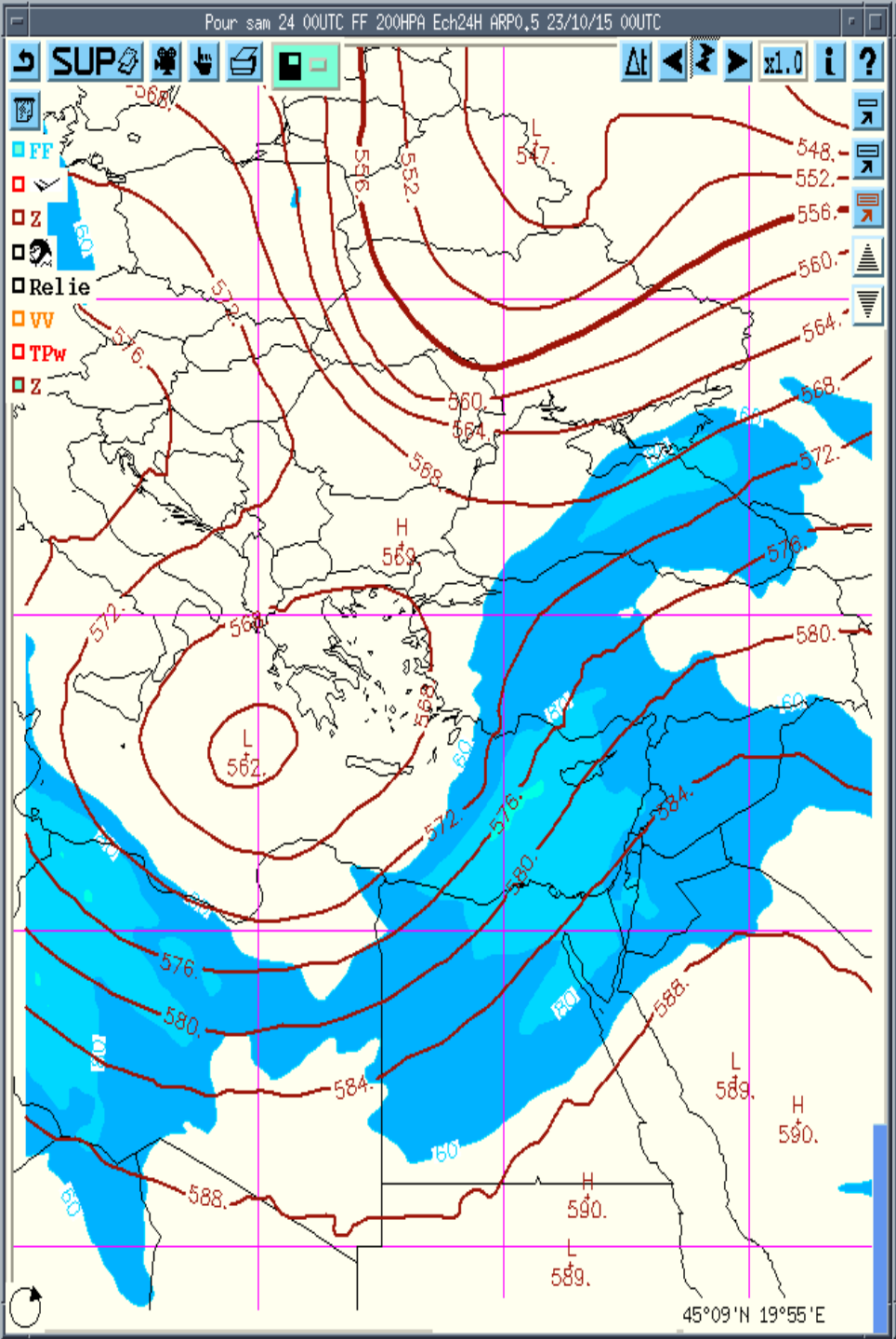
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FF
Z
Relie
VV
TPw
Z
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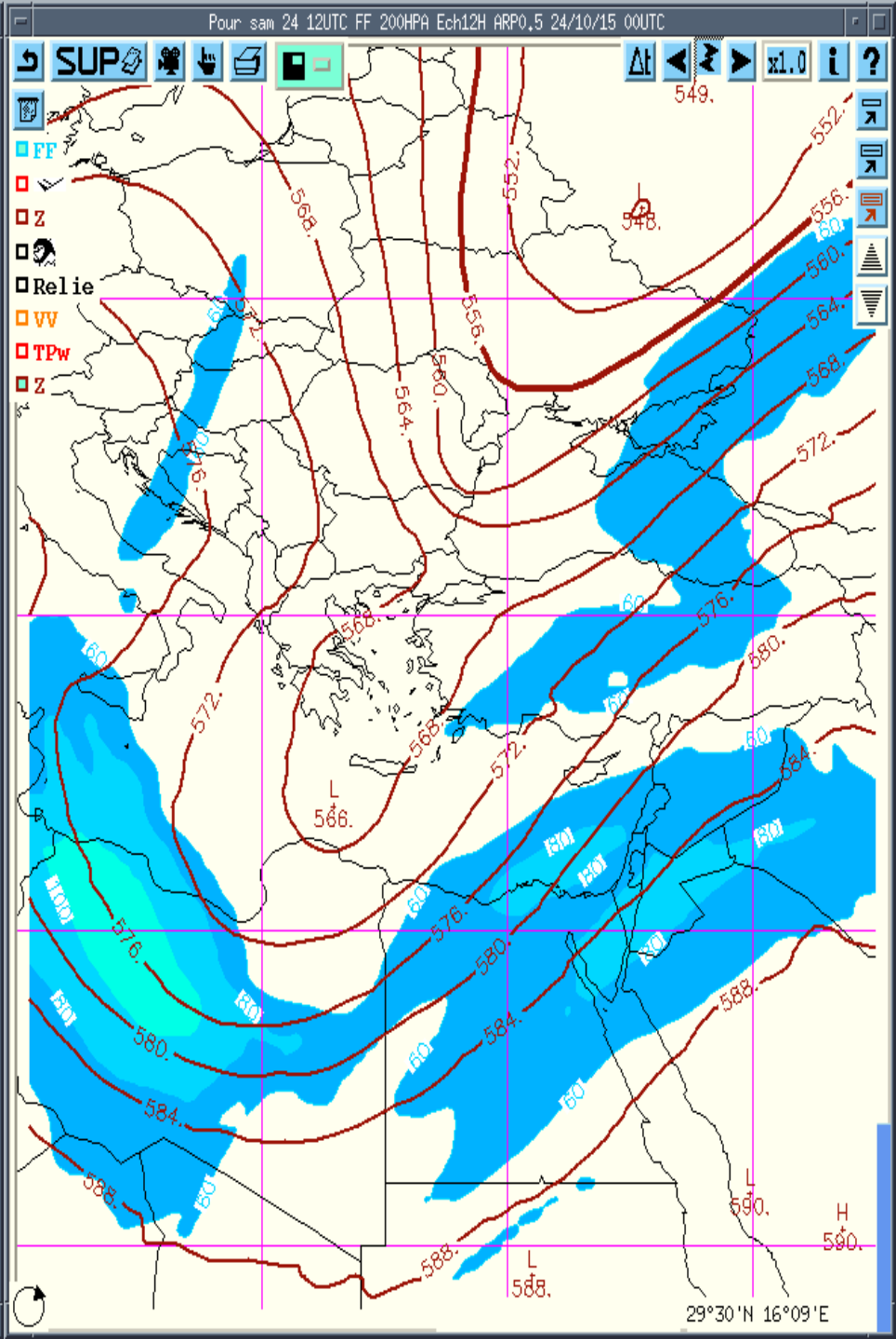
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SUP
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FF
Z
Relie
VV
TPw
Z
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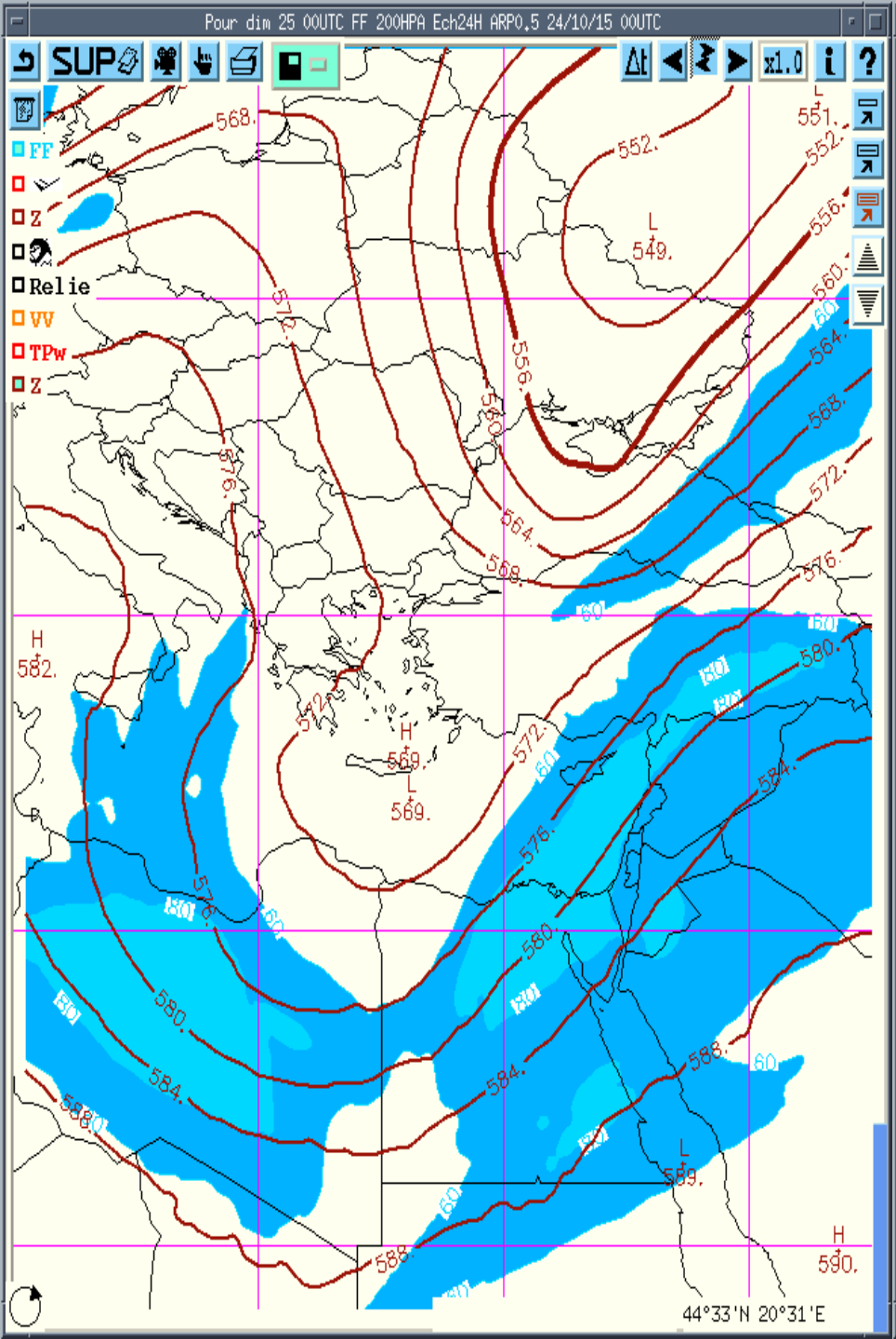
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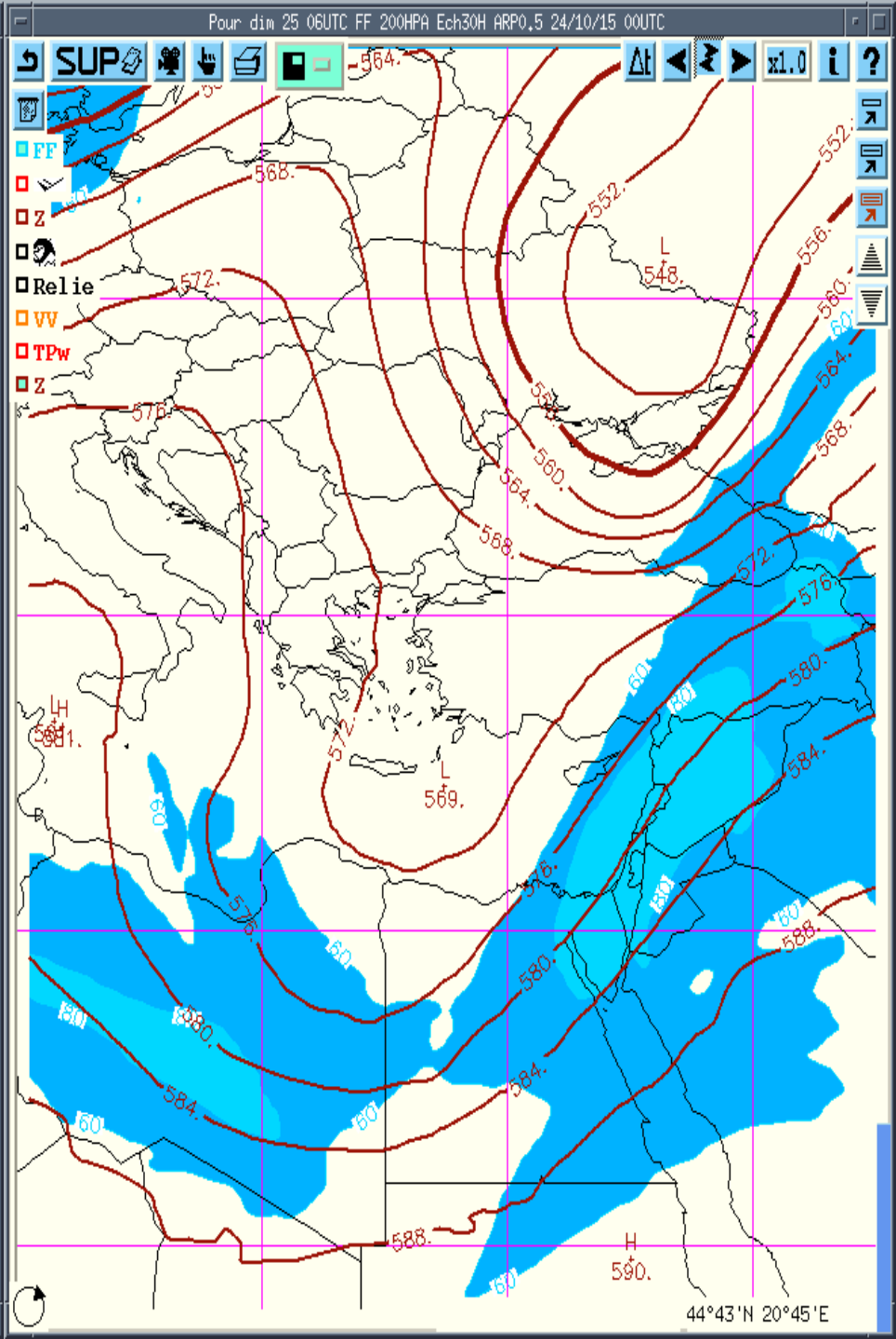
SUP
x1.0
FF
Z
Relie
VV
TPw
Z
568.
552.
556.
560.
564.
572.
576.
580.
584.
588.
H
582.
H
569.
L
569.
L
549.
H
590.
44°33'N 20°31'E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SUP
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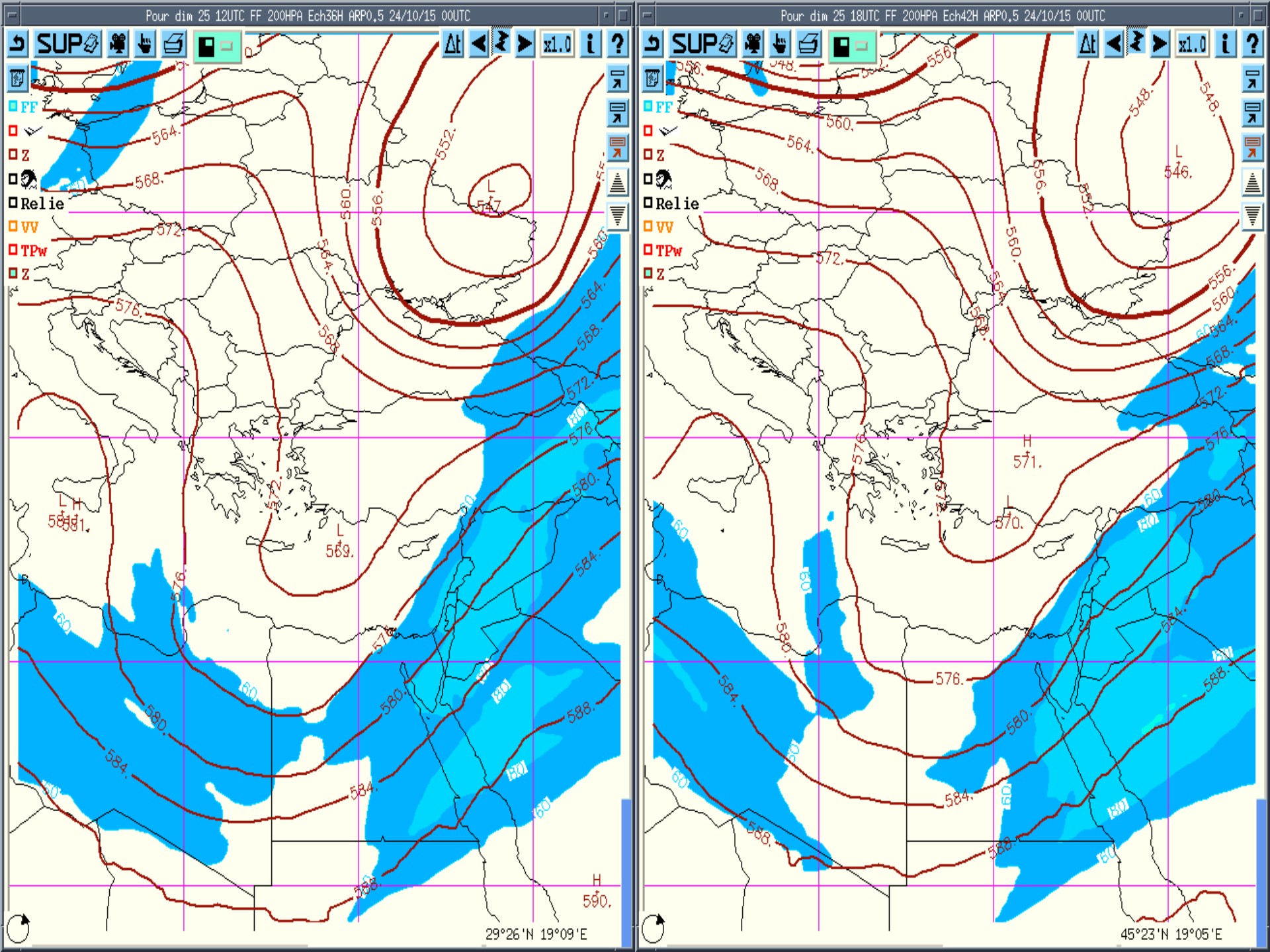
FF
Z
Relie
VV
TPw
Z
564.
568.
552.
556.
560.
564.
572.
576.
580.
584.
588.
L
548.
L
569.
H
590.
44°43'N 20°45'E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x1.0
FF
Z
Relie
VV
TPw
Z
29°26'N 19°09'E
Pour dim 25 18UTC FF 200HPA Ech42H ARP0,5 24/10/15 00UTC
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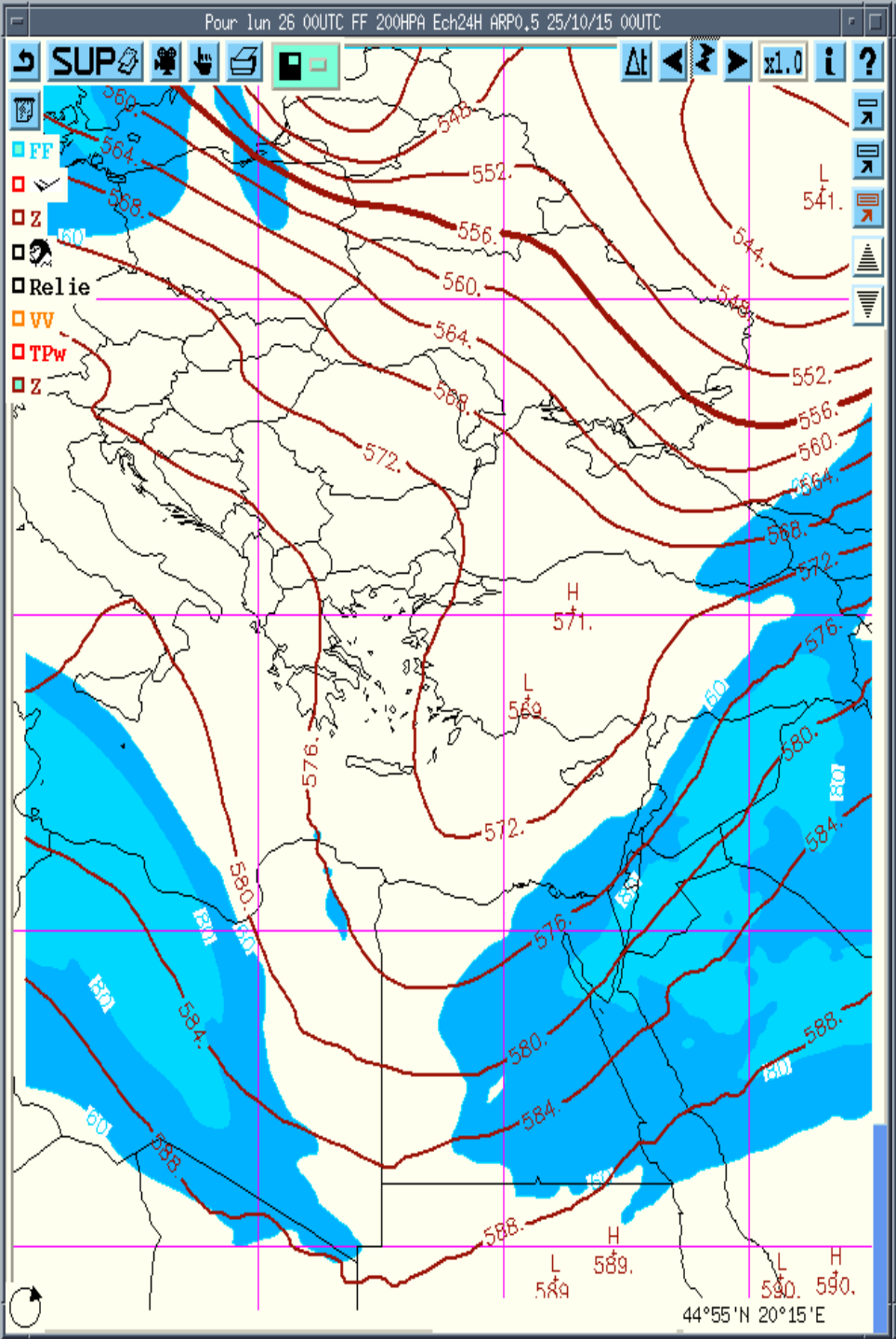
x1.0
FF
Z
Relie
VV
TPw
Z
45°23'N 19°05'E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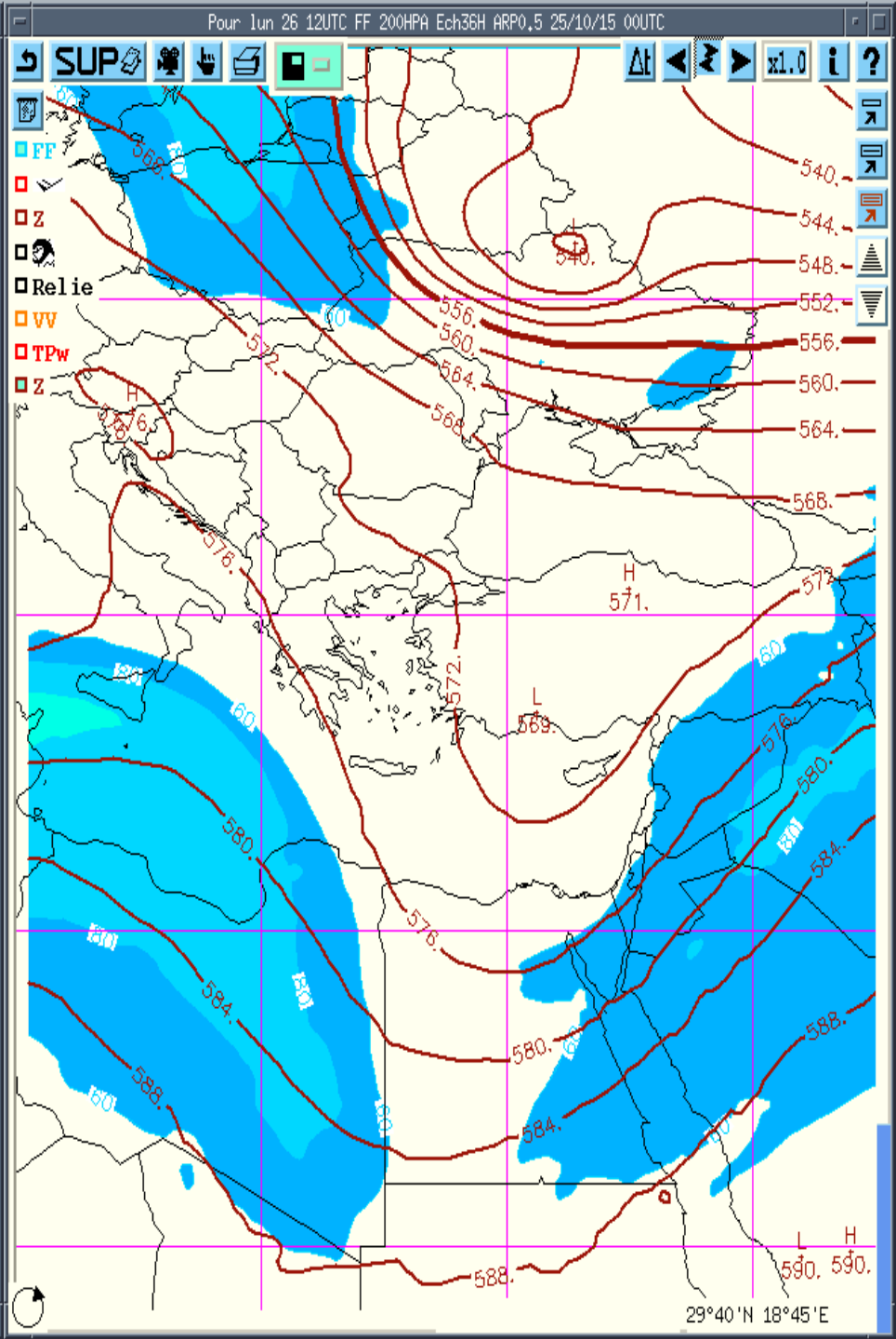
FF
Z
Relie
VV
TPw
Z
44°55'N 20°15'E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SUP
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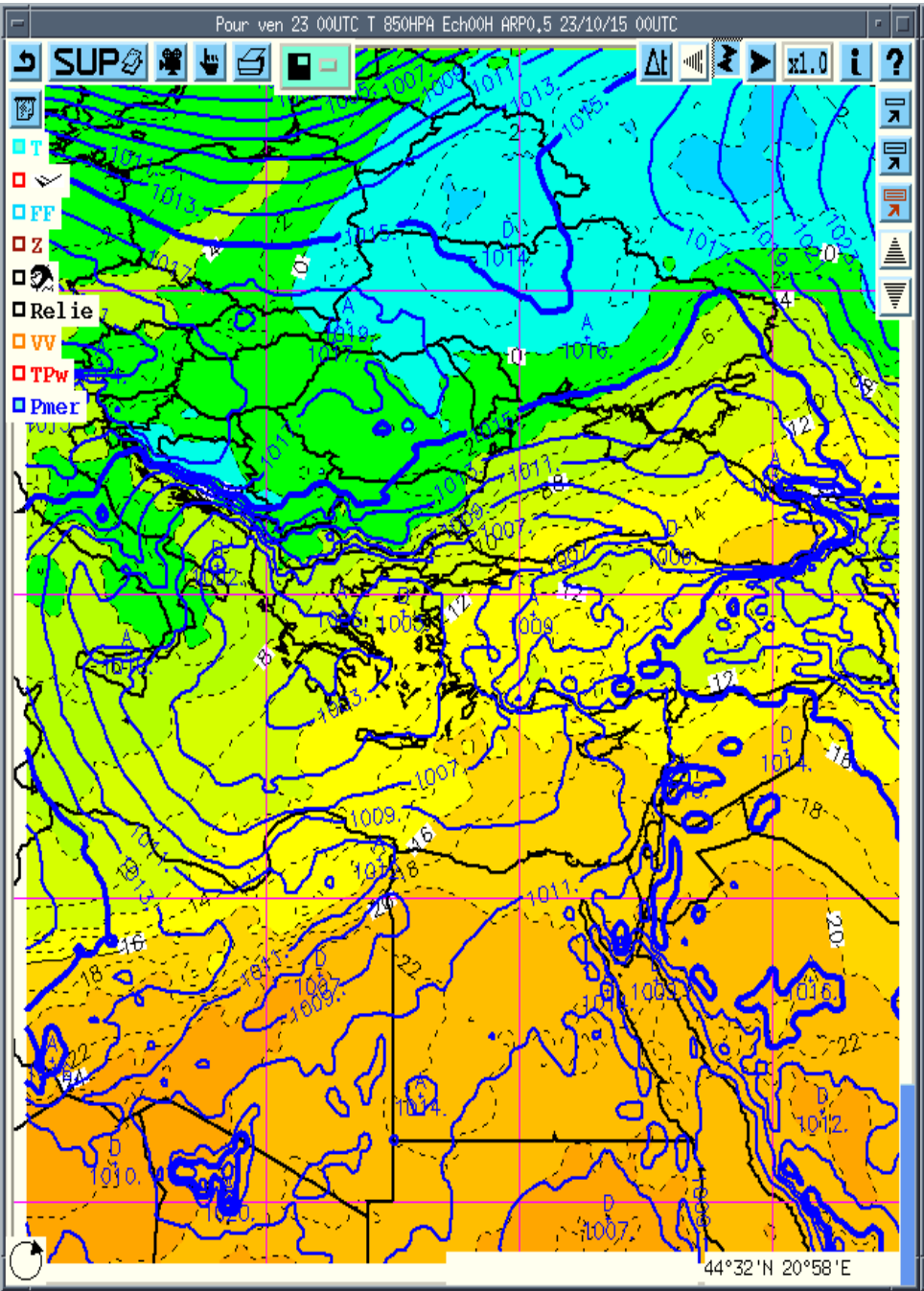
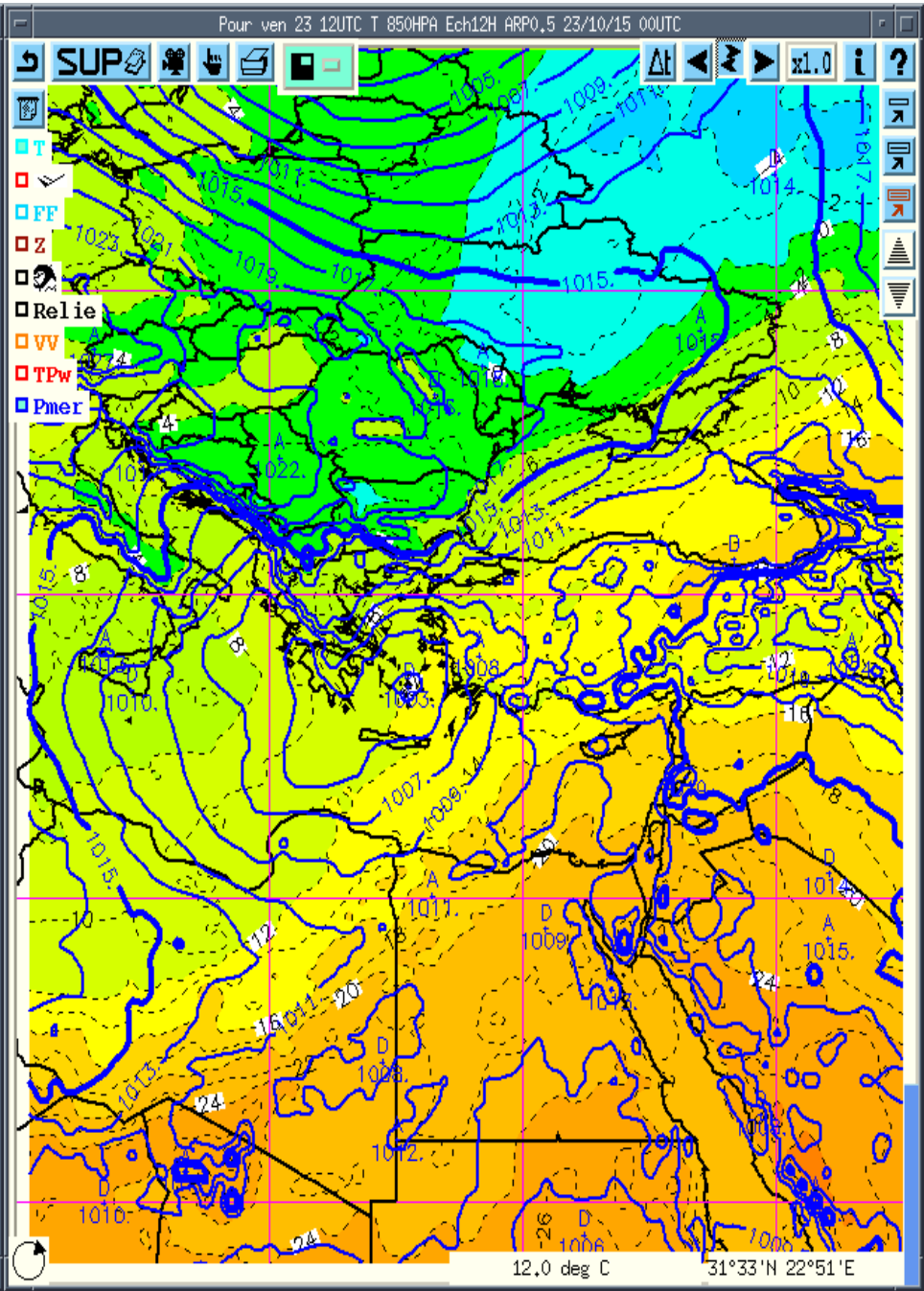
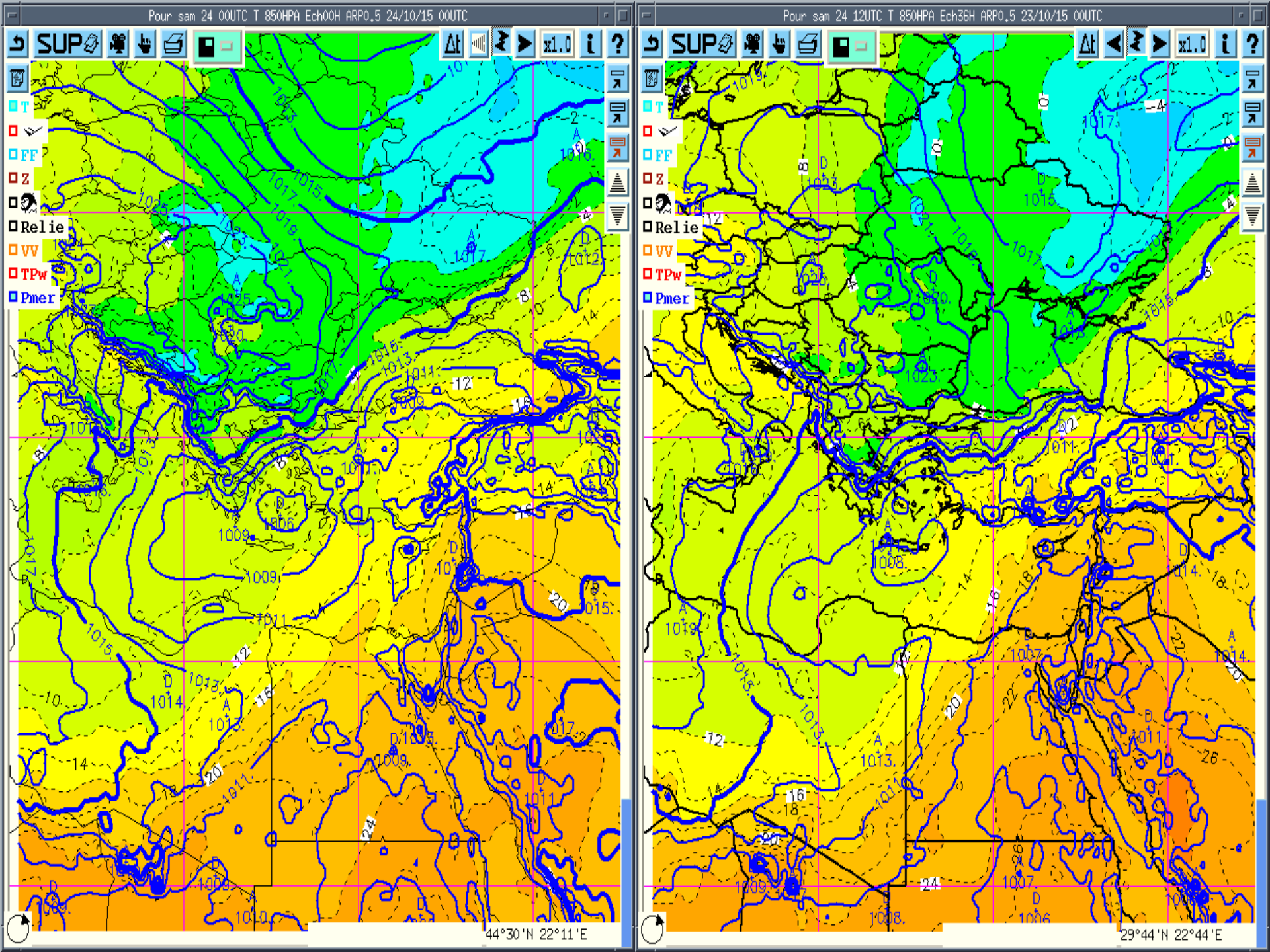
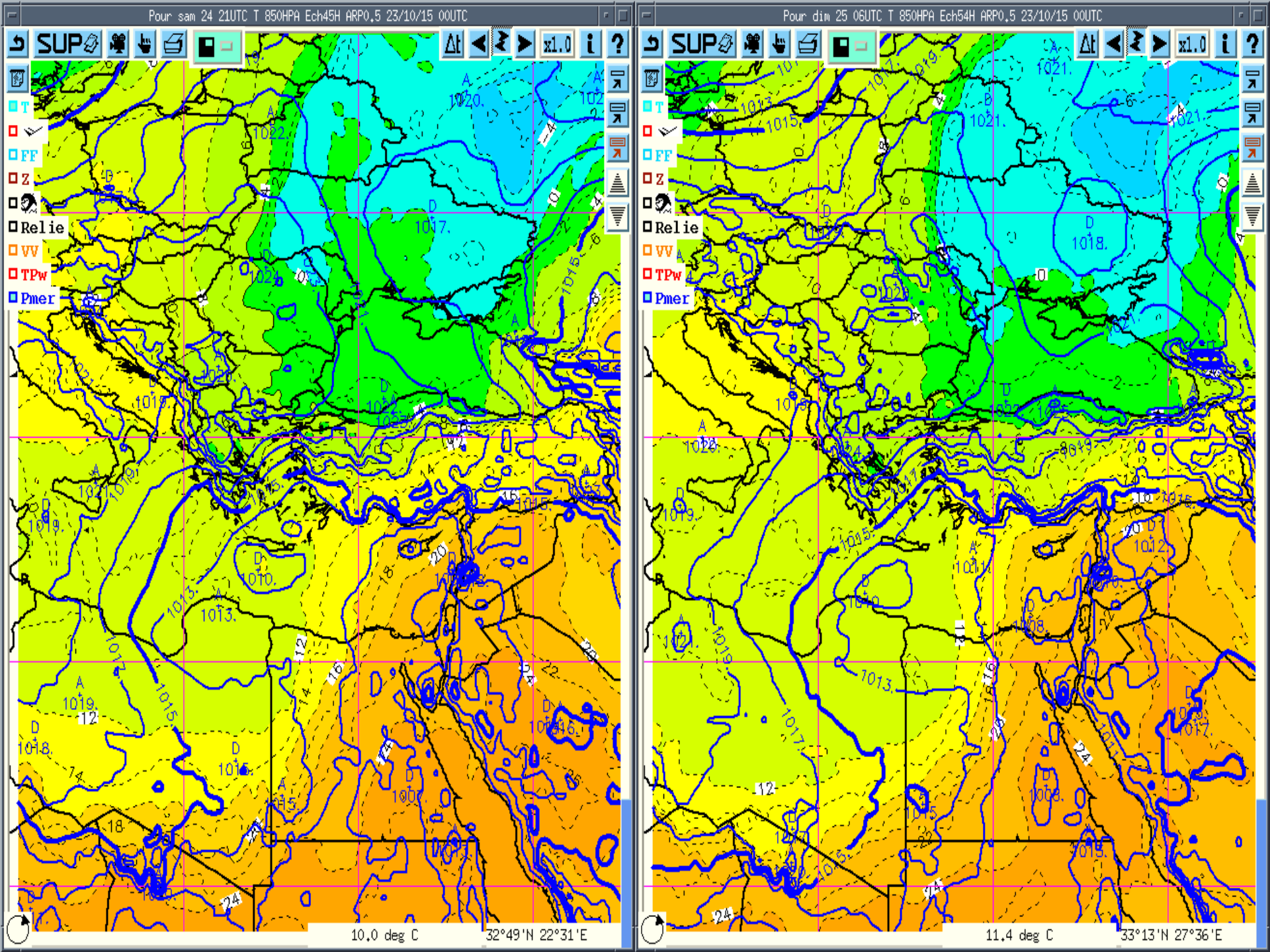
FF
Z
Relie
VV
TPw
Z
29°40'N 18°45'E

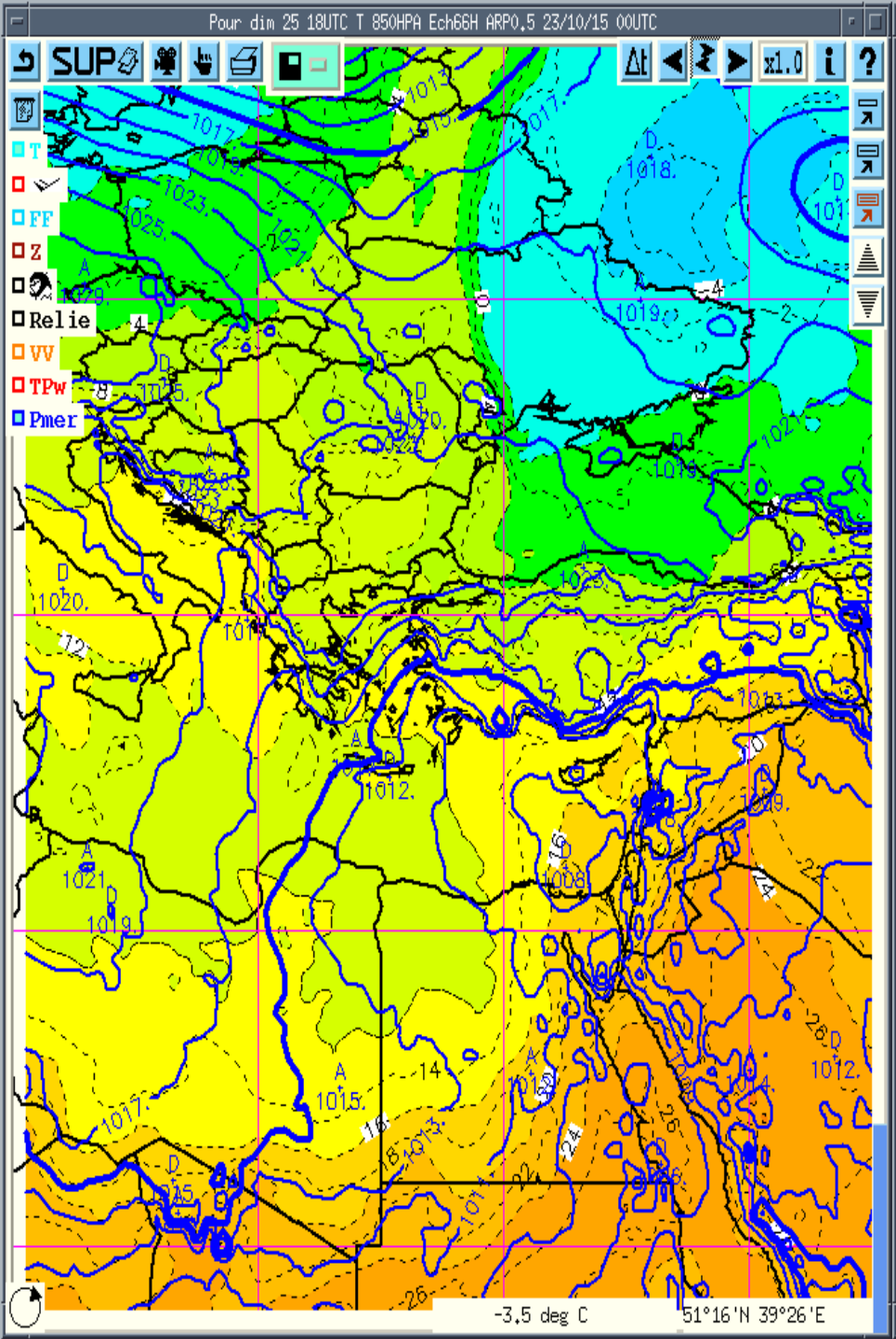
Pmer +T 850hpa (23-26)Oct 2015






Pour sam 24 00UTC T 850HPA Ech00H ARP0,5 24/10/15 00UTC
Pour sam 24 12UTC T 850HPA Ech36H ARP0,5 23/10/15 00UTC
SUP
x1.0
T
FF
Z
Relie
VV
TPw
Pmer
44°30'N 22°11'E
29°44'N 22°44'E


Pour sam 24 21UTC T 850HPA Ech45H ARP0,5 23/10/15 00UTC
Pour dim 25 06UTC T 850HPA Ech54H ARP0,5 23/10/15 00UTC
SUP
x1.0
T
FF
Z
Relie
VV
TPw
Pmer
10.0 deg C
32°49'N 22°31'E
11.4 deg C
33°13'N 27°36'E


Pour dim 25 18UTC T 850HPA Ech66H ARPO,5 23/10/15 00UTC
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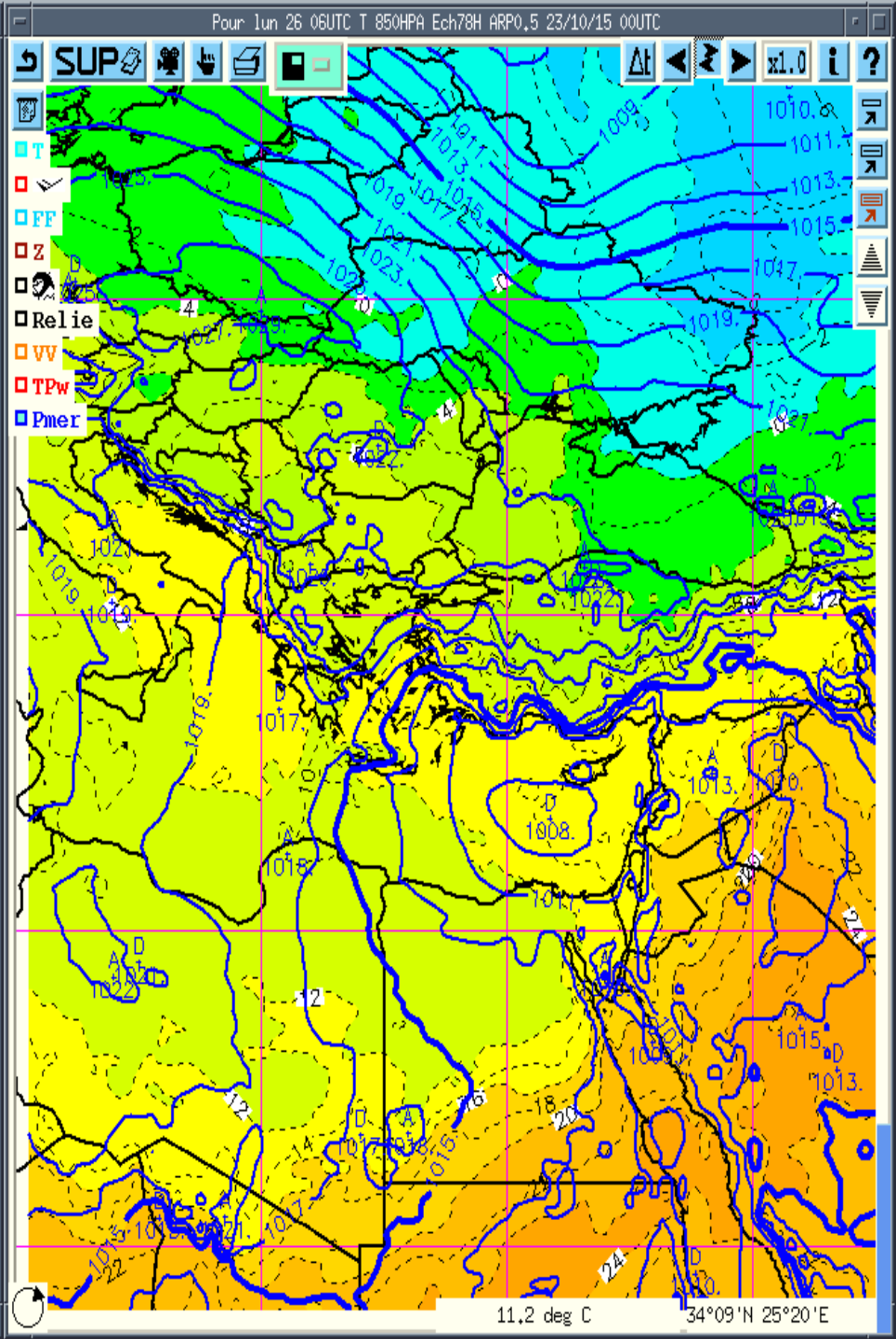
x1.0
T
FF
Z
Relie
VV
TPw
Pmer
-3,5 deg C
51°16'N 39°26'E


Pour lun 26 06UTC T 850HPA Ech78H ARPO,5 23/10/15 00UTC
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x1.0
T
FF
Z
Relie
VV
TPw
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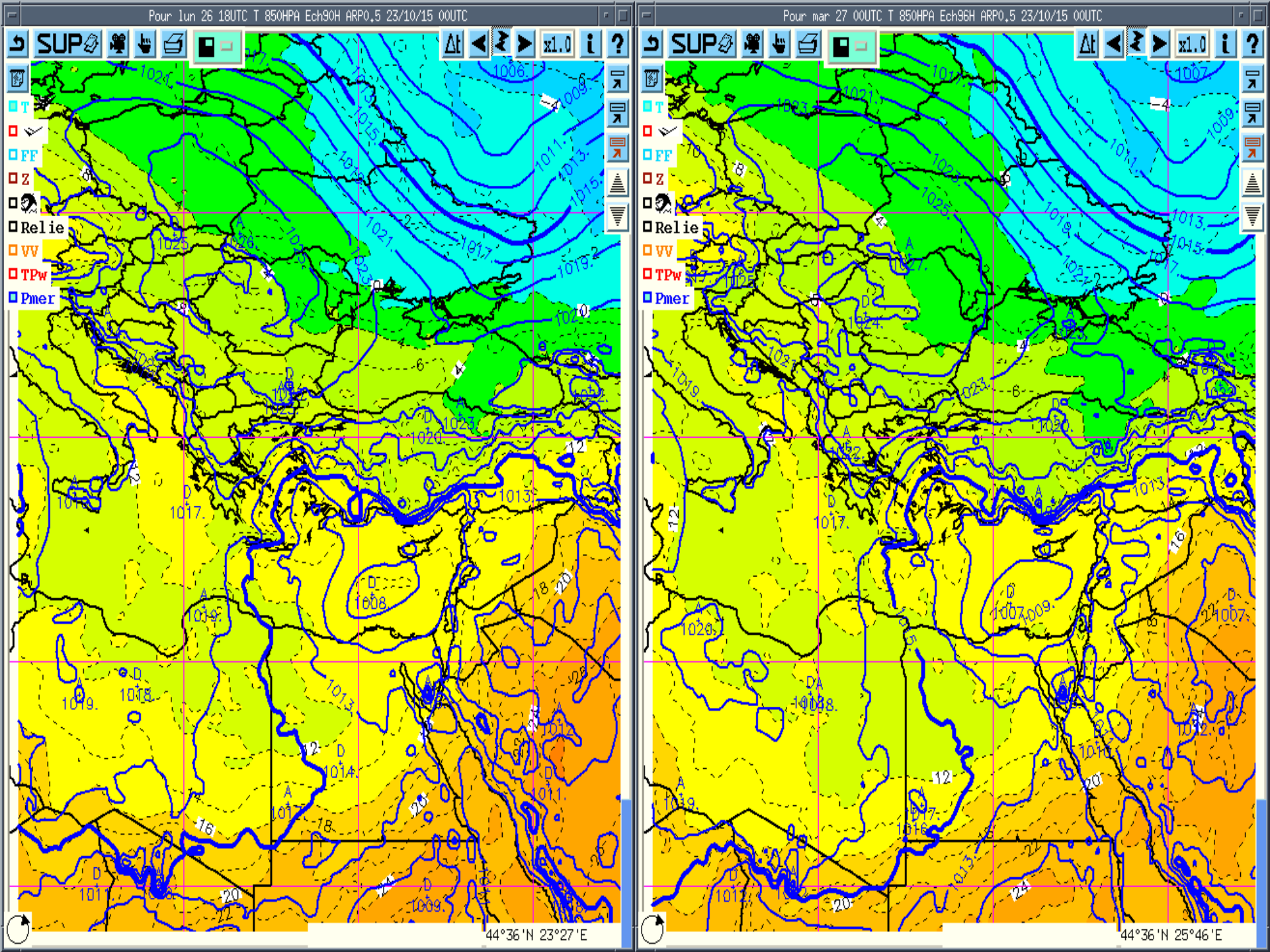
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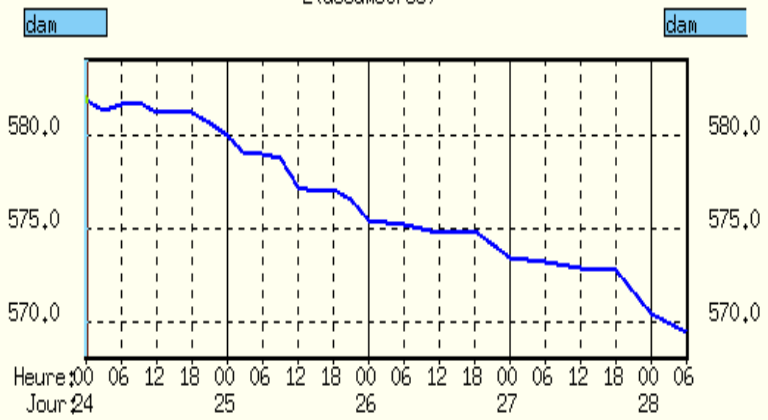
x1.0
T
FF
Z
Relie
VV
TPw
Pmer
44°36'N 23°27'E
Pour mar 27 00UTC T 850HPA Ech96H ARPO,5 23/10/15 00UTC
SUP
x1.0
T
FF
Z
Relie
VV
TPw
Pmer
44°36'N 25°46'E

Meteogramme du 24/10/2015 00:00 au 28/10/2015 06:00

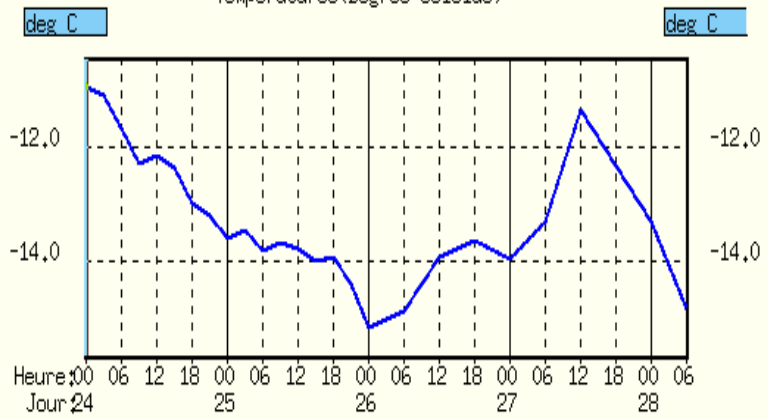
Z

Z(decametres)



T

Temperatures(Degres Celsius)



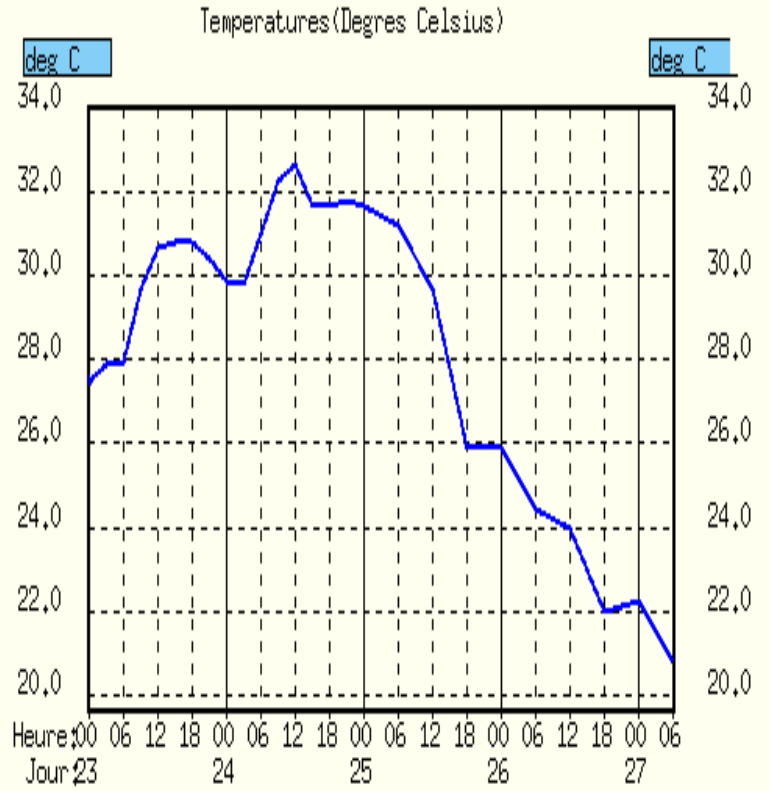
Graphe 1:
33°55'N 35°30'E :(dam) Z102 500HPA ARP0.5
Graphe 2:

Reqle: 24/10/2015 00:00 Ecart:

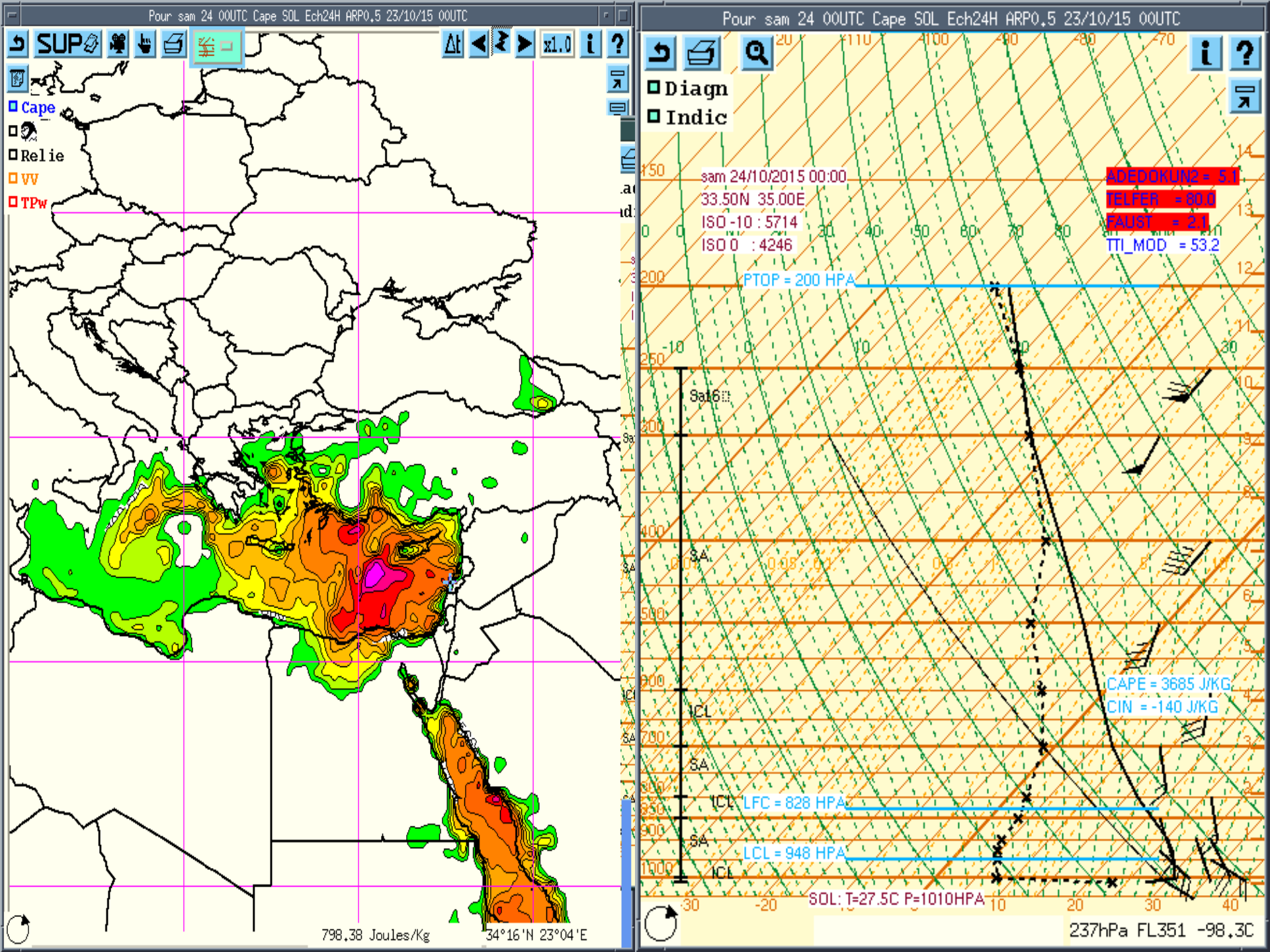
Meteogramme du 23/10/2015 00:00 au 27/10/2015 06:00

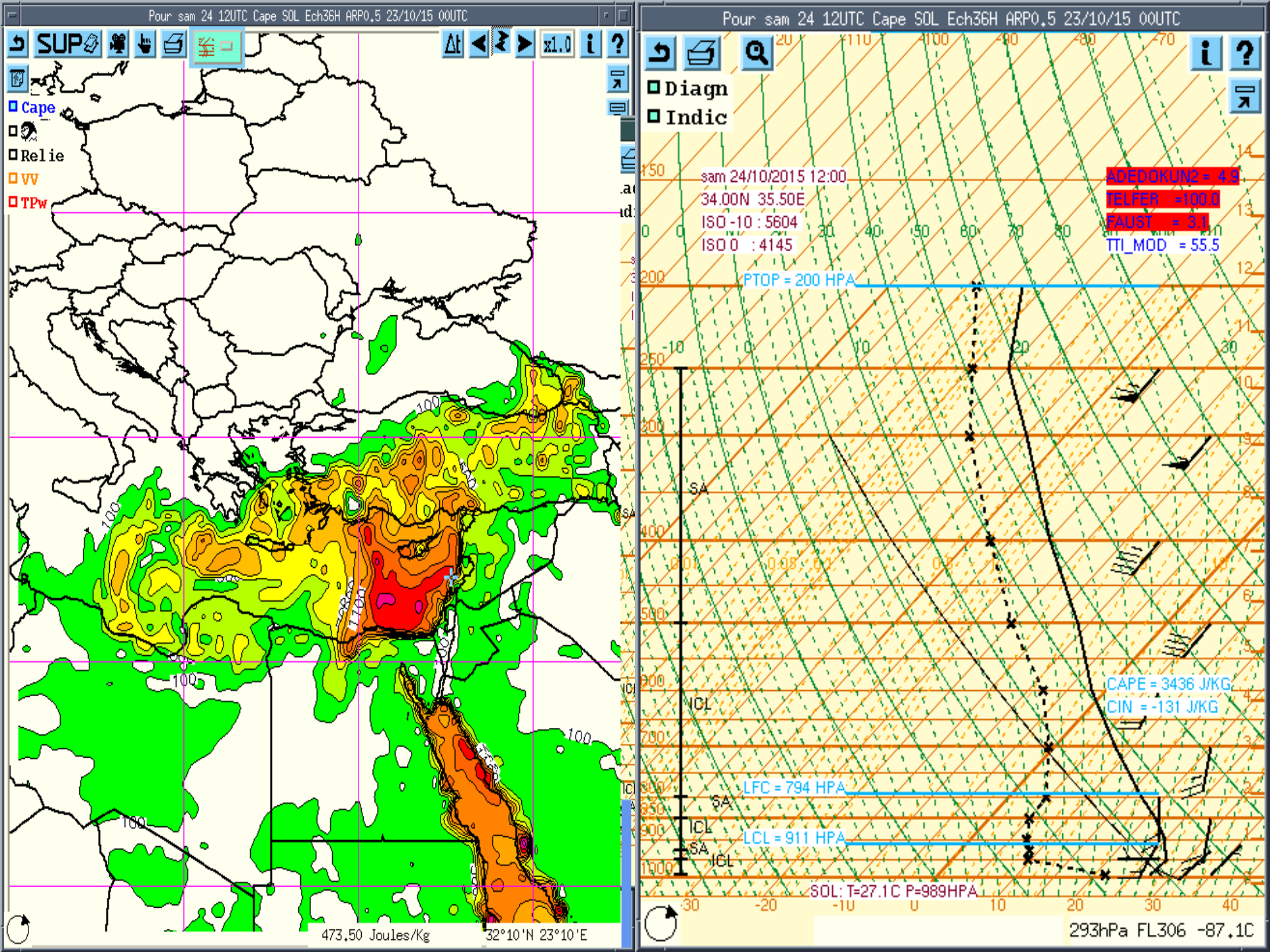
T

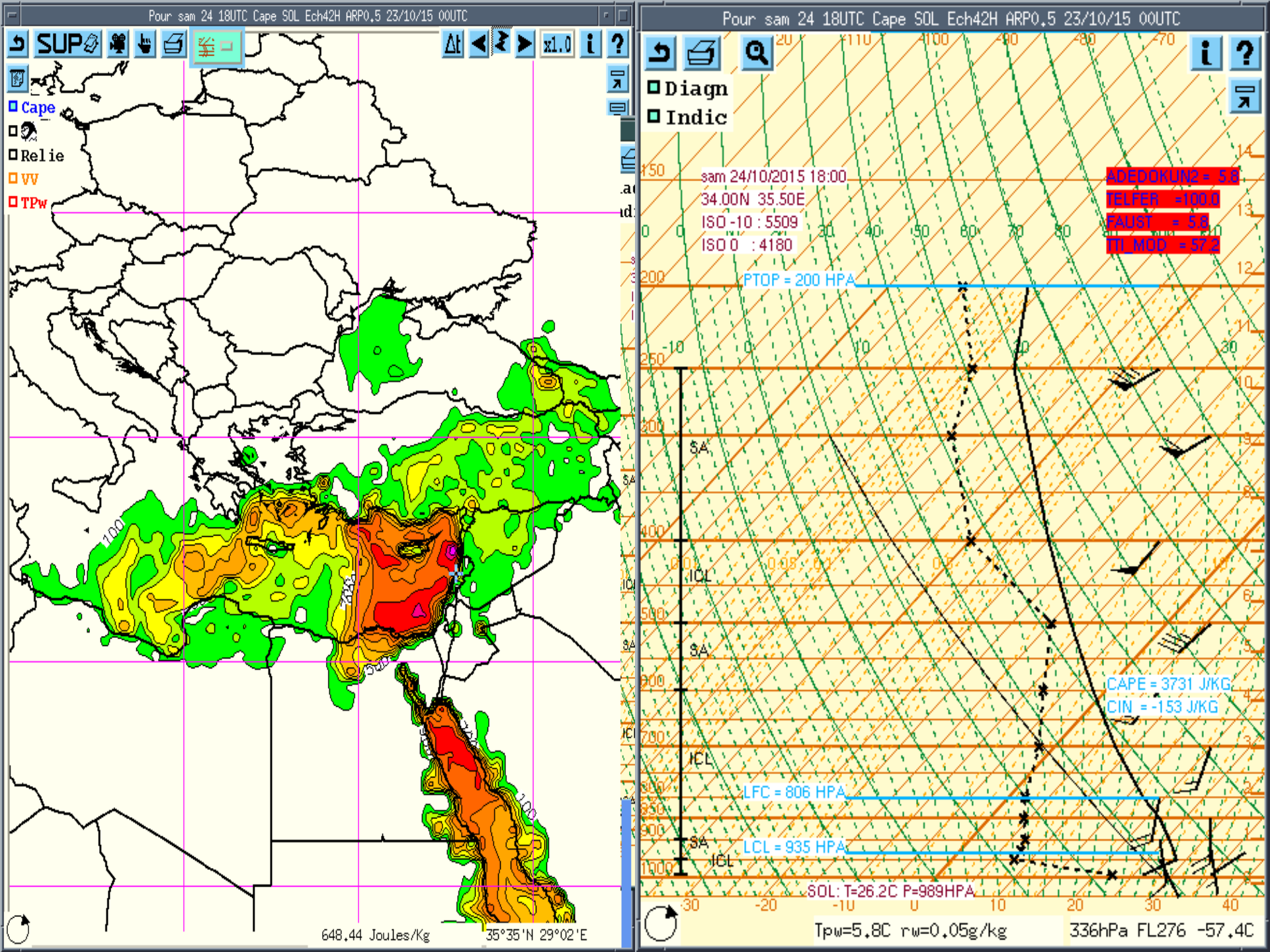
Temperatures(Degres Celsius)

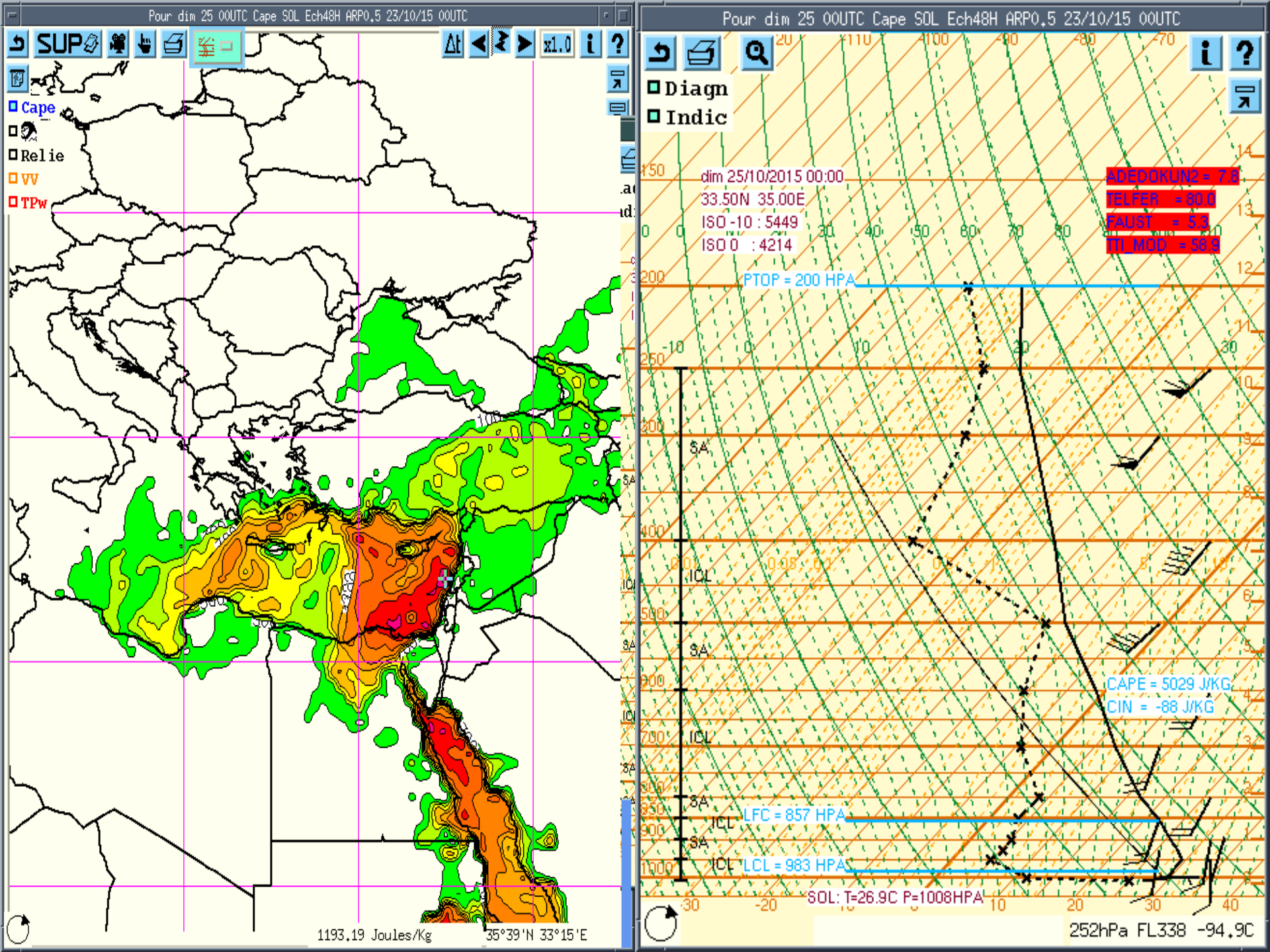


Graphe 1:
33°19'N 35°24'E :(deg C) T102 1000HPA ARP0.5


Pour sam 24 00UTC Cape SOL Ech24H ARP0,5 23/10/15 00UTC
SUP
Cape
Relie
VV
TPw
798.38 Joules/Kg
34°16'N 23°04'E
Pour sam 24 00UTC Cape SOL Ech24H ARP0,5 23/10/15 00UTC
Diagn
Indic
sam 24/10/2015 00:00
33.50N 35.00E
ISO -10 : 5714
ISO 0 : 4246
ADEDOKUN2 = 5.1
TELFER = 80.0
FAUST = 2.1
TTI_MOD = 53.2
PTOP = 200 HPA
Sat6
SA
CAPE = 3685 J/KG
CIN = -140 J/KG
LCL
LFC = 828 HPA
LCL = 948 HPA
SOL: T=27.5C P=1010HPA
237hPa FL351 -98.3C


Pour sam 24 12UTC Cape SOL Ech36H ARP0,5 23/10/15 00UTC
SUP
Cape
Relie
VV
TPw
x1.0
473.50 Joules/Kg
32°10'N 23°10'E
Pour sam 24 12UTC Cape SOL Ech36H ARP0,5 23/10/15 00UTC
Diagn
Indic
sam 24/10/2015 12:00
34.00N 35.50E
ISO -10 : 5604
ISO 0 : 4145
ADEDOKUN2 = 4.9
TELFER = 100.0
FAUST = 3.1
TTI_MOD = 55.5
PTOP = 200 HPA
CAPE = 3436 J/KG
CIN = -131 J/KG
LFC = 794 HPA
LCL = 911 HPA
SOL: T=27.1C P=989HPA
293hPa FL306 -87.1C


Pour sam 24 18UTC Cape SOL Ech42H ARP0,5 23/10/15 00UTC
SUP
x1.0
Cape
Relie
VV
TPw
100
500
108
648.44 Joules/Kg
35°35'N 29°02'E
Pour sam 24 18UTC Cape SOL Ech42H ARP0,5 23/10/15 00UTC
Diagn
Indic
sam 24/10/2015 18:00
34.00N 35.50E
ISO -10 : 5509
ISO 0 : 4180
ADEDOKUN2 = 5.8
TELFER =100.0
FAUST = 5.8
TTI_MOD = 57.2
PTOP = 200 HPA
SA
ICL
CAPE = 3731 J/KG
CIN = -153 J/KG
LFC = 806 HPA
LCL = 935 HPA
SOL: T=26.2C P=989HPA
Tpw=5.8C rw=0.05g/kg
336hPa FL276 -57.4C


Pour dim 25 00UTC Cape SOL Ech48H ARP0,5 23/10/15 00UTC
SUP
x1.0
Cape
Relie
VV
TPw
1193.19 Joules/Kg
35°39'N 33°15'E
Pour dim 25 00UTC Cape SOL Ech48H ARP0,5 23/10/15 00UTC
Diagn
Indic
dim 25/10/2015 00:00
33.50N 35.00E
ISO -10 : 5449
ISO 0 : 4214
ADEDOKUN2 = 7.6
TELFER = 80.0
FAUST = 5.3
TTI_MOD = 58.9
PTOP = 200 HPA
CAPE = 5029 J/KG
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LFC = 857 HPA
LCL = 983 HPA
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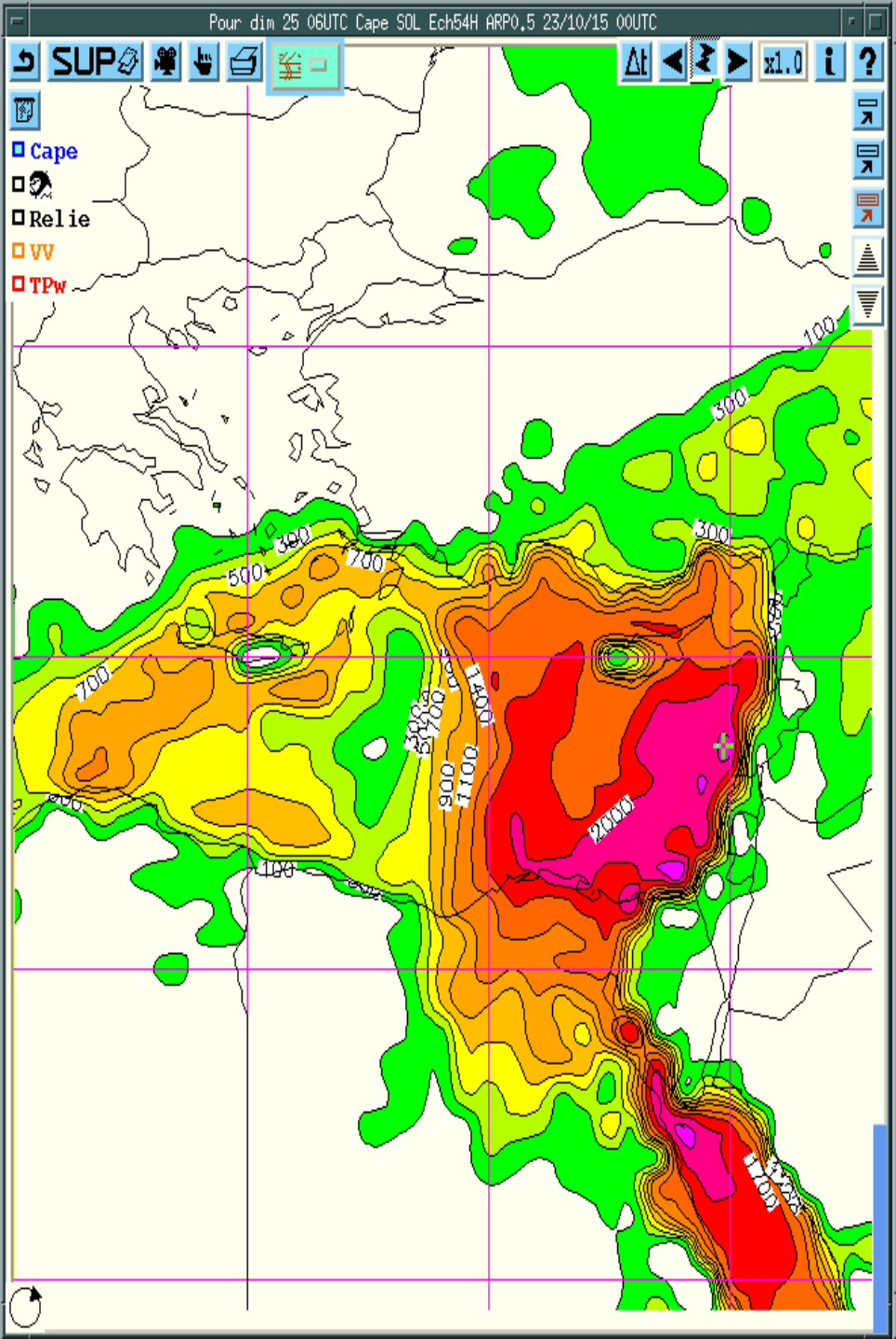
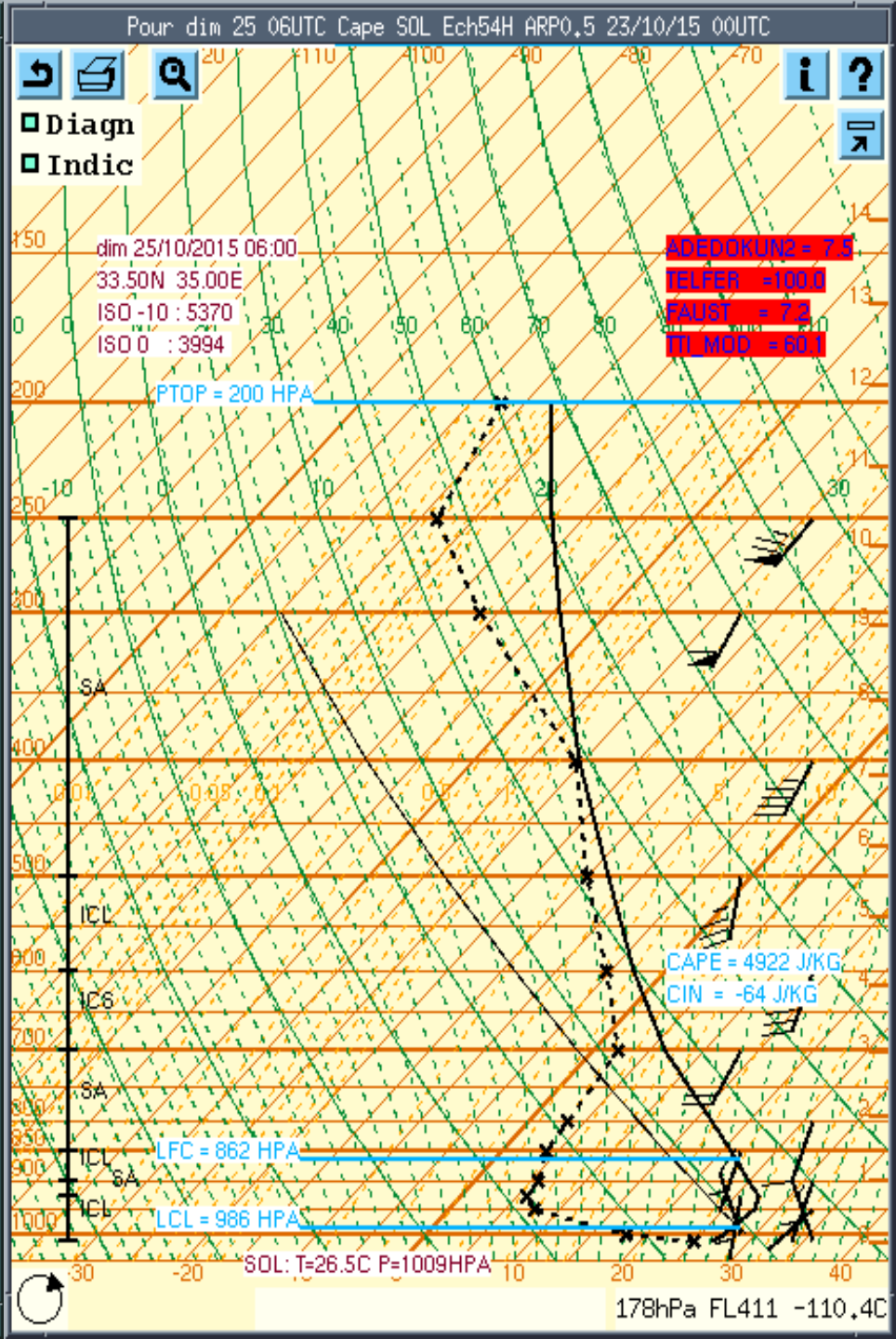
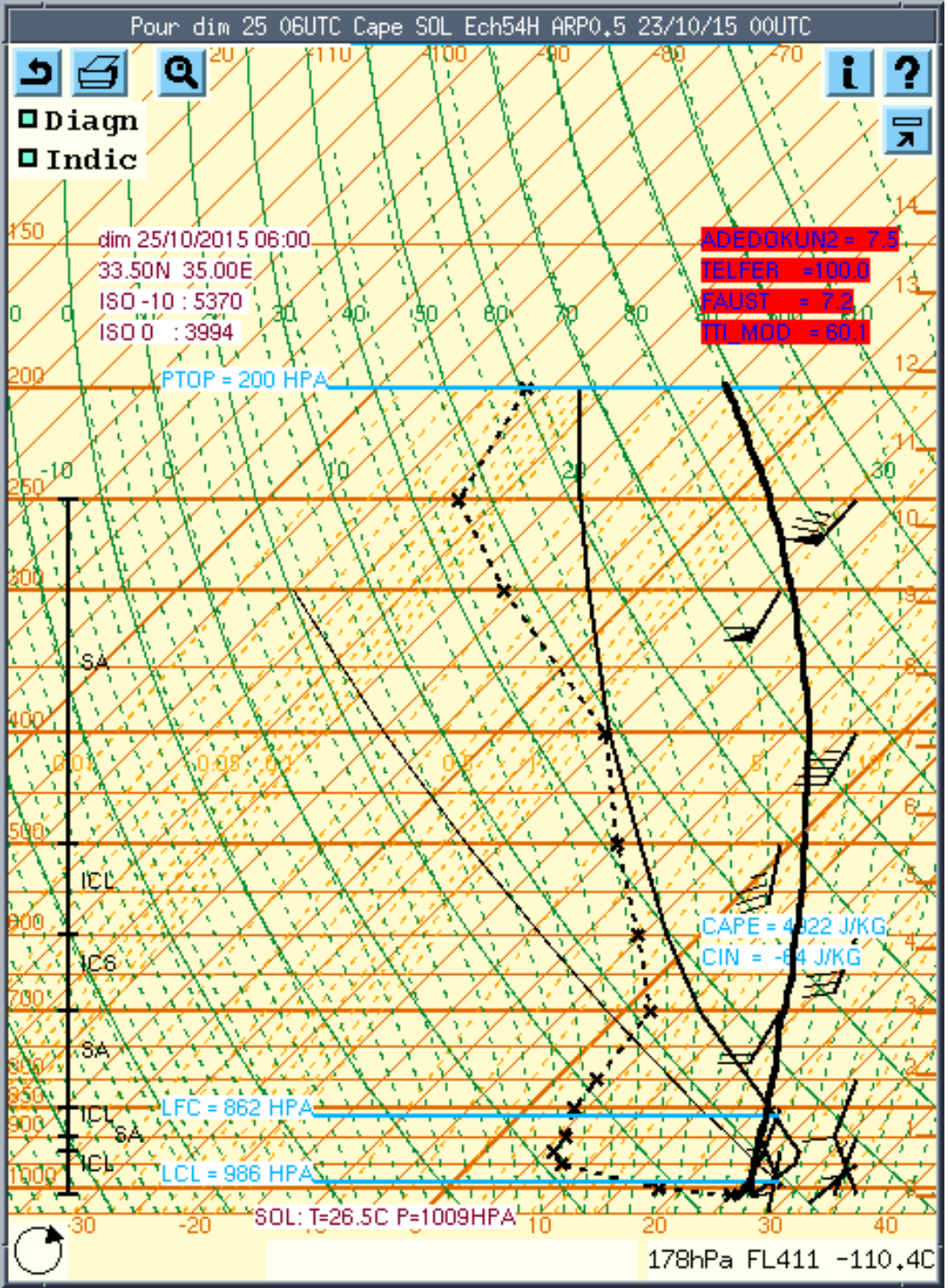
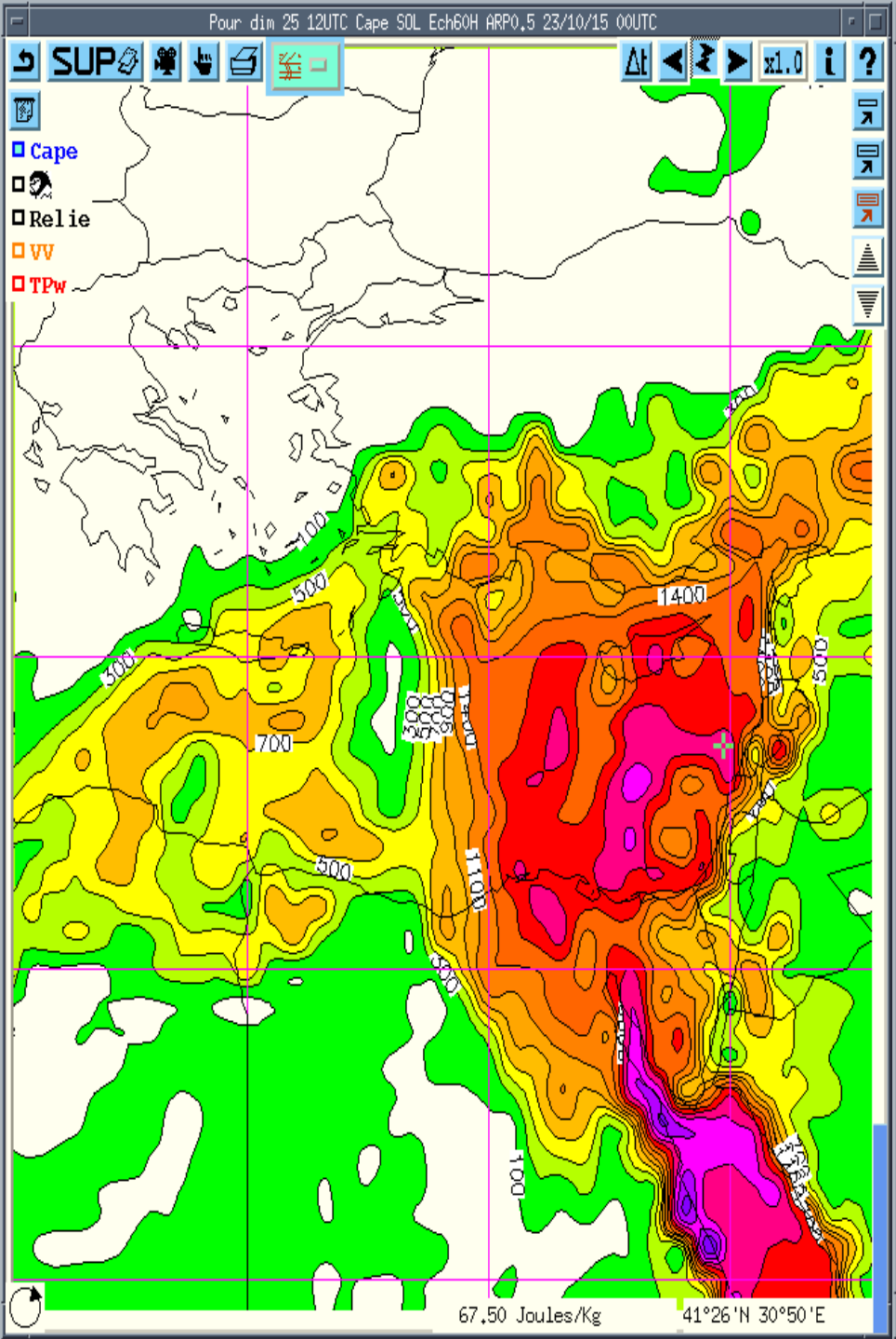
252hPa FL338 -94.9C

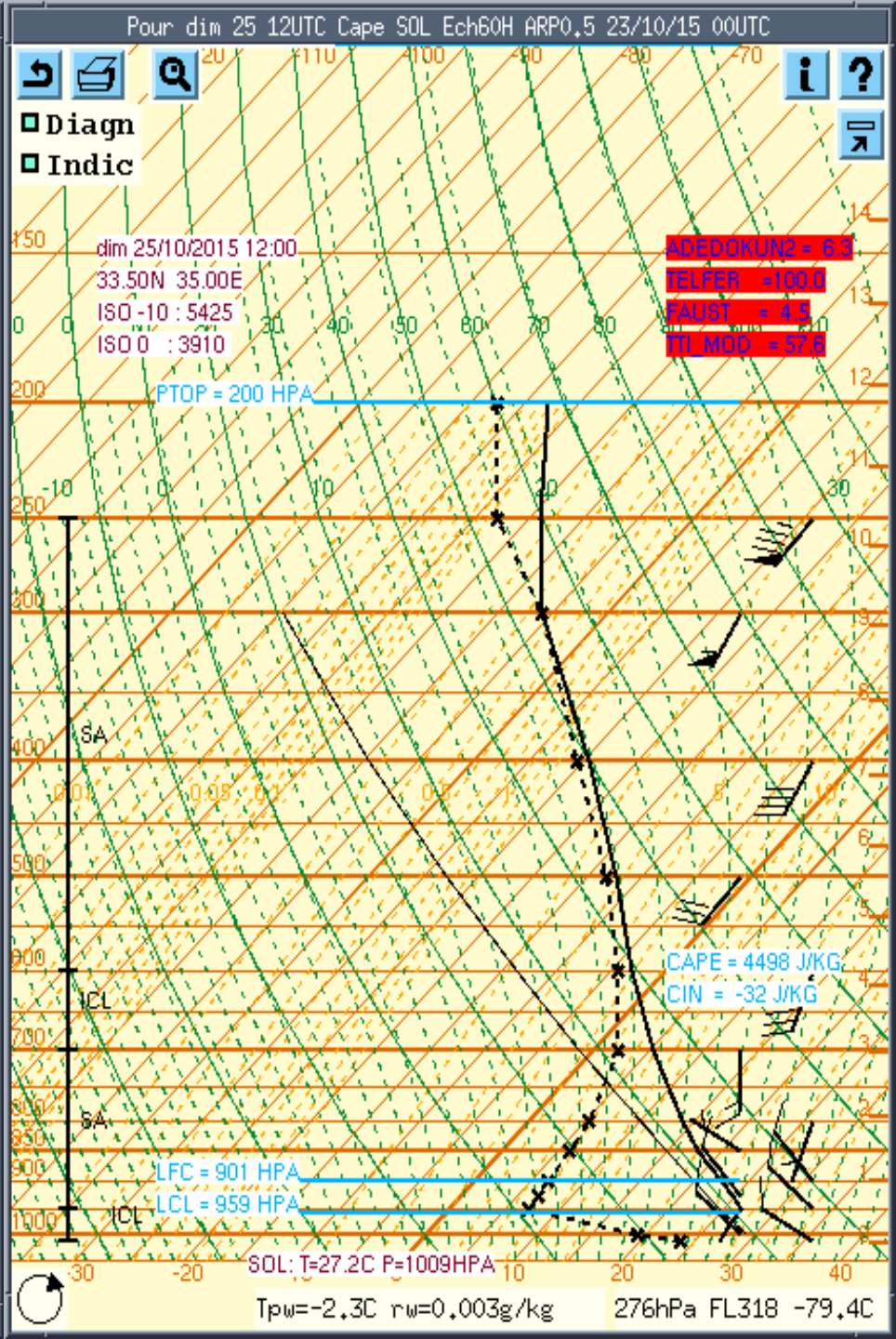

Pour dim 25 06UTC Cape SOL Ech54H ARP0,5 23/10/15 00UTC
SUP
Cape
Relie
VV
TPw
x1.0

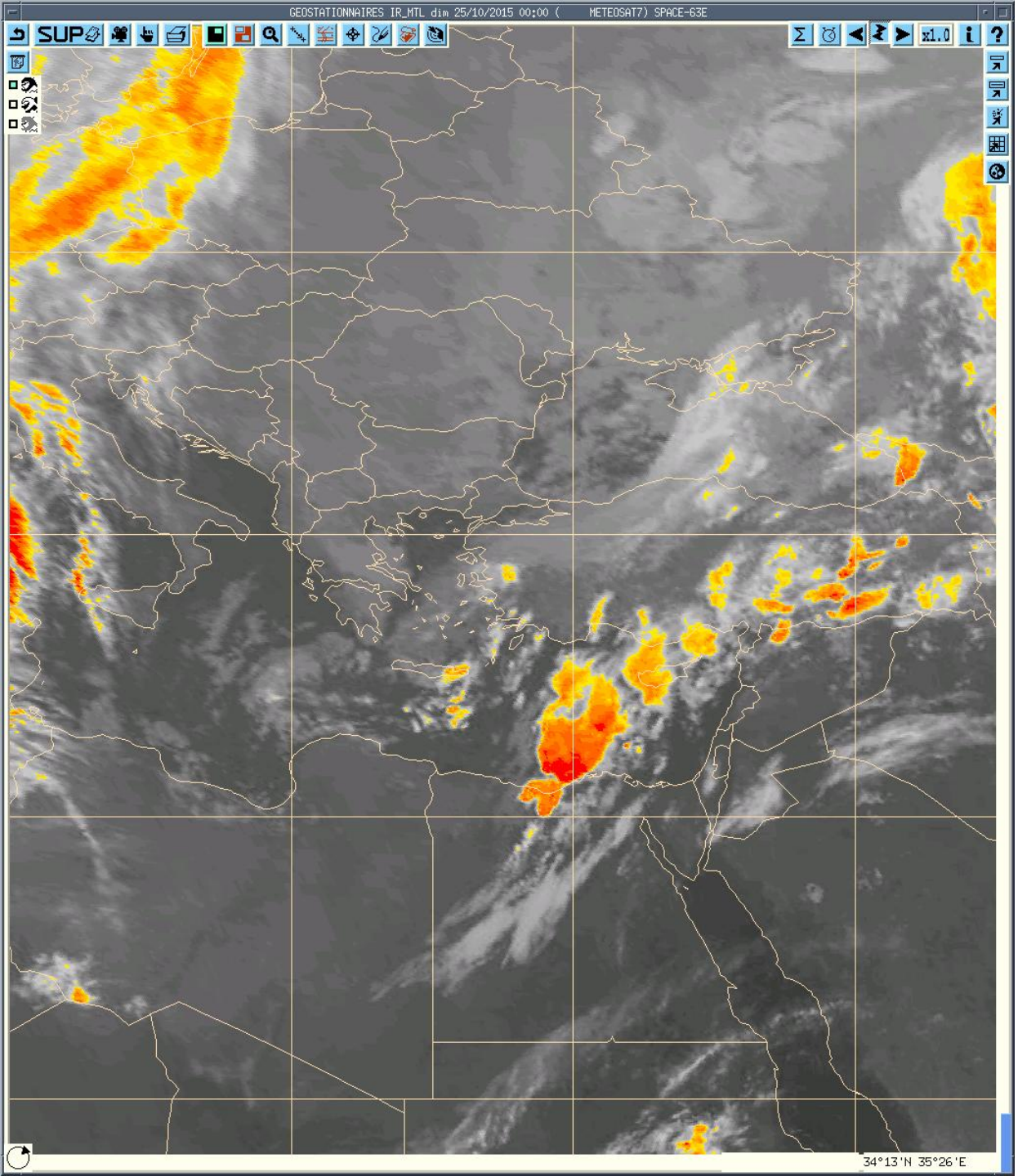

Pour dim 25 06UTC Cape SOL Ech54H ARP0,5 23/10/15 00UTC
Diagn
Indic
dim 25/10/2015 06:00
33.50N 35.00E
ISO -10 : 5370
ISO 0 : 3994
ADEDOKUN2 = 7.5
TELFER = 100.0
FAUST = 7.2
TTI_MOD = 60.1
PTOP = 200 HPA
SA
ICL
ICS
LFC = 862 HPA
LCL = 986 HPA
CAPE = 4922 J/KG
CIN = -64 J/KG
SOL: T=26.5C P=1009HPA
178hPa FL411 -110.4C



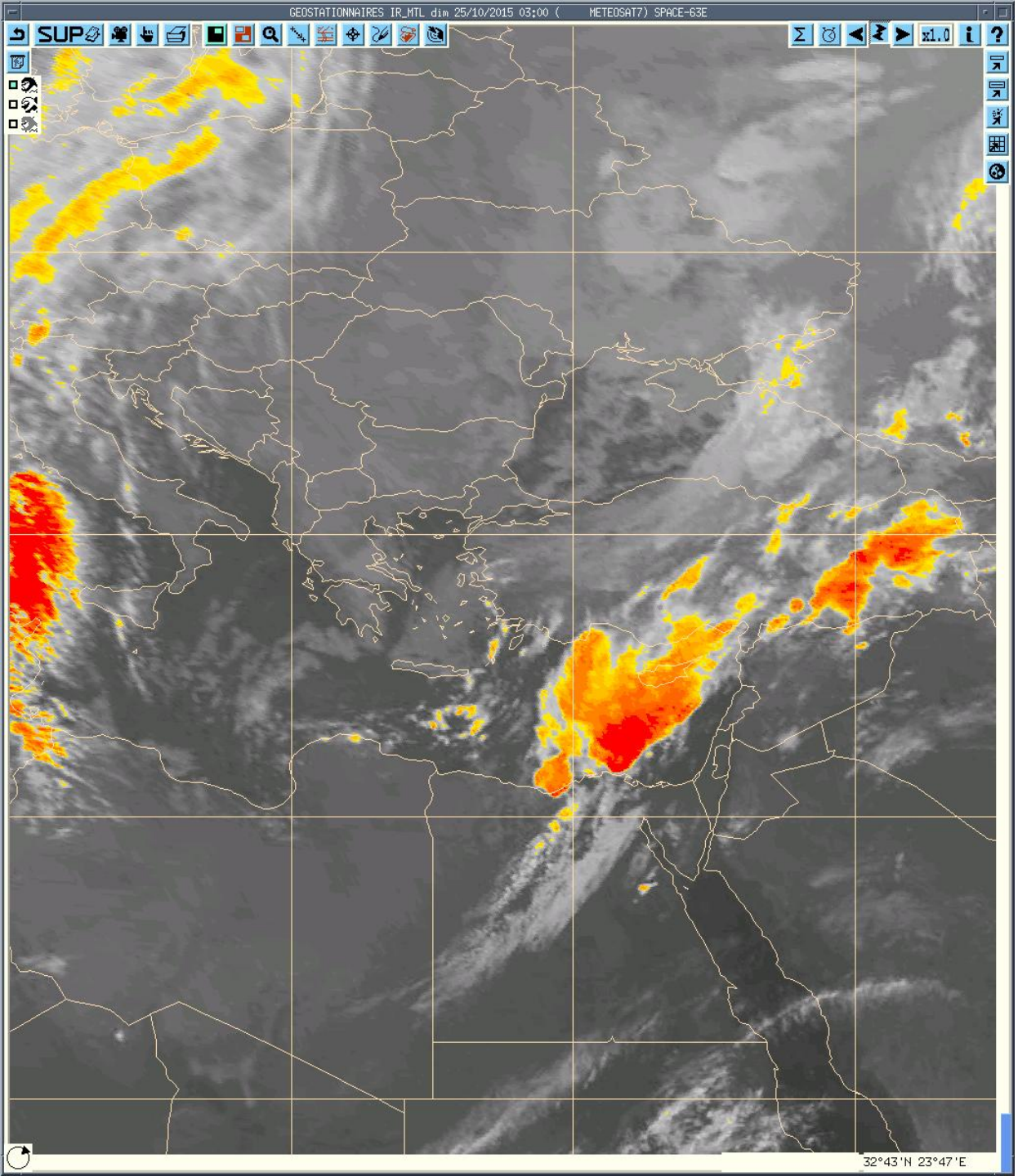
- L57= 7- (-13) = 7+13 = 20 > 9 means incredibly Unstable.
- LI = -13 – 2 = -15 < -11 also extreme ridiculous instability.
- TT = 22-(-13) + (5 –(-15)) = 55 means widely scattered severe storms.
- KI = (22+13) + (5-(6-2)) = 36 large potential for convection.
- CAPE = 4922 j/kg extreme.
- MUVV = 99 m/s. Updraft Speed.


Pour dim 25 12UTC Cape SOL Ech60H ARP0,5 23/10/15 00UTC
SUP
Cape
Relie
VV
TPw
x1.0
67.50 Joules/Kg
41°26'N 30°50'E

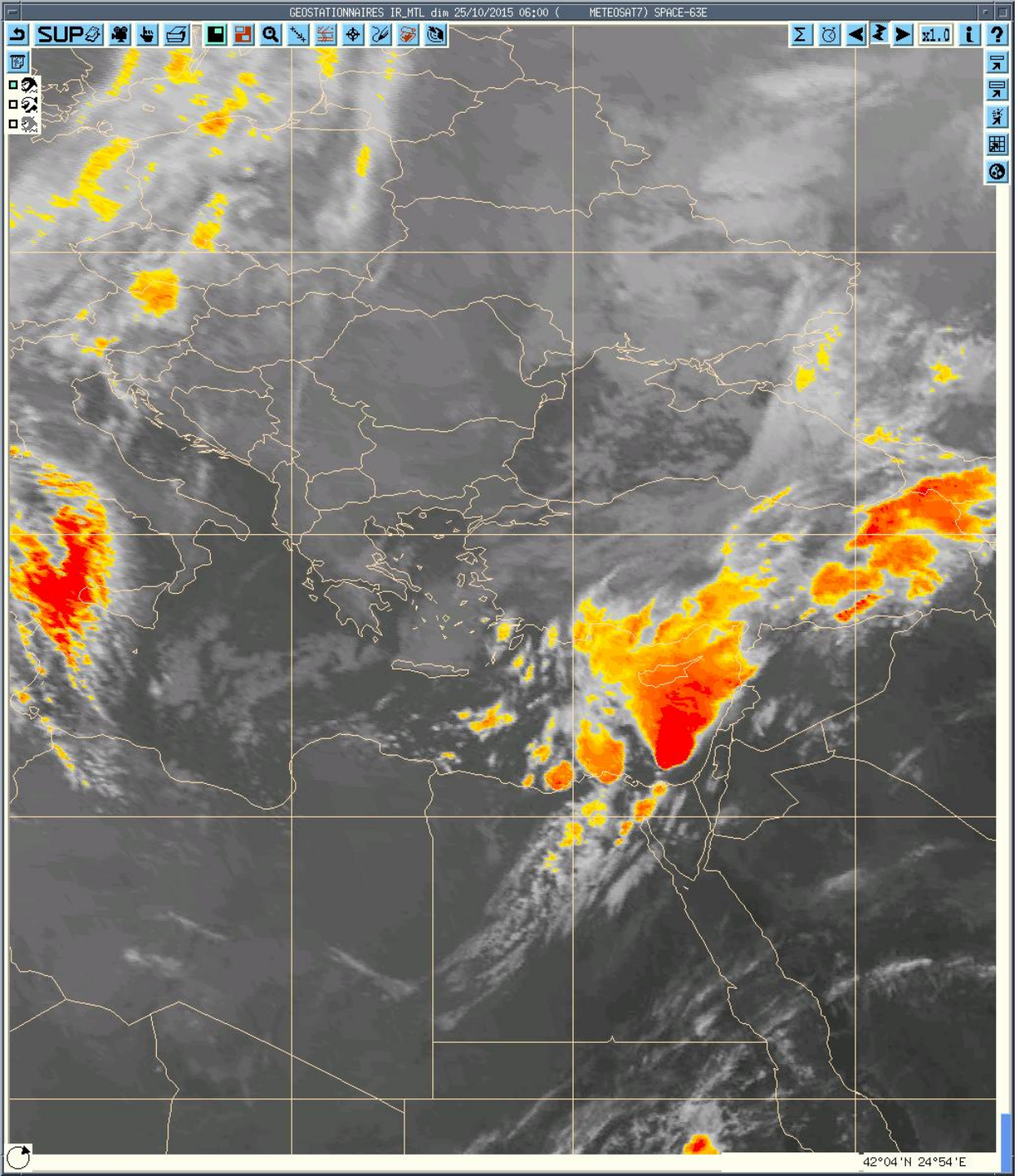

Pour dim 25 12UTC Cape SOL Ech60H ARP0,5 23/10/15 00UTC
Diagn
Indic
dim 25/10/2015 12:00
33.50N 35.00E
ISO -10 : 5425
ISO 0 : 3910
ADEDOKUN2 = 6.3
TELFER = 100.0
FAUST = 4.5
TTI_MOD = 57.6
PTOP = 200 HPA
SA
CAPE = 4498 J/KG
CIN = -32 J/KG
LCL
LFC = 901 HPA
LCL = 959 HPA
SOL: T=27.2C P=1009HPA
Tpw=-2.3C rw=0.003g/kg
276hPa FL318 -79.4C



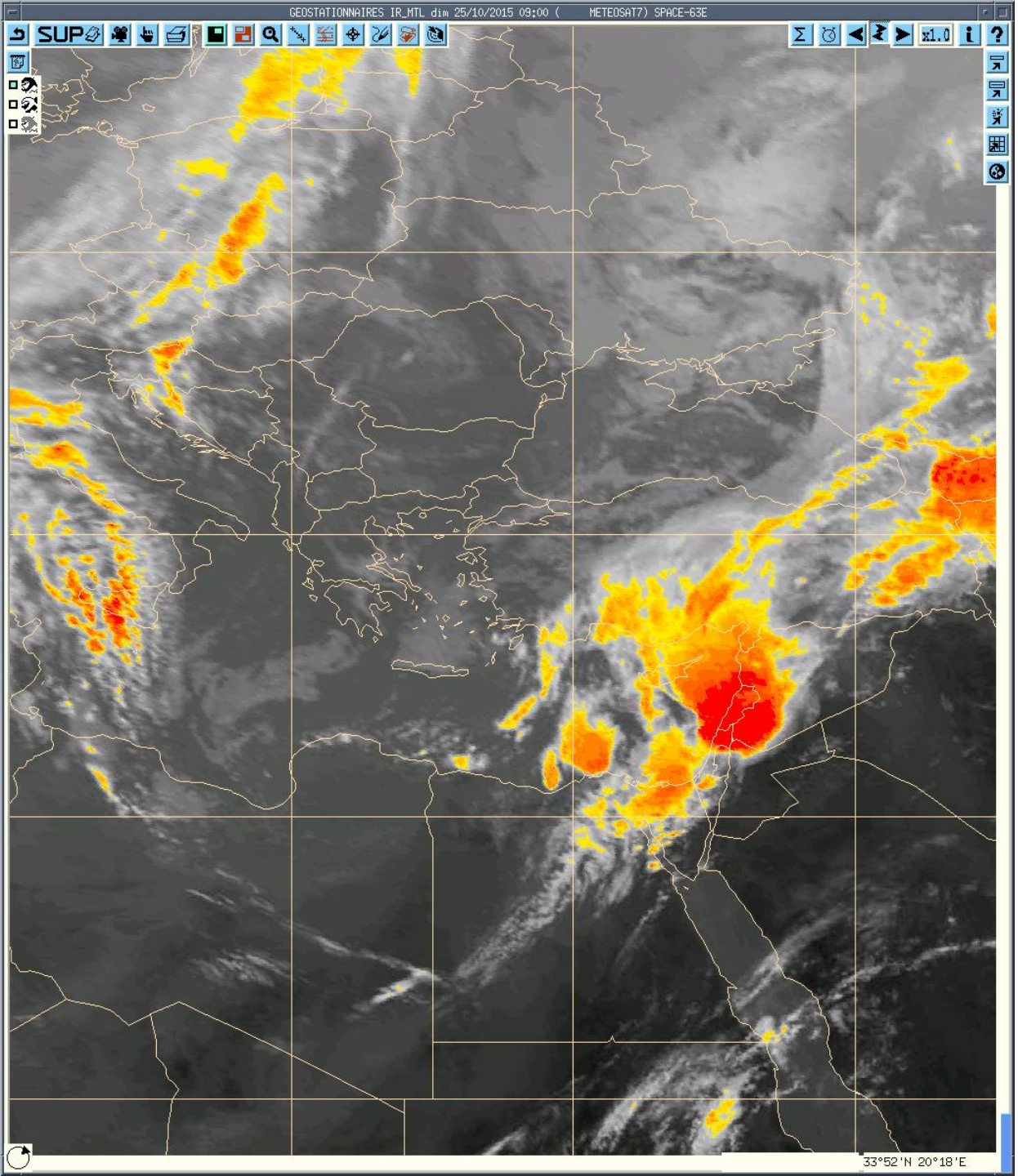
Satellite Image
2015-10-25
00UTC



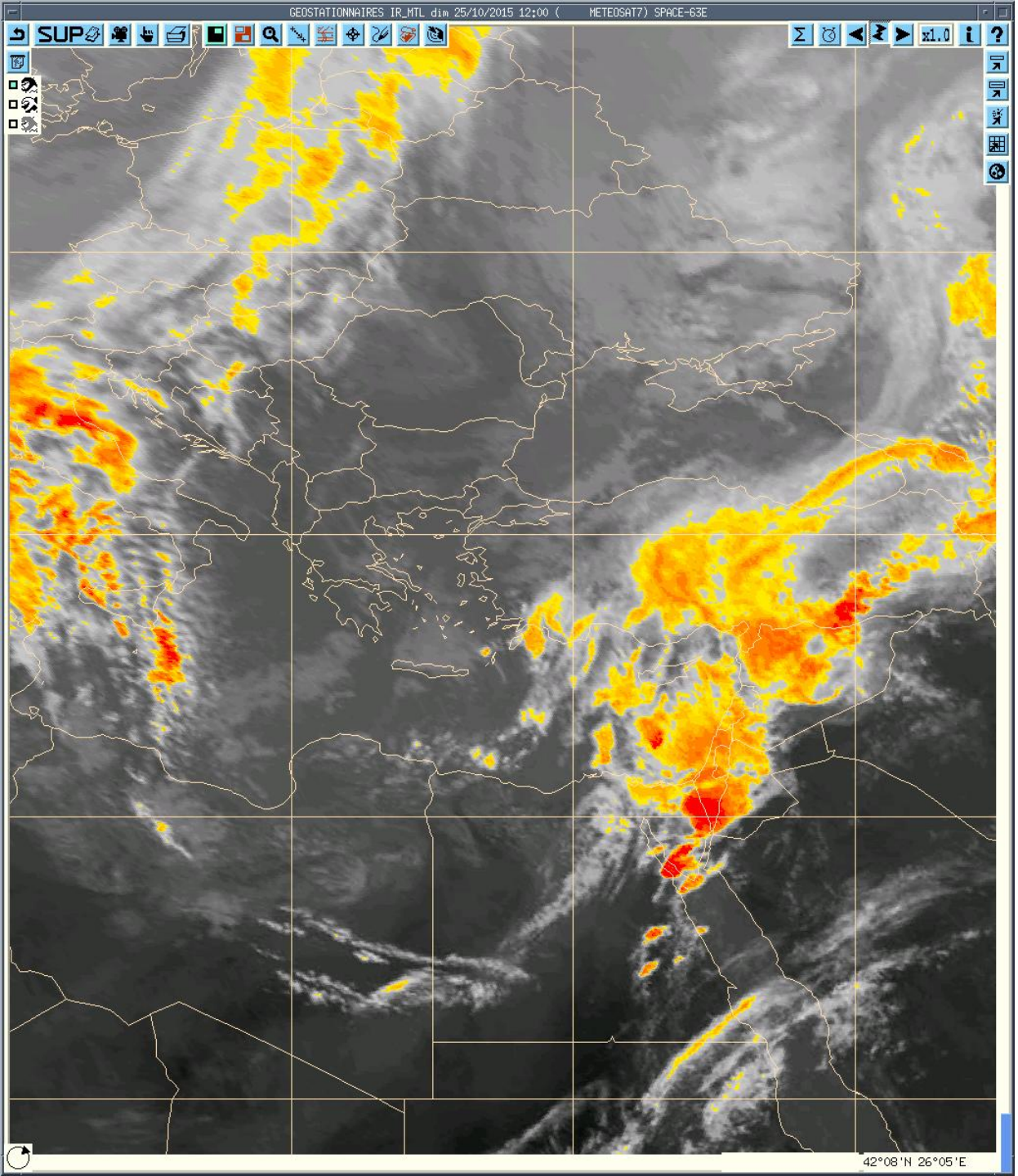
Satellite Image
2015-10-25
03UTC



Satellite Image
2015-10-25
06UTC



Satellite Image
2015-10-25
09UTC



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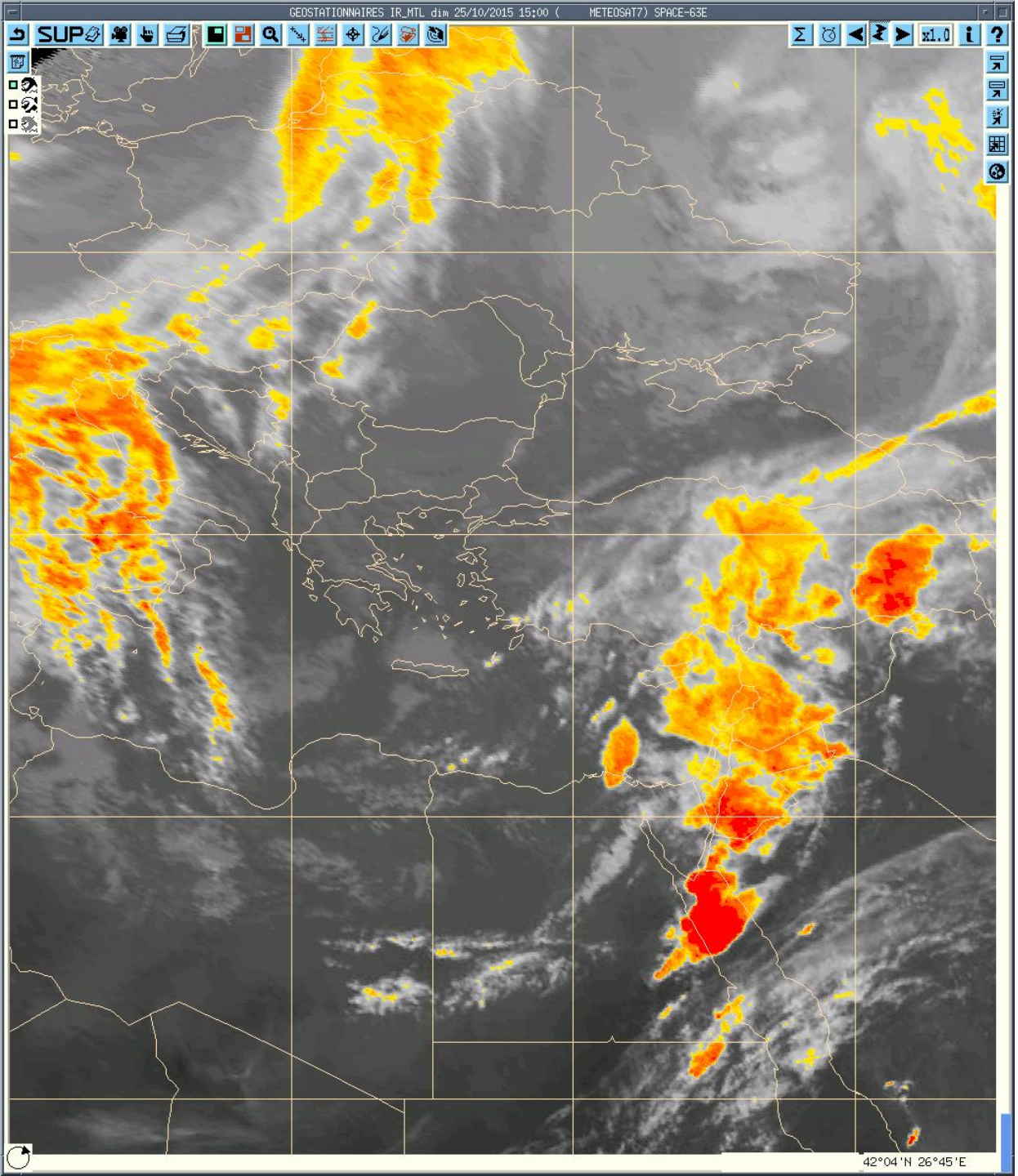
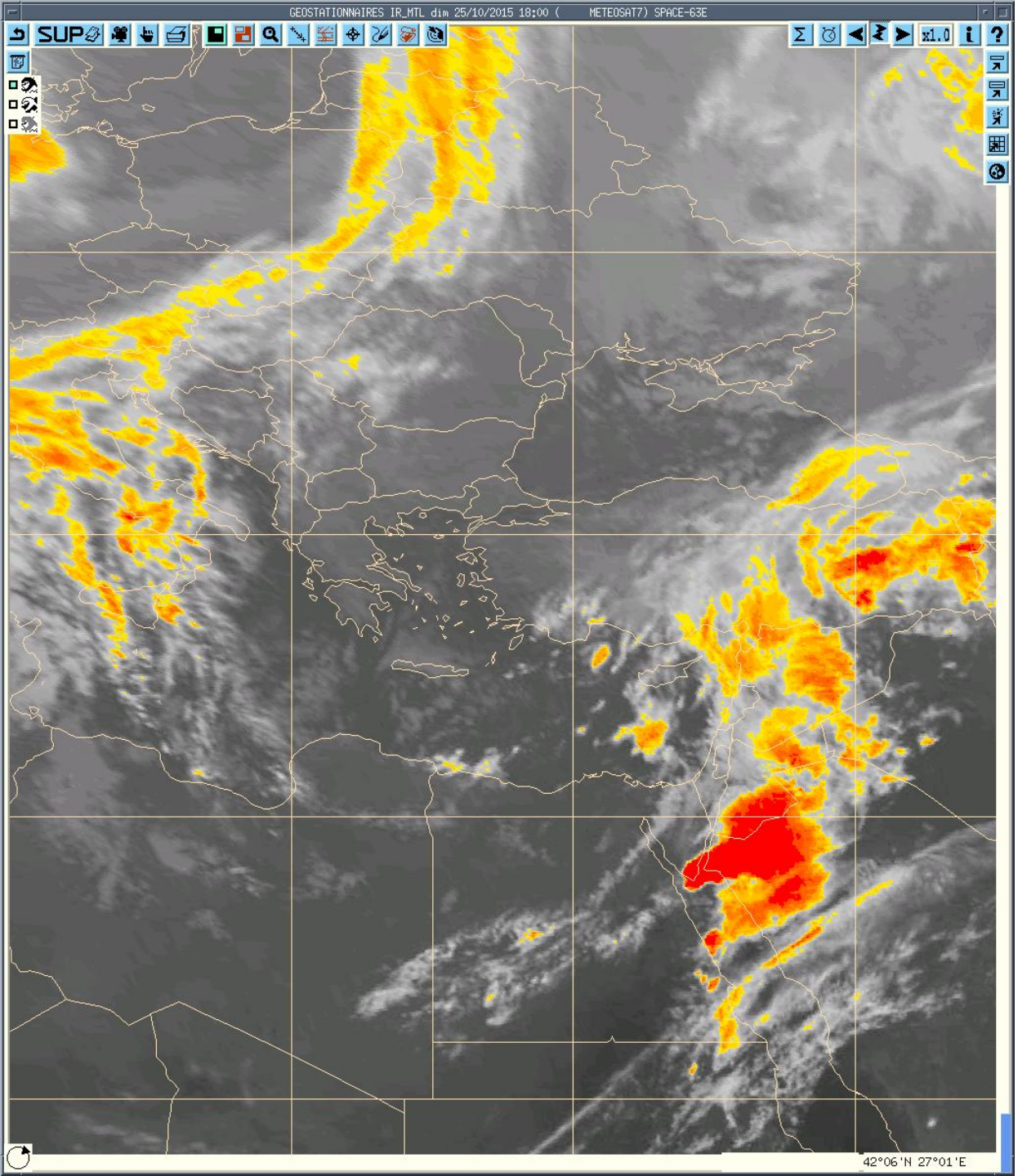
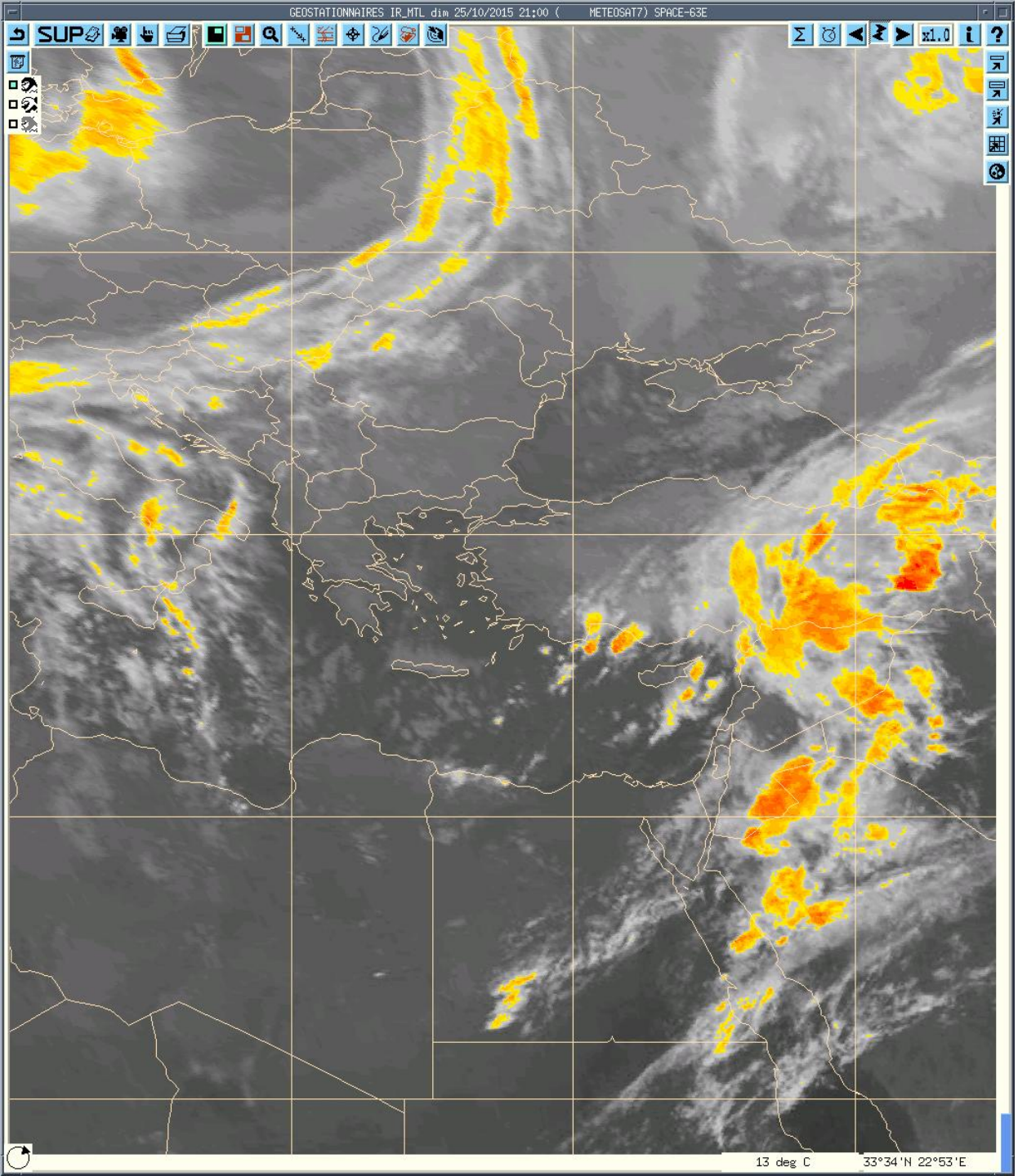


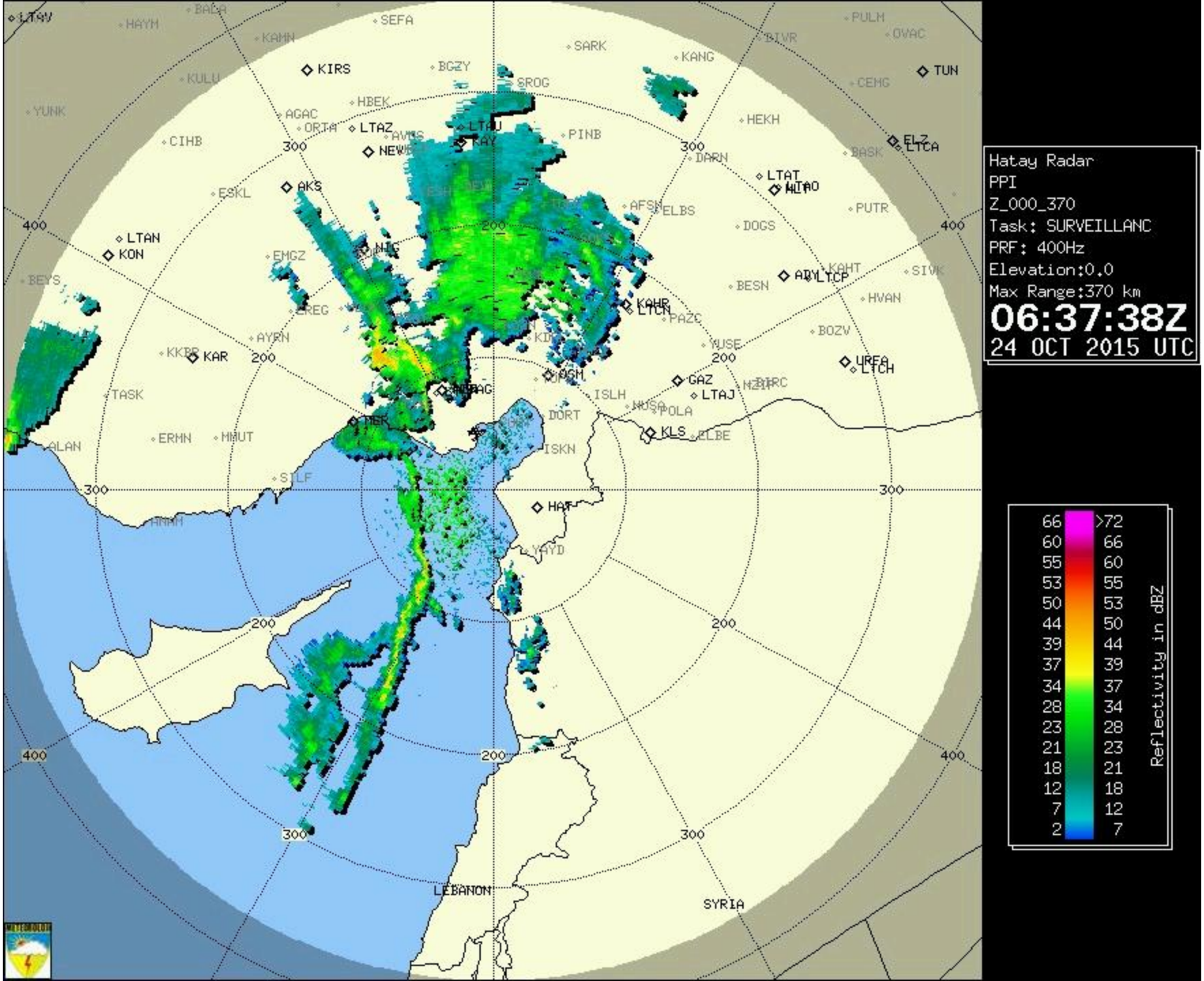
Satellite Image
2015-10-25
15UTC

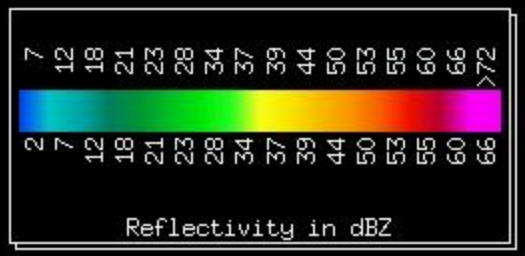


Satellite Image 2015-10-25 18UTC



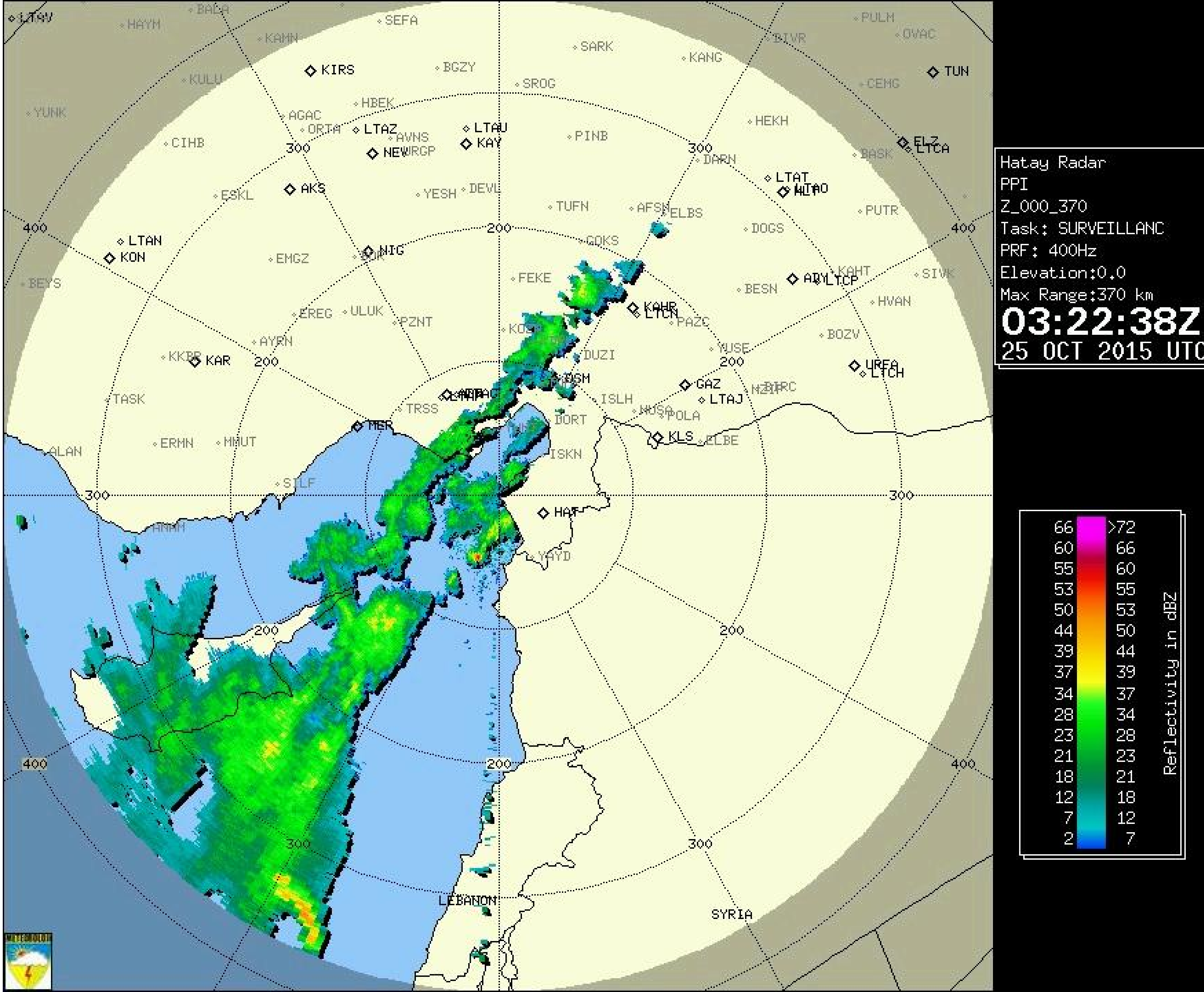
Satellite Image
2015-10-25
21UTC

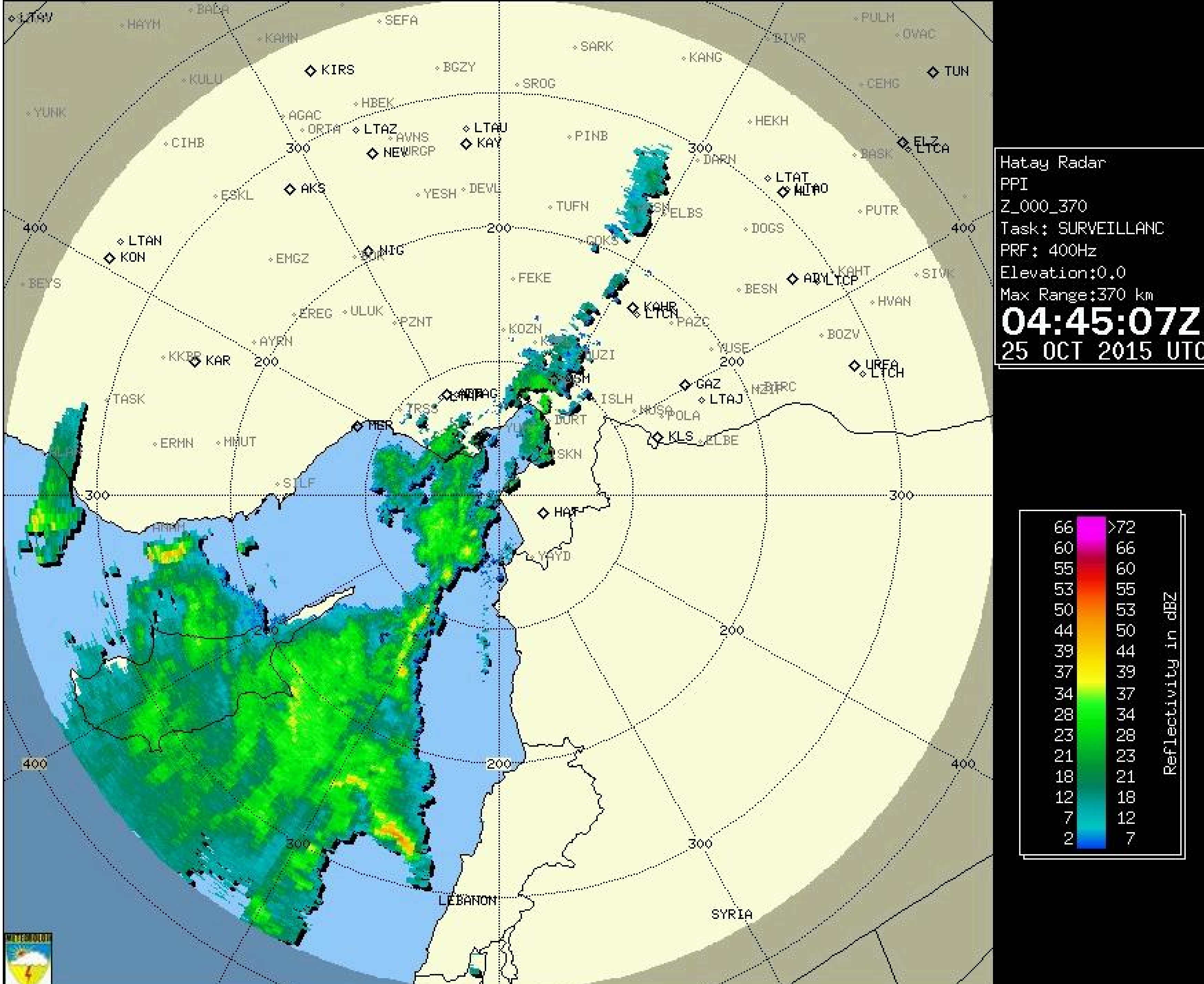

Hatay Radar
PPI
Z_000_370
Task: SURVEILLANC
PRF: 400Hz
Elevation:0.0
Max Range:370 km
06:37:38Z
24 OCT 2015 UTC
Reflectivity in dBZ
66 60 55 53 50 44 39 37 34 28 23 21 18 12 7 2
>72 66 60 55 53 50 44 39 37 34 28 23 21 18 12 7
KIRS
BGZY
SROG
SEFA
SARK
KANG
TUN
KAMN
KULU
YUNK
HBEK
AGAC
ORTA
LTAZ
LTAU
KAY
PINB
HEKH
CIHB
NEW
DARN
LTAT
AKS
ESKL
AFSN
ELBS
PUTR
DOGS
LTAN
KON
EMGZ
BEYS
BESN
KAHT
SIVK
HVAN
KAHR
LTCH
PAZC
BOZV
AYRN
KKBR
KAR
KUSE
URFA
TASK
GAZ
LTAJ
ISLH
DORT
POLA
KLS
ELBE
ERMN
MMUT
ALAN
ISKN
SILF
HAF
YAYD
LEBANON
SYRIA
100
200
300
400



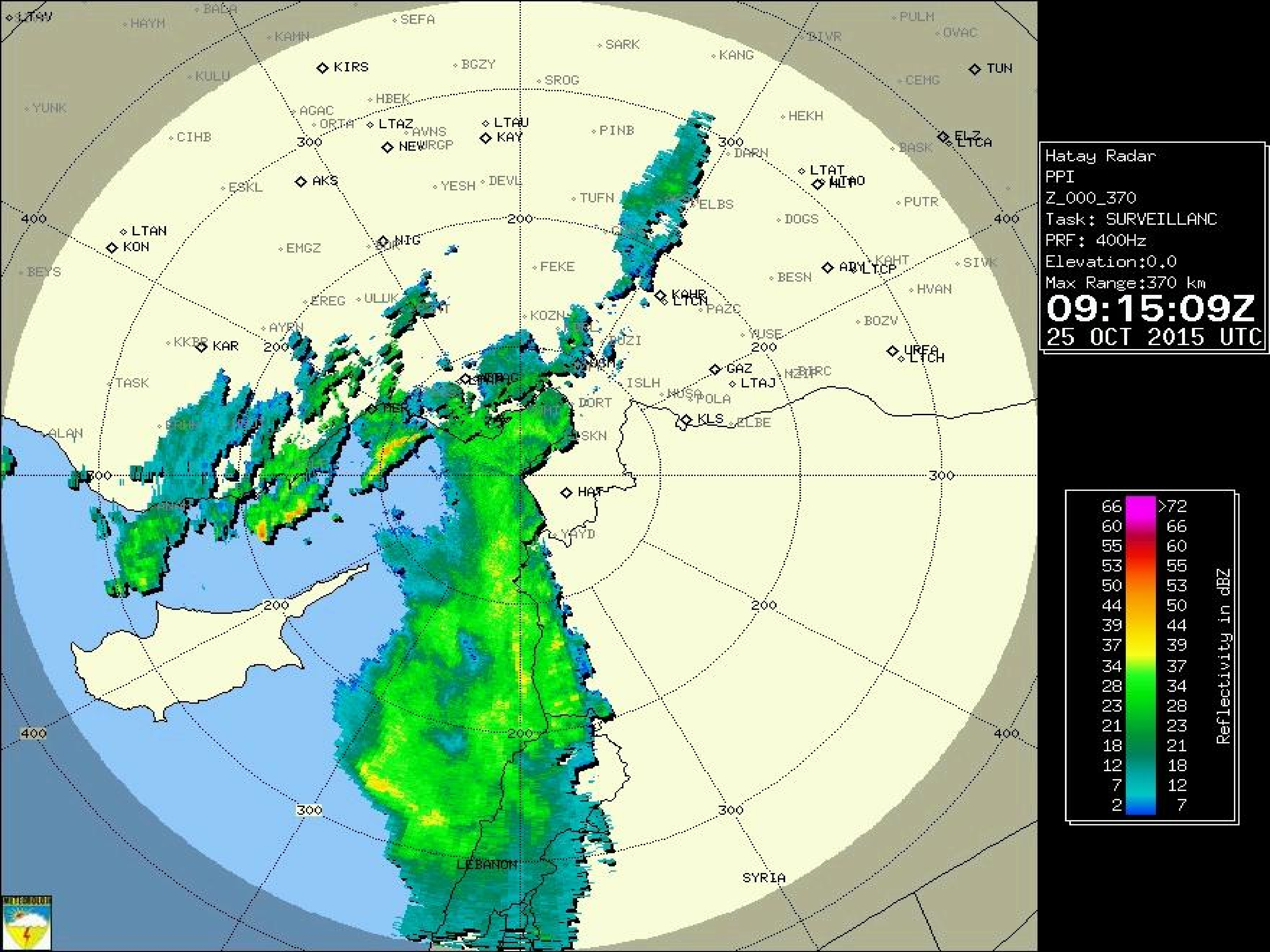
Composite
PPI
COMP_PPI370
Task: SURVEILLANC
PRF: 400Hz
Elevation:0.0
Max Range:1000 km

03:15:20Z
25 OCT 2015 UTC


Hatay Radar
PPI
Z_000_370
Task: SURVEILLANC
PRF: 400Hz
Elevation:0.0
Max Range:370 km
03:22:38Z
25 OCT 2015 UTC
Reflectivity in dBZ
66 >72
60 66
55 60
53 55
50 53
44 50
39 44
37 39
34 37
28 34
23 28
21 23
18 21
12 18
7 12
2 7
LEBANON
SYRIA
KIRS
KAY
NEV
AKS
NIG
KON
KAR
MER
ADA
HAT
GAZ
KLS
ADY
URFA
TUN
ELZ
LTCA
KAHR
LTCN
LTAJ
LTAN
LTAU
LTAZ
LTAT
LTCH
LTCP
100
200
300
400

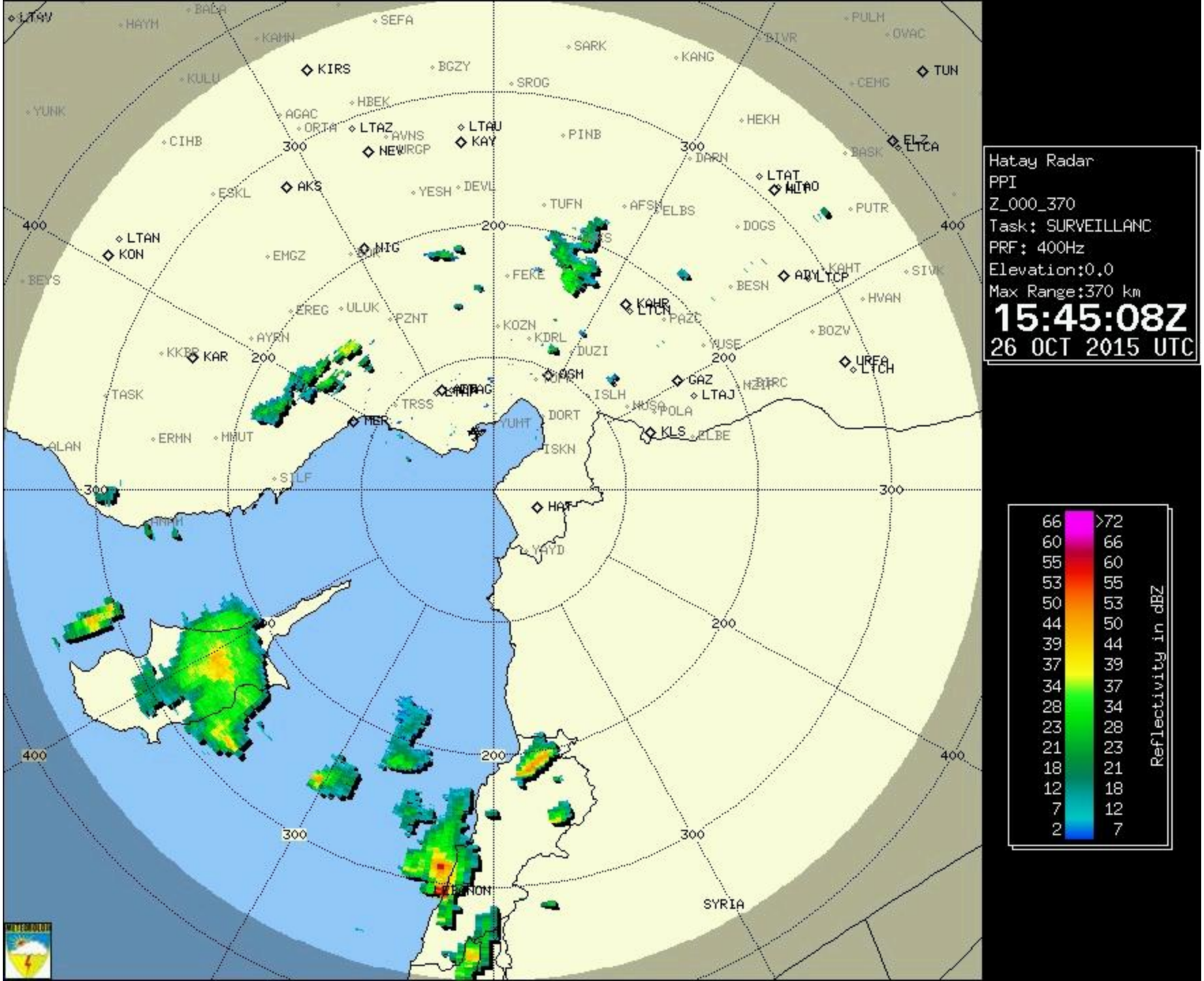


Hatay Radar
PPI
Z_000_370
Task: SURVEILLANC
PRF: 400Hz
Elevation:0.0
Max Range:370 km
04:45:07Z
25 OCT 2015 UTC
Reflectivity in dBZ
66 >72
60 66
55 60
53 55
50 53
44 50
39 44
37 39
34 37
28 34
23 28
21 23
18 21
12 18
7 12
2 7
LEBANON
SYRIA



Hatay Radar
PPI
Z_000_370
Task: SURVEILLANC
PRF: 400Hz
Elevation:0.0
Max Range:370 km
09:15:09Z
25 OCT 2015 UTC
Reflectivity in dBZ
66 >72
60 66
55 60
53 55
50 53
44 50
39 44
37 39
34 37
28 34
23 28
21 23
18 21
12 18
7 12
2 7
KIRS
LTAZ
LTAU
KAY
NEWRGP
AKS
LTAN
KON
NIG
KAR
LTAT
TUN
ELZ
LTCA
ADY
LTCP
KAHR
LTCN
GAZ
LTAJ
URFA
LTCH
KLS
HAT
LEBANON
SYRIA


600
400
800
EDR
KIRK
BRT
ZON
KRB
KAST
TEK
IST
CSAK
DUZ
BOL
CNK
COR
AMS
TOK
GMS
BAY
ART
ARD
KARS
CAN
BUR
BIL
ANK
KRKL
YOZ
SIV
ERZI
ERZ
IGD
AGR
BLK
ESK
KUT
KIRS
TUN
MUS
BTL
VAN
MAN
IZM
USAK
AFY
NEV
KAY
AKS
ELZ
MLT
AYD
DEN
ISP
KUN
NIK
ADY
DIY
BAT
SIRT
SIR
HAK
MAR
KAHR
MUG
ANT
URFA
DSM
KES
HAT
LEBANON
SYRIA
7 12 18 21 23 28 34 37 39 44 50 53 55 60 66 >72
2 7 12 18 21 23 28 34 37 39 44 50 53 55 60 66
Reflectivity in dBZ
Composite
PPI
COMP_PPI370
Task: SURVEILLANC
PRF: 400Hz
Elevation:0.0
Max Range:1000 km
09:07:49Z
25 OCT 2015 UTC


Hatay Radar
PPI
Z_000_370
Task: SURVEILLANC
PRF: 400Hz
Elevation:0.0
Max Range:370 km
15:45:08Z
26 OCT 2015 UTC
Reflectivity in dBZ
66 60 55 53 50 44 39 37 34 28 23 21 18 12 7 2
>72 66 60 55 53 50 44 39 37 34 28 23 21 18 12 7
KIRS
BGZY
SEFA
SARK
KANG
TUN
SROG
HBEK
AGAC
ORTA
LTAZ
AVNS
NEWRGP
LTAU
KAY
PINB
HEKH
CIHB
YUNK
KULU
CEMG
ELZ
LTCA
BASK
DARN
LTAT
AKS
ESKL
YESH
DEVL
TUFN
AFSN
PUTR
DOGS
LTAN
KON
NIG
EMGZ
FEKE
BESN
ADY
LTCP
KAHT
SIVK
BEYS
KAHR
LTCH
HVAN
EREG
ULUK
PZNT
PAZC
KOZN
KDRL
BOZV
AYRN
KKBR
KAR
DUZI
NUSE
URFA
LTCH
OSM
GAZ
LTAJ
TASK
ISLH
TRSS
POLA
DORT
MER
YUHT
KLS
ELBE
ALAN
ERMN
MMUT
ISKN
SILF
HAF
YAYD
LEBANON
SYRIA


Hatay Radar
PPI
Z_000_370
Task: SURVEILLANC
PRF: 400Hz
Elevation:0.0
Max Range:370 km
22:22:37Z
26 OCT 2015 UTC
Reflectivity in dBZ
66 60 55 53 50 44 39 37 34 28 23 21 18 12 7 2
>72 66 60 55 53 50 44 39 37 34 28 23 21 18 12 7
KIRS
BGZY
SROG
SARK
KANG
TUN
SEFA
KAMN
PULM
OVAC
BIVR
CEMG
KULU
YUNK
HBEK
AGAC
ORTA
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AVNS
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WRGP
LTAU
KAY
PINB
HEKH
CIHB
DARN
BASK
ELZ
LTCA
LTAT
LTAO
ESKL
AKS
YESH
DEVL
TUFN
AFSN
ELBS
DOGS
PUTR
LTAN
KON
NIG
EMGZ
GOKS
FEKE
BESN
ADY
LTCP
KAHT
SIVK
BEYS
KAHR
LTCH
HVAN
EREG
ULUK
PZNT
PAZ
KOZN
KDRL
BOZV
AYRN
KKBR
KAR
DUZI
USE
URFA
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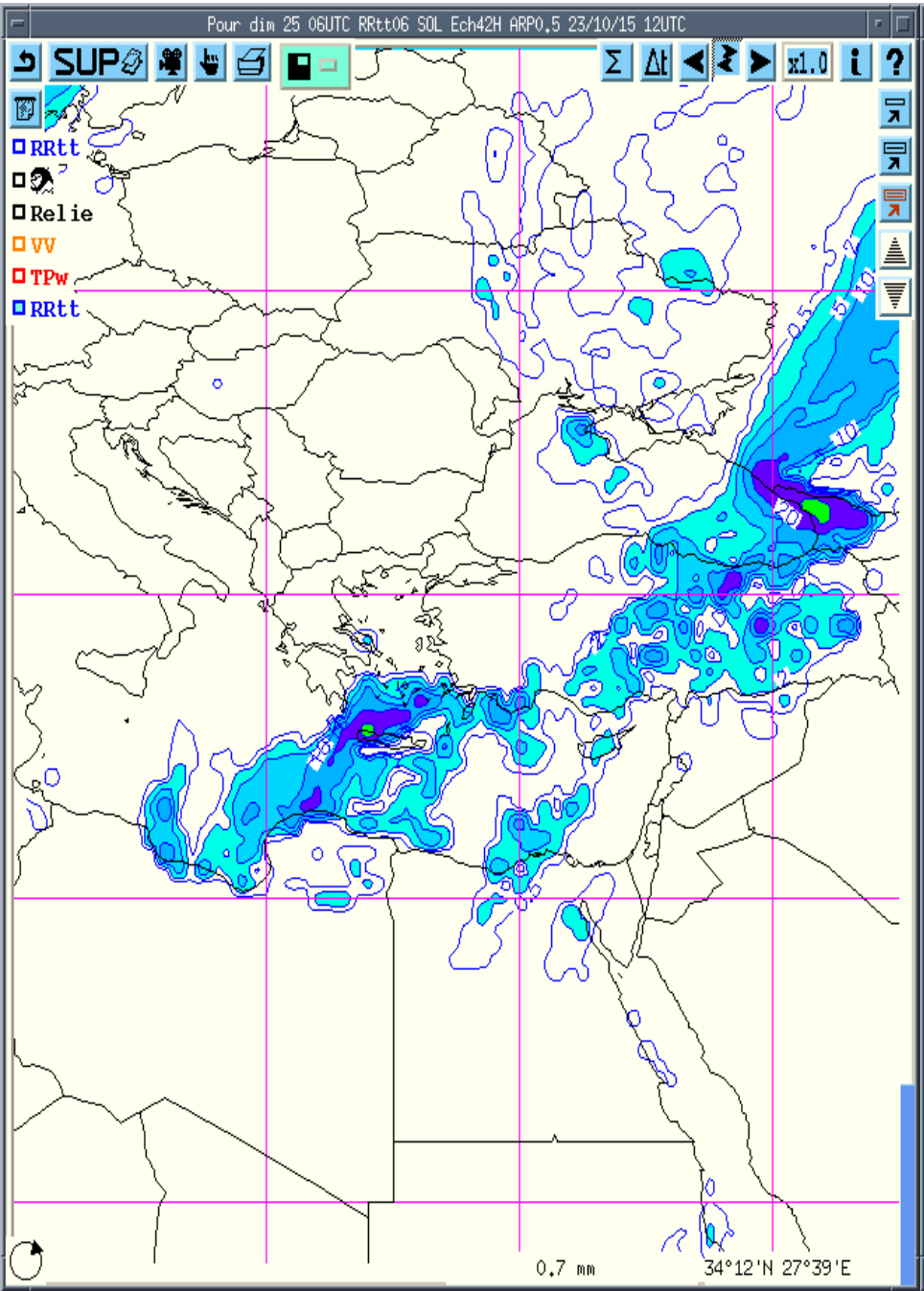
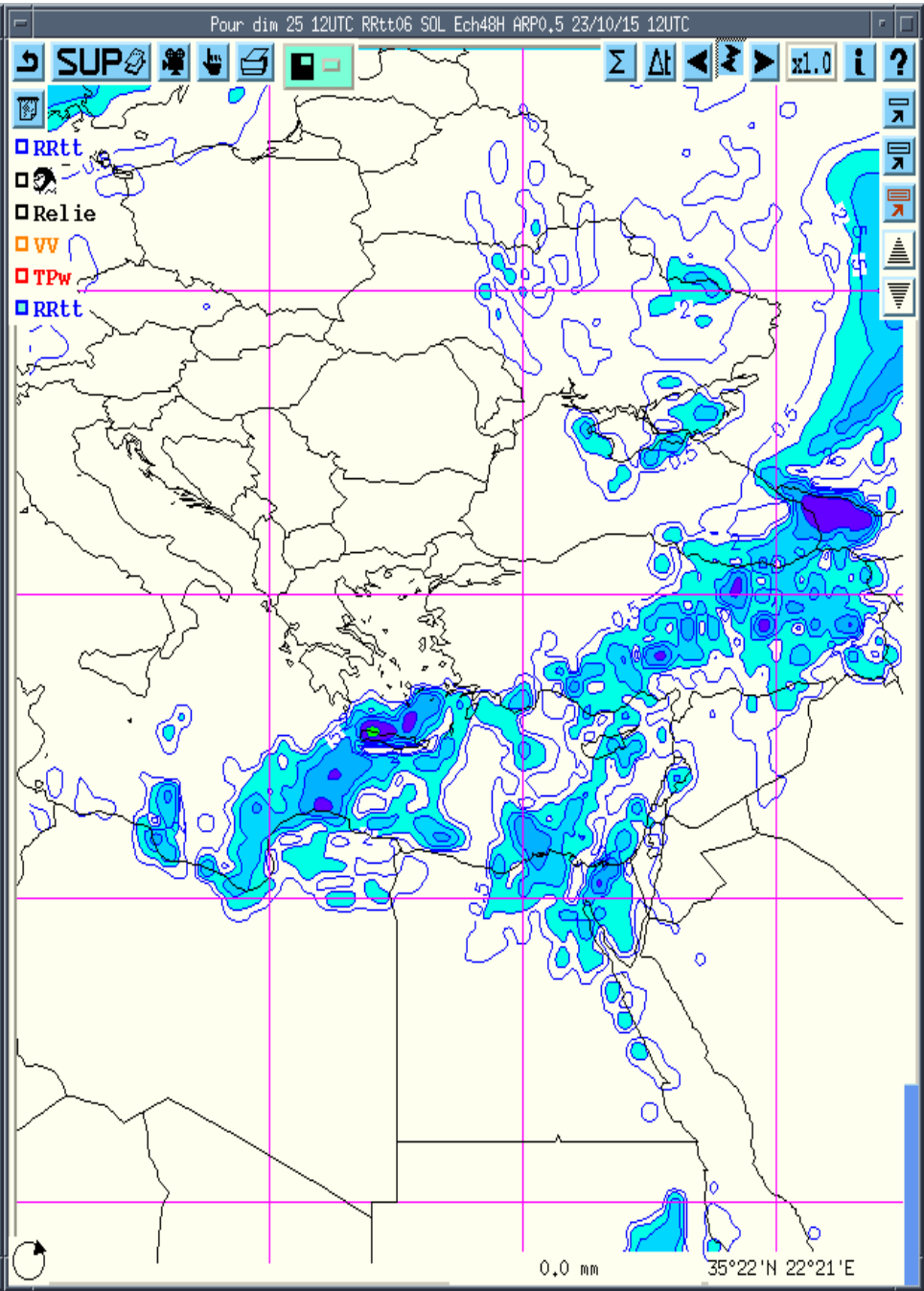
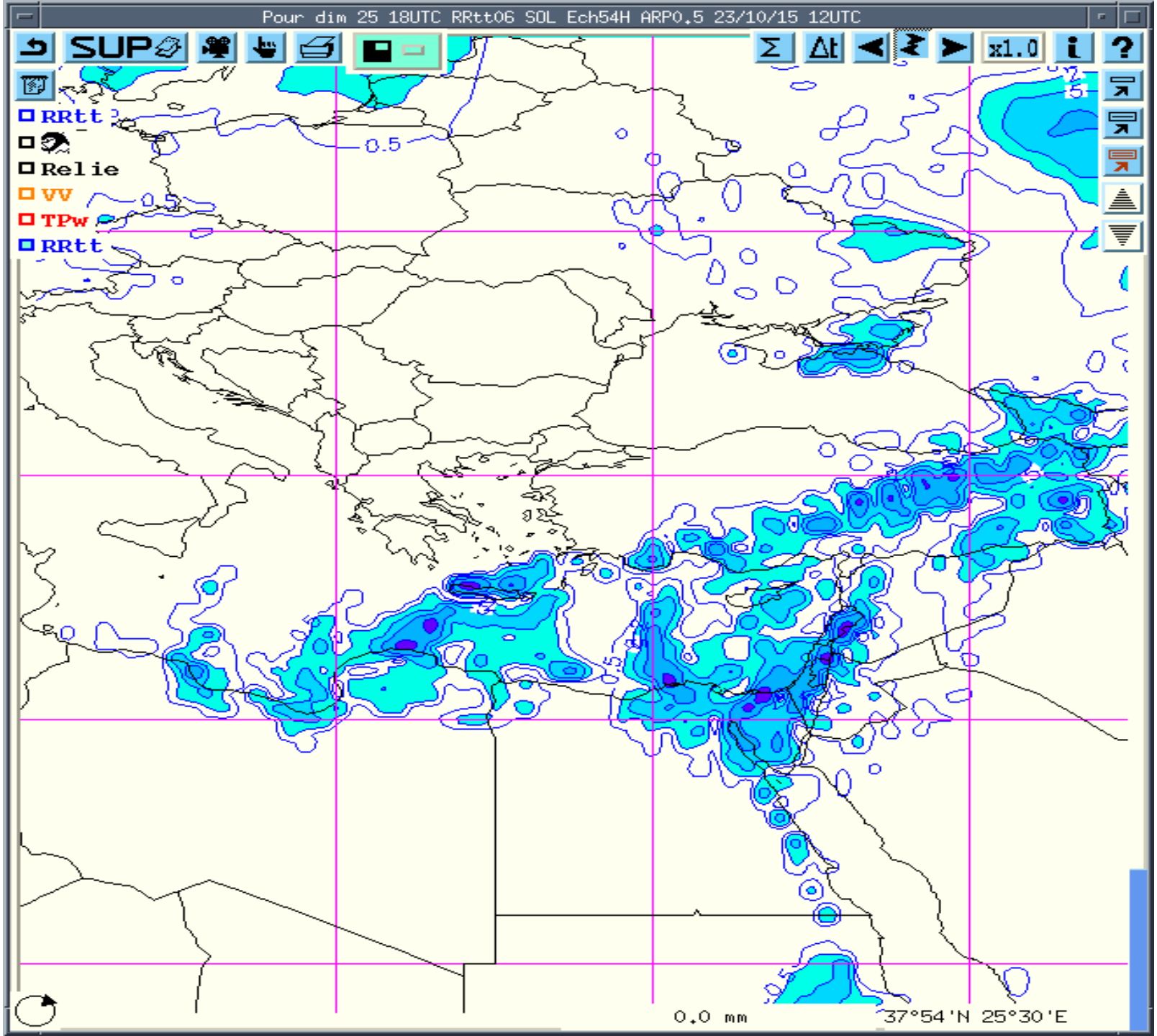
LTAJ
TASK
ISLH
TRSS
POLA
DORT
MER
KLS
ELBE
ERMN
MMUT
ALAN
ISKN
SILF
HAF
YAYD
LEBANON
SYRIA
300
200
400

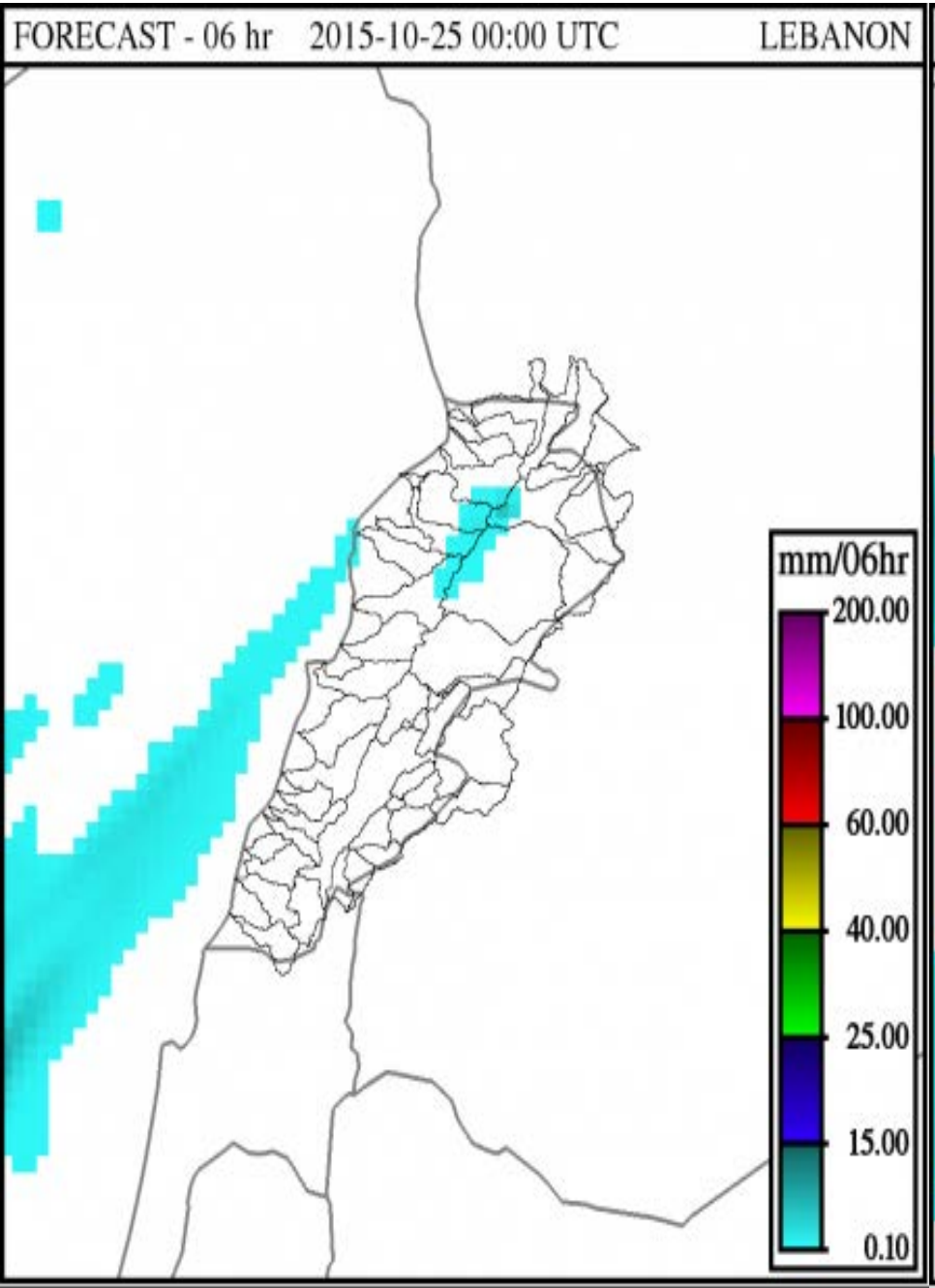
Arp 0.5

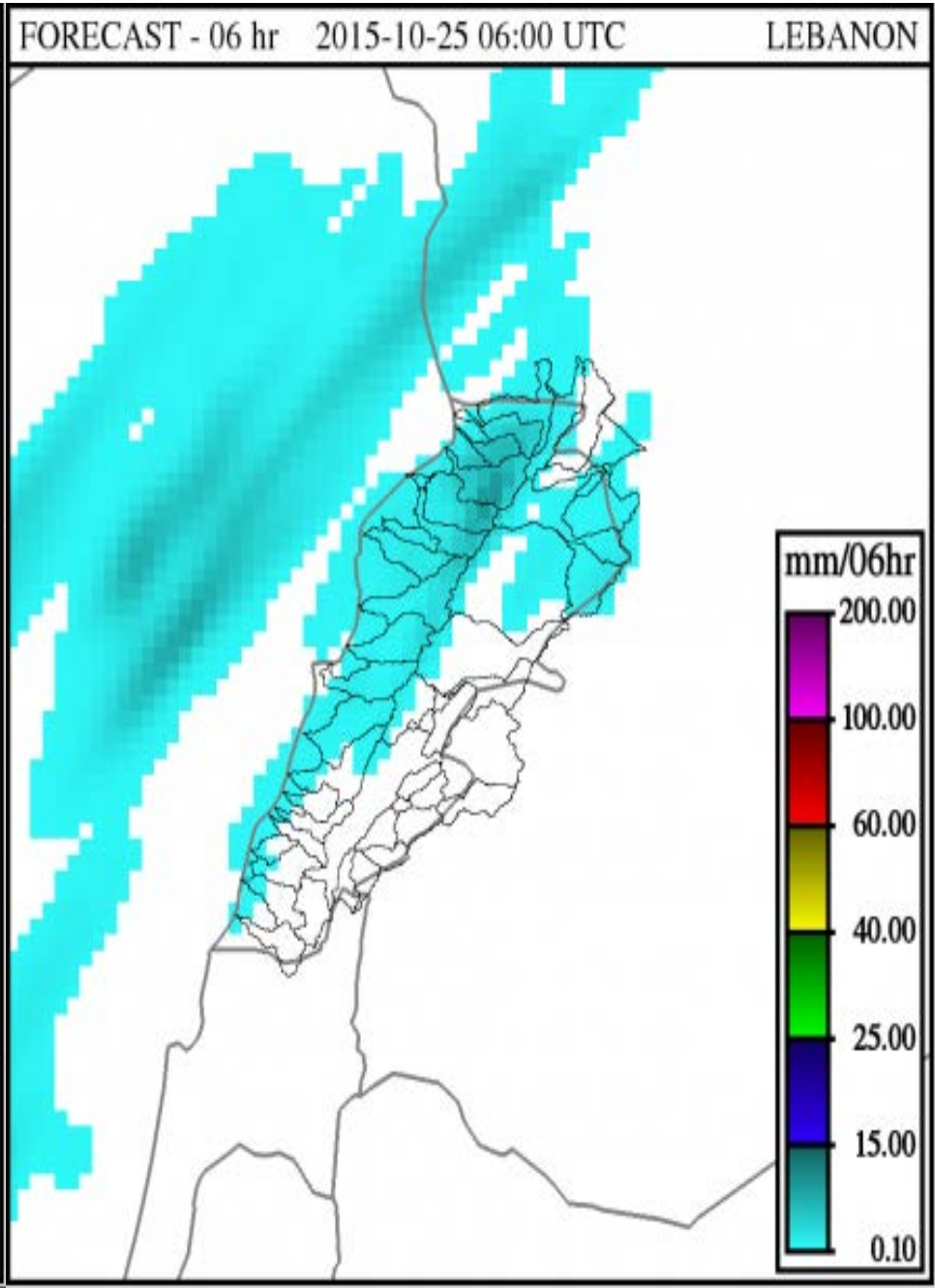

Pour dim 25 06UTC RRtt06 SOL Ech42H ARP0,5 23/10/15 12UTC
SUP
x1.0
RRtt
Relie
VV
TPw
RRtt
0.7 mm
34°12'N 27°39'E


Pour dim 25 12UTC RRtt06 SOL Ech48H ARP0,5 23/10/15 12UTC
SUP
x1.0
RRtt
Relie
VV
TPw
RRtt
0.0 mm
35°22'N 22°21'E

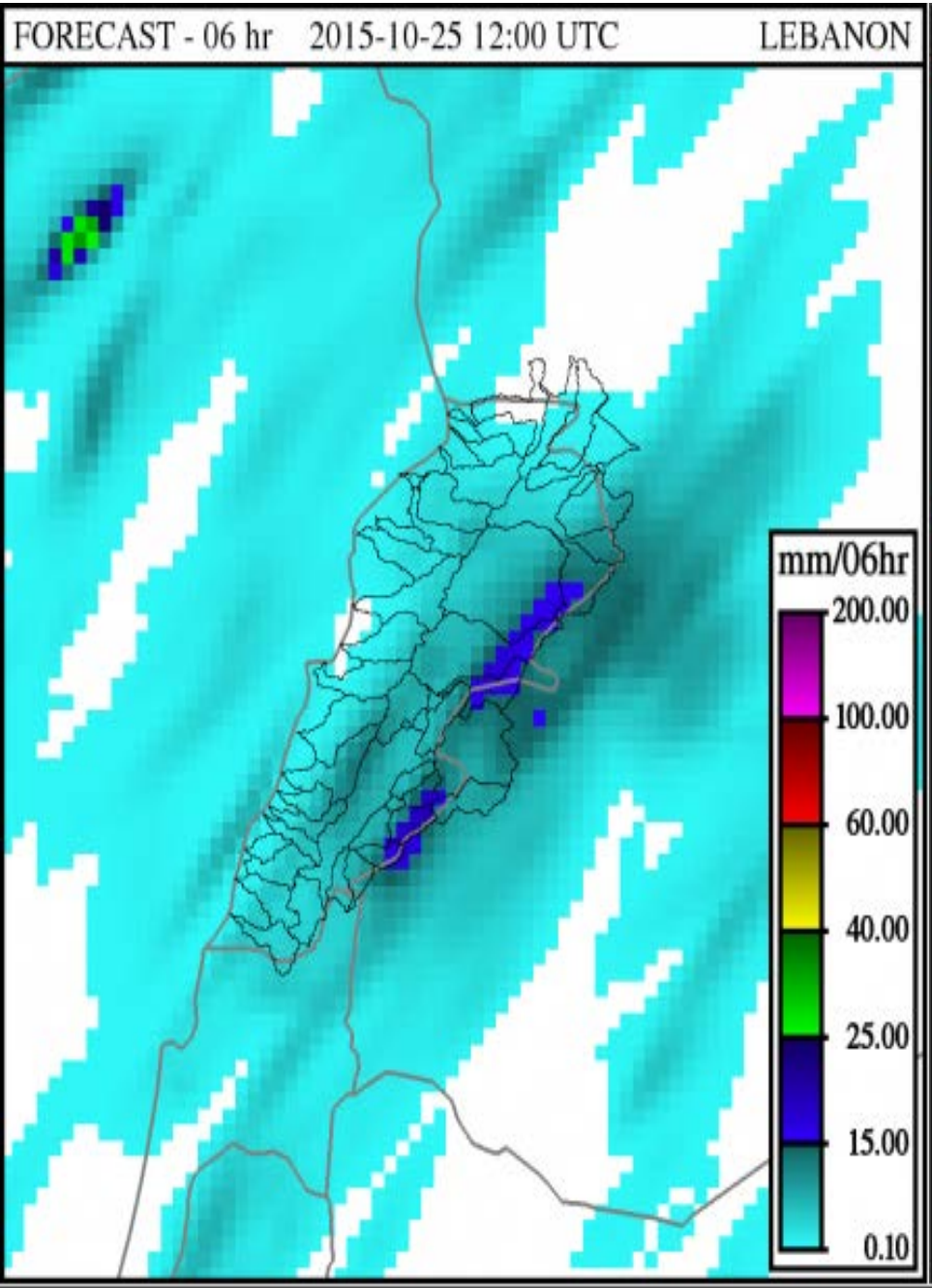

Pour dim 25 18UTC RRtt06 SOL Ech54H ARP0.5 23/10/15 12UTC
SUP
Σ
Δt
x1.0
RRtt
Relie
VV
TPw
RRtt
0.5
0.5
0.5
0.0 mm
37°54'N 25°30'E

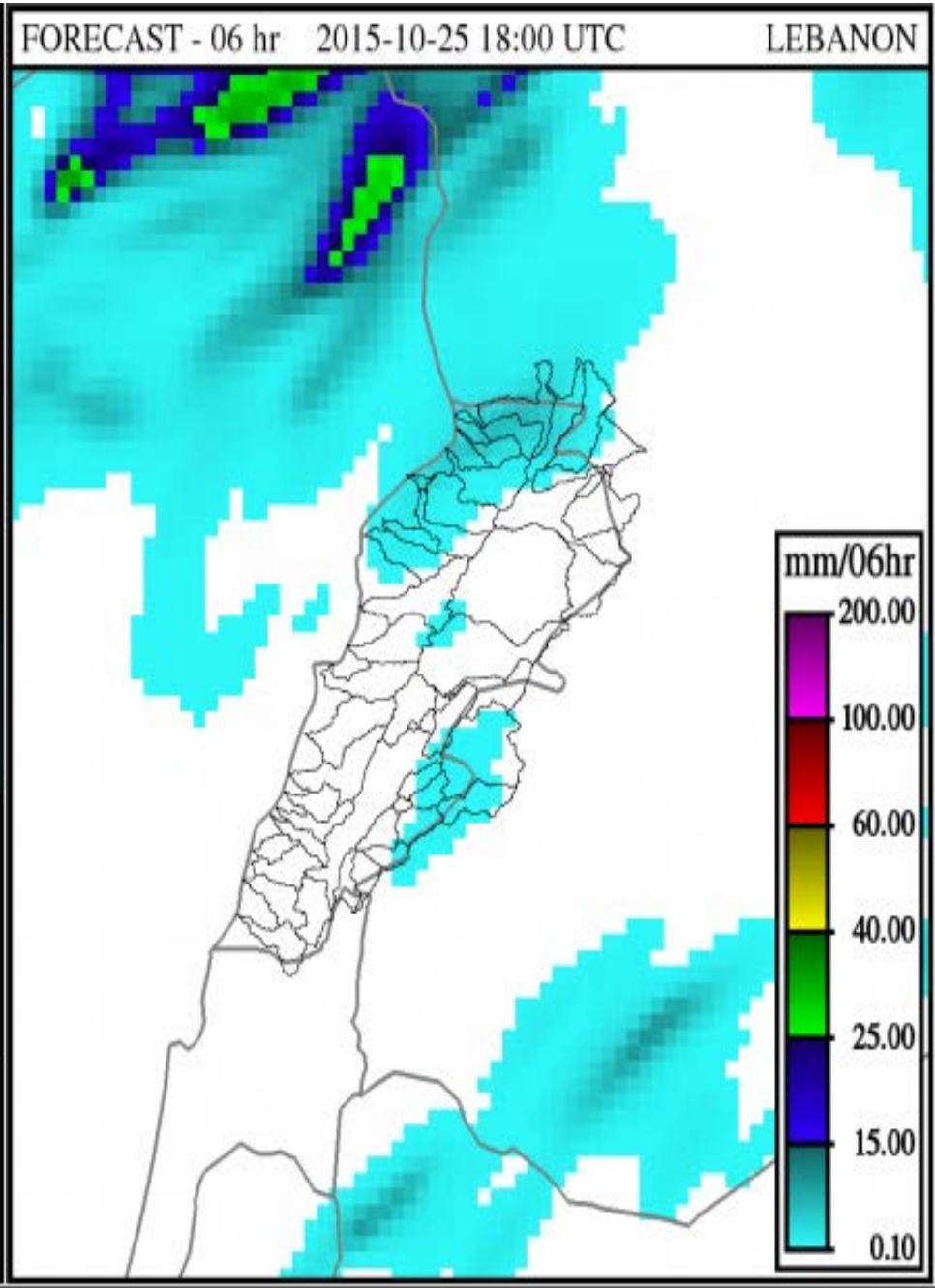
ALARO 6hrs


FORECAST - 06 hr 2015-10-25 00:00 UTC LEBANON
mm/06hr
200.00
100.00
60.00
40.00
25.00
15.00
0.10

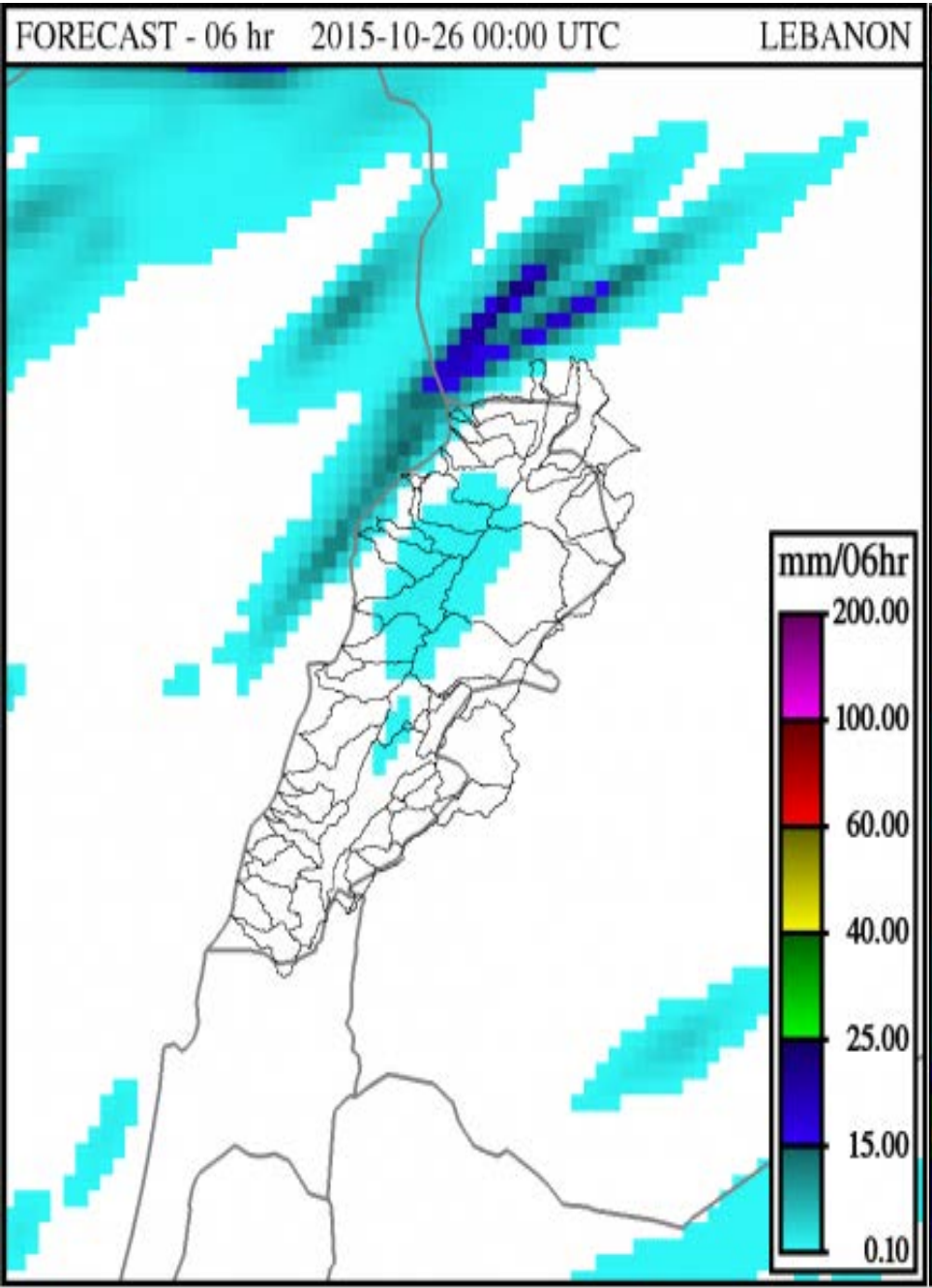

FORECAST - 06 hr 2015-10-25 06:00 UTC LEBANON
mm/06hr
200.00
100.00
60.00
40.00
25.00
15.00
0.10

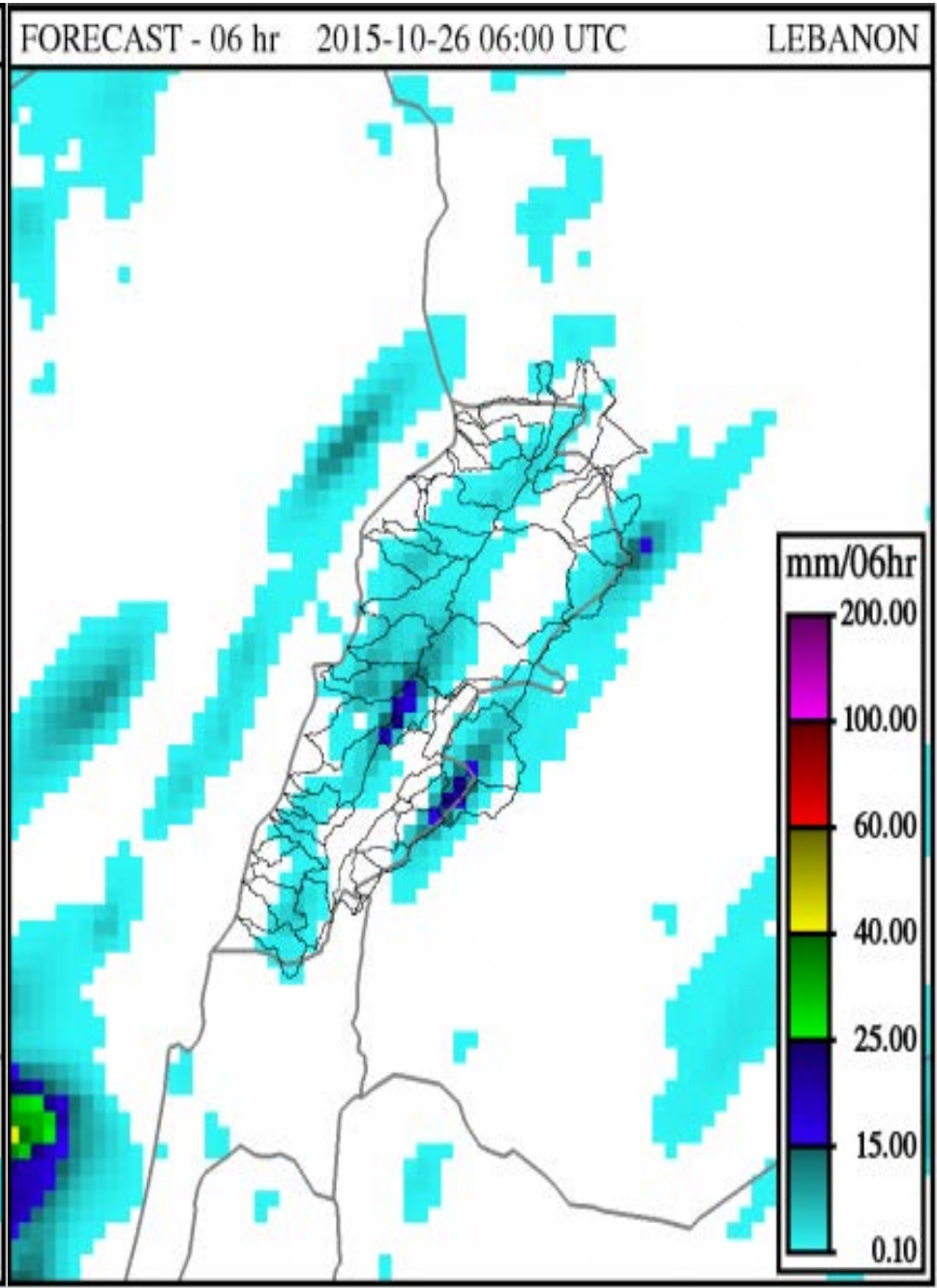
ALARO 6hrs


FORECAST - 06 hr 2015-10-25 12:00 UTC LEBANON
mm/06hr
200.00
100.00
60.00
40.00
25.00
15.00
0.10

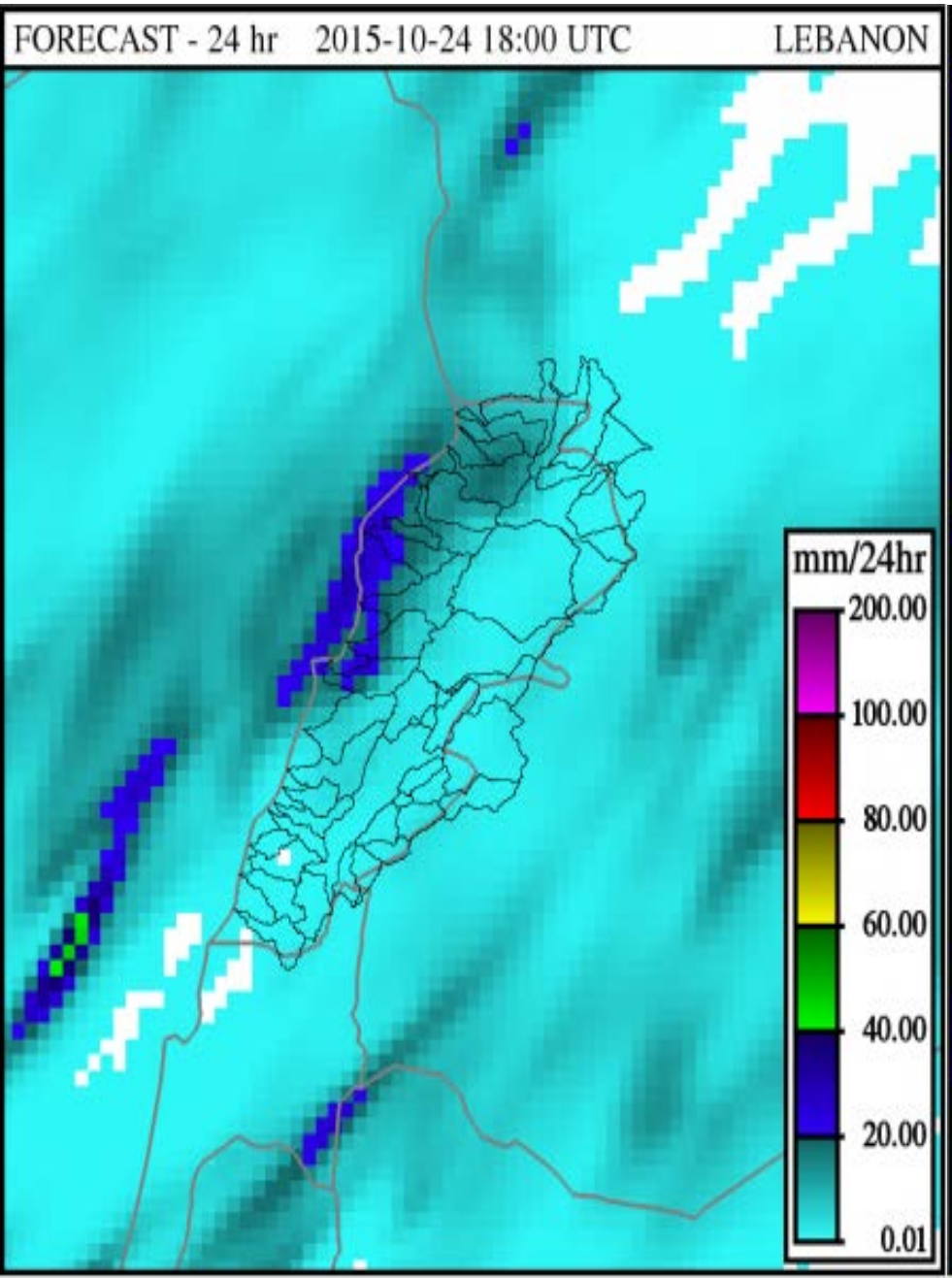

FORECAST - 06 hr 2015-10-25 18:00 UTC LEBANON
mm/06hr
200.00
100.00
60.00
40.00
25.00
15.00
0.10

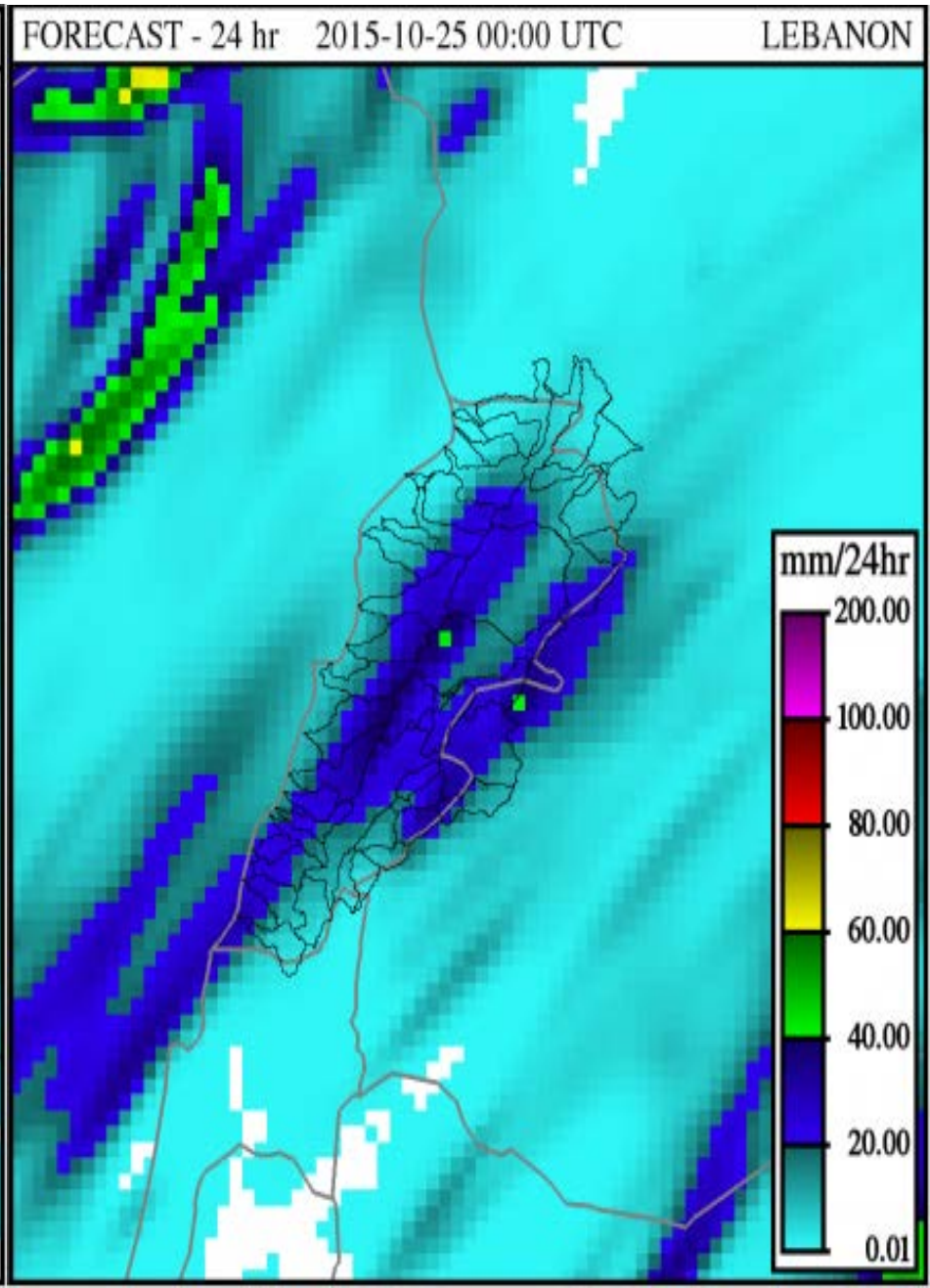
ALARO 6hrs

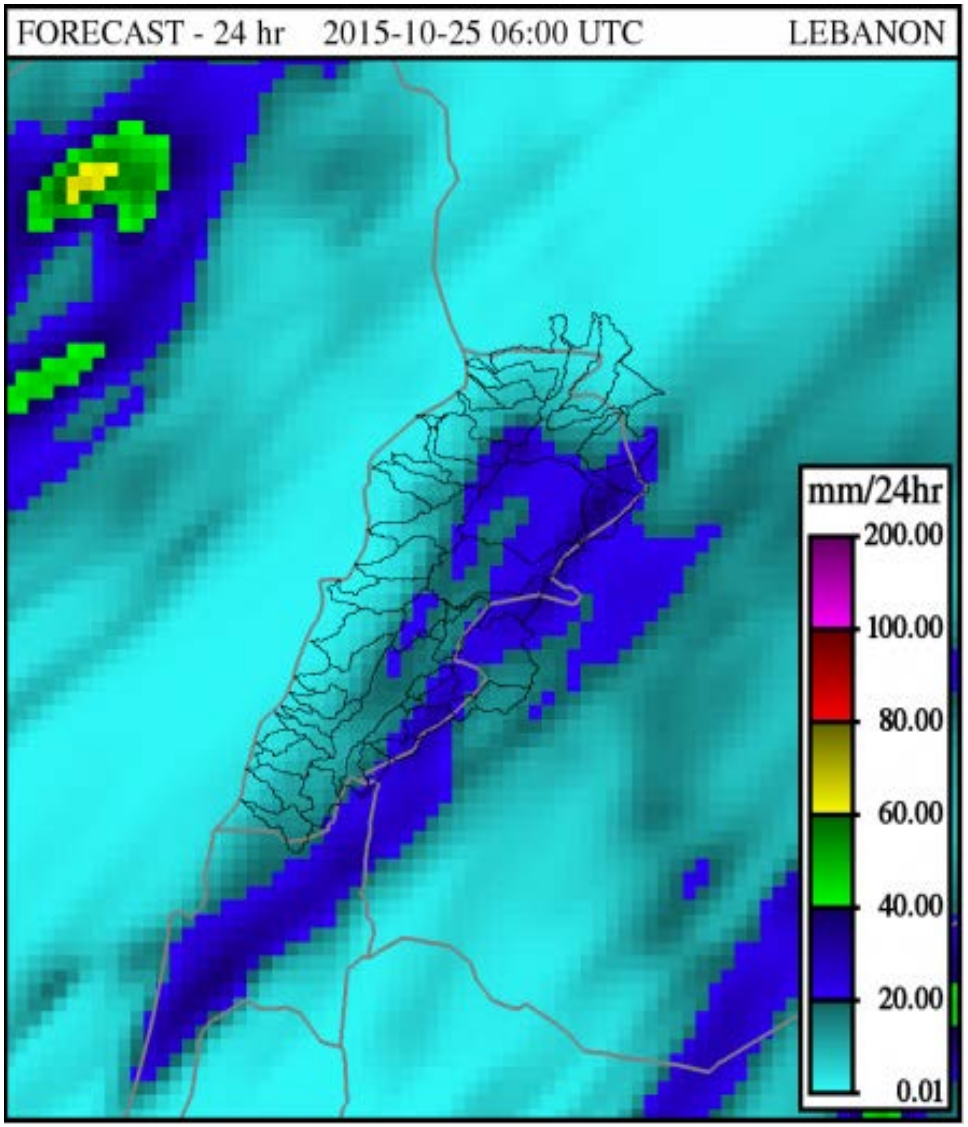

FORECAST - 06 hr 2015-10-26 00:00 UTC LEBANON
mm/06hr
200.00
100.00
60.00
40.00
25.00
15.00
0.10


FORECAST - 06 hr 2015-10-26 06:00 UTC LEBANON
mm/06hr
200.00
100.00
60.00
40.00
25.00
15.00
0.10

ALARO 6hrs


FORECAST - 24 hr 2015-10-24 18:00 UTC LEBANON
mm/24hr
200.00
100.00
80.00
60.00
40.00
20.00
0.01


FORECAST - 24 hr 2015-10-25 00:00 UTC LEBANON
mm/24hr
200.00
100.00
80.00
60.00
40.00
20.00
0.01

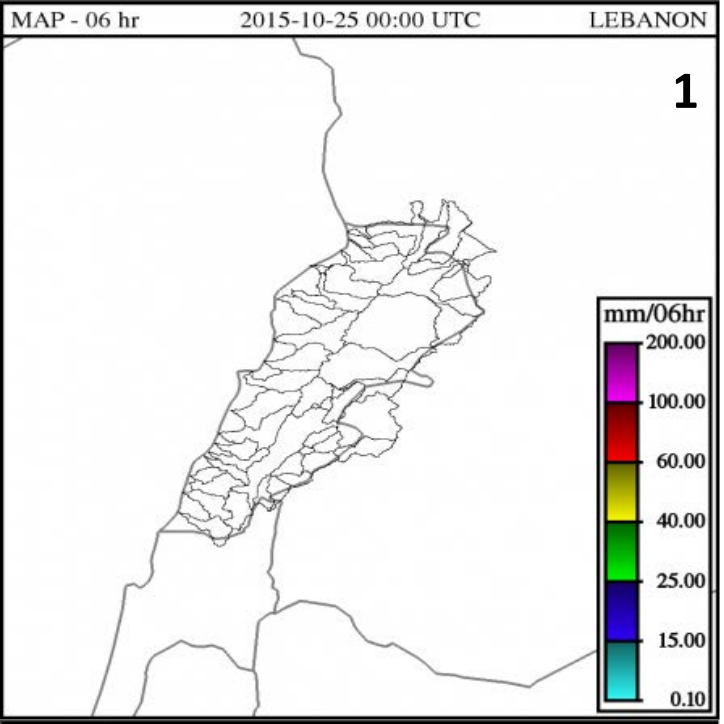

FORECAST - 24 hr 2015-10-25 06:00 UTC LEBANON
mm/24hr
200.00
100.00
80.00
60.00
40.00
20.00
0.01

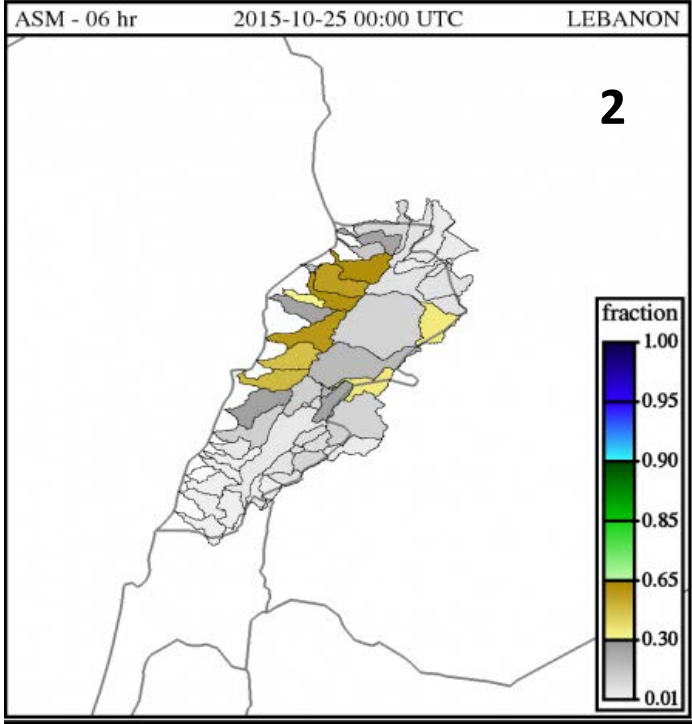
steps of FFGS

1. Has there been any rainfall?
2. What is the soil moisture saturation level?
3. Are the FFG values fairly low?
4. How much rain is needed to cause bankfull at the outlet of the draining stream?
5. Is there any rainfall expected?
6. Are there areas where you would be concerned for flash flooding?
7. Specific location of concern
8. Evaluation & forecast uncertainty

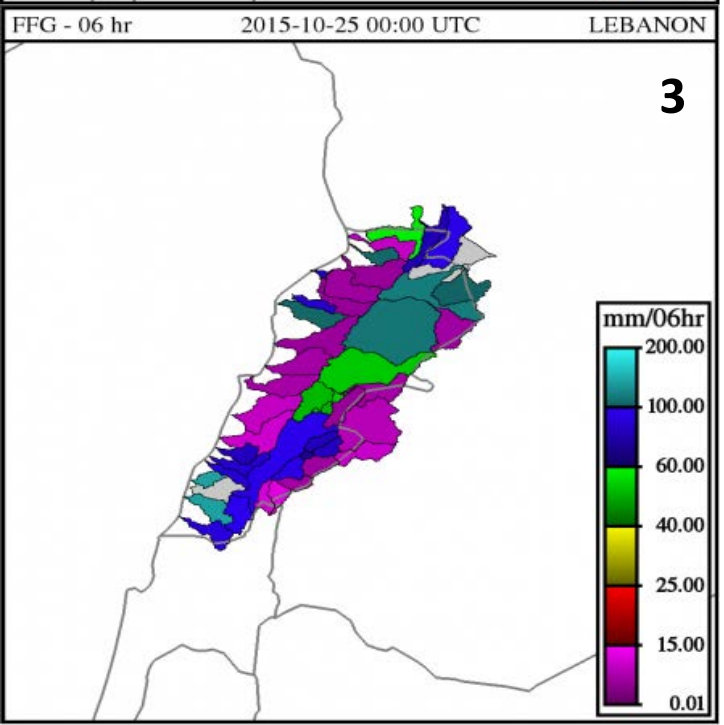
To forecast FF u have to ask ur self:

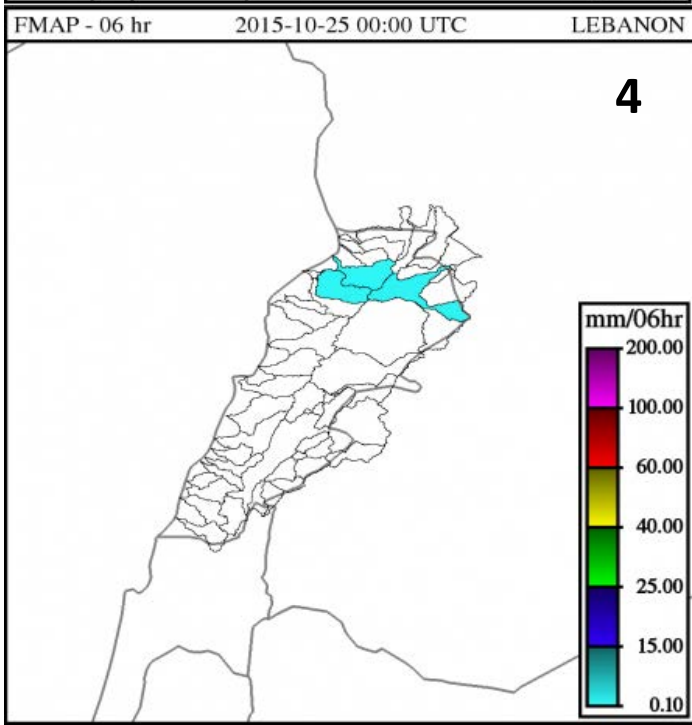
How much rain will cause FF in this area?
To answer this qwestion u have to know:
How much water will runoff?
What about the recent rain?
How the stream level is?
River basin response?
And how much precipitation u r expecting to generate FF?

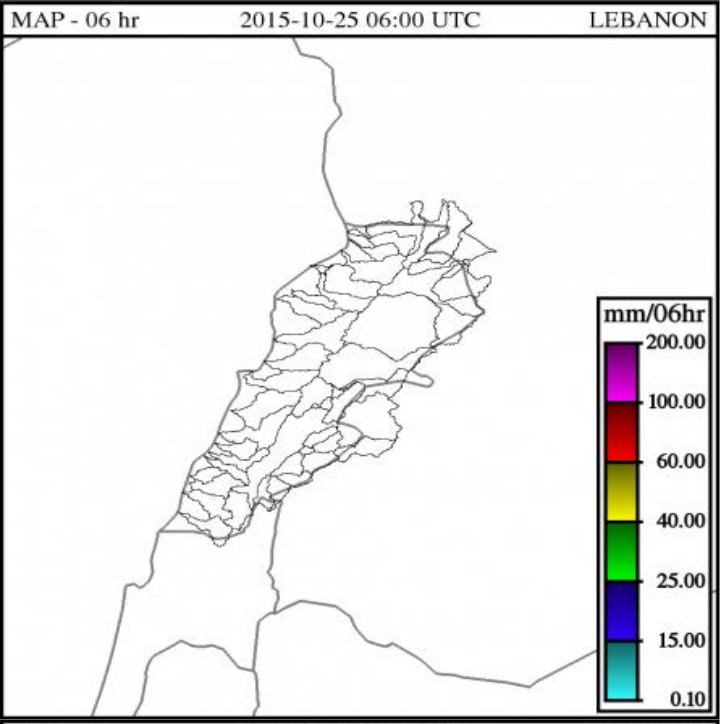




FFGS Products 25-10-15.00Z






MAP - 06 hr
2015-10-25 06:00 UTC
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mm/06hr
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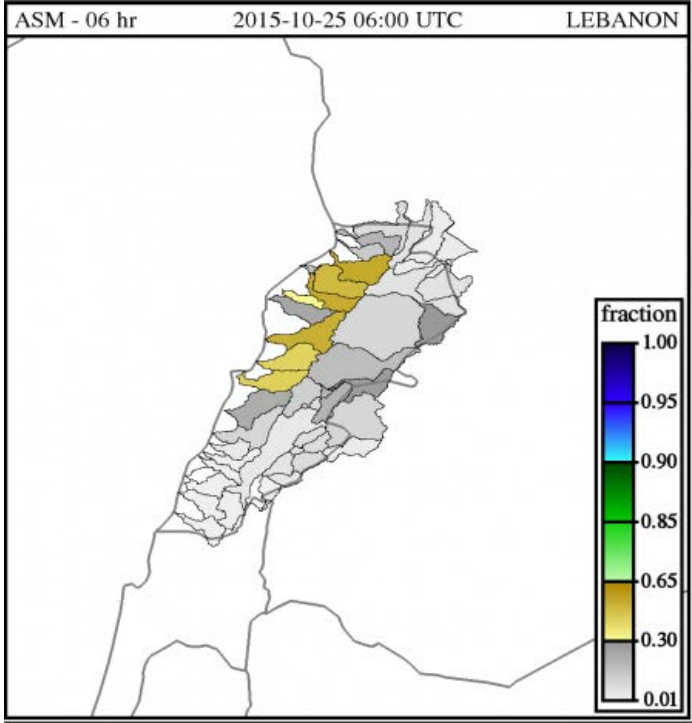
60.00
40.00
25.00
15.00
0.10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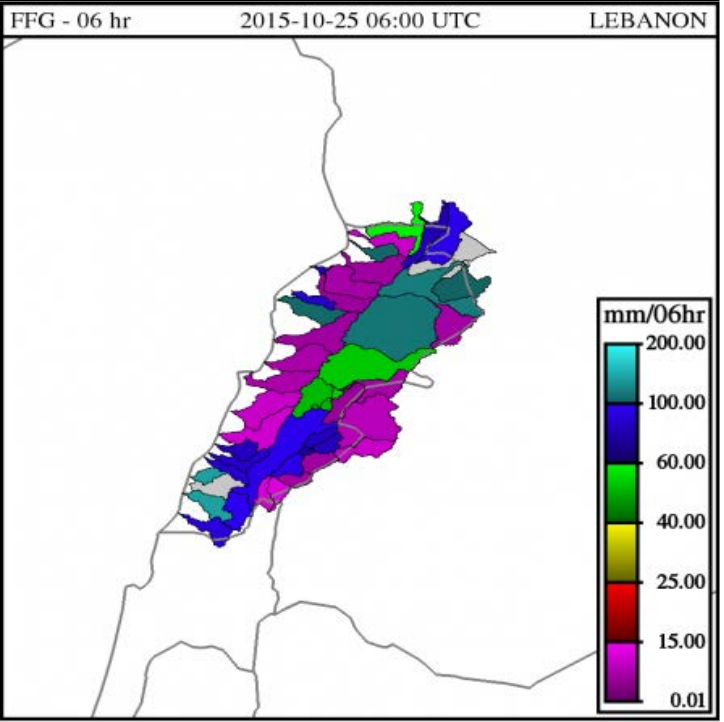
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mm/06hr
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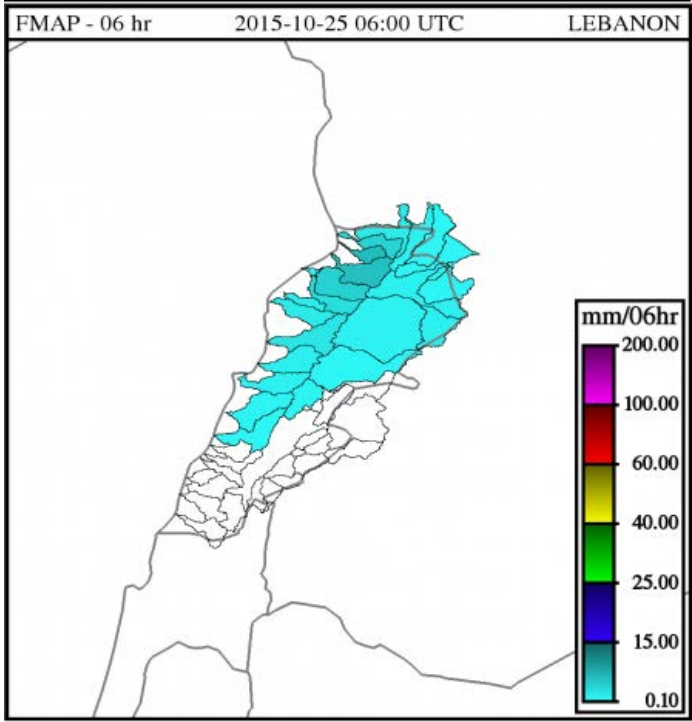
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mm/06hr
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100.00
60.00
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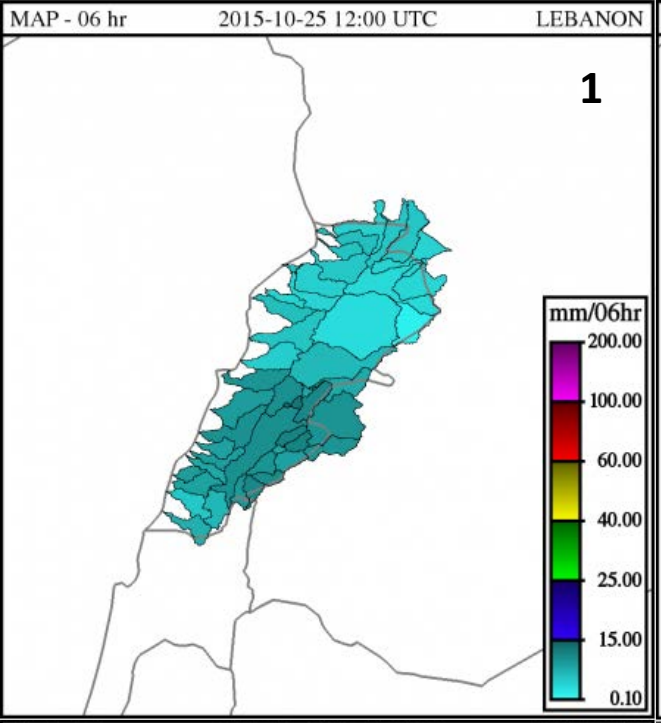
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2015-10-25 12:00 UTC
LEBANON
1
mm/06hr
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60.00
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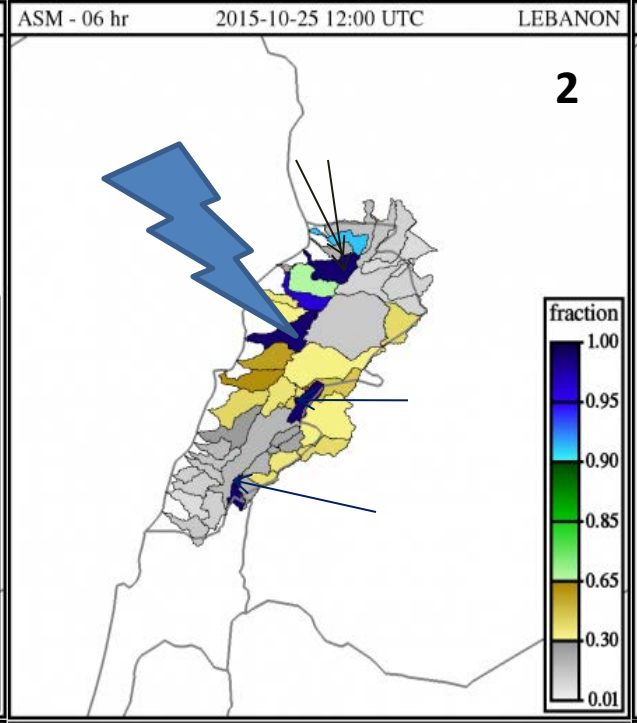
25.00
15.00
0.10


ASM - 06 hr
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fraction
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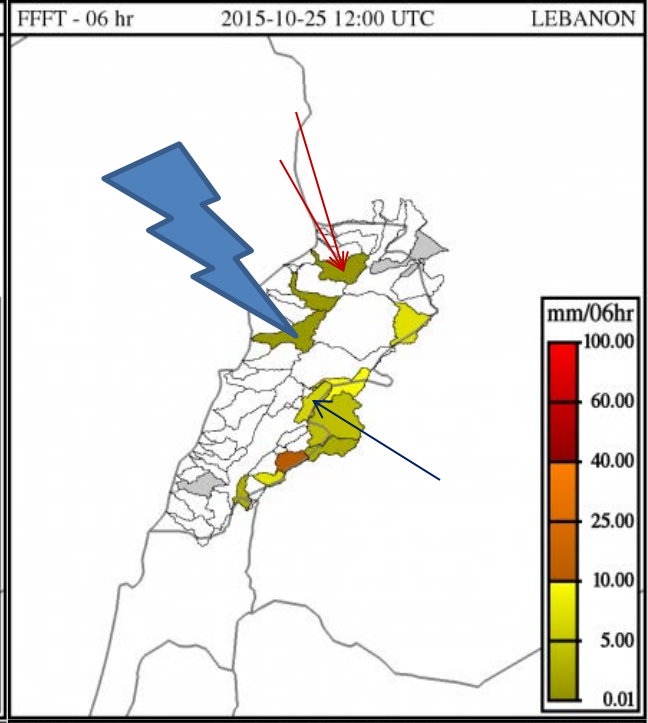
FFFT - 06 hr
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mm/06hr
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25.00
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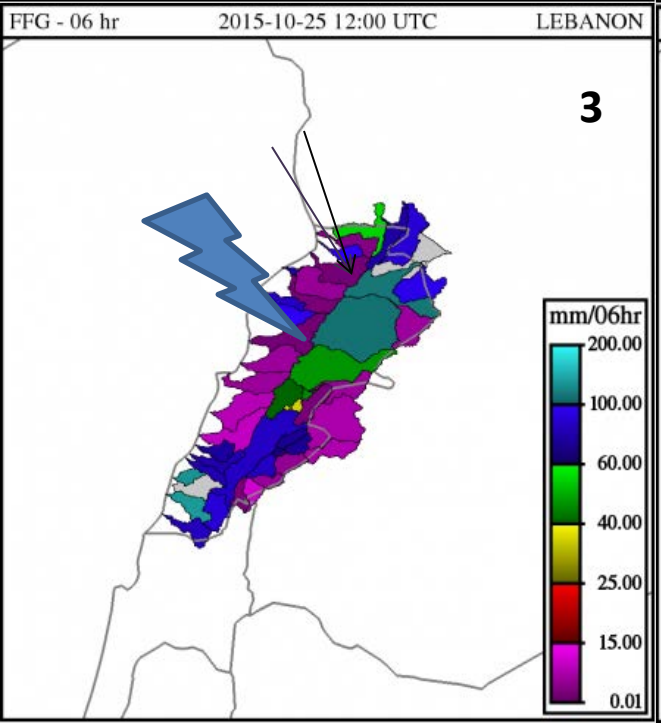
5.00
0.01


FFG - 06 hr
2015-10-25 12:00 UTC
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3
mm/06hr
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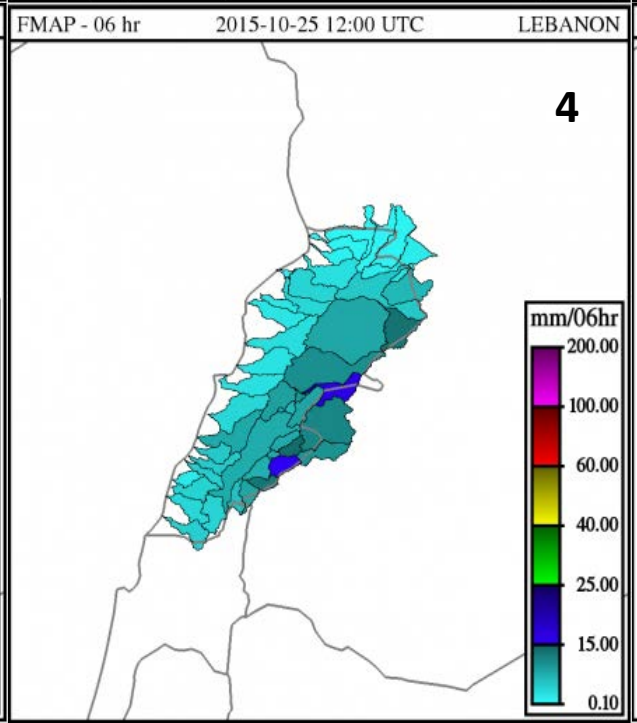
100.00
60.00
40.00
25.00
15.00
0.01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mm/06hr
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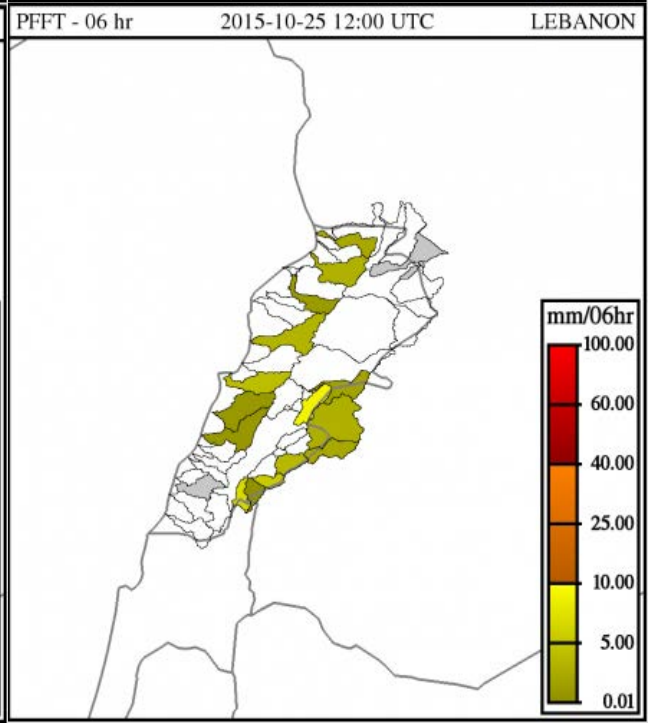
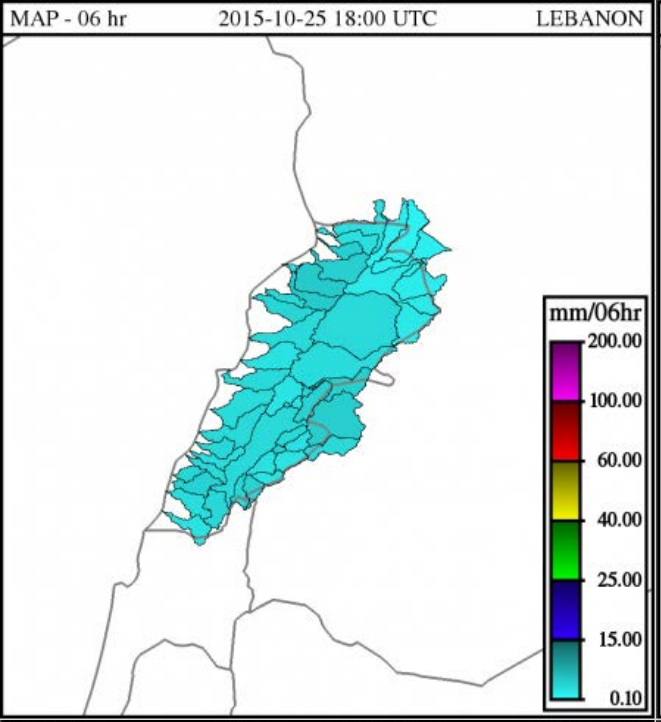

PFFT - 06 hr
2015-10-25 12:00 UTC
LEBANON
mm/06hr
100.00
60.00
40.00
25.00
10.00
5.00
0.01


MAP - 06 hr
2015-10-25 18:00 UTC
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mm/06hr
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100.00
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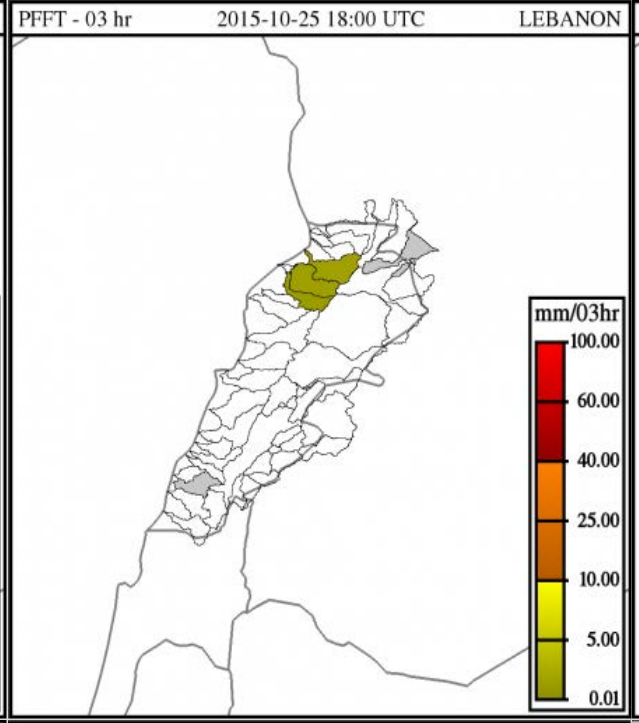
PFFT - 03 hr
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mm/03hr
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25.00
10.00
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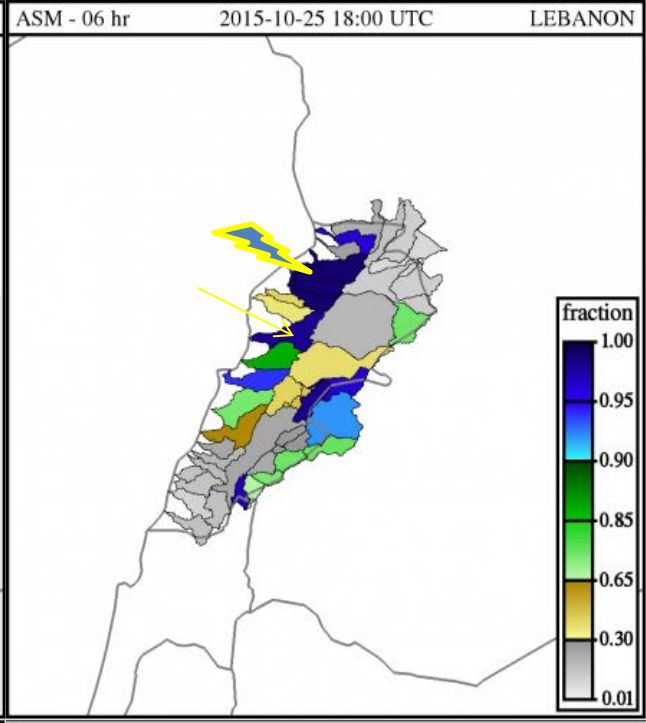
0.01


ASM - 06 hr
2015-10-25 18:00 UTC
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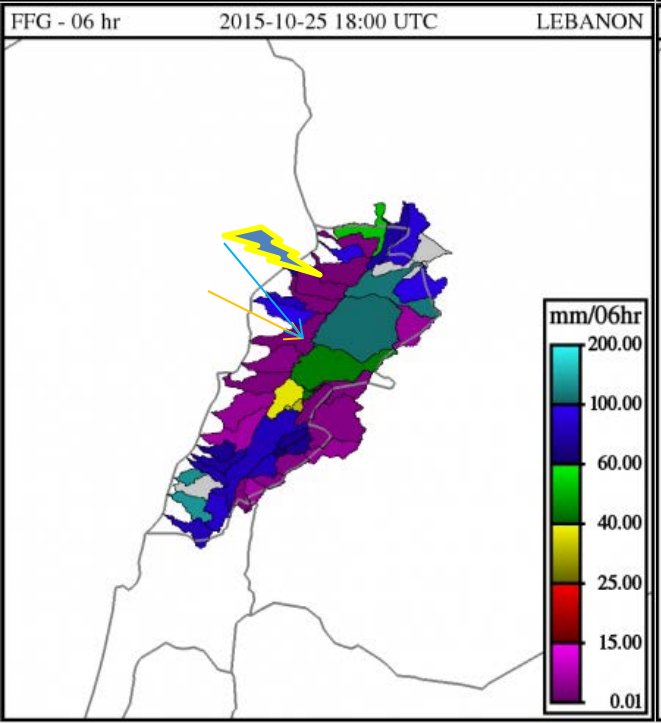
0.01


FFG - 06 hr
2015-10-25 18:00 UTC
LEBANON
mm/06hr
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100.00
60.00
40.00
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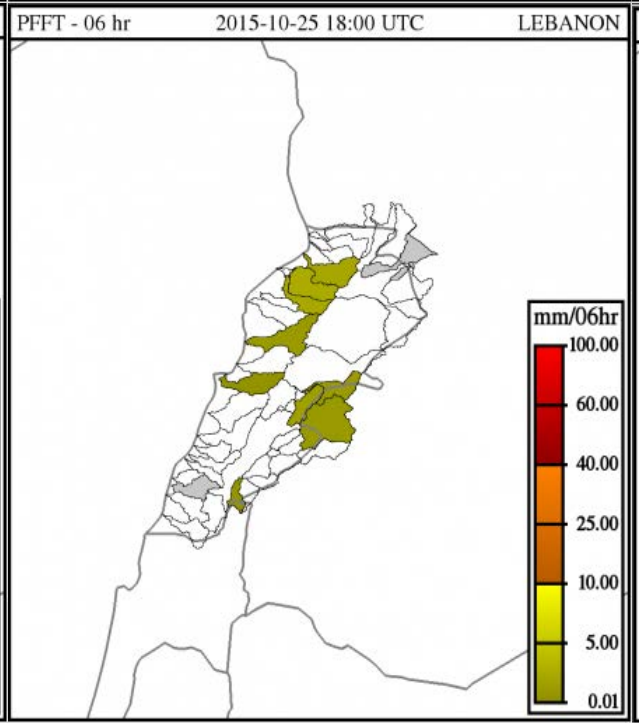
0.01


PFFT - 06 hr
2015-10-25 18:00 UTC
LEBANON
mm/06hr
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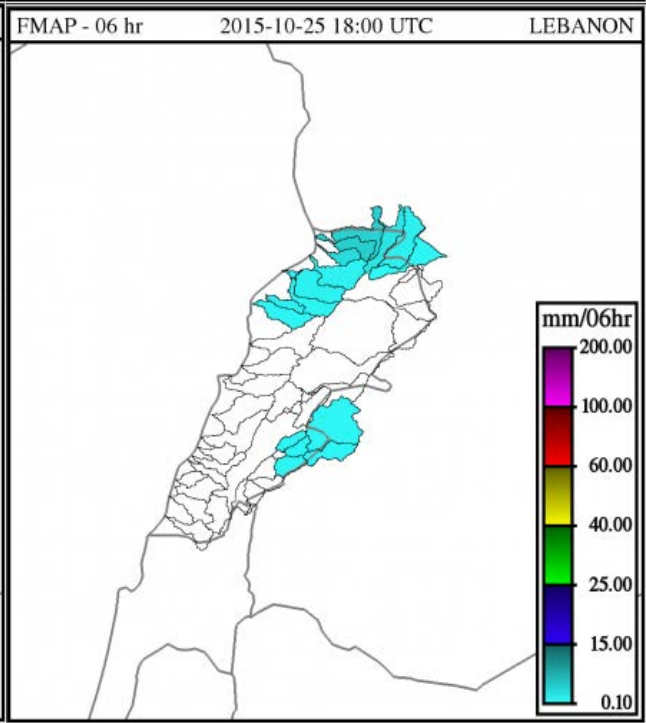
60.00
40.00
25.00
10.00
5.00
0.01


FMAP - 06 hr
2015-10-25 18:00 UTC
LEBANON
mm/06hr
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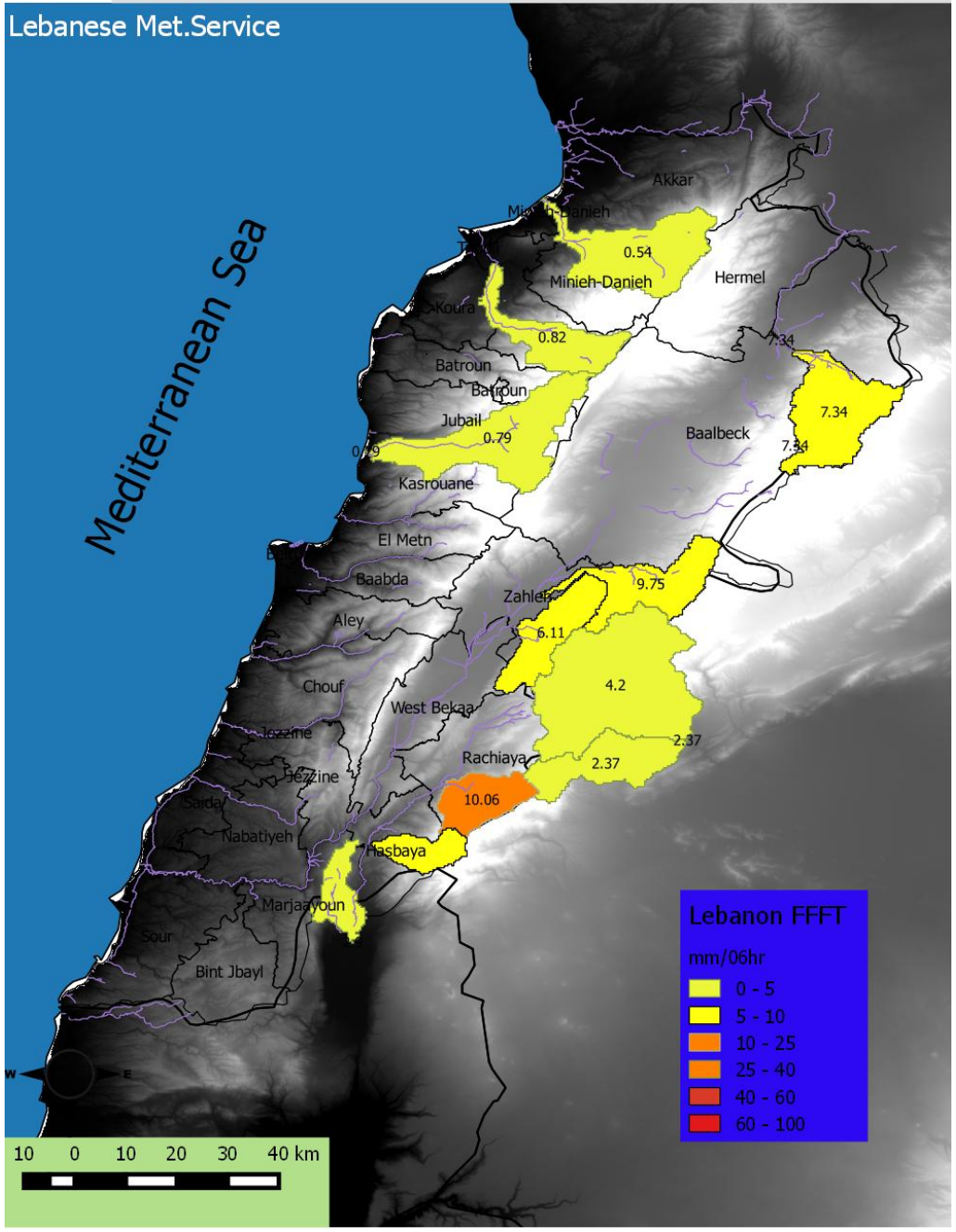
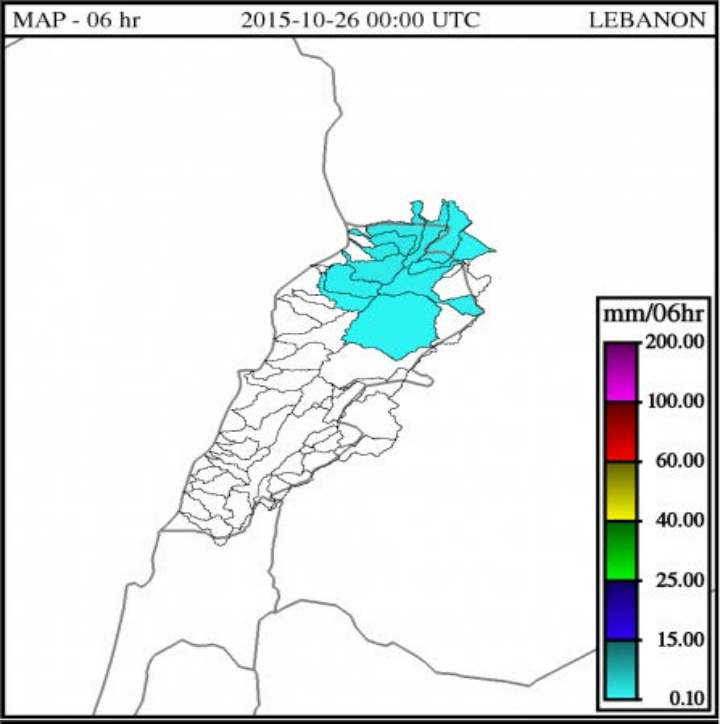
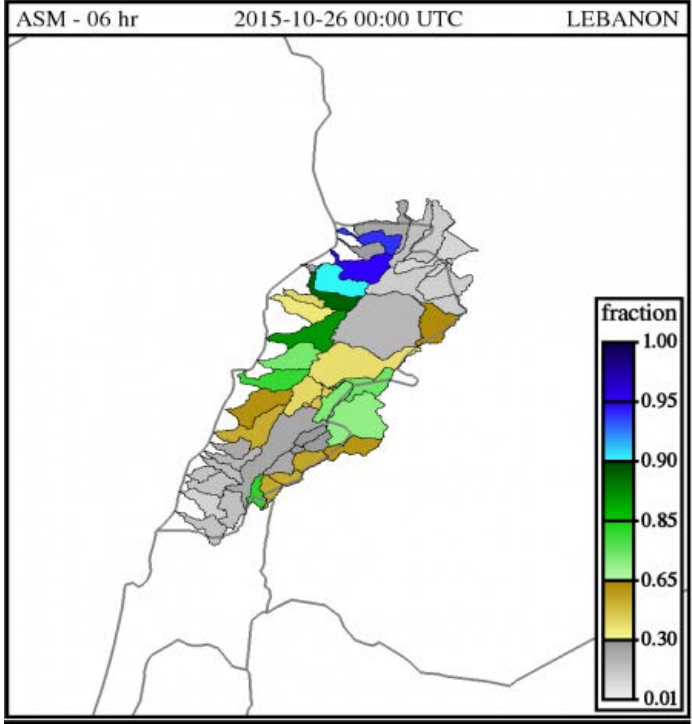
100.00
60.00
40.00
25.00
15.00
0.10

Forecast Flash Flood Threat
FFFT 25-10-16 12:00 UTC




MAP - 06 hr
2015-10-26 00:00 UTC
LEBANON
mm/06hr
200.00
100.00
60.00
40.00
25.00
15.00
0.10


ASM - 06 hr
2015-10-26 00:00 UTC
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fraction
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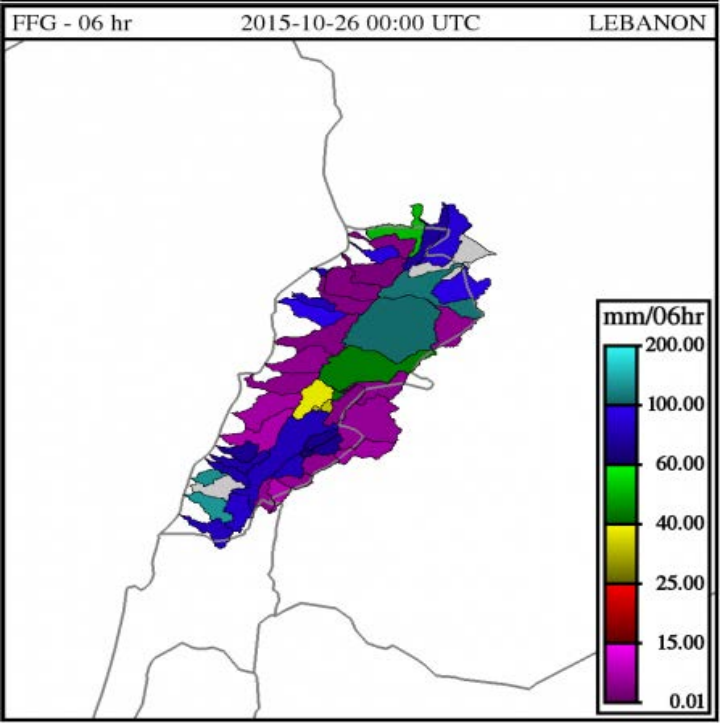
0.01


FFG - 06 hr
2015-10-26 00:00 UTC
LEBANON
mm/06hr
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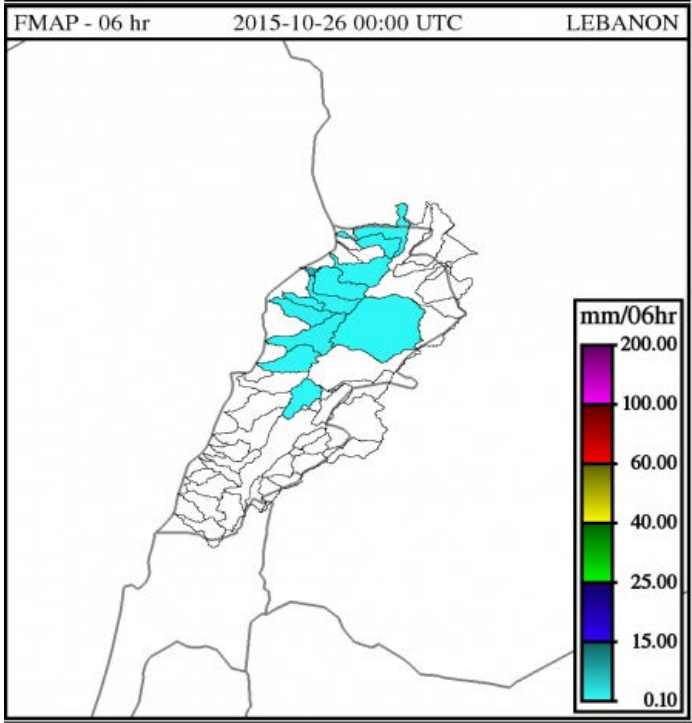
0.01


FMAP - 06 hr
2015-10-26 00:00 UTC
LEBANON
mm/06hr
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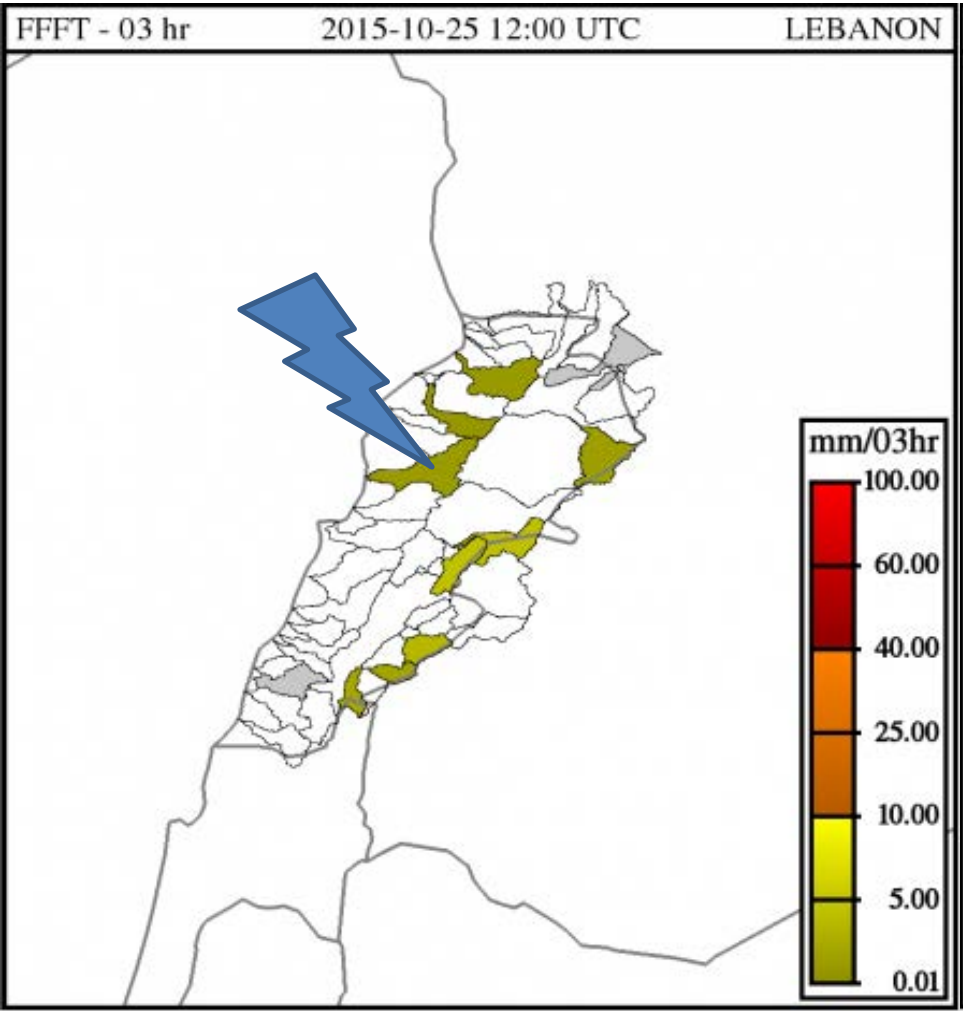
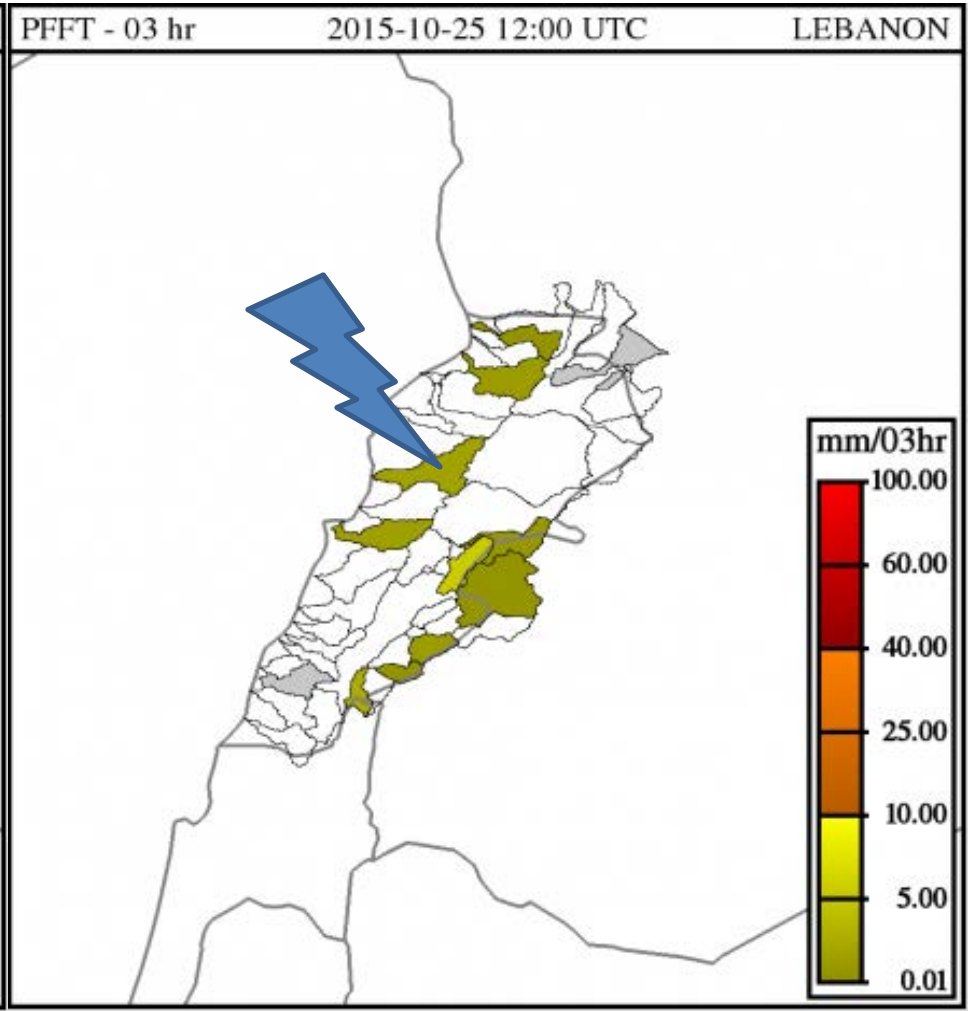
100.00
60.00
40.00
25.00
15.00
0.10

(FFFT & PFFT) 3hr . 25-10-15.12Z





Flash Flood Warning

Issued : 25-10-2015 at 12 UTC
Valid to : 25-10-2015 at 18 UTC

Wraning : Flash floods are expected with very high confidense in northern mountain areas (Qartaba,Qoubayat), and mid-area (Baysour) during the next 6 hours.

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Real Time

What happened in real-time that rainfall event had began 25-10-2015 at 06UTC,became intensive in less than half-hour and lasts few hours later.

Our best mission was issuing flash flood watch at 03UTC and warning at 06UTC on October 2015 for the FF prone areas.


QARTABA


QARTABA


QARTABA

BEIRUT 25-10-15

BAYSOUR


BAYSOUR


BAYSOUR

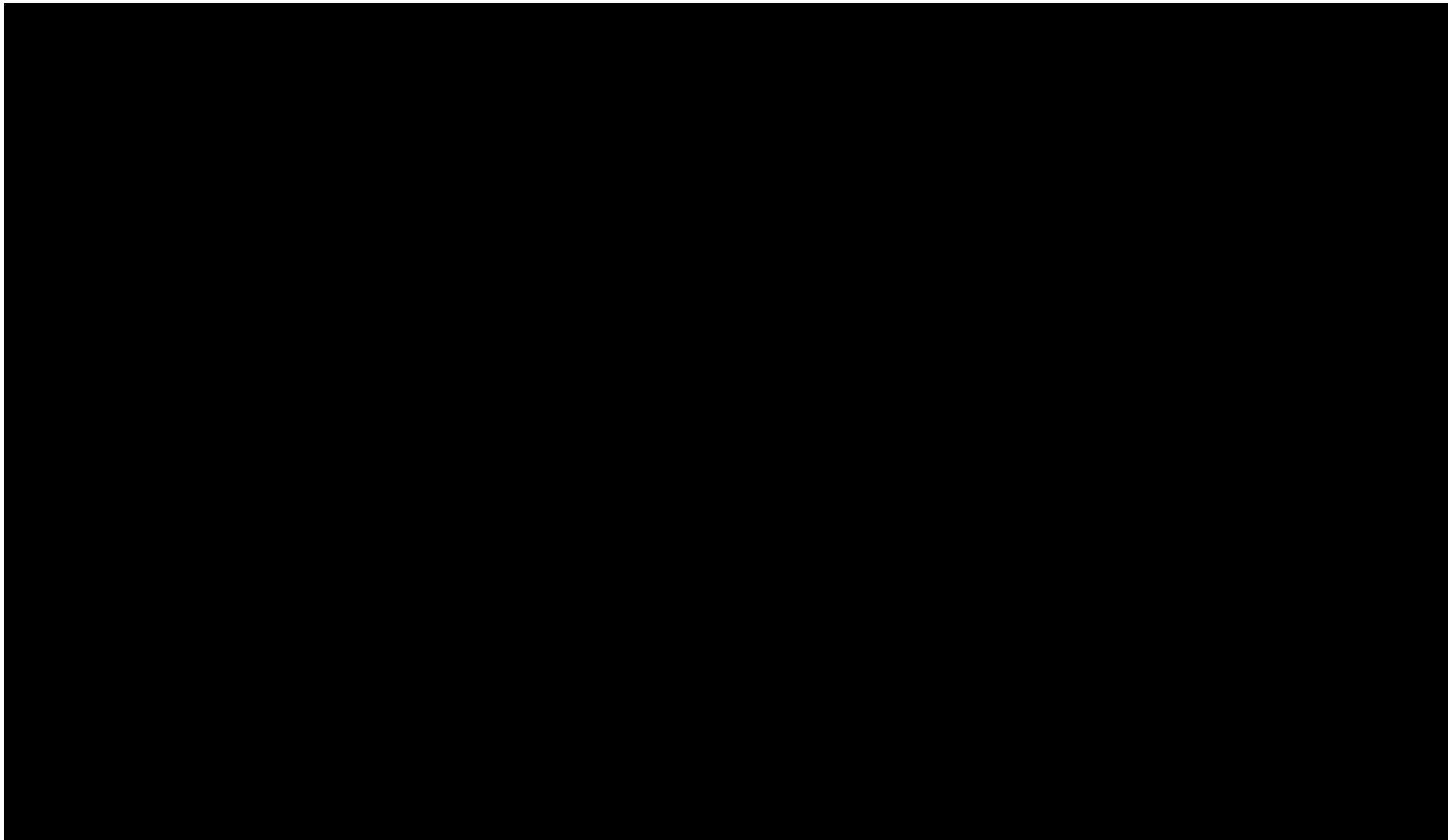

BAYSOUR

QOUBAYAT


QOUBAYAT


QOUBAYAT


QOUBAYAT



«تنين البحر» قبالة الرملة البيضاء

THANK

YOU