



METCAPPLUS

Meteorological Communication and Application Package

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2020



Outlines

- **What is MetcapPlus?**
- **Data types and source**
- **Archiving and Data Access**
- **Preparing Meteorological Maps**
- **Combination of Meteorological Maps**
- **Image Viewer**
- **Weather Monitoring**
- **SkewT diagram**
- **Station Database**
- **Aviation Products**
- **Warnings**
- **Documentation**
- **Misc. Applications**
- **Survey on MetcapPlus**
- **What can the managers see if the use MetcapPlus?**



METCAPPLUS



METeorological Communication & Application Package

- ✓ Development started in 1992.
- ✓ Purpose of the the project was replacing telex with Telephone
- ✓ Map plotting module was added later.
- ✓ Second and third versions developed 1996 and 2005 respectively
- ✓ MetcapPlus Beta version completed 2010
- ✓ Completely developed by TSMS Staffs.
- ✓ It has been donated to : Azerbaijan, Turkish Republic of Northern Cyprus, Bosnia and Hercegovina, Montenegro, Kazakhstan, Georgia, Belarus, Yemen, India, Afghanistan, **Ukrain (Odessa University)**, Togo, Turkmenistan, **Qatar**
- ✓ The package is in Turkish, English and Russian.



METCAPPLUS Data Sources

The package digest different types of data from different sources.

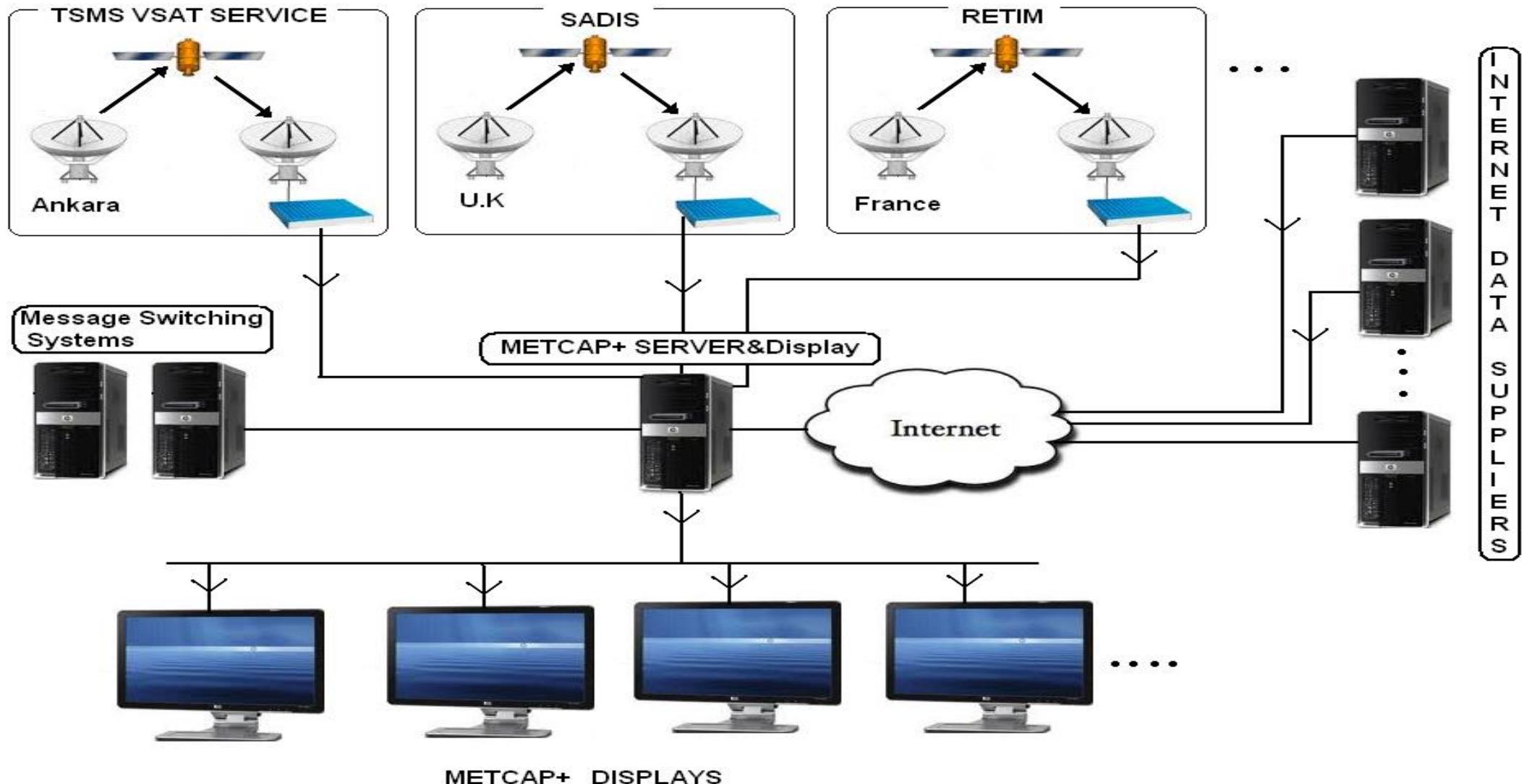
Data Sources

1. Message Switching Systems (MSS)
2. SADIS (Satellite Distribution System – both ftp and satellite)
3. RETIM (Meteo France)
4. NOAA (Public ftp site)
5. Different internet sites

Data Types

1. Traditional Alpha Numerical Codes (TAC)
2. GRIB1 and GRIB2
3. BUFR
4. HDF5 etc

MetcapPlus Data Sources





Archieving and Data Access



- All received data are stored on the disk or external media
- Saving Period is set by the users.
- The package can access old data from external media, TSMS database system and some internet sites.
- It is possible to access actual data
 - By using bulletin headers
 - By using station lists
 - By defining flight folders for the flights



Archieving and Data Access



Bülten Arama

Program Bülten İşlemleri Ayarlar Temizle

Ara Liste Gruplar Temizle Kapat

TTAAii SATU Yıl 2012
CCCC LTAA Ay 11
Tarih Saat

[1 / 12]

SATU20 LTAA 191150

İstasyon Bilgileri ve Rasat Cozumu

İstasyon Adı: Konya M.	Yükseklik: 1031 m.
Ulke: TÜRKİYE	Enlem: 32.57
Sinoptik Kod: 17244	Boylam: 37.98
ICAO Kodu: LTAN	Uclu Kod

LTAN 191150Z 12004KT 070V210 8000 FEW019 012004KT 360V100 9999 OVC015 08/06 Q1020 NOSIG RMK RWY19 010005KT 050V130 3000 BR OVC005

Rasat Cozumu

Saat: 191150Z	1. Hadise: RVR1
Rüzgar Yonu: 120	2. Hadise: RVR2
Hiz/Hamle: 004	3. Hadise: RVR3
Rüzgar Degisimi: 070V210	1. Bulut: RVR4
Rüyel: 8000	2. Bulut: Sicaklik 9
Azami Rüyel: 8000	3. Bulut: Isba 4
	4. Bulut: QNH 1021

Rüzgar Sheeri: ...

2 Saat içerisinde Beklenen Degisiklik

Parcali Az Bulutlu

İstasyon Arama

Program Ayarlar Havacılık Bültenleri Sinoptik Bültenler

Ara Temizle Yazdır Sakla En Son 19.11.2012 02 19.11.2012 14 Ayarlar Kapat

İstasyonlar LTBA LTAC LBSF LROP LOWW LBHP LKPR EDDF

METAR SPECI KISA TAF UZUN TAF SIGMET GAMET AIRMET TÜRKİYE
 AERO TTAA TTBB TTCC TTDD ANA SINOP ARA SINOP

Kayıtlı Başlıklar Listeye Ekle Listededen Sil

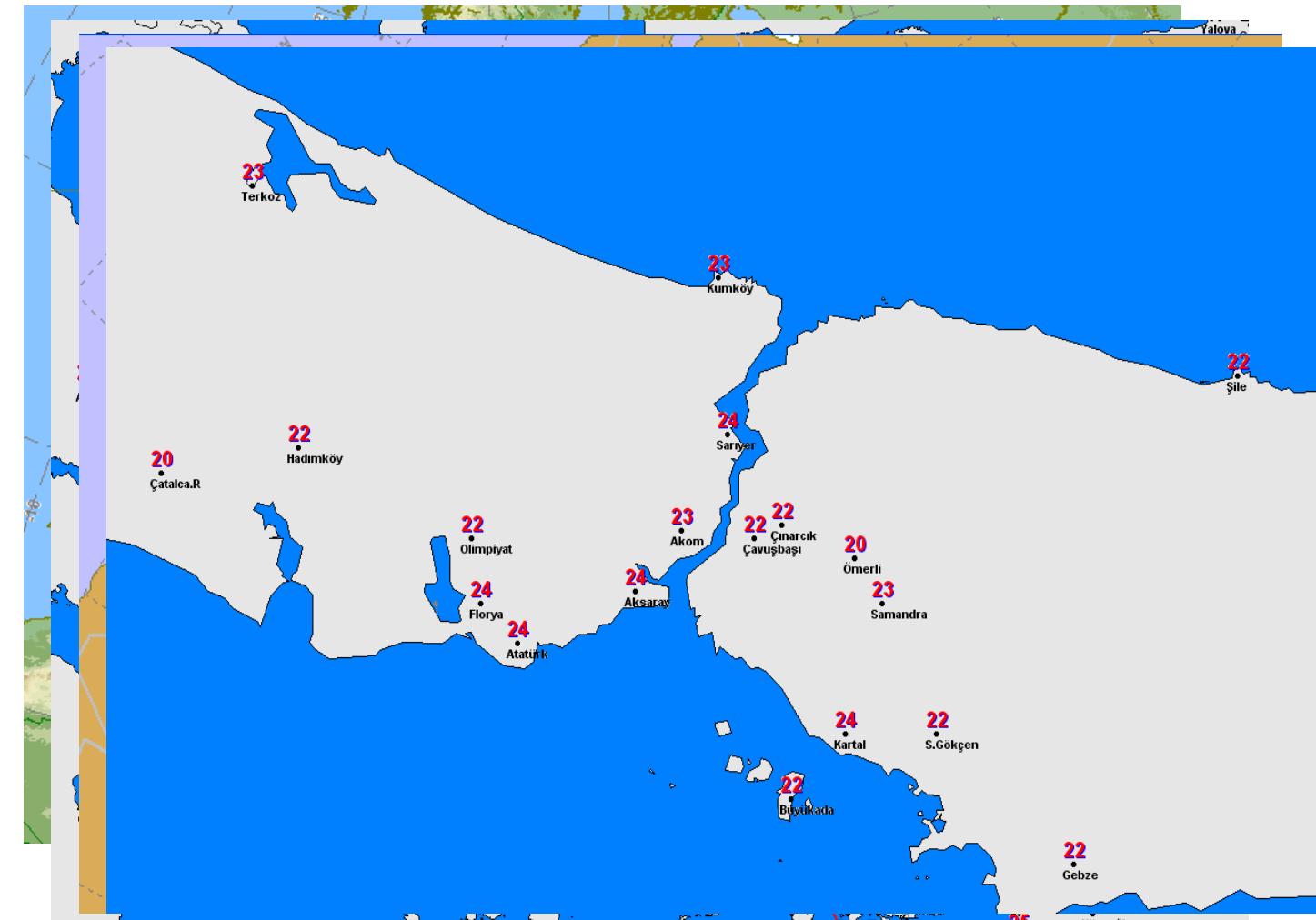
METAR
Atatürk M. - TÜRKİYE - LTBA 191150Z 16006KT 120V190 9999 SCT035 SCT100 17/10 Q1019 NOSIG=(191150)
Esenboğa M. - TÜRKİYE - LTAC 191150Z 02003KT 330V100 6000 OVC011 06/05 Q1022 NOSIG=(191150)
Sofya - BULGARIstan - SOF - LBSF 191200Z VRB02MPS 8000 OVC015 08/06 Q1020 NOSIG=(191200)
BÜKREŞ - ROMANYA - BUH - LROP 191200Z 03004KT 360V100 9999 OVC021 10/06 Q1021 8809/95 NOSIG=(191200)
VİYANA - AVUSTURYA - LOWW 191150Z 05002KT 0600 R16/0800N R29/0800N FG -DZ BKN001 BKN002 06/06 Q1020 TEMPO 0400=(191150)
BUDAPEŞTE - MACARİSTAN - BUD - LBHP 191200Z VRB02KT CAVOK 10/05 Q1020 NOSIG=(191200)
PRAG - ÇEK CUMHURİYETİ - PRG - LKPR 191200Z 01005KT 5000 BR NSC 07/04 Q1019 NOSIG=(191200)
Frankfurt / M-Flugh - ALMANYA - FRA - EDDF 191150Z 07007KT 9999 SCT013 09/06 Q1018 NOSIG=(191150)

UZUN TAF
Atatürk M. - TÜRKİYE - LTBA 191040Z 1912/2018 04009KT 9999 SCT035 BECMG 1913/1916 CAVOK BECMG 2002/2005 SCT035 BKN100=(191100)
Esenboğa M. - TÜRKİYE - LTAC 191040Z 1912/2012 VRB02KT 8000 OVC012 BECMG 1918/1921 4000 BR OVC007 BECMG 2000/2002 2500 OVC003 BECMG 2009/2011 8000 OVC007=(191100)
Sofya - BULGARIstan - SOF - LBSF 191041Z 1912/2012 08005MPS 9999 OVC010 BECMG 1913/1914 BKN015 BKN050 BECMG 1922/1924 VRB02MPS SCT018 OVC030 TEMPO 2003/2009 5000 RA BKN015=(191100)
BÜKREŞ - ROMANYA - BUH - LROP 1911007 1912/012 VRB04KT 9999 BKN007 BECMG 1921/1923 06010KT 3000 RR BKN010 TEMPO

Preparing Meteorological Maps

Map Background Definition

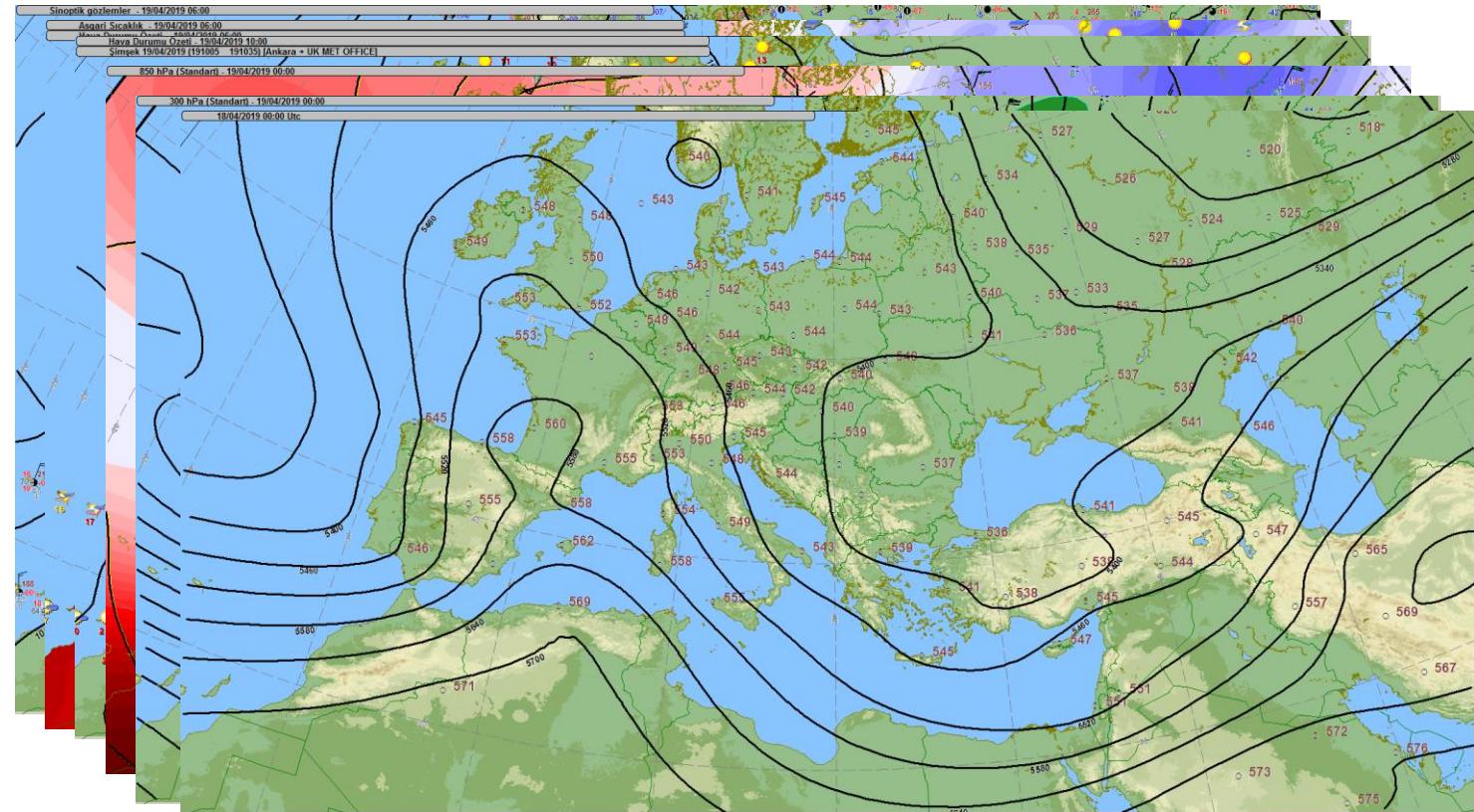
- Different Projections (Mercator, Polar Stereographics etc)
- User defined areas
- User defined map display
- Topography in colors
- Zoom in/out
- Country , province borders



Preparing Meteorological Maps

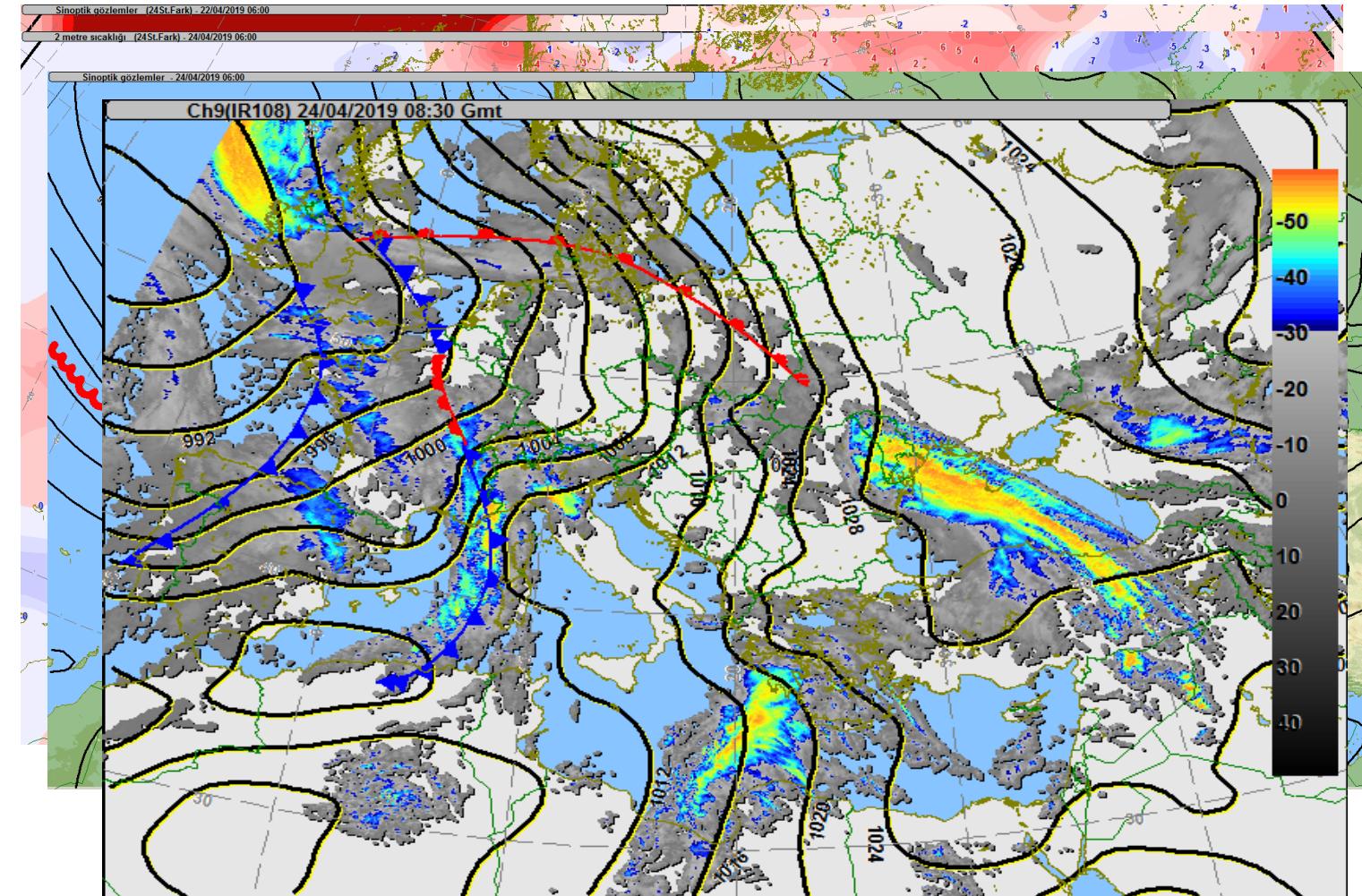
Actual Maps

- Synoptic Charts
- METAR Charts
- Lightning observation
- All Upper Level Charts
- Instability Indices
- Thickness Charts
- Etc



Actual Maps

- Change in any parameter 12/24 hr period for any parameter
- Adding symbols and messages on the map manually
- Created maps may be sent to MSS with an appropriate GTS Header automatically or manually



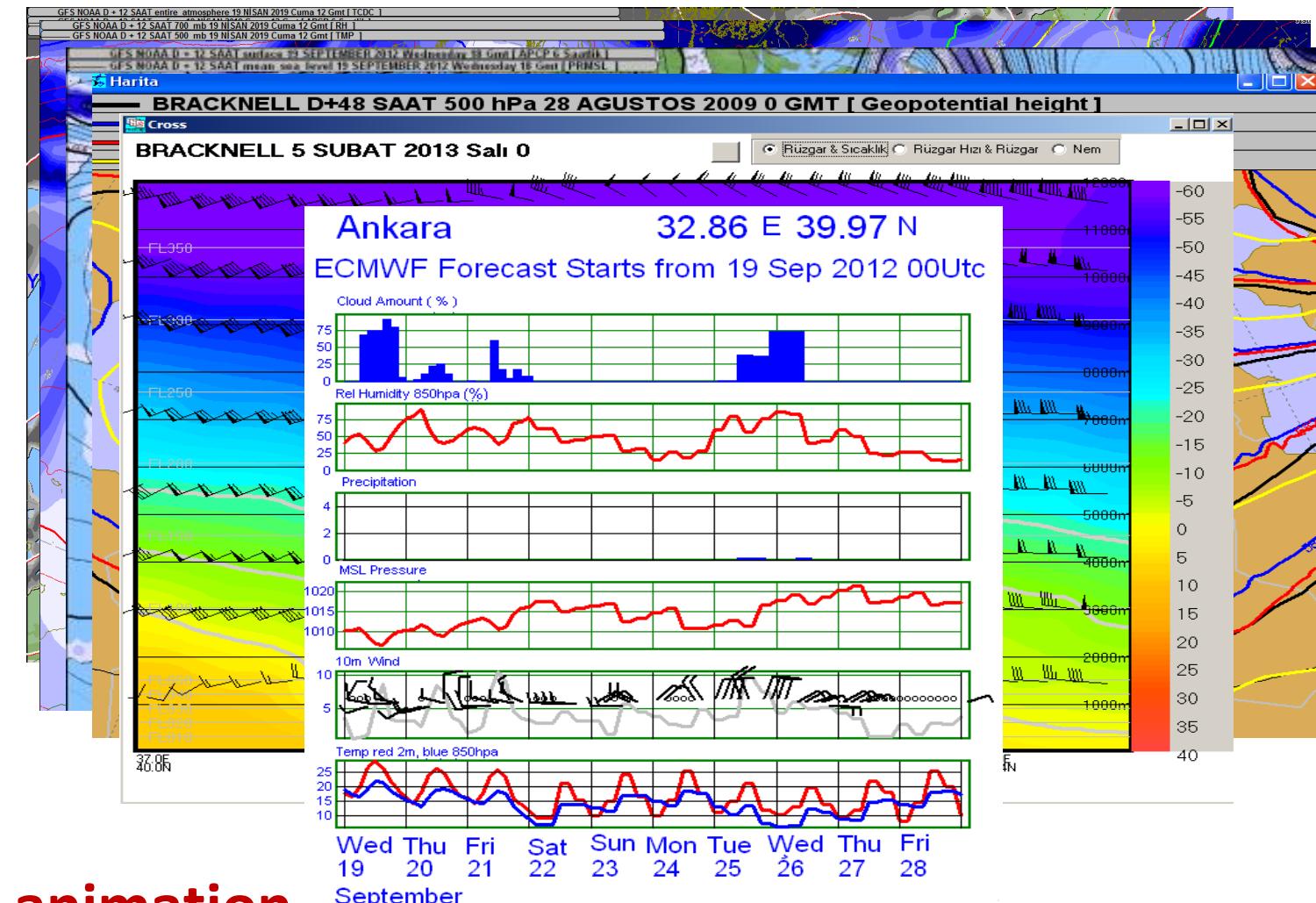
Uses data from Different Centers

- ECMWF
- NOAA + Exeter UK
- NATO Offenbach vs

Various Product Generation

- Contouring
- Meteograms
- Change in Parametres
- Worldwide area selection

Auto product generation and animation



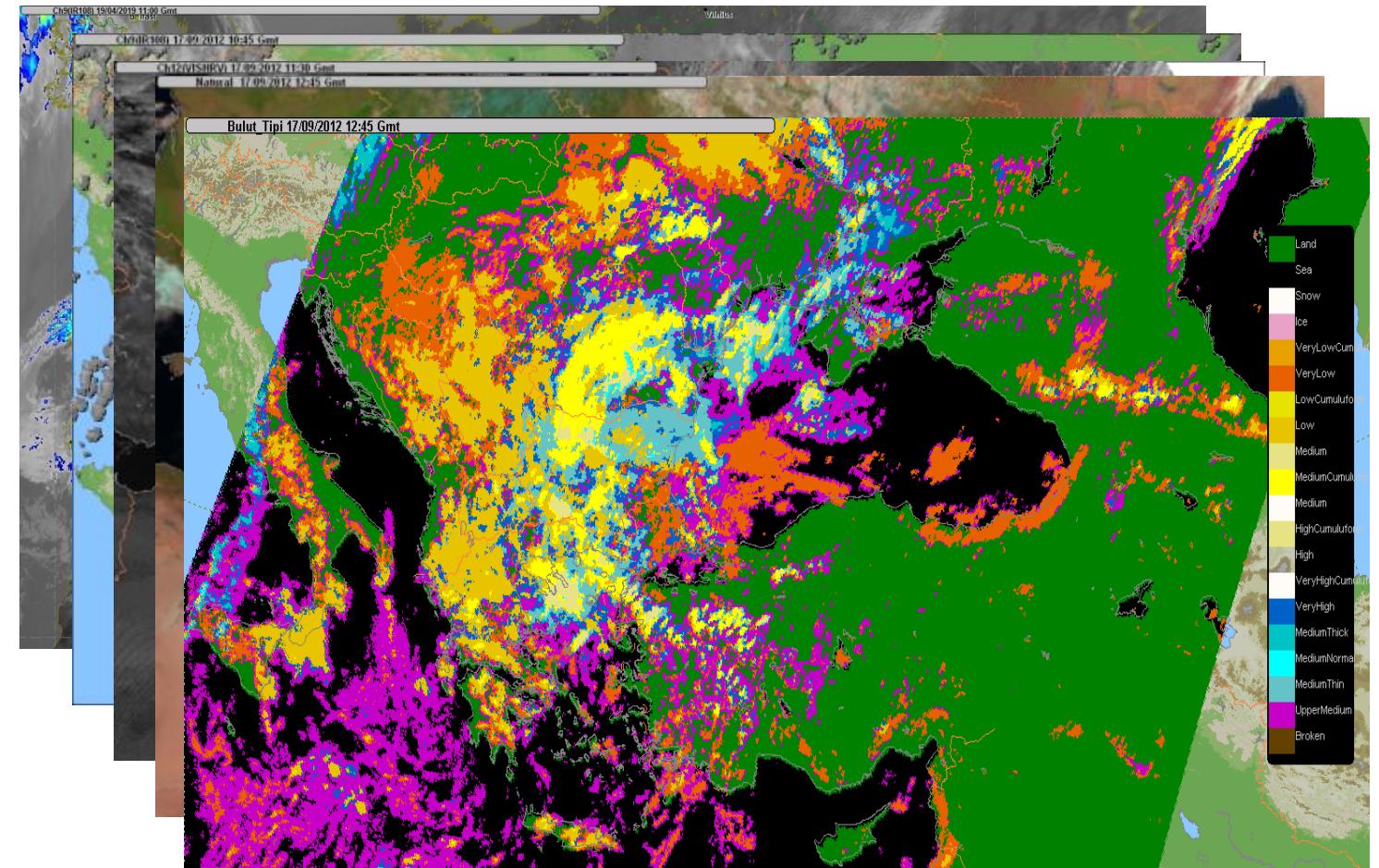
Channel Values

- All IR, Visible and WV Channels
- Different SAF products
- RGB Products

Product Combinations & Overlaying

- Radar
- NWP
- Actual Observations

Auto product generation and animation

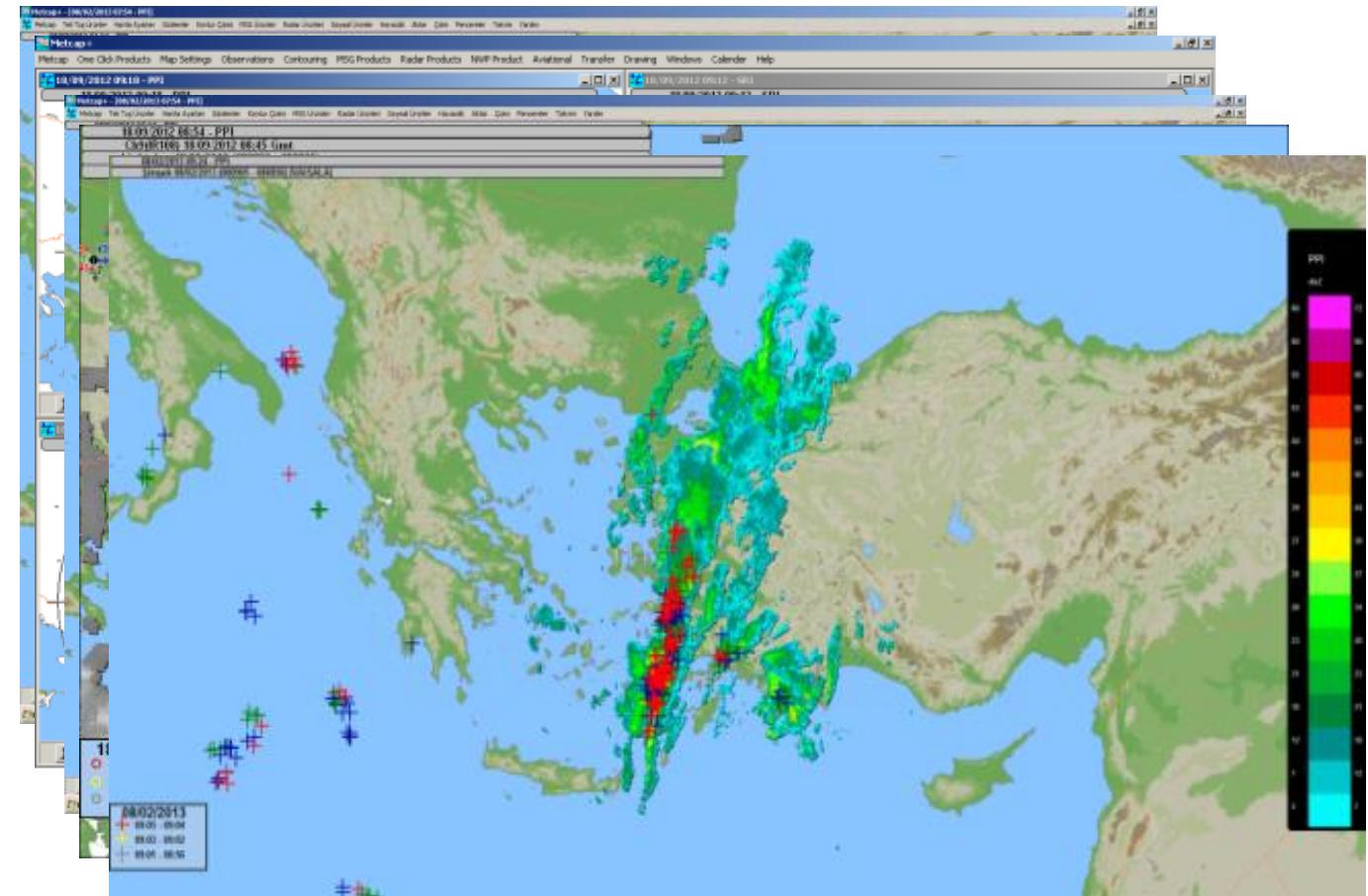


Preparing Meteorological (Radar)

- PPI
- MAX
- SRI CAP etc

Product Combinations & Overlaying

- satellite
- NWP
- Actual Observations



Combination of Meteorological Products

- All actual, Satellite, Radar, NWP, Lightning and Aviational products may be displayed on the same map for the selected regions.

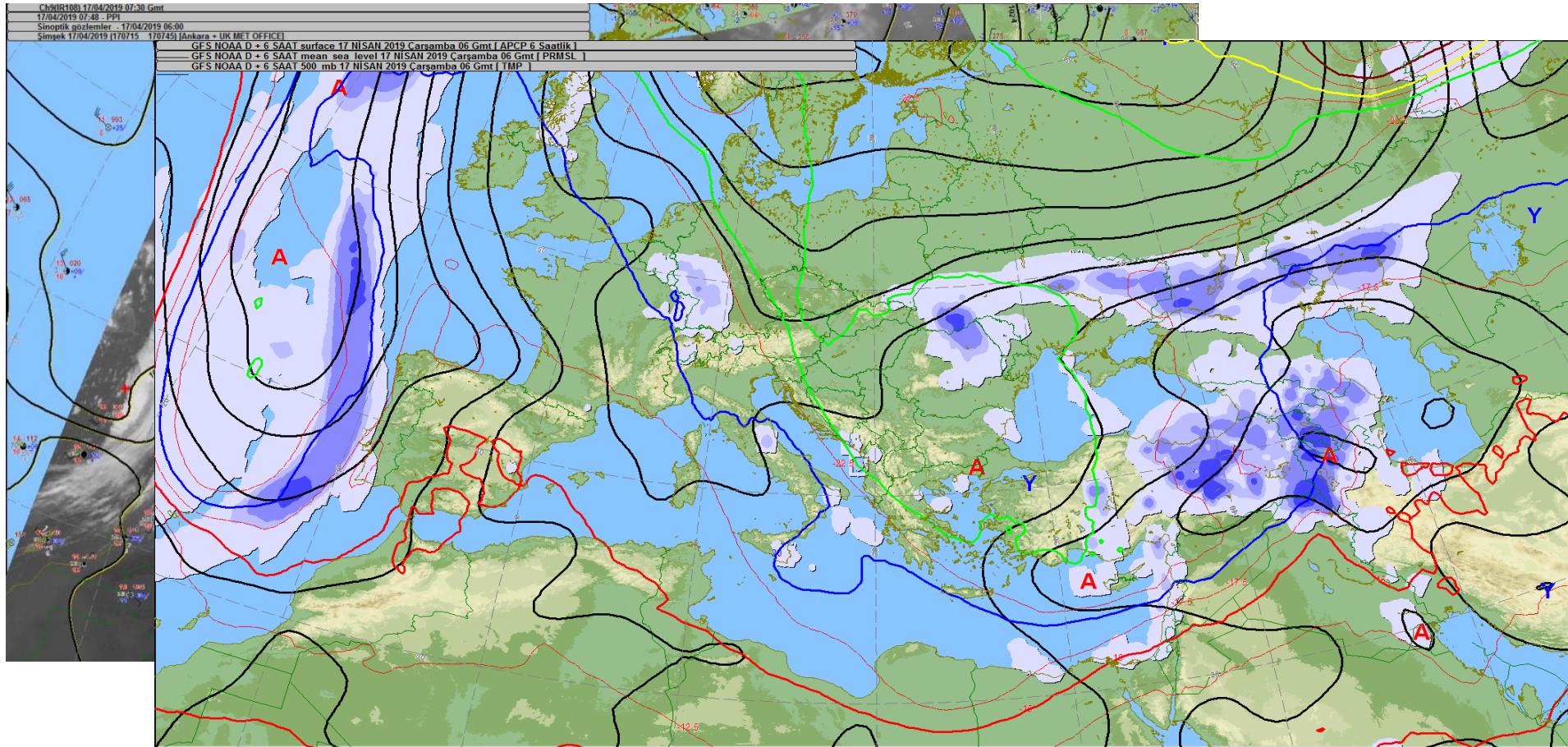
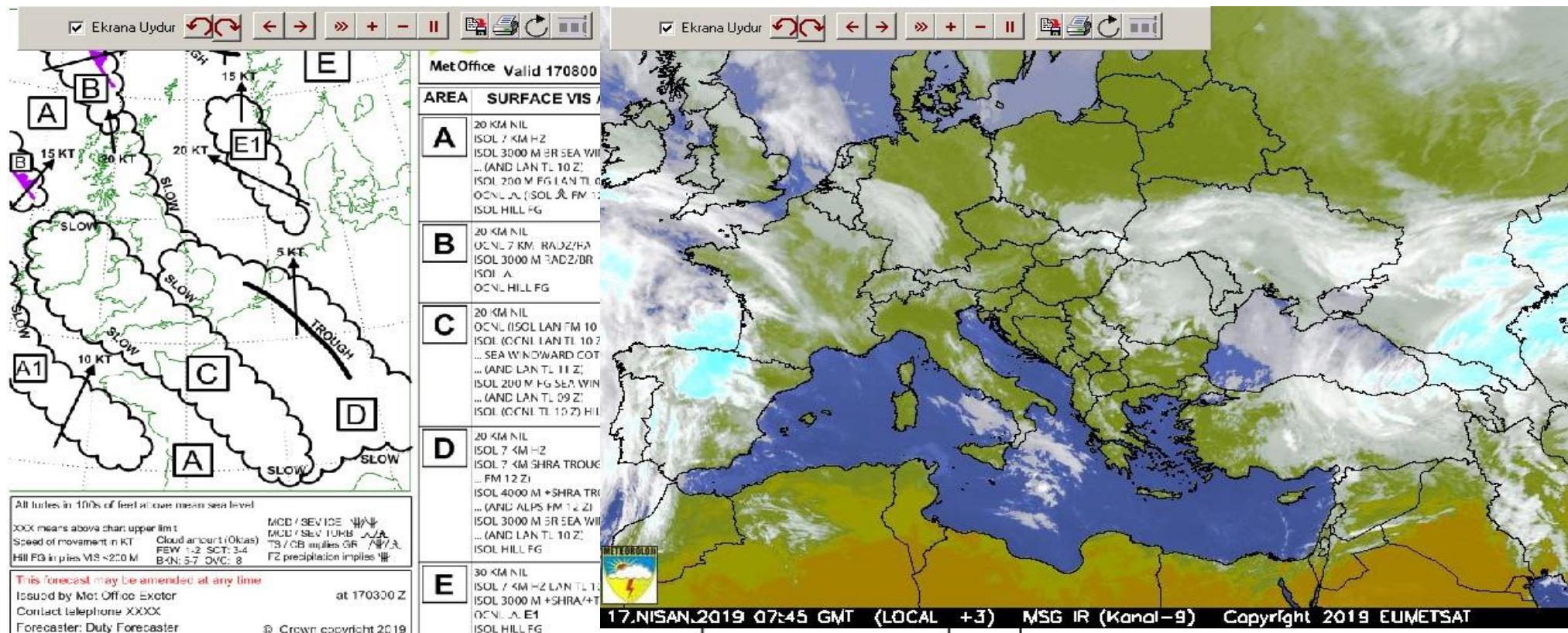


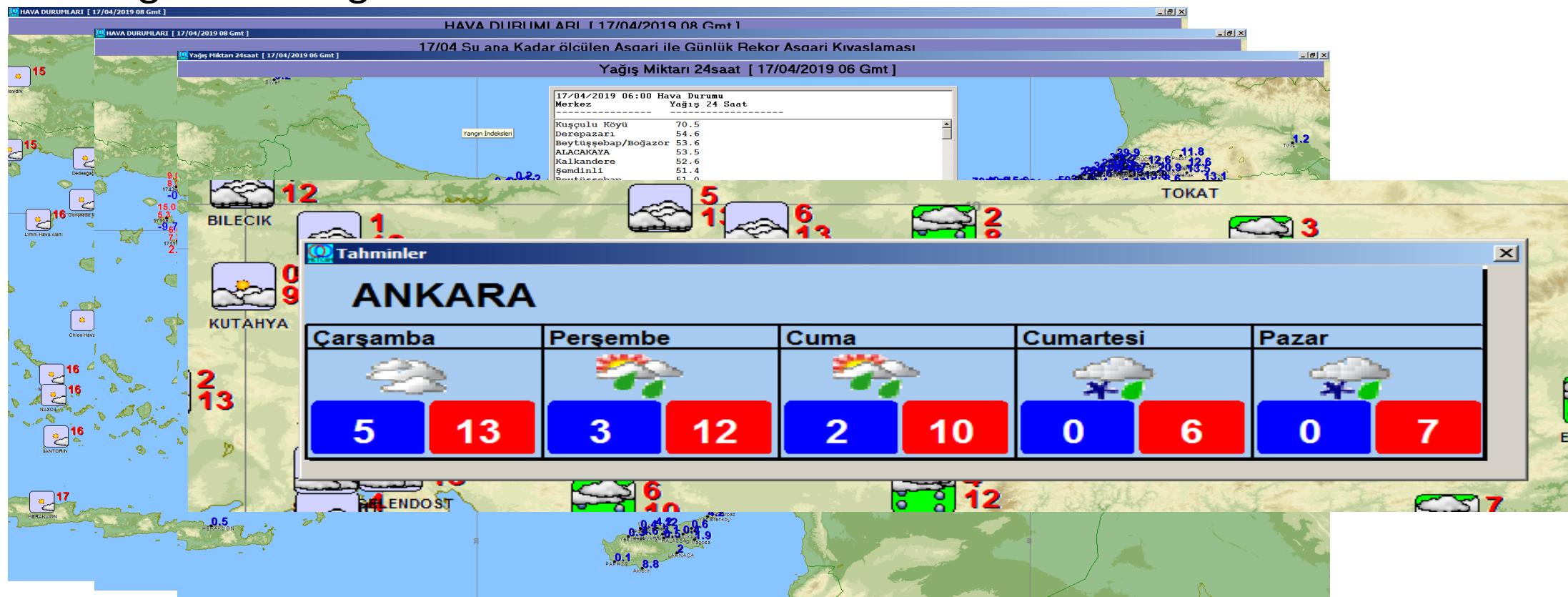
Image Viewer

- The Meteorological products generated by different centers in different Image formats may be displayed and animated.



Weather Monitoring

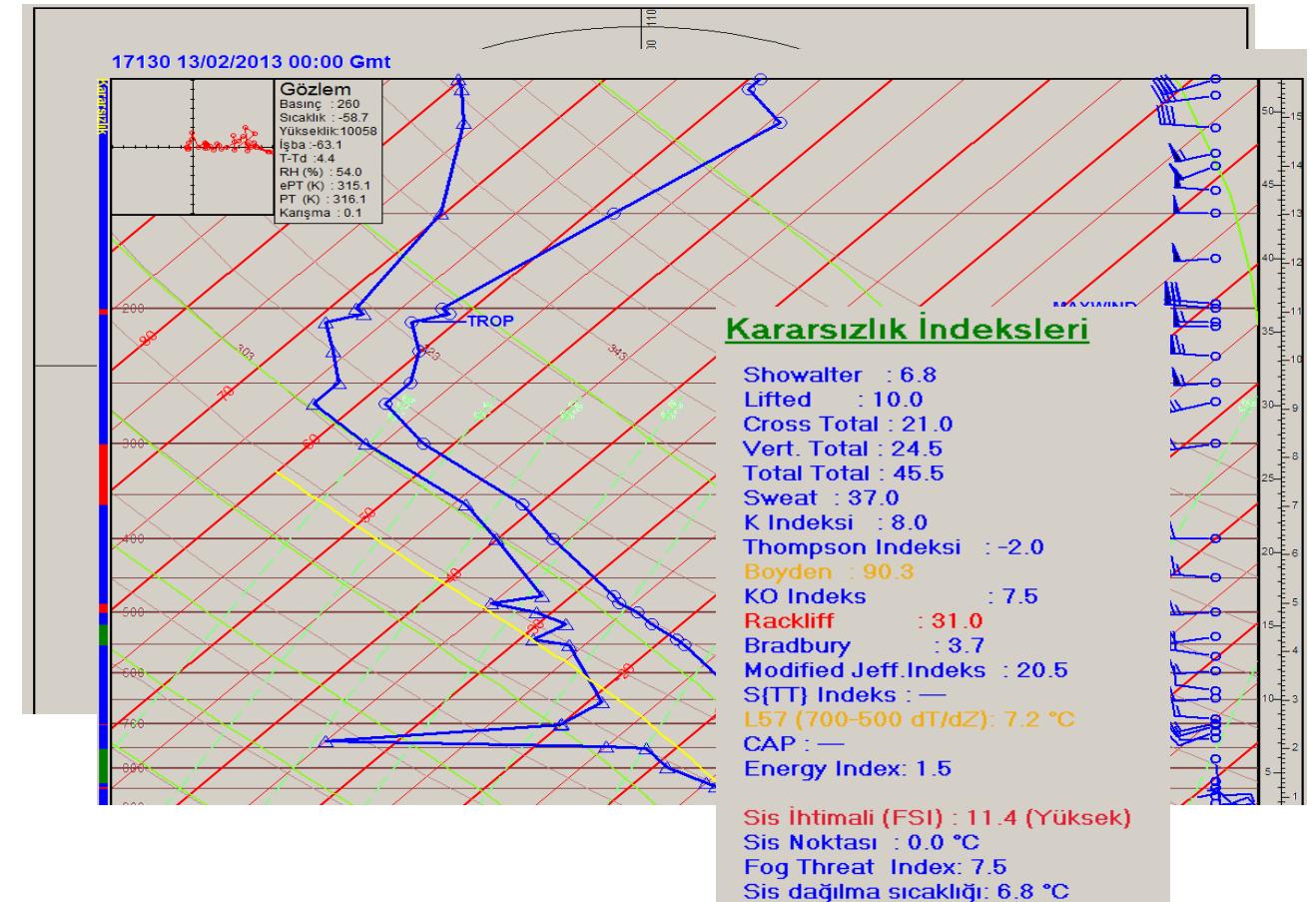
- Latest Weather conditions and measured parameters from Synop and Metars
- Latest Satellite, Radar and Lightning images and animation
- Forecast for the cities from both weather reports and TAFs
- Using Climatological Data with actual Data



SkewT LogP

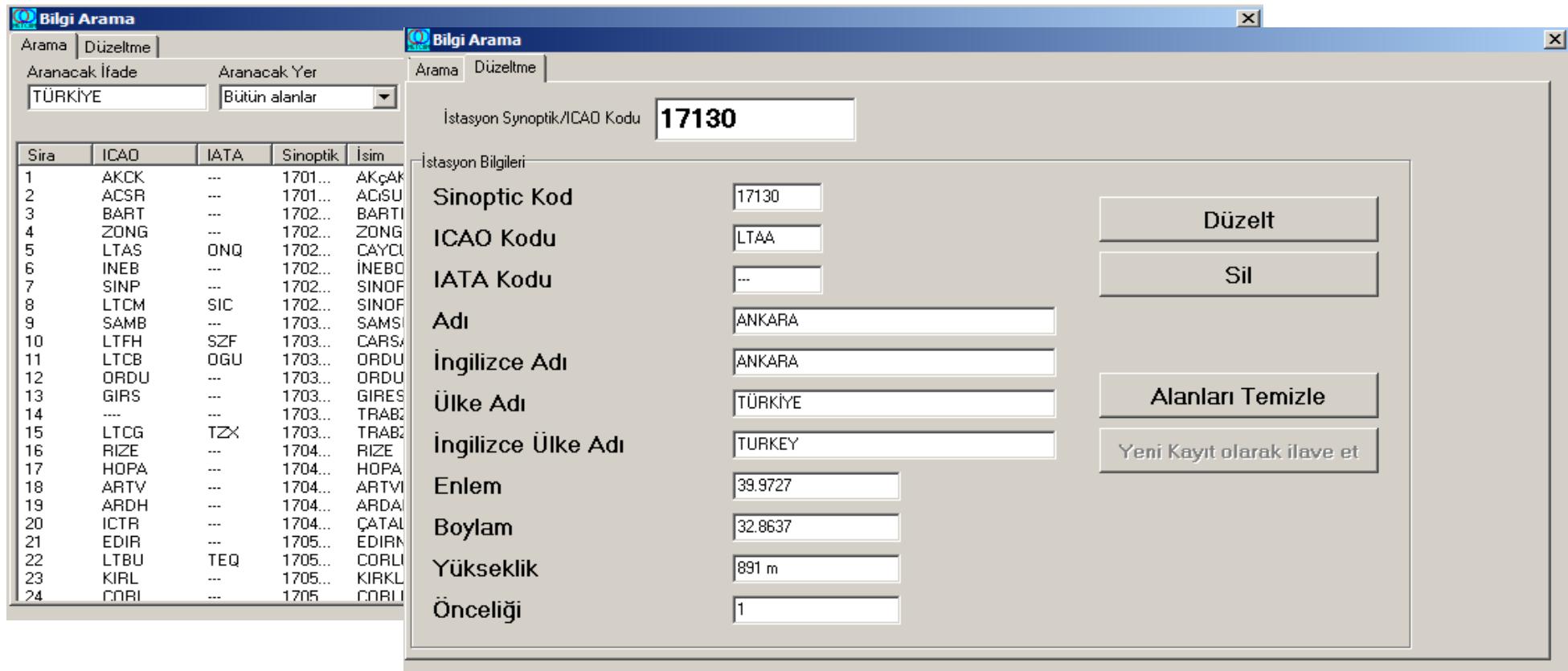
Skewt & Hodogram

- Thermodynamic calculations
- Instability indices
- Important levels and values
- Inversion levels and type
- Using TAC and BUFR data
- User defined display



Station Database

- There are almost 20K station information worldwide
- New records may be added
- Current data may be updated



The screenshot shows a Windows application window titled 'Bilgi Arama' (Information Search) with two tabs: 'Arama' (Search) and 'Düzelme' (Editing). The 'Arama' tab is active, showing a search interface with 'Aranacak İfade' (Search term) set to 'TÜRKİYE' and 'Aranacak Yer' (Search location) set to 'Bütün alanlar' (All areas). Below this is a table of station data:

Sıra	ICAO	IATA	Sinoptik	İsim
1	AKCK	---	1701...	AKÇAK
2	ACSR	---	1701...	ACSU
3	BART	---	1702...	BARTI
4	ZONG	---	1702...	ZONG
5	LTAS	ONQ	1702...	CAYCI
6	INEB	---	1702...	İNEBO
7	SINP	---	1702...	SINOF
8	LTCM	SIC	1702...	SINOF
9	SAMB	---	1703...	SAMSİ
10	LTFH	SZF	1703...	CARSİ
11	LTCB	OGU	1703...	ORDU
12	ORDU	---	1703...	ORDU
13	GIRS	---	1703...	GİRES
14	---	---	1703...	TRABZ
15	LTCG	TZX	1703...	TRABZ
16	RIZE	---	1704...	RIZE
17	HOPA	---	1704...	HOPA
18	ARTV	---	1704...	ARTVİ
19	ARDH	---	1704...	ARDAL
20	ICTR	---	1704...	ÇATAL
21	EDIR	---	1705...	EDİR
22	LTBU	TEQ	1705...	CORLU
23	KIRL	---	1705...	KIRKL
24	CORI	---	1705...	CORLU

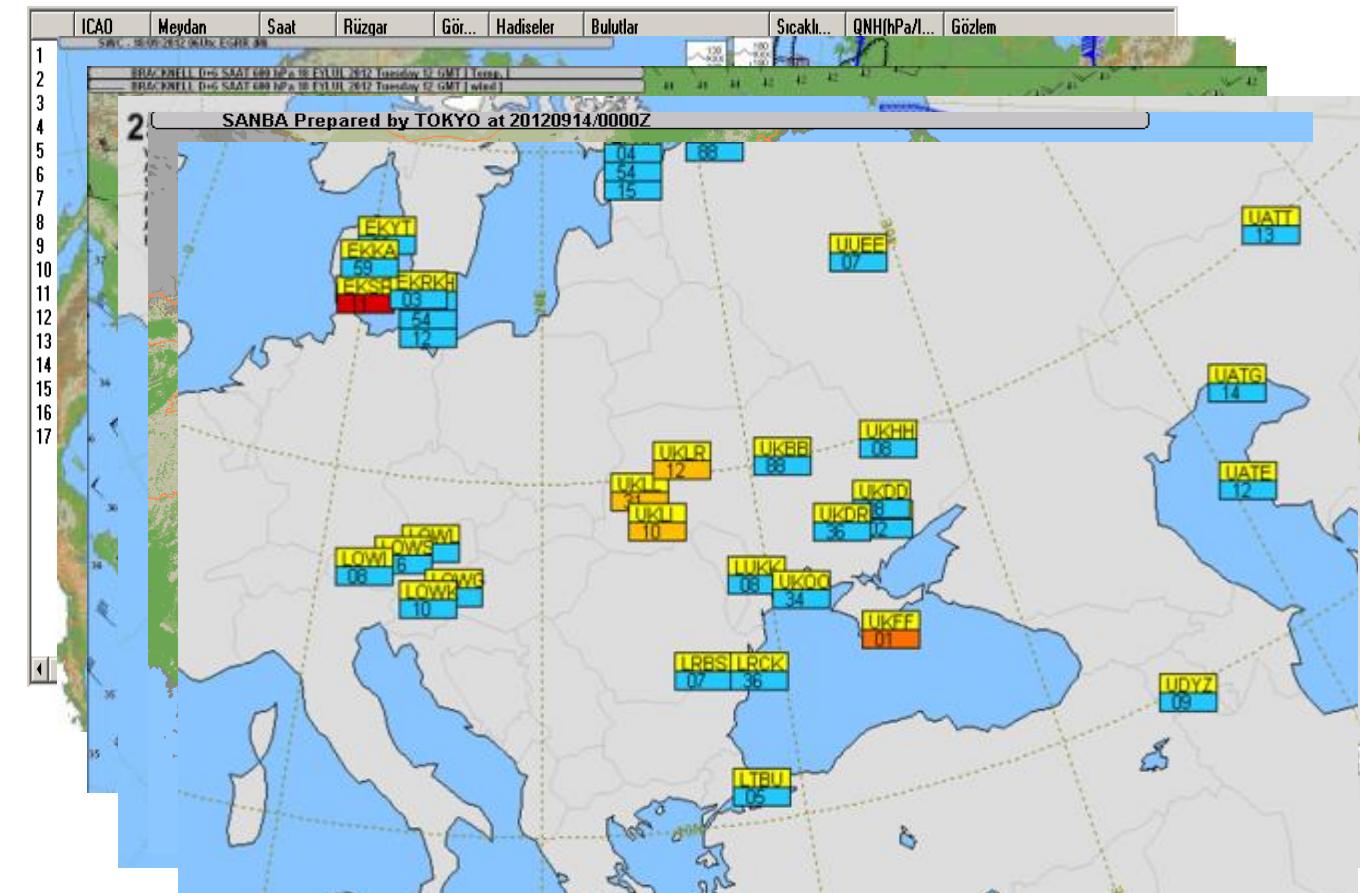
The 'Düzelme' tab is active, showing a form for editing station data. The 'İstasyon Synoptik/ICAO Kodu' field contains '17130'. The 'İstasyon Bilgileri' section contains fields for 'Sinoptic Kod' (17130), 'ICAO Kodu' (LTAA), 'IATA Kodu' (---), 'Adı' (ANKARA), 'İngilizce Adı' (ANKARA), 'Ülke Adı' (TÜRKİYE), 'İngilizce Ülke Adı' (TURKEY), 'Enlem' (39.9727), 'Boylam' (32.8637), 'Yükseklik' (891 m), and 'Önceliği' (1). On the right side of the form are buttons for 'Düzel' (Edit), 'Sil' (Delete), 'Alanları Temizle' (Clear fields), and 'Yeni Kayıt olarak ilave et' (Add as a new record).

Products from TAC, BUFR & GRIB1/2 Data

- SWC, wind, temperature
- SIGMET, Tropical cyclones, Hurricanes and Volcanic ash reports
- SNOWTAM, TAF

Flight Documentation

- Planned or Instant flight folders
- Cross section for the routes
- Latest METAR, TAF, Sigmet reports



Aviation Products

- Selected airports may be monitored with latest reports
- Flight folders may be prepared manually or automatically at defined times.

Gmt: 17 Nisan 2019 08:26₅₆
 Yerel: 17 Nisan 2019 11:26₅₆
 Gün Doğumu: 03:12 Gün Batımı: 16:28 (Gmt)
 Ay Doğumu: 14:12 Ay Batımı: 02:18 (Gmt)
 Ay Buyuyor: % 92'i gorunuyor. (Dolunay)



İstasyon: LTAC ESENBOĞA
 Gözleme zamanı: 170820Z
 Rüzgar: VRB 04
 Görüş Mesafesi: 9999
 Hadiseler: BKN040
 Bulular: BKN040

9/-2°C
 1013hPa

LTAC 170820Z VRB04KT 9999 BKN040 09/M02 Q1013 NOSIG
 RMK RWY21L VRB05KT RWY03L 05006KT 010V120
 RWY21R VRB03KT =

TAF LTAC 170440Z 1706/1806 VRB02KT 9999 SCT040 =

Güneşlik 12 Saat İklim Tahmini



METAR Gözlemleri | TAF Raporları | Önemli Duyular | SWC Kartı | Rüzgar/Sıcaklık Kartı | SIGMET/SNOWTAM/SIKLON | Uçuş Dosyası Hazırlama | Model TA-M |

Si...	ICAO	Meydan	Saat	Rüzgar	Görü...	Hadise...	Bulular	Sıcakl...	Nem	QNH (hPa/Inç)	Gözlem
1	LTAC	ESENBOĞA	170820Z	VRB/04	9999		BKN040	9/-2	46	1013 / 29.91	LTAC 170820Z VRB04KT 9999 BKN040 09/M02 Q1013 NOSIG RMK RW
2	LTAD	ETIMESG...	170750Z	110/04	9999		BKN040	8/0	57	1014 / 29.94	LTAD 170750Z 11004KT 030V200 9999 BKN040 08/M02 Q1014 NOSIG RM
3	LTAE	MURTED	170750Z	VRB/06	9999		FEW040 SCT100	10/-2	43	1013 / 29.91	LTAE 170750Z VRB06KT 9999 FEW040 SCT100 10/M02 Q1013 NOSIG F
4	LTAB	GÜVERCİ...	170750Z	VRB/02	9999		SCT040 SCT100	8/0	57	1014 / 29.94	LTAB 170750Z VRB02KT 9999 SCT040 SCT100 08/00 Q1014 NOSIG RM
5	LTFM	İSTANBUL	170820Z	240/08	9999		FEW032 SCT090	13/-4	54	1017 / 30.03	LTFM 170820Z 24008KT 9999 FEW032 SCT090 13/04 Q1017 NOSIG RM
6	LTBI	ESKISEHIR	170750Z	360/07	9999		FEW040	9/-1	49	1015 / 29.97	LTBI 170750Z 36007KT 320V030 9999 FEW040 09/M01 Q1015 NOSIG RI
7	LTBG	BANDIRMA	170750Z	160/05	9999		CAVOK	12/5	62	1017 / 30.03	LTBG 170750Z 16005KT 120V200 CAVOK 12/05 Q1017 NOSIG RMK RW
8	LTBF	BALIKESİR	170750Z	SAKİN	9999		CAVOK	11/2	54	1018 / 30.06	LTBF 170750Z 00009KT CAVOK 11/02 Q1018 NOSIG RMK RW/18 VRBI
9	LTBL	ÇİĞLİ MEY...	170750Z	300/08	9999		CAVOK	15/3	44	1017 / 30.03	LTBL 170750Z 30008KT 260V350 CAVOK 15/03 Q1017 NOSIG RMK RW
10	LTBJ	ADNAN M...	170820Z	350/12h25	9999		CAVOK	16/3	41	1016 / 30.00	LTBJ 170820Z 35012G25KT 330V030 CAVOK 16/03 Q1016 NOSIG RMK RW
11	LTBS	DALAMAN...	170820Z	330/09	9999		FEW030	18/7	48	1011 / 29.95	LTBS 170820Z 33009KT 300V010 9999 FEW030 18/07 Q1011 NOSIG RM
12	LTFH	ÇARŞAMB...	170750Z	300/15	9999	SHRA	SCT012 BKN030 BK...	9/5	76	1016 / 30.00	LTFH 170750Z 30015KT 9999 -SHRA SCT012 BKN030 BKN090 09/05 Q1
13	LTBA	ATATÜRK	170820Z	170/06	9999		CAVOK	12/6	66	1018 / 30.06	LTBA 170820Z 17006KT 130V220 CAVOK 12/06 Q1018 NOSIG RMK RW
14	LTTF	SABIHA G...	170820Z	220/07	9999		CAVOK	13/1	44	1017 / 30.03	LTTF 170820Z 22007KT 170V280 CAVOK 13/01 Q1017 NOSIG RM F
15	LTGG	TRABZON	170820Z	300/16	9999	SHRA	SCT009 BKN028	10/7	81	1014 / 29.94	LTGG 170820Z 30016KT 9999 -SHRA SCT009 BKN028 10/07 Q1014 TEM
16	LTCE	ERZURUM	170820Z	270/09	1800	SN BR	FEW004 BKN020 O...	1/0	93	1008 / 29.77	LTCE 170820Z 27009KT 1800 R08R/P1500N -SN BR FEW004 BKN020 C
17	LTCC	DIYARBA...	170820Z	320/04	9999		FEW015TCU SCT04	13/9	76	1007 / 29.74	LTCC 170820Z 32004KT 270V200 9999 FEW015TCU SCT040 BKN100 1:
18	LTAN	KONYA M...	170750Z	010/13	9999		SCT027 BKN100	6/3	81	1013 / 29.91	LTAN 170750Z 01013KT 9999 SCT027 BKN100 06/03 Q1013 NOSIG RMI
19	LTAT	ERHAÇ M...	170820Z	280/09	9999		BKN035 BKN090	11/4	62	1009 / 29.80	LTAT 170820Z 28009KT 9999 BKN035 BKN090 11/04 Q1009 NOSIG RMI
20	LTAU	ERKILET ...	170820Z	VRB/02	9999		SCT015 BKN025	6/2	75	1012 / 29.88	LTAU 170820Z VRB02KT 9999 SCT015 BKN025 06/02 Q1012 NOSIG RM

Si... | ÉÉÀ | Meydan | Saat | TAF Raporu

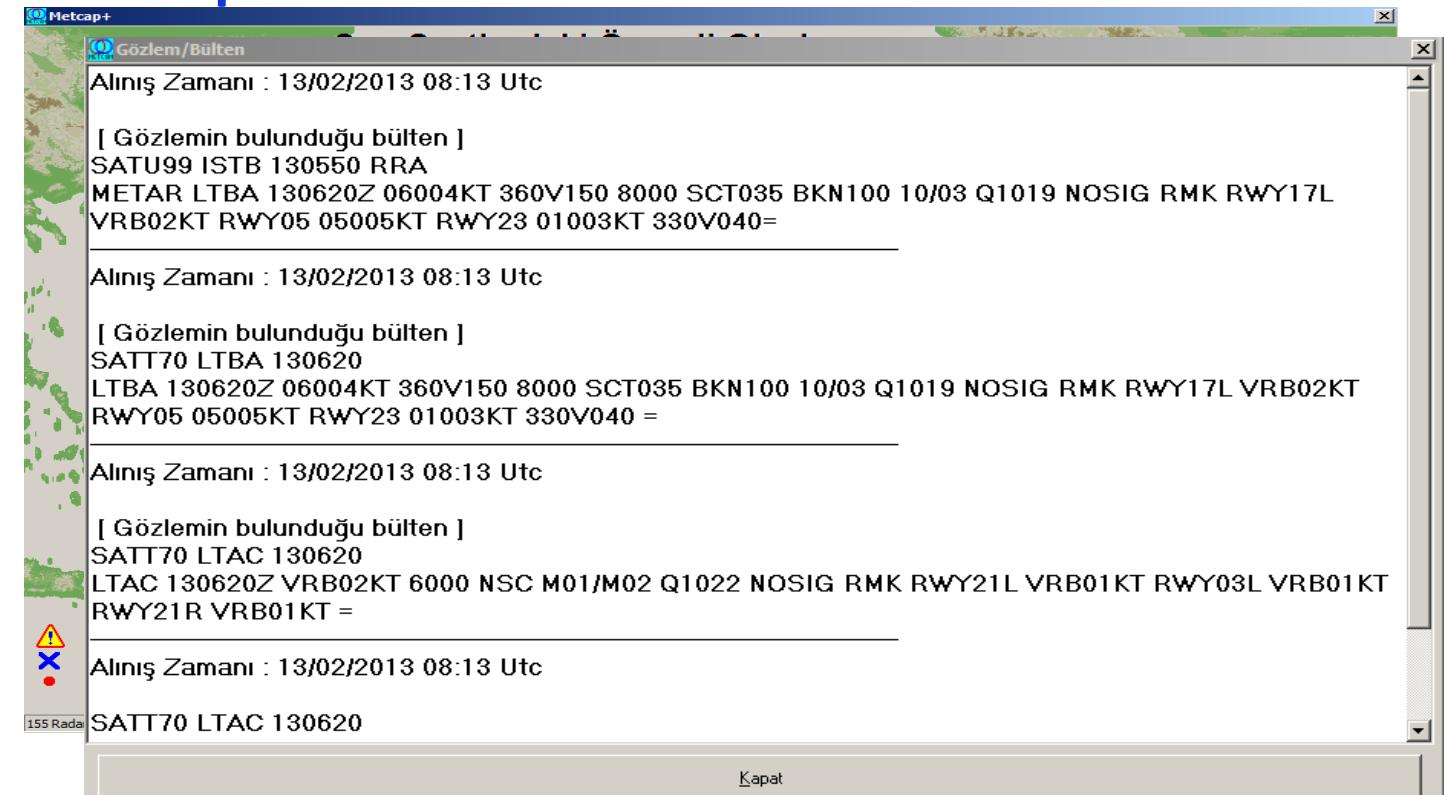
1	LTAC	ESENBO...	170500	TAF LTAC 170440Z 1706/1806 VRB02KT 9999 SCT040
2	LTAD	ETIMESG...	170740	TAD 170740Z 1709/1718 30008KT 9999 SCT040 BKN100 TEMPO 1716/1718 -SHRA BKN030 BKN080 =
3	LTAE	MURTED	170740	LTAE 170740Z 1709/1718 36008KT 9999 SCT040 SCT100 PROB30 TEMPO 1712/1715 03015G25KT -TSRA FEW027CB BKN030 =
4	LTAB	GÜVERCİ...	170740	LTAB 170740Z 1709/1718 33007KT 9999 SCT040 BKN100 =
5	LTFM	İSTANBUL	170500	TAF LTM 170440Z 1706/1812 22008KT 9999 SCT032 BKN100 BECMG 1707/1711 01013KT TEMPO 1709/1713 -SHRA BKN028 PROB30 1722/1802 2500 BR BKN018 =
6	LTBI	ESKISEHIR	170740	LTBI 170740Z 1709/1718 35000KT 9999 SCT040 TEMPO 1712/1715 BKN040 BECMG 1717/1718 03012KT =
7	LTBG	BANDIR...	170740	LTBG 170740Z 1709/1718 VRB02KT CAVOK BECMG 1710/1712 03012KT =
8	LTBF	BALIKESİR	170740	LTBF 170740Z 1709/1718 VRB02KT 9999 FEW035 SCT100 =
9	LTBL	Çığlı ME...	170740	LTBL 170740Z 1709/1718 35009KT 9999 SCT035 =
10	LTBJ	ADNAN M...	170500	TAF LTBJ 170440Z 1706/1806 36010KT CAVOK BECMG 1706/1709 36015G25KT SCT030 BECMG 1714/1717 CAVOK BECMG 1717/1720 35010KT =
11	LTBS	DALAMA...	170500	TAF LTBS 170440Z 1706/1806 35015KT CAVOK BECMG 1706/1708 FEW030 BECMG 1714/1716 CAVOK =
12	LTFH	ÇARŞAM...	170740	LTFH 170740Z 1709/1718 31012KT 9999 BKN030 BKN090 TEMPO 1709/1713 -SHRA =
13	LTBA	ATATÜRK	170500	TAF LTBA 170440Z 1706/1812 21008KT 9999 SCT032 TEMPO 1712/1716 -SHRA BKN028 BECMG 1713/1717 01013KT BECMG 1801/1804 -SHRA BKN025 =
14	LTTF	SABIHA G...	170500	TAF LTTF 170440Z 1706/1806 VRB02KT CAVOK BECMG 1710/1712 SCT035 PROB30 TEMPO 1712/1715 -SHRA FEW020CB BKN030 BECMG 1722/1801 4000 BR PR =
15	LTGG	TRABZON	170500	TAF LTGG 170440Z 1706/1806 27014KT 6000 -SHRA BKN006 BKN025 TEMPO 1706/1709 2800 SHRA BR BKN003 BKN025 BECMG 1709/1712 30016G29KT SCT008 E =
16	LTCE	ERZURUM	170500	TAF LTCE 170440Z 1706/1806 09000KT 2000 -SN BR BKN020 OVC070 BECMG 1706/1709 8000 -SNRA BECMG 1715/1718 SCT030 BKN080 =
17	LTCC	DIYARBA...	170500	TAF LTCC 170440Z 1706/1806 VRB02KT 9999 SCT040 BKN100 TEMPO 1706/1709 -SHRA BKN035 BKN090 TEMPO 1709/1712 -SHRA BKN035 BKN090 TEMPO 1712 =
18	LTAN	KONYA M...	170740	LTAN 170740Z 1709/1718 01012KT 9999 SCT035 BKN100 =
19	LTAT	ERHAÇ M...	170500	TAF LTAT 170440Z 1706/1806 VRB02KT 9999 SCT040 BKN100 TEMPO 1706/1710 -SHRA BKN033 BKN090 TEMPO 1712/1716 -SHRA BKN033 BKN090 =
20	LTAU	ERKILET ...	170500	TAF LTAU 170440Z 1706/1806 VRB02KT 9999 SCT012 BKN025 TEMPO 1706/1708 -V BECMG 1706/1707 -V BKN025 BKN090 TEMPO 1710/1711 -SHRA FEW025CB =

20/26

Warnings

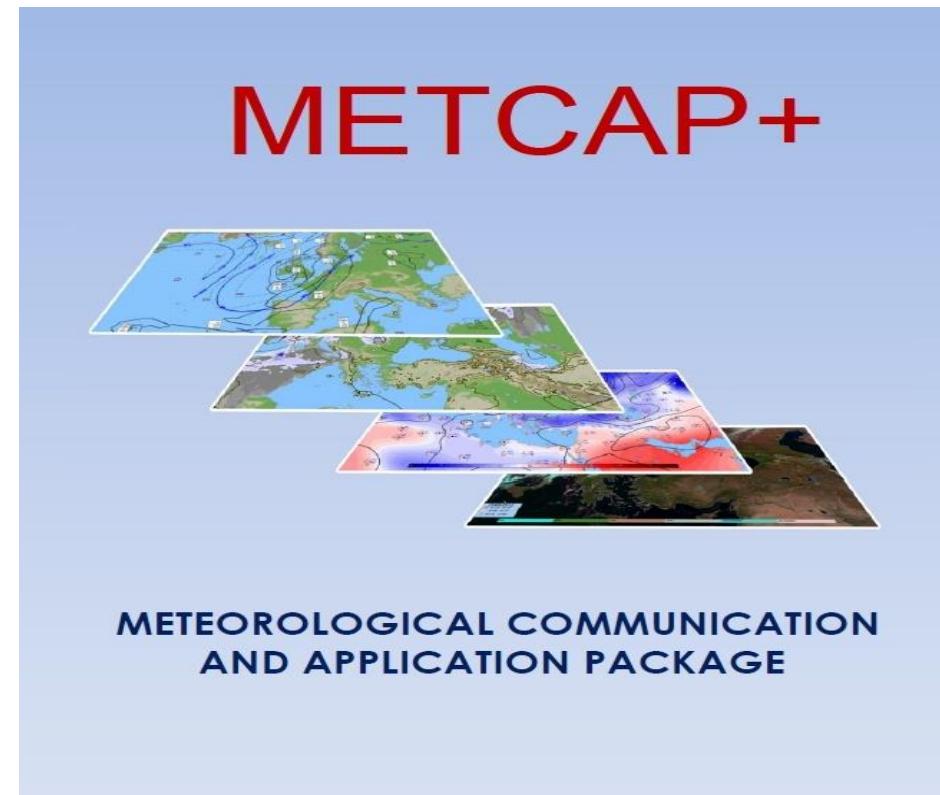
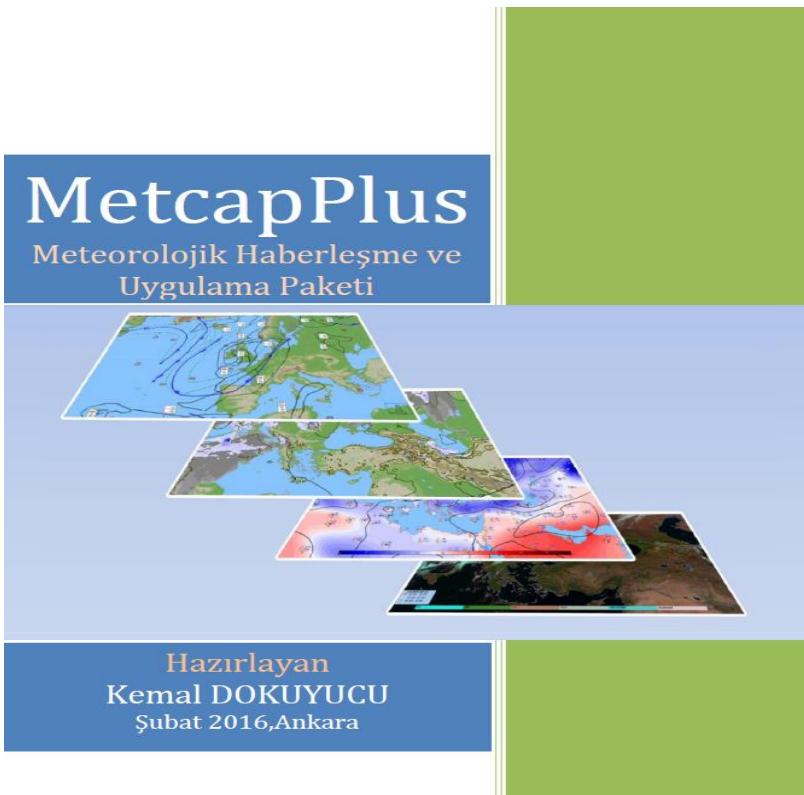
Auto warning for selected regions

- Checking all received Synop, Metar and speci reports
- User defined thresholds
- Radar data control
- Lightning data control
- Auto popup windows
- Warning with Voice



Documentations

- There are two User manuals in Turkish and English Languages (Almost 210 pages)



Misc Applications

- There are many small applications
- Meteorological Conversions
- Message sending to MSS and other MetcapPlus users.
- Astrological Data for selected point and dates
 - Time of Sunrise/set, Moon rise/setistenen
- Meteorological calculations
 - Mean Sea Level, Humidity, dew point etc

Gün/Ay Zamanları

Esenboğa Boylam : 32.34 Enlem : 40.04
Nisan 2019 Ayı Astronomi Bilgileri (Saatler yerelidir)

Gun	Gün D.	Gün B.	Ay D.	Ay B.	Ayin Sekli
01	06:37	19:12	04:57	15:30	Küçülüyor. % 17'i görünüyor. (Hilal)
02	06:35	19:13	05:29	16:27	Küçülüyor. % 10'i görünüyor. (Hilal)
03	06:33	19:14	05:57	17:26	Küçülüyor. % 5'i görünüyor.
04	06:32	19:15	06:25	18:24	Küçülüyor. % 21'i görünüyor.
05	06:30	19:16	06:51	19:24	Küçülüyor. % 0'i görünüyor.
06	06:29	19:17	07:19	20:25	Büyüyor. % 0'i görünüyor.
07	06:27	19:18	07:47	21:27	Büyüyor. % 3'i görünüyor.
08	06:26	19:19	08:19	22:30	Büyüyor. % 7'i görünüyor. (Hilal)
09	06:24	19:20	08:55	23:34	Büyüyor. % 14'i görünüyor. (Hilal)
10	06:22	19:21	09:37	--	Büyüyor. % 22'i görünüyor. (Hilal)
11	06:21	19:22	10:26	00:37	Büyüyor. % 31'i görünüyor. (Hilal)
12	06:19	19:23	11:23	01:37	Büyüyor. % 42'i görünüyor. (Yarimay)
13	06:18	19:24	12:26	02:32	Büyüyor. % 53'i görünüyor. (Yarimay)

Hesaplama ve Çevrimler

Rüzgar Hızı | Sıcaklık | Basınç | İşba & Nem | Yağış & Uzunluk | Ağırlık ve Alan |

Değer	Birim:					
15	<input type="radio"/> mph <input checked="" type="radio"/> knots <input type="radio"/> m/s <input type="radio"/> ft/s <input type="radio"/> km/h					
mph	knots	m/s	ft/s	km/h	Çevir	Hesapla
17.3	15	7.7	25.3	27.8		

17.04.2019

İstasyon **Esenboğa**

Boylam **32.34** Enlem **40.04**

Yerel Zaman **11:31:38** Yerel - UTC **3**

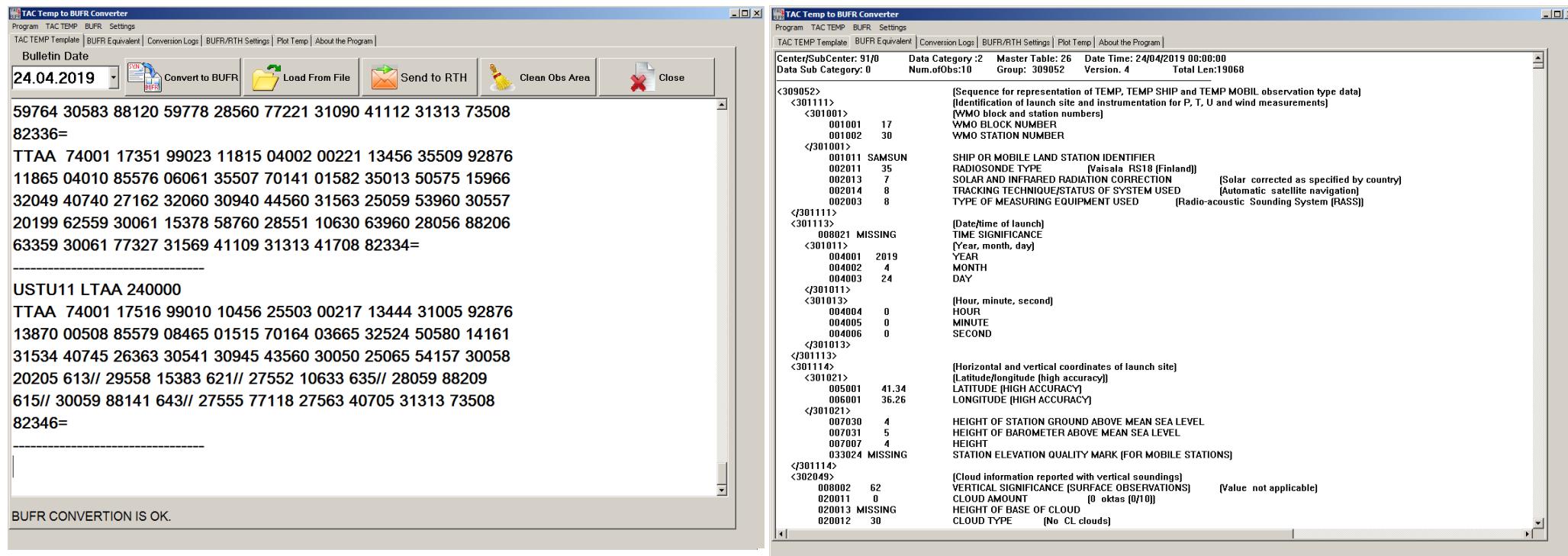
GMT Zamanı **08:31:38**
17 Nisan 2019

Bugüne Ait İstasyon Bilgileri

Gün Doğumu :	06:12
Gün Batımı :	19:28
Ay Doğumu :	17:12
Ay Batımı :	05:18
Ay Büyüyör. % 92'i görünüyor. (Dolunay)	
Gün Uzunluğu:	13:16
Tan Başlangıcı :	05:53
Öğle Vakti :	12:50
Alaca Karanlık :	19:47
Sapma Aşısı :	010 °

Misc Applications

- BUFR Decoder and Encoder for Synoptic, Upper Air and Climat reports
- BUFR encoder converts report manually or automatically
- Upper Air BUFR conversion may use TTAA,TTBB,TTCC and TTDD parts and Sondage data
- All Encoded BUFR reports and TAC reports may be sent to MSS



The screenshot displays two windows of the 'TAC Temp to BUFR Converter' application. The left window shows a TAC (Text Atmospheric Conditions) report for April 24, 2019, with various meteorological parameters and station identifiers. The right window shows the corresponding BUFR XML structure, detailing the data elements and their values, such as station ID (91/0), data category (2), and various parameters like temperature, humidity, and pressure. The XML structure is nested within tags like <308052>, <301111>, and <301001>, with descriptive comments for each tag.

Misc Applications

Metcap CAP Editor

- Creates Common Alerting Protocol reports as stated in ITU catalog
- Creates XML and RSS files
- Makes Validations of the reports.



Common Alerting Protocol Validator (beta) - Internet Explorer
Common Alerting Protocol Validator
Flood warning for Central Anatolia and ANKARA Metropolitan Area.

Input feed:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet type="text/xsl" href="test.xsl">
<alert xmlns = "urn:iso:isobis:names:iso:emergency:cap:1.1
version = "1.1" id = "1" severity = "4.0" status = "4.0.0"/>
<sender>kdkuyucu@mgm.gov.tr</sender>
<event>2017-03-16T09:04:08+00:00</event>
<status>actual</status>
<severity>severe</severity>
<certainty>likely</certainty>
<onset>2017-03-16T09:04:08+00:00</onset>
<expires>2017-03-16T23:59:00+00:00</expires>
<senderName>Turkish State Meteorological Service</senderName>
<headline>Flood warning for Central Anatolia and ANKARA Metropolitan Area</headline>
<description>Heavy rain and thunderstorm may cause floods in low lying areas. Residents in low-lying areas should exercise caution and should not be out on the roads during heavy rainfall. An alert of <a href="http://www.mgm.gov.tr">upload a file</a> (Optional) Validate against common CAP profiles:
 US IPAWS Profile v1.0
 CAP Canadian Profile v1.0
 CAP Australian Profile v3.0, Committee Specification
 Google Public Alerts CAP v1.0
</description>
<instruction>Residents in low-lying areas should exercise caution. Avoid low areas. Persons should not be out on the roads during heavy rainfall. If you must be outside, use extreme caution. Do not drive your vehicle into areas where water covers the roadway. Vehicles caught in rising waters should be abandoned quickly. Continue listening to local media as updates will be provided if conditions change significantly. If you require additional information please contact TSMG at +90 312 302 2531
http://www.mgm.gov.tr
Kemal DOKUYUCU tel : +90 312 302 2600 kdkuyucu@mgm.gov.tr
Description: Central Anatolia, Ankara Metropolitan Area and North of Tuz Golu.
Polygon: 039.9,31.4 040.4,31.8 040.8,32.7 040.5,34.2 039.3,34.1 037.7,32.5 038.2,31.7 039.1,32.4 039.9,31.4
```

Validate

Validate with Google

Save

Validate with Google

Publish

Show XML

Result

Valid



Thank You