

# Summits on the Air

## Hungary (HA)

### Association Reference Manual



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## 1 Change Control

Date	Version	Details
13-Apr-05	1.0	First formal issue of this document
27-Sep-05	1.1	Coordinates of DD-005 and KM-015 corrected Figure 1 corrected Section 2.6 is updated with SOTA-HA web site information
14-Jan-06	1.2	New summit: Karácsony-hegy (ND-013)
28-Mar-06	1.3	New summits in the DD, KD, and ND regions. KD-021 and ND-010 are not valid. HA4FY joined the Management Team and took over the KD region.
1-Feb-07	1.4	New summits in the EM and KM regions. EM-031, -060, -064, -074, -076, KM-004 are not valid. Corrections of some height and coordinate data.
1-Apr-07	1.5	EM-123 renamed to KM-034 (error in version 1.4) Correction of height and coordinate data for EM-018 and EM-073
1-Feb-10	1.6	Two new summits in the DD region Link added to the Gyalogradio Award Corrections of some coordinates Name change for DD-011 Coordinate format changed to decimal ND-005, 006 and 012 are invalid

## 2 Association Reference Data

Association	Hungary (HA)
Commencement date	01 May 2005
Active Regions	Dél-Dunántúl (DD-xxx) Észak-Magyarország (EM-xxx) Közép-Dunántúl (KD-xxx) Közép-Magyarország (KM-xxx) Nyugat-Dunántúl (ND-xxx)
Association parameters <sup>1</sup>	
Minimum vertical separation between Summits and their associated cols	100 m
Summit operation criteria	Operation must be within 25m vertically of the Summit
Band 1, score 1 point	<500m ASL
Band 2, score 2 points	>=500m ASL, <600m ASL
Band 3, score 4 points	>=600m ASL, <700m ASL
Band 4, score 6 points	>=700m ASL, <800m ASL
Band 5, score 8 points	>=800m ASL, <900m ASL
Band 6, score 10 points	>=900m.
Seasonal bonus	Yes
Bonus rationale	Winter period with highest probability of sub-zero temperatures
Min. height for bonus	600m
Bonus period dates	1 December to 15 March inclusive
Association sponsored awards	Yes
Association Manager	Zoltán Csahók, HA5CQZ [ <a href="mailto:ha5cqz@freemail.hu">ha5cqz@freemail.hu</a> ]

### 2.1 General information

Hungary (DXCC Entity; ITU Prefix HA) occupies the Carpathian Basin in the very centre of Eastern Europe. Hungary covers 93,000 sq km and has a bit more than 10 million inhabitants - among them approx. 3,500 radio amateurs with valid Hungarian call signs.

The 417 km long Hungarian portion of the Danube River cuts through a southern extension of the Carpathian Mountains at the majestic Danube Bend north of the capital, Budapest. The Danube divides Hungary into the Great Plain (Nagyalföld) on the east and Transdanubia (Dunántúl) on the west. The 598 km long Tisza River crosses the Great Plain about 100 km east of the Danube. Hungary's 'mountains' are actually hills that seldom exceed an elevation of 1000 metres. The highest peak is Kékes (1,011 m / 3,317 ft. ASL) in the Mátra range north-east of Budapest.

<sup>1</sup> See General Rules for parameter definitions

From the public administration's point of view Hungary is divided into 19 counties and the capital, Budapest. The counties have been recently grouped into regions giving a more coarse grained structure. Each of such regions is equivalent to a SOTA Region. The names of these 7 Regions are listed in the table below:

Name	Counties
Dél-Alföld (Southern Great Plain)	Bács-Kiskun Békés Csongrád
Dél-Dunántúl (Southern Transdanubia)	Baranya Somogy Tolna
Észak-Alföld (Northern Great Plain)	Hajdú-Bihar Jász-Nagykun-Szolnok Szabolcs-Szatmár-Bereg
Észak-Magyarország (Northern Hungary)	Borsod-Abaúj-Zemplén Heves Nógrád
Közép-Dunántúl (Central Transdanubia)	Fejér Komárom-Esztergom Veszprém
Közép-Magyarország (Central Hungary)	Budapest (capital) Pest
Nyugat-Dunántúl (Western Transdanubia)	Győr-Moson-Sopron Vas Zala

Table 1: SOTA Regions of Hungary and the respective counties.

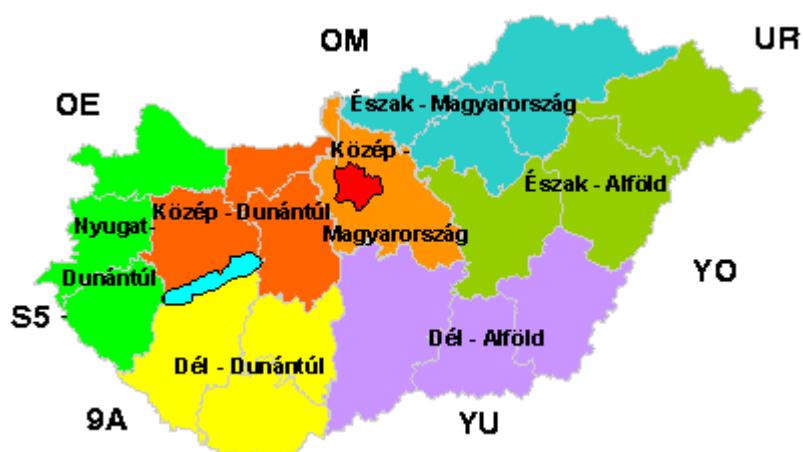


Figure 1: SOTA Regions of Hungary

The Regions Észak-Alföld and Dél-Alföld are not active due to lack of summits.

## **2.2 Operating issues**

Please consult basic SOTA documentation for general rules.

All Summits can be reached easily by every healthy and fit mountain walker with basic outdoor experience, from almost everywhere in Hungary. Most Hungarian Summits are reachable taking hiking paths. If the Summit is not located on public land then it is essential that the landowner's permission be obtained before attempting activation.

The final ascent to the Summit must be done using a non-motorized method (e.g., hiking, mountain bike). No operation from vehicles or using non-portable power sources is allowed. Activation of a Summit located on a border with a neighbouring country is valid only if the activation has been made on Hungarian land.

All SOTA Activators should suffix their call with the portable designator (/P). Holders of foreign licences must use the HA/ prefix.

Hungary has a wide network of repeaters on 2m and 70cm bands, which covers the whole country and is accessible from almost any summit, useful for navigation info and for emergencies.

There is an active APRS network running on 144.800 MHz (1200 Baud FM) that covers almost the whole country as well.

## **2.3 Qualification criteria for summits**

There should be no higher point (whether marked as a high point on the map or not) such that there is a route between the higher point and the proposed summit that does not descend to at least 100m below the height of the proposed summit. In less formal terms this means that if two peaks are separated by a shallow col with less than 100m vertical distance between the lower peak and the col, then only the higher peak is eligible.

## **2.4 Maps and navigation**

The Ministry of Defence Mapping Company provides topographic maps of various resolutions (e.g., 1:50,000) covering the whole country.

<http://www.topomap.hu/>

An online version of the 1:50,000 maps is available at  
[http://www.topomap.hu/mapnavigator/hun/mapnavigator\\_content.html](http://www.topomap.hu/mapnavigator/hun/mapnavigator_content.html)

Cartographia Ltd has a wide range of tourist maps (mostly 1:40,000) covering most areas of interest for the Programme.

<http://www.cartographia.hu/>

Free online and downloadable GPS maps are available from the <http://turistautak.hu> site.

## **2.5 Weather**

Hungary has a temperate continental climate with Mediterranean and Atlantic influences. Depending on the location, winters can be cold, cloudy and damp or windy, the summers warm and sometimes very hot. May, June and November are the rainiest months, although more rain usually falls in the West and Southwest than in the East. The number of hours of sunshine a year varies between 1900 and 2500 – among the highest in Europe. From April to the end of September, you can expect the sun to shine for about 10 hours a day. July is the hottest month (average temperature 23.2 °C) and January the coldest (-1.3 °C). The average annual temperature is 11 °C.

Regional and nationwide online weather information (current weather and forecasts, weather web cams, weather satellite photos, etc.) can be found at <http://www.met.hu>

Caution! Please take into account the weather and terrain conditions, etc. Especially in higher layers the changes in weather may be dramatically. Make sure that both your preparation and your equipment are adequate. Everybody participating in the SOTA Programme is doing so at his own risk; the Programme in its entirety does accept no responsibility for injury, loss of life or any other loss.

## **2.6 Information dissemination**

The SOTA-HA web site containing up-to-date information is available at <http://gyalogradio.ham.hu>. There is also the mailing list *gyalogradio* (<http://lists.ha5kfu.hu/mailman/listinfo/gyalogradio>) to disseminate information .

To announce expeditions worldwide in English <http://groups.yahoo.com/groups/summits> may be used.

The original SOTA Web Site (in English) is <http://www.sota.org.uk>. Activators and Chasers are encouraged to claim their points at this site.

Web Site of Magyar Rádióamatőr Szövetség (Hungarian Radio Amateur Society) is <http://www.mrasz.hu>, it holds among others the current list of repeaters.

General information about Hungary can be found on <http://www.hungary.com/>.

## **2.7 Gyalográdió Award**

The aim of the Award is to recognize amateur radio stations activating or hunting Hungarian SOTA Summits.

The award conditions and the list of award owners can be found on the <http://gyalogradio.ham.hu/diploma> site.

### 3 Summit Reference Data

#### 3.1 Region Reference - Dél-Dunántúl

Association	Hungary (HA)
Region	Dél-Dunántúl (DD-xxx)
Region Manager	Gábor Donáczy, HA1DTQ [ <a href="mailto:hg1dtg@freemail.hu">hg1dtg@freemail.hu</a> ]

##### 3.1.1 Regional notes

This region where the southern counties of Transdanubia - Somogy, Tolna and Baranya - are located is surrounded by water from almost every side: from the south by the River Dráva, from the east by the River Danube, from the north by Lake Balaton.

The picturesque beauty of the slopes and valleys of the Somogy and Tolna Hills, the small villages hiding in the forests of Mecsek, the abundant forests of the Danube and Dráva valleys, the series of historical towns, the shallow waters at the southern shore of Lake Balaton have something to explore for everyone.

The most excellent of Hungarian red wine districts (Villány-Siklós) is located in this region.

##### 3.1.2 Table of summits

Ref.	Name	Alt (m)	Alt (ft)	Longitude East	Latitude North	Valid from DD-MM-YY	Valid to DD-MM-YY	Score	Comment
DD-001	Zengő	680	2231	18.37722	46.17972	01-05-05		4	Mecsek
DD-002	Tubes	611	2005	18.20222	46.10917	01-05-05		4	Mecsek
DD-003	Hármas-hegy	604	1982	18.33722	46.17694	01-05-05		4	Mecsek
DD-004	Dobogó	594	1949	18.36083	46.22583	01-05-05		2	Mecsek
DD-005	Jakab-hegy	592	1942	18.13806	46.09444	01-05-05		2	Kővágó-szőlős
DD-006	Rózsa-hegy	532	1745	18.17389	46.11444	01-05-05		2	Mecsek
DD-007	Templom-hegy	472	1549	18.43861	46.21444	01-05-05		1	Mecsek-nádasd
DD-008	Szársomlyó	442	1450	18.41111	45.85556	01-05-05		1	Villány
DD-009	Tenkes	409	1342	18.25028	45.88889	01-05-05		1	Siklós
DD-010	Fekete-hegy	341	1119	18.40361	45.87306	01-05-05		1	Villány-kövesd
DD-011	Alman-tető	316	1037	17.88111	46.77194	01-05-05		1	Kötcse
DD-012	Fonyódi-hegy	233	764	17.54278	46.73806	01-05-05		1	
DD-013	Hollófészek	358	1175	17.99472	46.1825	01-04-06		1	Bakóca
DD-014	Gyugy-hát	311	1020	17.92944	46.81	01-04-06		1	Köröshegy
DD-015	Bánom-hegy	302	991	17.71111	46.72417	01-04-06		1	Balatonlelle
DD-016	József-hegy	297	974	17.99778	46.57083	01-04-06		1	Igal



Ref.	Name	Alt (m)	Alt (ft)	Longitude East	Latitude North	Valid from DD-MM-YY	Valid to DD-MM-YY	Score	Comment
DD-017	Éles-hát	286	938	18.64694	46.34417	01-02-10		1	Szekszárd
DD-018	Kastély-domb	257	840	17.34972	46.63361	01-02-10		1	Kéthely

### 3.2 Region Reference - Észak-Magyarország

Association	Hungary (HA)
Region	Észak-Magyarország (EM-xxx)
Region Manager	Zoltán Csehók, HA5CQZ [ <a href="mailto:ha5cqz@freemail.hu">ha5cqz@freemail.hu</a> ]

#### 3.2.1 Regional notes

The north-eastern part of Hungary comprises a hilly area pertaining to the southern edge of the Carpathian Mountains. The Northern Hills, extending 200 km long, form a group of nine completely different areas (Börzsöny, Nógrád Basin, Karancs, Medves, Mátra, Bükk Hills, Aggtelek karstland, Cserehát, Zemplén Hills). The Mátra Hills exceeding thousand metres, the Bükk plateau covered with forests, the cavernous Aggtelek karstland are all worth a visit. This ring of hills has a network of marked routes of several thousand kilometres, excellent for hiking in any season.

At the junction point of the Rivers Tisza and Bodrog, the Zemplén Hills and the Great Plain is located Hungary's most famous wine district Tokaj, the place where the world-famous wine made from raisins originates from.

#### 3.2.2 Table of summits

Ref.	Name	Alt (m)	Alt (ft)	Longitude East	Latitude North	Valid from DD-MM-YY	Valid to DD-MM-YY	Score	Comment
EM-001	Kékes	1011	3317	20.01278	47.87194	01-05-05		10	
EM-002	Galya-tető	964	3163	19.91639	47.91611	01-05-05		10	
EM-003	Istállóskő	959	3146	20.43	48.06944	01-05-05		10	
EM-004	Nagy-Milic	893	2930	21.4575	48.57583	01-05-05		8	
EM-005	Tót-hegyes	815	2674	19.83222	47.87278	01-05-05		8	
EM-006	Muzsla	805	2641	19.75917	47.8875	01-05-05		8	Pásztó
EM-007	Gergely-hegy	783	2569	21.31028	48.41583	01-05-05		6	Fony
EM-008	Téglás-kő	753	2470	21.33056	48.44194	01-05-05		6	Gönc
EM-009	Óvár	753	2470	19.80972	47.91889	01-05-05		6	Pásztó
EM-010	Tokár-tető	742	2434	21.37417	48.41389	01-05-05		6	Regéc
EM-011	Magoska	734	2408	21.28667	48.34944	01-05-05		6	Boldogkő-váralja

## Summits on the Air – ARM for Hungary (HA)

Ref.	Name	Alt (m)	Alt (ft)	Longitude East	Latitude North	Valid from DD-MM-YY	Valid to DD-MM-YY	Score	Comment
EM-012	Karancs	727	2385	19.78944	48.15778	01-05-05		6	Salgótarján
EM-013	Kőlyuk-galya	720	2362	20.64472	48.04	01-05-05		6	Bükkszentkereszt
EM-014	Nagy-Korsós	684	2244	21.30083	48.31222	01-05-05		4	Sima
EM-015	Szederjes-tető	674	2211	20.10917	47.88833	01-05-05		4	
EM-016	Mocsárka-hegy	682	2238	21.33833	48.34917	01-05-05		4	Baskó
EM-017	Kámor	661	2169	19.01972	47.97667	01-05-05		4	Nagyoroszi
EM-018	Várhegy	669	2195	20.43583	47.95722	01-05-05		4	Felsőtárkány
EM-019	Szurok-hegy	645	2116	21.37944	48.55722	01-05-05		4	Kéked
EM-020	Regéci várhegy	639	2096	21.34389	48.37806	01-05-05		4	Mogyoróska
EM-021	Pál-hegy	631	2070	21.39389	48.53167	01-05-05		4	Hollóháza
EM-022	Szilvás-kő	625	2051	19.90083	48.11722	01-05-05		4	Rónafalu
EM-023	Salgó	618	2028	19.84694	48.14444	01-05-05		4	Salgótarján
EM-024	Szokolya	611	2005	21.38	48.3025	01-05-05		4	Erdőhorváti
EM-025	Szokolya	608	1995	21.29917	48.26444	01-05-05		4	Erdőbénye
EM-026	Fertős-tető	604	1982	20.56444	48.51167	01-05-05		4	Jósvafő
EM-027	Havas	599	1965	19.80222	47.83972	01-05-05		2	Gyöngyöspata
EM-028	Somlyó	584	1916	19.84333	48.07778	01-05-05		2	Salgótarján
EM-029	Fekete-hegy	577	1893	21.56194	48.43889	01-05-05		2	Mikóháza
EM-030	Purga	575	1886	19.64333	47.95806	01-05-05		2	Garáb
EM-031	Vecsem-bükk	553	1814	20.72806	48.56417	01-05-05	31-01-07	2	Bódvaszilas
EM-032	Nagy-Papaj	547	1795	21.48639	48.34806	01-05-05		2	Komlóska
EM-033	Ökör-hegy	543	1781	20.16861	48.11389	01-05-05		2	Borsodnádásd
EM-034	Pécs-kő	542	1778	19.83694	48.10278	01-05-05		2	Salgótarján
EM-035	Nagy-hegy	541	1775	21.35583	48.51917	01-05-05		2	Pányok
EM-036	Szanda	529	1736	19.4225	47.91139	01-05-05		2	
EM-037	Tokaji-hegy	528	1732	21.38083	48.12028	01-05-05		2	
EM-038	Korom-tető	527	1730	21.53083	48.51111	01-05-05		2	Füzéradvány
EM-039	Karajsó	524	1719	19.0375	47.99694	01-05-05		2	Nagyoroszi
EM-040	Csengő-tető	522	1713	20.7325	48.47972	01-05-05		2	Martonyi
EM-041	Nagy-kő	520	1707	19.95167	48.09306	01-05-05		2	Bárna
EM-042	Dobogó-tető	517	1696	19.55194	47.97778	01-05-05		2	Hollókő

## Summits on the Air – ARM for Hungary (HA)

Ref.	Name	Alt (m)	Alt (ft)	Longitude East	Latitude North	Valid from DD-MM-YY	Valid to DD-MM-YY	Score	Comment
EM-043	Magas-hegy	514	1686	21.63167	48.40167	01-05-05		2	Sátoralja-újhely
EM-044	Bézma	515	1689	19.59611	47.93028	01-05-05		2	Csethát-szentiván
EM-045	Nagy-hársas	509	1670	19.71	47.83167	01-05-05		2	Jobbágyi
EM-046	Sár-hegy	500	1640	19.9725	47.79528	01-05-05		2	Gyöngyös
EM-047	Kopaszka	498	1634	21.42389	48.36611	01-05-05		1	Háromhuta
EM-048	Kőkapu	496	1627	18.99861	48.01944	01-05-05		1	Drégely-palánk
EM-049	Fekete-hegy	486	1594	19.58972	47.98083	01-05-05		1	Hollókő
EM-050	Baradla-tető	485	1592	20.50472	48.47944	01-05-05		1	Aggtelek
EM-051	Kecske-hát	482	1581	21.61944	48.39556	01-05-05		1	Sátoralja-újhely
EM-052	Berceli-hegy	477	1565	19.41333	47.89028	01-05-05		1	Bercel
EM-053	Cigány-hegy	474	1555	21.355	48.21417	01-05-05		1	Szegilong
EM-054	Sas-bérc	470	1542	19.49083	47.91583	01-05-05		1	Szanda
EM-055	Lóhullás	468	1535	20.07222	48.10889	01-05-05		1	Istenmezeje
EM-056	Farkaslyuk-tető	468	1535	19.77306	47.95889	01-05-05		1	Tar
EM-057	Sátor-hegy	460	1509	21.62472	48.38861	01-05-05		1	Sátoralja-újhely
EM-058	Fekete-hegy	456	1496	21.45611	48.31806	01-05-05		1	Erdőhorváti
EM-059	Hegyes-hegy	458	1502	20.07111	47.91583	01-05-05		1	Parádfürdő
EM-060	Köves-mál-tető	454	1490	20.44722	48.23417	01-05-05	31-01-07	1	Uppony
EM-061	Őr-hegy	452	1483	19.60806	48.03083	01-05-05		1	Nagylóc
EM-062	Dél-hegy	446	1463	19.26194	47.89	01-05-05		1	Alsópetény
EM-063	Fehérlovas	441	1447	20.46389	48.32444	01-05-05		1	Putnok
EM-064	Buda-hegy	440	1444	19.73056	48.01167	01-05-05	31-01-07	1	Márkháza
EM-065	Víz-köz	435	1427	20.44722	48.20639	01-05-05		1	Uppony
EM-066	Piski-hegy	409	1342	19.46111	47.86417	01-05-05		1	Bercel
EM-067	Közép-hegy	413	1357	19.57833	47.92444	01-05-05		1	Csethát-szentiván
EM-068	Nagy-Hallgató	403	1322	19.58	48.16972	01-05-05		1	Nógrád-szakál
EM-069	Krakó	402	1319	21.20611	48.26222	01-05-05		1	Abaúj-szántó
EM-070	Magas-hegy	392	1286	19.5725	47.91528	01-05-05		1	Ecseg
EM-071	Varga-hegy	379	1243	19.23444	47.85944	01-05-05		1	Alsópetény
EM-072	Kása-hegy	364	1194	19.7275	48.13639	01-05-05		1	Karancs-

## Summits on the Air – ARM for Hungary (HA)

Ref.	Name	Alt (m)	Alt (ft)	Longitude East	Latitude North	Valid from DD-MM-YY	Valid to DD-MM-YY	Score	Comment
									lapujtó
EM-073	Darnó-hegy	356	1168	20.16417	47.94389	01-05-05		1	Sirok
EM-074	Cser-hát	349	1145	19.32667	47.92361	01-05-05	31-01-07	1	Szécsénke
EM-075	Farkas-tető	336	1102	21.17028	48.19694	01-05-05		1	Monok
EM-076	Megyer-hegy	303	994	21.5725	48.35833	01-05-05	31-01-07	1	Károlyfalva
EM-077	Nagy-Hárs	840	2754	20.55056	48.09028	01-02-07		8	Bükkszentkereszt
EM-078	Ágasvár	789	2589	19.8275	47.92667	01-02-07		6	Mátraszentistván
EM-079	Bán-hegy	757	2484	21.32889	48.42083	01-02-07		6	Hejce
EM-080	Szár-hegy	743	2437	20.06556	47.87167	01-02-07		6	Kékestető
EM-081	Nagy-Som-hegy	712	2336	20.65806	48.06083	01-02-07		6	Bükkszentkereszt
EM-082	Kelemen széke	704	2309	20.3975	48.06306	01-02-07		6	Istállóskő
EM-083	Miklós-Luga	682	2241	20.58278	48.0125	01-02-07		4	Répáshuta
EM-084	Nagy-Bodzás	668	2191	20.58972	48.04583	01-02-07		4	Bükkszentkereszt
EM-085	Ódor-hegy	660	2133	20.50583	47.98333	01-02-07		4	Bükkszérc
EM-086	Koprina	639	2096	21.4225	48.44278	01-02-07		4	Pálháza
EM-087	Őr-hegy	634	2080	21.47028	48.54444	01-02-07		4	Füzér
EM-088	Lipovec	621	2037	21.51278	48.53917	01-02-07		4	Füzér
EM-089	Eszkála-tető	578	1897	21.47194	48.40083	01-02-07		2	Makkoshotyka
EM-090	Kerek-bükk	569	1867	19.66556	47.98806	01-02-07		2	Garáb
EM-091	Nagy-Fekete-hegy	563	1848	21.43417	48.45333	01-02-07		2	Pálháza
EM-092	Solymos	545	1788	21.40111	48.44417	01-02-07		2	Pálháza
EM-093	Nagy-Hallgató	542	1779	21.56167	48.42889	01-02-07		2	Sátoraljaújhely
EM-094	Ork-hegy	523	1716	21.40083	48.46472	01-02-07		2	Pálháza
EM-095	Barlang-hegy	522	1713	21.44306	48.37111	01-02-07		2	Háromhuta
EM-096	Berva	517	1696	20.375	47.98333	01-02-07		2	Felsőtárkány
EM-097	Csonkás	508	1666	21.25139	48.26111	01-02-07		2	Erdőbénye
EM-098	Cser-hegy	507	1663	21.375	48.47583	01-02-07		2	Telkibánya
EM-099	Som-hegy	503	1650	21.49694	48.45	01-02-07		2	Kishuta
EM-100	Kercseg-tető	503	1649	19.79667	48.13639	01-02-07		2	Salgótarján
EM-101	Dobronya	502	1647	20.12694	48.10806	01-02-07		2	Borsodnádásd
EM-102	Poronya-tető	502	1646	20.49167	48.48278	01-02-07		2	Aggtelek

Ref.	Name	Alt (m)	Alt (ft)	Longitude East	Latitude North	Valid from DD-MM-YY	Valid to DD-MM-YY	Score	Comment
EM-103	Lipinye	485	1590	20.58889	48.50833	01-02-07		1	Jósvafő
EM-104	Galya-tető	484	1587	20.5175	48.47639	01-02-07		1	Aggtelek
EM-105	Hegyeske	481	1579	19.93611	48.0775	01-02-07		1	Bárna
EM-106	Száva-hegy	479	1572	21.58139	48.39694	01-02-07		1	Sátoralja-újhely
EM-107	Csoszota	477	1565	21.4175	48.47028	01-02-07		1	Bózsza
EM-108	Dusa	465	1525	20.70028	48.53639	01-02-07		1	Bódva-szilás
EM-109	Szilvás-tető	464	1522	20.24556	48.07056	01-02-07		1	Egercsehi
EM-110	Gilevár	463	1520	21.47806	48.43083	01-02-07		1	Nagyhuta
EM-111	Három-kő	461	1511	20.45722	48.22917	01-02-07		1	Uppony
EM-112	Kakukk-hegy	455	1493	19.74611	48.02417	01-02-07		1	Márkháza
EM-113	Pitics-hegy	453	1486	20.56444	48.45556	01-02-07		1	Jósvafő
EM-114	Boroszló-fő	445	1459	20.30833	48.17194	01-02-07		1	Ózd
EM-115	Keselyű-bérc	444	1457	20.32222	47.98722	01-02-07		1	Szarvaskő
EM-116	Babar-hegyes	438	1436	20.21333	48.04333	01-02-07		1	Tarnalesz
EM-117	Nagy-Mulató-hegy	406	1332	19.48083	47.88472	01-02-07		1	Buják
EM-118	Bükk-tető	408	1340	20.56472	48.23611	01-02-07		1	Kazinc-barcika
EM-119	Somlyó	397	1302	19.71056	47.79778	01-02-07		1	Apc
EM-120	Golotkafő	390	1280	20.1575	48.22778	01-02-07		1	Hangony
EM-121	Kőbánya	385	1261	19.91972	48.01278	01-02-07		1	Nemti
EM-122	Rózsa-domb	380	1246	20.28528	48.19389	01-02-07		1	Ózd
EM-123	Nagy-Szór	380	1245	19.2975	47.77556	01-02-07	31-03-07	1	Püspök-szilágy
EM-124	Szőlőhegy	376	1233	20.67056	48.41444	01-02-07		1	Szendrő
EM-125	Lahóca	324	1064	20.08528	47.93528	01-02-07		1	Recsk
EM-126	Király-hegy	313	1028	21.55222	48.35028	01-02-07		1	Makkoshotyka
EM-127	Nagy-répás	290	951	21.09611	48.20333	01-02-07		1	Monok
EM-128	Nagy-Várhegy	287	941	20.18722	47.915	01-02-07		1	Sírok

### 3.3 Region Reference - Közép-Dunántúl

Association	Hungary (HA)
Region	Közép-Dunántúl (KD-xxx)
Region Manager	János Koloh, HA4FY [ <a href="mailto:ha4fy@freemail.hu">ha4fy@freemail.hu</a> ]

### 3.3.1 Regional notes

This region is constituted of three counties, Veszprém, Fejér, and Komárom-Esztergom. To the south, the lake Balaton, above it, the Tapolca basin with the sugar-loaf volcanic mountains and the worn-off ridges of the Transdanubian mountains (Bakony, Vértes, Gerecse) form the aspect of this region. The remaining beech- and pine-groves of the former vast forests of the Bakony mountains, the countless caves, the picturesque valleys of the streams Séd and Cuha or the graceful ruins of fortress Csesznek built onto a rock make the Magas-Bakony Nature Conservation Area a preferred target of excursions.

The vast wine-lands of the Balaton-highland and the china manufactured in Herend are probably the most famous cultural treasures of this region.

### 3.3.2 Table of summits

Ref.	Name	Alt (m)	Alt (ft)	Longitude East	Latitude North	Valid from DD-MM-YY	Valid to DD-MM-YY	Score	Comment
KD-001	Kőris-hegy	709	2326	17.75556	47.295	01-05-05		6	Bakony
KD-002	Nagy-Som-hegy	649	2129	17.77795	47.25338	01-05-05		4	Pénzesgyőr
KD-003	Középső-Hajag	646	2119	17.7375	47.18944	01-05-05		4	Hárskút
KD-004	Papod	644	2113	17.85639	47.18056	01-05-05		4	Bakony
KD-005	Gerecse	633	2077	18.48583	47.68056	01-05-05		4	
KD-006	Kab-hegy	596	1955	17.65667	47.04639	01-05-05		2	Bakony
KD-007	Öreg-Futóné	574	1883	18.0325	47.22556	01-05-05		2	Várpalota
KD-008	Öreg Kovács	554	1818	18.42194	47.64333	01-05-05		2	Gerecse
KD-009	Pisznice	545	1788	18.50056	47.69861	01-05-05		2	Gerecse
KD-010	Üsti-hegy	536	1759	17.69556	47.11694	01-05-05		2	Szentgál
KD-011	Agár-tető	511	1677	17.50194	46.96361	01-05-05		2	Sáska
KD-012	Gorba-tető	505	1657	18.4325	47.66139	01-05-05		2	Tardos
KD-013	Zörög-tető	494	1621	17.84861	47.3575	01-05-05		1	Csesznek
KD-014	Nagy-Csákány	487	1598	18.45833	47.50111	01-05-05		1	Vértes
KD-015	Csóka-hegy	479	1572	18.25556	47.37028	01-05-05		1	Vértes
KD-016	Nagy Gete	457	1499	18.68278	47.70889	01-05-05		1	Gerecse
KD-017	Somlyó	448	1470	18.53222	47.57	01-05-05		1	Gerecse
KD-018	Boncsos-tető	447	1467	17.57694	46.91528	01-05-05		1	Monostorapáti
KD-019	Badacsony	437	1434	17.49611	46.80306	01-05-05		1	
KD-020	Somló	432	1417	17.37222	47.14639	01-05-05		1	
KD-021	Recsek-hegy	431	1414	17.85056	47.00139	01-05-05	31-03-06	1	Hidegkút
KD-022	Szent-György-hegy	415	1362	17.44833	46.84111	01-05-05		1	Kisapáti
KD-023	Som-berek	409	1342	18.55028	47.68	01-05-05		1	Gerecse

## Summits on the Air – ARM for Hungary (HA)

Ref.	Name	Alt (m)	Alt (ft)	Longitude East	Latitude North	Valid from DD-MM-YY	Valid to DD-MM-YY	Score	Comment
KD-024	Kő-orra	406	1332	17.32917	46.86639	01-05-05		1	Lesence-istvánd
KD-025	Vaskapu	404	1325	18.77472	47.78667	01-05-05		1	Esztergom
KD-026	Pes-kő	398	1306	18.47361	47.60944	01-05-05		1	Vértestolna
KD-027	Gulács	393	1289	17.50083	46.82917	01-05-05		1	Nemes-gulács
KD-028	Zuppa-tető	384	1260	18.51583	47.50611	01-05-05		1	Szárliget
KD-029	Bondoró-hegy	380	1247	17.57389	46.95611	01-05-05		1	Monostor-apáti
KD-030	Csobánc	375	1230	17.50417	46.87111	01-05-05		1	Diszel
KD-031	Rendeki-hegy	374	1227	17.29833	46.99028	01-05-05		1	Sümeg
KD-032	Öreg-kő	374	1227	18.57472	47.72333	01-05-05		1	Bajót
KD-033	Nagy-Őr-hegy	362	1188	18.62111	47.64056	01-05-05		1	Bajna
KD-034	Meleg-hegy	351	1152	18.59667	47.25833	01-05-05		1	Nadap
KD-035	Tóti-hegy	346	1135	17.52139	46.83639	01-05-05		1	Káptalan-tóti
KD-036	Láz-tető	344	1129	17.52528	46.87944	01-05-05		1	Gyulakeszi
KD-037	Bagó-hegy	343	1125	18.62111	47.58778	01-05-05		1	Gyermely
KD-038	Haláp	331	1086	17.45944	46.92444	01-05-05		1	Zalahaláp
KD-039	Küszöb-orom	322	1056	17.62722	46.84889	01-05-05		1	Révfülöp
KD-040	Örsi-hegy	311	1020	17.53556	46.81556	01-05-05		1	Badacsony örs
KD-041	Hegyesd	280	919	17.51139	46.91389	01-05-05		1	Hegyesd
KD-042	Hálás-tető	242	794	17.43972	46.79583	01-05-05		1	Szigliget
KD-043	Csúcs-hegy	232	761	17.8525	46.90639	01-05-05		1	Tihany
KD-044	Pápavár	531	1742	17.68111	47.23417	01-04-06		2	Bakonybél
KD-045	Ámos-hegy	525	1722	17.93167	47.19861	01-04-06		2	Eplény
KD-046	Mög-szeg	509	1607	17.76361	47.08694	01-04-06		2	Szentgál
KD-047	Tunyok-hegy	504	1654	17.96056	47.22556	01-04-06		2	Eplény
KD-048	Hosszú Vontató	454	1490	18.41167	47.69361	01-04-06		1	Dunaszentmiklós
KD-049	Ráró-hegy	486	1594	18.83306	47.74361	01-04-06		1	Pilisszentlélek
KD-050	Nagy-Tábor-hegy	450	1476	18.44333	47.44472	01-04-06		1	Vérteskozma
KD-051	Nagy-Som-hegy	441	1447	17.84806	47.02056	01-04-06		1	Hidegkút
KD-052	Baglyas-hegy	363	1191	18.20861	47.22222	01-04-06		1	Várpalota
KD-053	Kőszikla	315	1033	18.66472	47.64861	01-04-06		1	Epöl
KD-054	Szamár-hegy	307	1007	18.79806	47.80861	01-04-06		1	Esztergom

### 3.4 Region Reference - Közép-Magyarország

<b>Association</b>	<b>Hungary (HA)</b>
Region	Közép-Magyarország (KM-xxx)
Region Manager	Zoltán Csehók. HA5CQZ [ <a href="mailto:ha5cqz@freemail.hu">ha5cqz@freemail.hu</a> ]

#### 3.4.1 Regional notes

Central Hungary is the smallest of the regions but almost 1/3<sup>rd</sup> of the total population lives here. The region includes Hungary's capital - Budapest. and the County of Pest around the capital. Budapest was created by the unification the three cities of Buda. Óbuda and Pest in the year 1873. Owing to its historical memorials and natural environment. Central Hungary is a very attractive place. To the south. lies the Lowland. to the north and west the mountains Pilis. Buda. Visegrád and Börzsöny. cut in two parts by the river Danube. while to the east. there is the amphitheatre of the Gödöllő-hills. These mountains can be reached very easily from Budapest even for just a short walk.

#### 3.4.2 Table of summits

Ref.	Name	Alt (m)	Alt (ft)	Longitude East	Latitude North	Valid from DD-MM-YY	Valid to DD-MM-YY	Score	Comment
KM-001	Csóványos	938	3077	18.94806	47.94861	01-05-05		10	
KM-002	Pilis	756	2480	18.87278	47.68861	01-05-05		6	
KM-003	Vár-bükk	743	2438	18.8775	47.95778	01-05-05		6	Nagybörzsöny
KM-004	Miklós-tető	724	2375	18.91139	47.97194	01-05-05	31-01-07	6	Kemence
KM-005	Dobogó-kő	700	2297	18.89889	47.71972	01-05-05		6	Pilis
KM-006	Naszály	652	2139	19.15222	47.83361	01-05-05		4	Vác
KM-007	Prédikálószték	640	2100	18.92083	47.73889	01-05-05		4	Pilis
KM-008	Bugyihó	633	2077	18.98861	47.9875	01-05-05		4	Királyháza
KM-009	Nagy-Sas-hegy	608	1995	18.89194	47.8975	01-05-05		4	Nagyirtás-puszta
KM-010	Urak asztala	594	1949	19.00639	47.75361	01-05-05		2	Pilis
KM-011	Szent László-hegy	590	1936	19.00944	47.73333	01-05-05		2	Pilis
KM-012	Bölcső-hegy	587	1926	18.97972	47.69083	01-05-05		2	Lajosforrás
KM-013	Óreg Pap-hegy	567	1860	18.97472	47.74361	01-05-05		2	Pilisszent-lászló
KM-014	Nagy-Kopasz	559	1834	18.86528	47.55167	01-05-05		2	
KM-015	Nyerges-hegy	558	1831	19.05222	47.71889	01-05-05		2	Pilis
KM-016	Kutya-hegy	558	1831	18.85083	47.58917	01-05-05		2	
KM-017	Berseg	549	1801	19.04139	47.72583	01-05-05		2	Pilis
KM-018	Nagy-Kevély	534	1752	18.98472	47.6225	01-05-05		2	Pilis
KM-019	János-hegy	527	1729	18.95917	47.51806	01-05-05		2	



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Ref.	Name	Alt (m)	Alt (ft)	Longitude East	Latitude North	Valid from DD-MM-YY	Valid to DD-MM-YY	Score	Comment
KM-020	Tar Péter-hegy	530	1738	18.95944	47.87806	01-05-05		2	Kóspallag
KM-021	Hármashatár-hegy	495	1624	18.99806	47.55528	01-05-05		1	
KM-022	Hosszú-hegy	489	1604	18.90861	47.66917	01-05-05		1	Pilisszántó
KM-023	Szent Mihály-hegy	487	1598	18.92778	47.77583	01-05-05		1	Nagymaros
KM-024	Nagy-Galla	479	1572	18.82722	47.875	01-05-05		1	Márianosztra
KM-025	Nagy-Hárs-hegy	454	1490	18.95528	47.53361	01-05-05		1	
KM-026	Nagy-Kopasz	447	1467	18.83528	47.64861	01-05-05		1	Piliscsaba
KM-027	Nagy-Kő-hegy	380	1245	19.03667	47.87806	01-05-05		1	Szokolya
KM-028	Margita	344	1129	19.33028	47.64444	01-05-05		1	Szada
KM-029	Iharos	334	1096	18.84667	47.45583	01-05-05		1	Biatorbágy
KM-030	Ágas-hegy	478	1568	18.95194	47.74639	01-04-06		1	Visegrád
KM-031	Bajtemetés	316	1037	19.38528	47.47722	01-04-06		1	Pécel
KM-032	Nagy-Koppány	549	1802	18.85222	47.89889	01-02-07		2	Nagybörzsöny
KM-033	Csák-hegy	378	1239	18.86583	47.855	01-02-07		1	Márianosztra
KM-034	Nagy-Szór	380	1245	19.2975	47.77556	01-04-07		1	Püspökszilágy

### 3.5 Region Reference - Nyugat-Dunántúl

<b>Association</b>	<b>Hungary (HA)</b>
Region	Nyugat-Dunántúl (ND-xxx)
Region Manager	Gábor Donáczy. HA1DTQ [ <a href="mailto:hg1dtg@freemail.hu">hg1dtg@freemail.hu</a> ]

#### 3.5.1 Regional notes

The counties lying at the western border of Hungary - Zala, Vas and Győr-Sopron Counties - form probably the luckiest region of the country. The hills of Zala with their ample harvest, the gentle slopes of the foothills of the Alps, the fields of Kisalföld have always guaranteed subsistence of the people living here, whereas its strong castles and the vicinity of the western world protected it from the suffering caused by the long rule of the Turks which lead to the loss of population at certain parts of the country.

The vertical walls of the Zala Hills were covered by nearly contiguous forests, the remnants of these old pinewoods and beech woods can still be found there.

Its greater towns were significant settlements even during the rule of the Romans, because the Amber-road connecting the North Sea with the Byzantine Empire crossed its area. This region is also well known for its numerous thermal spas.

#### 3.5.2 Table of summits

Ref.	Name	Alt (m)	Alt (ft)	Longitude East	Latitude North	Valid from DD-MM-YY	Valid to DD-MM-YY	Score	Comment
ND-001	Irott-kő	882	2894	16.43417	47.35278	01-05-05		8	Kőszeg (OE/BL-001)
ND-002	Magas-bérc	557	1827	16.46389	47.65167	01-05-05		2	Sopron
ND-003	Köves-tető	445	1460	17.32917	46.81861	01-05-05		1	Vállus
ND-004	Tátika	410	1345	17.25917	46.90611	01-05-05		1	Zalaszántó
ND-005	Hármashatár	384	1260	16.11417	46.86889	01-05-05	01-03-10	1	Felső-szölnök (OE/BL-016)
ND-006	Felső-Csóka-hegy	354	1161	16.29639	47.00361	01-05-05	01-03-10	1	Rábfüzes
ND-007	Vár-hegy	338	1109	16.88194	46.53667	01-05-05		1	Bocska
ND-008	Nyúli-hegy	317	1040	17.66611	47.55861	01-05-05		1	
ND-009	Tukora	313	1027	17.02028	46.56139	01-05-05		1	Újudvar
ND-010	Kandikó	304	997	16.74056	46.81278	01-05-05	31-03-06	1	Dobron-hegy
ND-011	Ság-hegy	279	915	17.11583	47.23028	01-05-05		1	Celldömök
ND-012	Zápolca	249	817	17.03	46.37167	01-05-05	01-03-10	1	Liszó
ND-013	Karácsony-hegy	305	1001	16.88583	46.81611	14-01-06		1	Zalaegerszeg
ND-014	Rezi-tető	431	1414	17.2425	46.85	01-04-06		1	Rezi

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Ref.	Name	Alt (m)	Alt (ft)	Longitude East	Latitude North	Valid from DD-MM-YY	Valid to DD-MM-YY	Score	Comment
ND-015	Várott-hegy	362	1188	17.18778	46.91833	01-04-06		1	Nagygörbő
ND-016	Nagy-Tenke	332	1089	16.50333	46.56667	01-04-06		1	Lendvadedes
ND-017	Bezerédi-hegy	331	1086	17.03778	46.90361	01-04-06		1	Zalaszentgrót
ND-018	Béci-hegy	321	1053	16.71694	46.4725	01-04-06		1	Zajk
ND-019	Kő-hegy	305	1001	16.96861	46.79556	01-04-06		1	Nemessándorhárza
ND-020	Kálmán-hegy	282	925	17.15056	46.83833	01-04-06		1	Nemesbük