



INTERNATIONAL
BEARDED VULTURE
MONITORING

3rd Alpine Bearded Vulture Observation Days

October 11th-12th 2008

(October 10th-19th 2008)

Preliminary Results

A co-operation within the International Bearded vulture Monitoring (IBM) Program
Dr. Richard Zink



**Hohe Tauern National Park / Owl- and Raptor Centre Haringsee
&**

The project partner:

Parc Nationale du Mercantour

Parco Naturale Alpi Marittime

Parc National les Ecrins

Parc National de la Vanoise

Parco Nazionale Gran Paradiso & Provincia Autonoma Valle d'Aosta

A.S.T.E.R.S.

Parco Nazionale dello Stelvio/NP Stilfserjoch

Stiftung Pro Bartgeier

Provincia Autonoma di Trento – Servizio Foreste e Fauna

Scientifically and technically managed by the **Vulture Conservation Foundation (BVCF & FCBV)** and supervised by **ALPARC**

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1 Introduction

In October 2008 the Bearded Vulture network organised the “Alpine Bearded Vulture Observation Days” for the third time. After rather difficult weather conditions during the last count in 2007, the date was shifted from November to mid October for the census. Fortunately the weather has been favourable that time as can be seen in the figure 1. Under these circumstances the Alpine census has lead to extraordinary results. A maximum of observers could be mobilised and a new maximum of birds could be counted within a very short time window of less than 36 hours. Moreover new couples have been identified in each of the four participating countries (A, CH, F, I).

However, for the future we need to improve the management of the census. There are considerable monitoring gaps (e.g. central Switzerland, north-eastern Italy and some parts of Austria) still. The style of data transmitted to the IBM absolutely needs to be standardised.

2 Methods and Data

The aim of the “Alpine Bearded Vulture Observation Days” is to get kind of an index for the Alpine population size. A huge number of observers (scattered all over the Alps during a short time window) is necessary for a large scale census. In total an area of approximately 188.000km² has been covered this year with a minimum of 426 monitoring sites (see below).

The month of October is well suited for the locating of new territories. Nest building, copulations, synchronous flights etc. can be observed best during that time. This year the weather conditions (e.g. air pressure) improved continuously during September. However, the last days of September have been characterized by instable weather conditions and the air pressure dropped significantly. From 3rd to 10th of October the air pressure reached a new maximum which was the basis for much sun shine and generally for stable weather conditions during the weekend of 11th to 12th October.

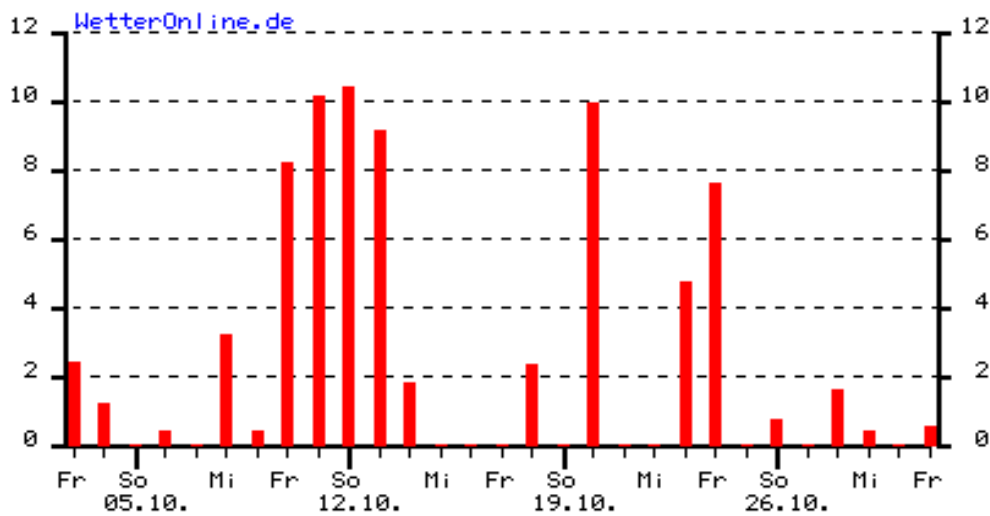


Figure 1: Duration of sunshine (hrs.) in Europe in October 2008 (Source www.wetteronline.de).

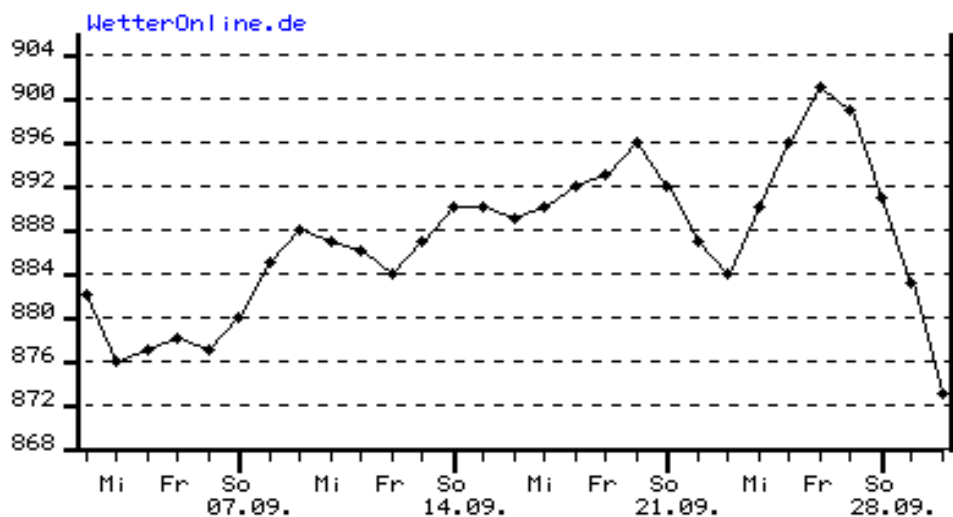


Figure 2: Air pressure (hPa) in Europe in September 2008 (Source www.wetteronline.de).

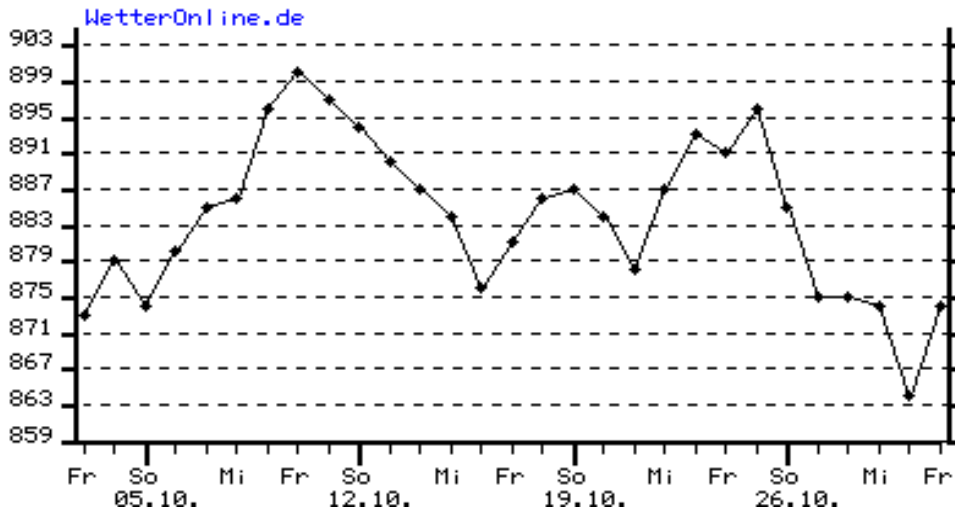


Figure 3: Air pressure (hPa) in Europe in October 2008 (Source www.wetteronline.de).

A short review on the European weather conditions in September and October of the years 2005-2007 (see www.wetteronline.de) showed that the first half of October obviously is most suitable for simultaneous monitoring efforts all over the Alps. It is recommended to choose this period again for the next count in the year 2009 (**10th-11th of October 2009!**).

Since Bearded vultures (especially juvenile and immature birds) tend to shift their habitation rather quickly, the time window was chosen as short as possible to avoid double counts. Only observations made in the core time have been used to evaluate the maximum number of birds.

Table 1 Time window for the simultaneous alpine Bearded vulture count 2008

Period	Date(s)
Puffer time 1	10 th October 2008
Core time	11 th -12 th October 2008
Puffer time 2	13 th -19 th of October 2008

Thanks to the coordination of local administrators the synchronous counts were planned in detail on the local/regional level. In total a minimum of 450 observation sites could be covered during 11th and 19th of October (426 in the core time). A considerable number of people (compare Annex) went into the fields to look for the species. Many of them counted also other birds of prey such as Golden Eagles. For the next census it is recommended to collect data of golden eagles as a reference. This would give an even better opportunity to differentiate between areas without Bearded vultures and those with monitoring deficiencies.

Before the census a data sample table was distributed as a format presetting (see below).

Table 2 Data presetting for the observation sites/observers

Team	Person	observation date	local position of observer		observation period	
			Latitude (decimal)	longitude (decimal)	from	to
ASTERS	R.Zink	11.10.2008	46,3242164	8,1254532	08:00	18:30

Unfortunately with some positive exceptions (e.g. ASTERS) this format was not used at all. The analyses thus have been much more time consuming and several mistakes occurred. E.g. the conversion of coordinates between GMS (e.g. 45°12'34,32") to Decimal Degrees (45,203422) has been done wrong. It took several days to find and some more time to harmonize data again. Tools to convert between different coordinate systems can be ordered in the IBM office.

Table 3 Data presetting for the observations

Age	ID/Hypothesis	bird presence		local position of bird	
		from	to	latitude (decimal)	Longitude (decimal)
juv.	mysterybird1	12:30	12:35	46,3242164	8,1254532

The data collected improved considerably compared with the year 2007 because this year the position of observation sites has been collected for the entire study region. Given the number of observers it is possible to differentiate between observation spots with and without observations. Accordingly it is possible to circumscribe the monitoring area and the monitoring effort. These are essential factors to set up an index (e.g. observers/km²). In average 426 observers covered an area of ~188.000km² on 11th and 12th of October. This is one observation site per 441km² which is an area that can be equated with the approximate home range size of Bearded Vulture couples in the Alps.

To simplify identification and to harmonise age determination an identification booklet (produced by the Natural History Museum of Crete / University of Crete and the Hellenic Ornithological Society) was offered at the IBM homepage at www.gyp-monitoring.com. It is available in German, French and Italian language. On the same homepage the latest update of marking pattern used for juvenile/immature vultures is available.



Figure 4: Clipping from the identification guide.

3 Results

Results collected on the local and regional level have been transferred to the IBM office to fuse them on the Alpine level. This information and additional data stored in the IBM data base have been the basis for the census.

3.1 Distribution of observation sites

As can be seen in the figure below the western Alps have been covered rather dense. In contrary huge parts of central Switzerland, northern Italy and Austria (except the region of Hohe Tauern) could be covered only in lower density. For the future it is recommended to close these gaps of monitoring. Furthermore a co-operation with ornithologists in Slovenia should be envisaged (an article in the main Slovenian ornithological magazine is in preparation).



Figure 5: Distribution of observation sites between 10th and 19th of October (n>450).



Figure 6: Distribution of observation sites between 11th and 12th of October (n>426).

The extension of the observation period did not change the over all distribution pattern of monitoring sites.

3.2 Distribution of birds

The over all distribution patterns of birds is rather similar to the distribution of monitoring sites. Thanks to wide spread monitoring efforts it was possible to differentiate between monitoring gaps and not inhabited space in some parts of the Alps. No birds could be identified even though monitoring intensity has been high for example in parts of Haute-Alpes, Valle d'Aosta, Verbano-Cusio-Ossola and Adamello-Brenta. Missing observations in central Switzerland, north-eastern Italy (e.g. Belluno) and parts of Austria (e.g. Vorarlberg and northern Tyrol) could be also due to low monitoring intensity.



Figure 7: Distribution of observation sites between 10th and 19th of October (n=293).



Figure 8: Distribution of birds between 11th and 12th of October (n=239).

3.3 Proportion of age classes

A rather high proportion of observations could be related to adult birds (usually older than 6 years). The small proportion of sub adult or sub adult/adult birds (4th year and older) can be explained by the rather short sub adult phase. Moreover the identification of sub adult birds is most difficult (e.g. no marks). The proportion of immature and juvenile birds met the expectations. The age of about 5% of the birds could not be identified mostly because of observation conditions have been difficult (see Table 4).

Table 4: Age classes of Bearded Vulture observed between 11th and 12th of October 2008 in the Alps.

Age	Observations	
Adult	147	62%
sub adult	21	9%
immature	31	13%
juvenile	29	12%
unknown	11	5%
Total	239	100%

3.4 Birds an Population Size

At least 23 different birds (24%) could be identified within 36 hours. This number does not include all territorial birds which had been identified on a genetic basis earlier. The overall proportion of identified individuals can be expected even higher.

Table 5: Birds which were identified in the period of October 11th-12th (n=23)

date of birth	Name
1988	Baltahazar
1989	Assignat
1989	Colleen
1993	Argentera
1995	Firmin
1996	Andreas Hofer
1998	Jackopt 3
1999	Veronika
2000	Mont-Blanc
2000	Diana-Selvio
2000	Louis
2002	Zebra
2004	Blangiar
2007	Fontville
2007	Romaris
2007	Blick
2008	Nonno Bob
2008	Parouart
2008	Girasole
2008	MGM
2008	Luzi-Albula
2008	Pinzgarus
2008	Rurese

A shift of birds (especially immature individuals) can happen in very short time. For example Pinzgarus (release in Austria 2008) covered a distance of 11,5 km in only 5 Minutes on 12th of October. To avoid double counts therefore only data collected on 11th and 12th of October have been used for the census. In this rather short period a total of 239 observed birds have been reported. When it was not possible to differentiate between two birds they were

counted only once. Not surprisingly the highest number of birds was counted in the surrounding of the two well established population nuclei a) Rhône Alpes / Western Switzerland and b) Eastern Switzerland / Lombardia. A summary of all birds observed and their age class can be seen in the Table below.

Table 6: number of birds identified for each region in the period of 11th-12th of October 2008.

Region	adult	sub adult	immature	juvenile	total
Provence-Alpes Côtes d'Azur	4	2	1	2	9
Piemont	3			1	4
Rhône-Alpes	16	1	4	1	22
Aosta	2		1		3
Western Switzerland	4	2	9	2	17
Eastern Switzerland	9		3	1	13
Lombardia & Trento Alto Adige	9	3	2		14
Austria	5	1	3	2	11
Southern Tyrol		1	1		2
Veneto		1			1
Total	52	11	24	9	96

The proportion of unmarked, unidentifiable birds steadily increases in the Alps. A census of all birds (100%) is not possible in the future. The figures thus have to be understood as kind of an index for the population size. This year the monitoring results of the Alpine count are much better than in the past. Whereas the total number counted in the year 2006 was 69 and in the year 2007 it was not possible to get a number at all **this year it is 96 (!)**.

4 Discussion & Outlook

The Alpine Bearded Vulture Observation Days have become an integrated part of the International Bearded Vulture Monitoring. On the one hand it is a tool to raise public awareness and involve the public into monitoring action. On the other hand the results are valuable to identify new territorial birds, differentiate between birds in close neighbourhood and census the population. Counting results strongly correlate with the weather conditions. According to the experiences up to date it has to be recommended to repeat the Alpine Bearded Vulture Observation Day next year in the first half of October. The best date would be **10th-11th of October 2009**. Next time observations of Golden Eagle should be collected as well. They serve as a kind of reference to distinguish between areas without Bearded Vultures and real monitoring gaps.

The value of monitoring would increase if the location of monitoring spots remains the same in the future. Maybe it is even possible to fill identified monitoring gaps with new observation sites in the future. In any case much attention should be drawn to data format presetting (see below). This is essential to avoid mistakes while summing up results on the Alpine scale. Next year the observations of Golden Eagle should be collected and transmitted to the IBM. They could help to distinguish between areas without Bearded vultures and real monitoring gaps.

4.1 Data standards for the next count 2009

Table 7: Suggested minimum data standard for monitoring sites (observation sites) during the Alpine count.

Latitude	Longitude	Monitoring unit	Team	Observer (s)	date	time from	time until
48°12'34"	6°11'42"	ASTERS	1B	Hans Frey			
48,233424	6,152143	STELVIO	Ortler	Enrico Bassi			

Table 8: Suggested minimum data standards for observations during the Alpine count.

Latitude	Longitude	Age	number of individuals	local ID of individual	Bird ID/Hypothesis	time from	time until	date

5 Acknowledgment

Special thanks go to the IBM Collecting Centres for their cooperation with IBM and for the organisation of the Alpine census on the local and regional level. From the south-west to the north-east of the Alps special thanks shall go to the following people and institutions:

- Mercantour National Park (Alain Morand, Monique Perfus and Francois Breton)
- Alpi Marittime Nature Park (Luca Giraudo and Laura Martinelli) and the Western Italian Observer Network
- Ecrins National Park, Dauphiné observer network (Herve Cortot & Christian Couloumy)
- Regione Valle d'Aosta (Christian Chioso, Nicole Vesan)
- Natural Park Mont Avic (Massimo Bocca)
- The Gran Paradiso National Park (Archaz van Hardenberg, Martino Nicolino & Ramona Viterbi)
- The Vanoise National Park (Jean Pierre Martinot, Henri Suret, Jean Francois Dalix, Sandrine Berthillot and Regis Jordana)
- ASTERS (Marie Zimmermann and Etienne Marle)
- The western Swiss Observer Network (Raphael Arlettaz & Francois Biollaz)
- The Stelvio National Park (Enrico Bassi, Hans-Peter Gunsch and Luca Pedrotti) + Francesca Sotti
- The Provincia Autonoma di Trento – Servizio Foreste e Fauna (Claudio Groff)
- The Stiftung Pro Bartgeier (Daniel Hegglin) and David Jenny-Mettler
- The Hohe Tauern National Park (Ferdinand Lainer, Gunther Gressmann & Michael Knollseisen)

The Vulture Conservation Foundation (BVCF & FCBV) and ALPARC shall be acknowledged for scientific supervision and for setting the framework of the unique Alpine collaboration. Last but not least thanks to the lead partner for the International Bearded Vulture Monitoring the Hohe Tauern National Park that finances a major part of the IBM since many years. Numerous people participated and supported the Alpine Bearded vulture monitoring event 2008. Many of them could not be mentioned or remained unknown to the IBM office. They should be acknowledged just as much as observers reported to the IBM.

6 Annex

6.1 Google Earth Layer (confidential!)

Google Earth gives us new possibilities to visualise data. With help of that tool the Alpine overview of the population becomes easier. However, due to the use of coordinates also the precise location of e.g. couples is transmitted with the file (sensitive information!). Therefore these files are distributed only to local IBM administrators on request and by email. **They have to be kept confidential!**

6.2 Participants/Observers 2008

Table 9: List of participants/observers reported to the IBM office.

Team	Observer (s)	date
Col de Sosay	Besson Germain	11.10.2008
Morsullaz	Bidat Matthieu et Molinaro Emilie	11.10.2008
Montarquis	Hebert Helène et Pierre-Alain Hutter	11.10.2008
Tete des Annes	Mousse Alain et Marie Paule	11.10.2008
Pierre Fendue	Bloino David et Amélie	11.10.2008
Arete des Saix	Mogeny Emile	11.10.2008
Passage du Saix	Jullien Myriam, Jullien Muriel, Gaillard Christian et Tivillier Laura	11.10.2008
Vuarde	Fabre Rémi et Casartelli Albert	11.10.2008
Col de Niard	Annycke Xavier	11.10.2008
Aravis (V du chatelard)	Vieron Stephane et Picamoles Virginie	11.10.2008
Aravis (C Curé)	Zimmermann Marie et Wlodarczyk Audrey	11.10.2008
Col Arpettaz	Mermier Martin et Duc Chantal	11.10.2008
Col de salenton	Rodrigues Daniel et Dauverné Lise	11.10.2008
Clos de sales	Kientz Bernard, Gevaux Michèle et Tabardel Françoise	11.10.2008
ref de grenairon	Mercier Mathias et Charrière pascal	11.10.2008
Lacs d'Anterne	Heuret Jules et Laurençot Cécile	11.10.2008
Tete de Moede	Rezer Antoine et Suscillon Murielle	11.10.2008
Tete de Lassy	Marescaux Fabien et Gay Maxime	11.10.2008
Derochoir	Delomez Laurent	11.10.2008
Les Ayères	Robert Mathieu	11.10.2008
La Tulle (Charvin)	Auzeil Adrien et Thevenot Benoit	11.10.2008
Tete Nord des Fours	Boisset Antoine et Garcel Geoffrey	11.10.2008
Pointe Perfia	Anthoine Fabrice	11.10.2008
Col de Cenize	Genand Bernard et Edith	11.10.2008
Pointe des Places	Jean François Desmet	11.10.2008
Nambride	Marlé Etienne	11.10.2008
Foundation Pro Bearded Vulture	Stefan Blümli	11.10.2008
Foundation Pro Bearded Vulture	David Jenny	11.10.2008
Foundation Pro Bearded Vulture	Fabien Kubli	11.10.2008
Foundation Pro Bearded Vulture	Arturo Plozza	11.10.2008
Foundation Pro Bearded Vulture	Curdin Florineth	11.10.2008
Foundation Pro Bearded Vulture	Daniel Godli	11.10.2008
Foundation Pro	Hans Meili	11.10.2008

Bearded Vulture Foundation Pro	Jon Gross	11.10.2008
Bearded Vulture Foundation Pro	Livio Costa	11.10.2008
Bearded Vulture Foundation Pro	Yvan Schmidt	11.10.2008
Bearded Vulture Foundation Pro	Ernst Gemassmer	11.10.2008
Bearded Vulture Foundation Pro	Andreas Haag	12.10.2008
Bearded Vulture Foundation Pro	Jürg Cambensy	12.10.2008
Bearded Vulture Foundation Pro	Michael Hartmann	12.10.2008
Bearded Vulture Foundation Pro	Katharina Schwab	12.10.2008
Bearded Vulture Foundation Pro	Livio Costa	12.10.2008
Bearded Vulture Foundation Pro	Hans Meili	12.10.2008
Bearded Vulture Foundation Pro	Doris Bertschinger	12.10.2008
Bearded Vulture Foundation Pro	Elsi Dettli	12.10.2008
Bearded Vulture Foundation Pro	Arnold Caminada	13.10.2008
Bearded Vulture Foundation Pro	Bernard Tschopp	14.10.2008
Bearded Vulture Foundation Pro	Andrina Heinrich	15.10.2008
Bearded Vulture Foundation Pro	Thomas Wehrli	15.10.2008
Bearded Vulture Foundation Pro	Thomas Wehrli	15.10.2008
Bearded Vulture Foundation Pro	Thomas Wehrli	15.10.2008
Bearded Vulture Foundation Pro	Thomas Wehrli	15.10.2008
Bearded Vulture Foundation Pro	Doris Bertschinger	15.10.2008
Bearded Vulture Foundation Pro	Martin Leicht	16.10.2008
Bearded Vulture Foundation Pro	Jürg Cambensy	16.10.2008
Bearded Vulture Foundation Pro	Curdin Florineth	16.10.2008
Bearded Vulture Foundation Pro	Mario Theus	16.10.2008
Bearded Vulture Foundation Pro	Martin Conzelmann	17.10.2008
Bearded Vulture Foundation Pro	Reto Bass	17.10.2008
Bearded Vulture Foundation Pro	Toni Theus	17.10.2008
Bearded Vulture Foundation Pro	David Jenny	18.10.2008
Bearded Vulture Foundation Pro	Felix Flachsmann	18.10.2008
Bearded Vulture Foundation Pro	Guolf Denoth	18.10.2008

Foundation Pro Bearded Vulture	Stefano Cavadini	19.10.2008
Foundation Pro Bearded Vulture	Monika Illien	19.10.2008
Langtaufers	Ja Joos	11.10.2008
Planmort	Ja Folie	11.10.2008
Rojen	Fst Zegg	11.10.2008
Grauner Alpe	Fst Köllemann	11.10.2008
Planeil - Ruben	Amt J+F Bliem	11.10.2008
Matsch – Gonda	Fst Gentelini	11.10.2008
Schlinig – Kälberberg	Fst Peer	11.10.2008
Avingatal	Ja Rauner	11.10.2008
Matsch – Mut	Ja Weisenhorn	11.10.2008
Schlandraun	Ja Sprenger	11.10.2008
Gadria	Ja Götsch HJ	11.10.2008
Schönputz – Vetzaneralpe	Fst Stillebacher	11.10.2008
Vermoi – Ochsenpichl	Ja Wörnhardt	11.10.2008
Trumsberg – Stierberg	Ja Telser	11.10.2008
Tomberg – Zirmtal	Fst Klotz	11.10.2008
Schnals – Penaud	Fst Rainer	11.10.2008
Naturns - Dickeralpe	Ja Gerstgrasser	11.10.2008
Pfossental	Ja Santer	11.10.2008
Vernagt	Ja Santer	11.10.2008
Kurzras	Ja Götsch W.	11.10.2008
Col du Barbier	Pierre LACOSSE	11.10.2008
Saint-André	Mathieu BEURRIER	11.10.2008
refuge de la Valette	Karine RENAUD	11.10.2008
refuge de Plaisance	Alexandre GARNIER	11.10.2008
cabane du Vallonnet	Caroline EMPEREUR	11.10.2008
refuge la Martin	Erick LECOCQ	11.10.2008
Col des Frettes	Sandrine Berthillot	11.10.2008
Lac de la Plagne	Bénédicte CHOMEZ	11.10.2008
La Gurraz	Mallorie ?	11.10.2008
Chapieux	Régis JORDANA	11.10.2008
Col Croix du Bonhomme	Mickaël DELORME	11.10.2008
Vallon de Bellaval	M-L ULLIEL	11.10.2008
Refuge Robert Blanc	Annie FERBAYRE	11.10.2008
Col de la Seigne	Christian BALAIS	11.10.2008
La Daille	Mylène Herrmann	11.10.2008
Sassière	Thierry ARSAC	11.10.2008
Bellecombe	Séverine MAGNOLION	11.10.2008
Chapelle saint- Barthélémy	Thomas Suiffer	11.10.2008
Termignon	Jean-François Dalix	11.10.2008
La Purra	Jean-Luc Etiévant	11.10.2008
Ouille des Reys	Roselyne Anselmet	11.10.2008
Chapelle saint- Barthélémy	Marc Konareff	11.10.2008
Rocher du château	Olivier Trompette	11.10.2008
Vincendières	Baki Benyoub	11.10.2008
Le Chatelard	Franck Parchoux	11.10.2008
Cuchet	Didier Malrat	11.10.2008

Hohe Tauern NP	Johann Plankensteiner	11.10.2008
Hohe Tauern NP	Carola Trojer	11.10.2008
Hohe Tauern NP	Franz Köll	11.10.2008
Hohe Tauern NP	Emanuel Egger	11.10.2008
Hohe Tauern NP	Rosa Steiner	11.10.2008
Hohe Tauern NP	Gunther Greßmann/Andrea Schett	11.10.2008
Hohe Tauern NP	Benjamin Trager	11.10.2008
Hohe Tauern NP	Karl Mair	11.10.2008
Hohe Tauern NP	Christian Riepler	11.10.2008
Hohe Tauern NP	Andreas Angermann	11.10.2008
Hohe Tauern NP	Bekannte von Michi	11.10.2008
Hohe Tauern NP	Markus Lackner	11.10.2008
Hohe Tauern NP	Walter Pucher	11.10.2008
Hohe Tauern NP	Erwin Haslacher	11.10.2008
Hohe Tauern NP	Franz Reiner	11.10.2008
Hohe Tauern NP	Egbert Kneissl	11.10.2008
Hohe Tauern NP	Lainer Ferdinand	11.10.2008
Hohe Tauern NP	Kötschach 1, von Feri	11.10.2008
Hohe Tauern NP	Anlauf 1, von Feri	11.10.2008
Hohe Tauern NP	Kolmkar 1, von Feri	11.10.2008
Hohe Tauern NP	Maria Hauser	12.10.2008
Hohe Tauern NP	Ruth Bstieler	12.10.2008
Hohe Tauern NP	Gunther Greßmann	12.10.2008
Hohe Tauern NP	Karl Mair	12.10.2008
Hohe Tauern NP	Franz Reiner	12.10.2008
Hohe Tauern NP	Lainer Ferdinand	12.10.2008
Hohe Tauern NP	Amertal 1, von Feri	12.10.2008
Hohe Tauern NP	Franz Köll	12.10.2008
Hohe Tauern NP	Krumbacher Paul	12.10.2008
Hohe Tauern NP	Holländer	12.10.2008
Hohe Tauern NP	Johann Gantschnig	12.10.2008
Hohe Tauern NP	Unbekannt	12.10.2008
Alpe Devero	Radames Bionda	11.10.2008
Valle Formazza - Morasco	Mauro Imboden	11.10.2008
Valle Formazza - Talli	Vilmo Alberti	11.10.2008
Trontano	Elena Lux	11.10.2008
Ornavasso - M.te Massone	Borretti Mauro	11.10.2008
Valle Anzasca - Pizzo Nero	Enrico Bozzola	11.10.2008
Valle Cannobina - M.ti di Cursolo	Giuseppe Badini	11.10.2008
Valle Vigezzo - Agrasino, Bagni di Craveggia	Riccardo Maccagno	11.10.2008
Valle Divedro - Teggiolo	Osvaldo Lucini	11.10.2008
Valle Bognaco - Cima Lariè	Salvatore Attinà - Paolo Taffi	11.10.2008
Vallone d'Arnas	Daniele Reteuna	11.10.2008
Pian Ciaramella	Maurizio Chiereghin	11.10.2008
Val Grande di Lanzo	Paolo Tordella	11.10.2008
Bec di Mea	Margherita Chiola - Alessandro Fappani	11.10.2008
Valle Susa - Alpe Carolei - Novalesa	Giuseppe Ferrero	11.10.2008

Valle Susa - Cà d'Asti - Mompantero	Graziano Borello	11.10.2008
Alpe Costa Rossa - Mompantero	Valter Primela	11.10.2008
Colle Croce di Ferro - Bussoleno	Mauro Lussiana	11.10.2008
Valle Chisone -Pian dell'Alpe - Usseaux	Pane Andrea	11.10.2008
Valle Chisone - Saret del Campo - Fenestrelle	Vita Arcangelo	11.10.2008
Vallone Rochemolles - Valfredda	Dijaux A. - .	11.10.2008
Vallone di Rochemolles - Bardonecchia	Massara P.	11.10.2008
Vallone della Rho	Perron S.	11.10.2008
Valfrejus Pian delle Stelle	Corti - Kurskinski	11.10.2008
Pian del colle - Valle stretta	Cardinali L.	11.10.2008
Vallone Grange della valle	Cellerino A.	11.10.2008
Vallone Rio Secco - Pramand	Roux Poignant G.	11.10.2008
Forte Foens	Tambone C.	11.10.2008
Testa assietta - Gran serin	Ramassa E. - Rosso M.	11.10.2008
Val Clarea - Quattro denti	Molin C.	11.10.2008
Punta Gardiol Vallone Gran d'hoche - Chaberton - croce san giuseppe	Giunti L.	11.10.2008
Rocca Bianca - Conca Cialancia (Perrero)	U.P.G.Lingua Antonio + GEV Savoldi Lidia	11.10.2008
Valle Argentera (Sauze di Cesana)	Alberti Silvia + Arlaud Clara	12.10.2008
Val Thuress (Cesana)	Alberti Silvia + Arlaud Clara	12.10.2008
Colle Pis, Morefreddo, Colle del Morefreddo (Pragelato)	Rosselli Domenico + Usseglio Bruno	12.10.2008
Prali- Bou du Col - Gran Guglia -Lago Verde (Prali)	Aldo Rizzo	12.10.2008
Vallone del Laux, colle Albergian (Usseaux)	Alberti Silvia	12.10.2008
Berg.Sellette (Prali)	Susy Pascal	12.10.2008
Balziglia - cascata del Pis (Massello)	Ficetto Giorgio	11.10.2008
Vallone del Ghinivert (Massello)	Boetto Enrico + Quercia Ilenia	11.10.2008
Vallone di Rodoretto - colle di Rodoretto (Prali)	Arlaud Clara	11.10.2008
Faussimagna-Bergeria delle Rocce (Pragelato)	Bourlot Marcello	11.10.2008
Alpe Muret -Colle della Buffa - Val Germanasca (Perrero)	Di Gregorio Renzo, Giustetto Guido	11.10.2008
colle Vaccera - Angrogna	R.Bertin, R. Bertin	11.10.2008
Vandalino - Torre Pellice	M. Gonin	11.10.2008

Sea Bianca	F.Granero, Iole Bertinat	11.10.2008
Colle delle Faure - Bobbio Pellice	L.Giovo. N. Basso	11.10.2008
Alpe Crosenna (Bobbio P.)	S. Mondon, M. Boschi	11.10.2008
Alpe la Roussa - Bobbio Pellice	F. Avondetto,	11.10.2008
Valle Po - Meire Tirolo - Oncino	Daniele Garabello, Marco Rastelli, Luca Valenti e Gianni Salvatico	11.10.2008
Valle Varaita - Pontechianale	Massimo Pettavino	11.10.2008
Valle Varaita - Bellino	Fabrizio Blangetti	11.10.2008
Valle Maira - Ussolo	Giorgio Perello	11.10.2008
Valle Maira - Acceglio	Federica Picco	11.10.2008
Valle Maira - Chiappera	Mauro Castelli	11.10.2008
Valle Stura - Riofreddo	Luca Giraudo	11.10.2008
Valle Stura - Pietraporzio	Marco Dogliotti	11.10.2008
Valle Stura - Bagni	Roberto Rubbini	11.10.2008
Valle Stura - Colle della Lombarda	Michelangelo Giordano	11.10.2008
Valle Stura - Sant'Anna	Alessandro Qualich	11.10.2008
Valle Gesso - Isterpis	Valter Roggero, Mario Dalmasso	11.10.2008
Valle Pesio - Punta Mirauda	Franco Delpiano	11.10.2008
Valle Ellero - Pian Marchisa	Erik Rolando	11.10.2008
Valle Tanaro - Colla di Carnino	Giuseppe Gerbotto	11.10.2008
Val Ferret	Corpo Forestale della Valle d'Aosta	11.10.2008
Val Veny	Azienda faunistico-venatoria Courmayeur Mont Blanc Nature	11.10.2008
La Thuile (Loc. Pont Serrand, Riondet)	Corpo Forestale della Valle d'Aosta	11.10.2008
Valdigne	Corpo Forestale della Valle d'Aosta	11.10.2008
Vallone di Vertosan	Corpo Forestale della Valle d'Aosta	11.10.2008
Media Valgrisenche	Corpo Forestale della Valle d'Aosta	11.10.2008
Alta Valgrisenche	Corpo Forestale della Valle d'Aosta	11.10.2008
Alta Valle di Rhemes	Corpo Forestale della Valle d'Aosta	11.10.2008
Vetan	Corpo Forestale della Valle d'Aosta	11.10.2008
Vallone del Gran S. Bernardo	Corpo Forestale della Valle d'Aosta	11.10.2008
Vallone del Gran S. Bernardo	Corpo Forestale della Valle d'Aosta	11.10.2008
Vallone del Gran S. Bernardo	Corpo Forestale della Valle d'Aosta	11.10.2008
Valpelline	Corpo Forestale della Valle d'Aosta	11.10.2008
Valpelline	Corpo Forestale della Valle d'Aosta	11.10.2008
Valpelline	Corpo Forestale della Valle d'Aosta	11.10.2008
Valle di St. Barthelemy (Mont Faroma)	Corpo Forestale della Valle d'Aosta	11.10.2008
Media-alta Valle di St. Barthélemy	Corpo Forestale della Valle d'Aosta	11.10.2008
Valle di Clavalité	Corpo Forestale della Valle d'Aosta	11.10.2008
Alta Valtournenche	Corpo Forestale della Valle d'Aosta	11.10.2008
Alta Valtournenche	Corpo Forestale della Valle d'Aosta	11.10.2008
Alta Valtournenche	Corpo Forestale della Valle d'Aosta	11.10.2008
Valle d'Ayas	Corpo Forestale della Valle d'Aosta	11.10.2008

Valle d'Ayas	Corpo Forestale della Valle d'Aosta	11.10.2008
Media Valle di Gressoney	Corpo Forestale della Valle d'Aosta	11.10.2008
Alta Valle di Gressoney	Corpo Forestale della Valle d'Aosta	11.10.2008
Alta Valle di Gressoney	Corpo Forestale della Valle d'Aosta	11.10.2008
Alta Valle di Gressoney	Corpo Forestale della Valle d'Aosta	11.10.2008
Alta Valle di Gressoney	Corpo Forestale della Valle d'Aosta	11.10.2008
Media Valle di Champorcher	Corpo Forestale della Valle d'Aosta	11.10.2008
Alta Valle di Champorcher	Parco Naturale Mont Avic	11.10.2008
Alta Valle di Champorcher	Parco Naturale Mont Avic	11.10.2008
Alta Valle di Champorcher	Parco Naturale Mont Avic	11.10.2008
Alta Valle Chalamy	Parco Naturale Mont Avic	11.10.2008
JAUSIERS	110Les Sagnes	11.10.2008
SAINT-PAUL-SUR-UBAYE	11La Blave	11.10.2008
SAINT-PAUL-SUR-UBAYE	12Plan de Parouart	11.10.2008
SAINT-PAUL-SUR-UBAYE	13Maurin	11.10.2008
SAINT-PAUL-SUR-UBAYE	14Le Châtelet	11.10.2008
SAINT-PAUL-UBAYE	15Fouillouse	11.10.2008
MEYRONNES	16Saint-Ours	11.10.2008
LARCHE	17Pré la Font	11.10.2008
LA CONDAMINE	18Chapelle Ste-Anne	11.10.2008
SAINT-PAUL-SUR-UBAYE	19Col de Vars	11.10.2008
ALLOS	21Cabane a sel du Lac Allos	11.10.2008
COLMARS-LES-ALPES	22Tête des Muletiers	11.10.2008
ALLOS	23Sommet de Valdemars	11.10.2008
THORAME-HAUTE	24Courradour	11.10.2008
PEONE	31Estrop	11.10.2008
CHATEAUNEUF-D'ENTRAUNES	32Le Cougnet	11.10.2008
ENTRAUNES	33La Frache	11.10.2008
ENTRAUNES	34Tête Moulone	11.10.2008
ROUBION	35Barres du Démant	11.10.2008
	36Tête de Charnaille	11.10.2008
SAINT-ETIENNE-DE-TINEE	41Le Pra	11.10.2008
SAINT-ETIENNE-DE-TINEE	43Mikéou	11.10.2008
SAINT-ETIENNE-DE-TINEE	44Granges de Roya	11.10.2008
SAINT-ETIENNE-DE-TINEE	46Bonette-Fourches	11.10.2008
BEUIL	51Mont Brussière	11.10.2008
ROUBION	52Tête de Varéglios	11.10.2008
ISOLA	55Col de la Lombarde	11.10.2008
RIMPLAS	57Fort de Rimplas	11.10.2008
VALDEBLORE	61Col de Veillos	11.10.2008
SAINT-MARTIN-VESUBIE	62Sentier Chalet Vidron	11.10.2008

SAINT-MARTIN-VESUBIE	63La Madone de Fenestre	11.10.2008
BELVEDERE	64Engiboï	11.10.2008
BELVEDERE	65Vacherie de la Coulette	11.10.2008
SAINT-MARTIN-VESUBIE	68Lac Nègre	11.10.2008
TENDE	71Paracouerte	11.10.2008
TENDE	72Cime de Pépin	11.10.2008
LA BRIGUE	73Cime de Martre	11.10.2008
SAORGE	74Escandail	11.10.2008
Gemipass	A. Tilquin	11.10.2008
Tseuzier	B. Michellod, C. Bottani, D. Michellod	11.10.2008
La Combe / Le Godey	B. Posse, N. Rieille	11.10.2008
Anthème	B.O. Demory	11.10.2008
La Louère	F. Biollaz, S. Cotting, S. Biolley	11.10.2008
Schilthorn	J. Schoop, W. Karlen	11.10.2008
Chaux d'Anthème	M. Cheseaux	11.10.2008
Bundalp	M. Schaad, A. Jacob	11.10.2008
Sanetsch / L'Arpille	N. Dussex	11.10.2008
Col du Jorat	N. Jordan	11.10.2008
Üschenental	N. Reusser	11.10.2008
L'Œil de Bœuf	P.A. Pchon	11.10.2008
Chamoson	R. Arlettaz	11.10.2008
Col de la Croix	S. Antoniazza	11.10.2008
Vallon de Nant	S. Nusslé, S. Gonseth, V. Nusslé	11.10.2008
Col de Bretolet	U. Schaffner, P. Bosshard	11.10.2008
Lac supérieur de Fully	A. Tilquin	12.10.2008
Barrage de Mauvoisin	B. Gabbud	12.10.2008
Sex Rouge	B. Posse, N. Rieille	12.10.2008
Gemmipass	D. Roten	12.10.2008
Salanfe	E. Revaz	12.10.2008
Montbas	F. Biollaz, S. Cotting, S. Biolley	12.10.2008
Oeschinensee	J. Schoop, W. Karlen	12.10.2008
Col de Coux	M. Cheseaux	12.10.2008
Schilthorn	M. Schaad, A. Jacob	12.10.2008
Col des Eaux Froides	N. Dussex	12.10.2008
Spillgarten	P. Frei, T. Fankhauser, L. Rey	12.10.2008
L'Œil de Bœuf	P.A. Pchon	12.10.2008
Chamoson	R. Arlettaz	12.10.2008
Col de la Croix	S. Antoniazza	12.10.2008
Vertsan	S. Denis	12.10.2008
Vallon de Nant	S. Nusslé	12.10.2008
Col de Bretolet	U. Schaffner, P. Bosshard	12.10.2008
Livigno PNS	Sprenger	11.10.2008
Livigno PNS	Stefanelli	11.10.2008
Livigno PNS	Bassi	11.10.2008
Livigno PNS	Azzolini	11.10.2008
Livigno PNS	Angerer	11.10.2008
Livigno PNS	Floreani	11.10.2008
Livigno PNS	Silvestri	11.10.2008
Valdidentro PNS	Moranduzzo	11.10.2008
Valdidentro PNS	De Martin	11.10.2008
Valdidentro PNS	Ghisla - Salmaso	11.10.2008

Valdidentro PNS	Regazzoni	11.10.2008
Valdidentro PNS	Sanetti, Molinari	11.10.2008
Valdidentro PNS	Martinelli	11.10.2008
Valdidentro PNS	Ferloni - Corlatti	11.10.2008
Valdidentro PNS	Bresemi	11.10.2008
Valdidentro PNS	Urbani - Crovetto	11.10.2008
Valdidentro PNS	Rastelli	11.10.2008
Valdidentro PNS	Palfrader	11.10.2008
Valdidentro PNS	Ghilotti - Scarafoni	11.10.2008
Sondalo PNS	Zubiani - G. Bazzi	11.10.2008
Sondalo PNS	Giandomenico - Diana	11.10.2008
Sondalo PNS	Favaron - Servi	11.10.2008
Sondalo PNS	Santelli - Pizzato	11.10.2008
Sondalo PNS	Crippa	11.10.2008
Sondalo PNS	Pirrotta	11.10.2008
Sondalo PNS	L. Bazzi	11.10.2008
Sondalo PNS	Belardi	11.10.2008
Sondalo PNS	Pedroli - Mingarelli	11.10.2008
Sondalo PNS	Santinelli	11.10.2008
Sondalo PNS	Giumelli - Facoetti	11.10.2008
Sondalo PNS	Fasoli	11.10.2008
Sondalo PNS	Cusini - Martinoli	11.10.2008
Valfurva PNS	Pozzi - Nicoli	11.10.2008
Valfurva PNS	Marcolli - L. Casali	11.10.2008
Valfurva PNS	Alberti - Macchi	11.10.2008
Valfurva PNS	Galli - P. Casali	11.10.2008
Valfurva PNS	Ragaglia, Falgari	11.10.2008
Valfurva PNS	Trotti	11.10.2008
Valfurva PNS	Mattarei	11.10.2008
Temù PNS	Zanardini	11.10.2008
Temù PNS	Cao - Sandrini	11.10.2008
Temù PNS	Pederagnana - Marconi	11.10.2008
Temù PNS	Micheli - Aiardi	11.10.2008
Temù PNS	Bertoli - Tavelli	11.10.2008
Temù PNS	Chemollo	11.10.2008
Temù PNS	Christille	11.10.2008
Temù PNS	Lieta	11.10.2008
Temù PNS	Contrini - Piazzani G.P.	11.10.2008
Temù PNS	Faifer - Ducoli	11.10.2008
Temù PNS	Gionta	11.10.2008
Temù PNS	Caserotti	11.10.2008
Temù PNS	Armanni - Ballerini	11.10.2008
Temù PNS	Armanaschi	11.10.2008
Temù PNS	Pasqua	11.10.2008
Temù PNS	Capelli - Piazzani G.F.	11.10.2008
Trentino PNS	Tasin - Silvestri	11.10.2008
Trentino PNS	Sotti	11.10.2008
Trentino PNS	Pegolotti - Dallabrida	11.10.2008
Trentino PNS	Pedri	11.10.2008
Trentino PNS	Bragalanti	11.10.2008
Trentino PNS	Mochen	11.10.2008
Trentino PNS	Manini	11.10.2008

Trentino PNS	Gionta	11.10.2008
Trentino PNS	Delpero	11.10.2008
Trentino PNS	Framba	11.10.2008
Trentino PNS	Stanchino	11.10.2008
Trentino PNS	Taddei	11.10.2008
Trentino PNS	Alberti	11.10.2008
Trentino PNS	Bortolameolli – Manaigo	11.10.2008
Trentino PNS	Barbieri - Callovi	11.10.2008
Trentino PNS	Canella	11.10.2008
Trentino PNS	Piazzzi -Pedergrana	11.10.2008
Trentino PNS	Dalla Valle	11.10.2008
Trentino PNS	Baggia	11.10.2008
Trentino PNS	Fellin	11.10.2008
Adamello Brenta	Volcan	11.10.2008
Klaus Bliem	Klaus Bliem	17.10.2008
Ja Joos Erich	Ja Joos Erich	10.10.2008
Col du Glandon	Durr Michel	11.10.2008
	Ravary CatherineBarteï Christine Cachat Jean-Claude Cachat Dominique	
Taroche		11.10.2008
Col de L'Echelle	Niermont Jean-Pierre Niermont Maryse Valérie PinetGérard BriardConseil Alfred Evelyne et Monique	11.10.2008
Les Alberts	Boczmak	11.10.2008
Village	Yves ZabardiFabien SicardSylvie Mosdale	11.10.2008
Pont de l'Alpe	Christol BernardVolontaireVolontaire	11.10.2008
L'Aiguillon	Delenate Blandine	11.10.2008
La Buffe	Vannard Eric	11.10.2008
Laval	Pierre BonnotStéphanie Besson	11.10.2008
Gran Aréa	Gillot PhilippeGillot Maxence	11.10.2008
Les Gondoins	André PhilippeFiorasoPhilippe	11.10.2008
Les Roranches	Marc CorailJamous Marie-PierreJamous HélèneClerc Olivier	11.10.2008
Prapic	Papet RodolpheDeleuil Bernard	11.10.2008
Chaumette	Thomas Bernard	11.10.2008
Tête de la Clappe	Didier BRUGOTMarie-Cécile BRUGOTBrigitte EMMERY	11.10.2008
Col du Festre	Santini Jean-LouisPaul VEDELJoëlle SERVOZMarie-George SERIE	11.10.2008
Col de la Saume	Eliane DUPLANDAude PAPPEHélène CLAVEAU	11.10.2008
Col de l'Aup	Pierre REYNAUDClaude-Marie COTTEREAUChristiane SERRES	11.10.2008
L'Alp	Combrisson DamienLecomte ElisabethFrin bernardFaure Aline	11.10.2008
Couleau	Bouche MichelBoulangeat LouiseChristophe	11.10.2008
Montdauphin	Couloumy ChristianBertrand Jean-Michel	11.10.2008
L'Eyrette	Charron JulienCastelle DidierGrobois Anne	11.10.2008
Pra Prunier	Conraud RenéIsnard FlorenceArnaudEric	11.10.2008
Chapelle Saint-Pierre	Coulon MirielleFlorent	11.10.2008
Col du Parpaillon	Bouvier MartialSautour Anne-FleurGrassier Sophie	11.10.2008
Saluces	Bernard PierreBournat Jean-MarieBuisson Véronique	11.10.2008
Pré Gentil	Albert Christophe	11.10.2008
Vénéon	Roche Daniel	11.10.2008
Rif Tort	Martin Jean-PaulVolontaire	11.10.2008
Fond du Ferrand	Pinel Jean-Luc	11.10.2008
Dôme des Rousses	Dérivaz SergeVolontaire	11.10.2008
Chapelle de Clausis	Samuel MICHELNadine BEAUFILSCédric BOUCHER	11.10.2008
Eysseulières	Natacha HEITZSébastien SLIVA	11.10.2008
Val d'Escreins	Jonathan ATHIMON	11.10.2008
Col Agnel	Lise DUCONTE	11.10.2008

Combe Guyon	Marion DigierOlivier Daeye	11.10.2008
Le Paletas	Nadine Geoffroy Volontaire	11.10.2008
Le Désert	Puissant Joël	11.10.2008
Jas des Portes	Bulle TommyVolontaire	11.10.2008
Col des Vachers	GMVolontaire	11.10.2008
Barthalay	Maillet Thierry	11.10.2008
Pousterle/Fournel	Nicolas Marie-Geneviève	11.10.2008
Champcella	Faure Joël	11.10.2008
Tramouillon	Chevalier Robert	11.10.2008
Dormillouse	Manzon Louis	11.10.2008
Mt Ventoux	Corsange MichèleMagub Michel	11.10.2008
Col du Rousset	Choisy Jean-Pierre	11.10.2008
Pas du Follet	Duchamp Jacques	11.10.2008
But St Genis	Fayolas Didier	11.10.2008
Grand Delmas	Oboussier FrancisVolontaire	11.10.2008
	David Gilbert	11.10.2008
Col de Tourniol	Hargreaves AndrewBresson Hélène	11.10.2008
plateau *des Ramées	Erige de Thiersant9 observateurs LPO Isère	11.10.2008
Arête du Gerbier	Baloge David	11.10.2008
Vallon de Combau	Chamous Hélène	11.10.2008
Tête de la Dame	Riner Pierre	11.10.2008
Grand Veymont	Locatelli Rémy	11.10.2008
Archiane	Fourgous Bernard	11.10.2008
Chantelouve	Mailys PoyetKarine DrostFrançoise FrossardFrançoise Chevalier	11.10.2008
NP Stilfserjoch	Eugen Wallnöfer, Gander Heinrich, Pentiori Christian, Florian Winkler, Buffa Andrea, Fritz Fliri	14.10.2008
NP Stilfserjoch	Eugen Wallnöfer, Gander Heinrich, Pentiori Christian, Florian Winkler, Buffa Andrea, Fritz Fliri	15.10.2008

6.3 Information stored in the IBM data base

Table 10: Summary of the data stored in the IBM data base for the period 11th to 12th of October 2008.

ID	Date	Age	Bird Identity	Community	Country
1	11.10.2008	immature oder subadult (?)		Ardez	Switzerland
2	11.10.2008	juvenile (1.y.)	Parouart - ID:W55	Saint-Paul-sur-Ubaye	France
3	11.10.2008			La Punt Chamues-ch	Switzerland
4	11.10.2008	adult (>6.y.)		Saint-Paul-sur-Ubaye	France
5	11.10.2008	adult (>6.y.)		Saint-Martin-Vésubie	France
6	11.10.2008	adult (>6.y.)		Matrei in Osttirol	Austria
7	11.10.2008			CONDAMINE-CHATELARD	France
8	11.10.2008	adult (>6.y.)		Zernez	Switzerland
9	11.10.2008	adult (>6.y.)		Sta. Maria Val Müstair	Switzerland
10	11.10.2008			Ramosch	Switzerland
11	11.10.2008	juvenile (1.y.)		Clavans-en-Haut-Oisans	France
12	11.10.2008	subadult (5./6.y.)		Isola	France
13	11.10.2008	adult (>6.y.)		Saint-Paul-sur-Ubaye	France
14	11.10.2008			CONDAMINE-CHATELARD	France
15	11.10.2008	juvenile (1.y.)		Pontresina	Switzerland
16	11.10.2008	subadult (4.y.)		Beuil	France
17	11.10.2008	juvenile (1.y.)		Beuil	France
18	11.10.2008	adult (>6.y.)		CONDAMINE-CHATELARD	France
19	11.10.2008			Beuil	France

20	11.10.2008	juvenile (1.y.)	Nonno Bob - ID:548	Beuil	France
21	11.10.2008	juvenile (1.y.)	Nonno Bob - ID:548	Beuil	France
22	11.10.2008			Roubion	France
23	11.10.2008			CONDAMINE-CHATELARD	France
24	11.10.2008	juvenile (1.y.)	Nonno Bob - ID:548	Beuil	France
25	11.10.2008	subadult (4.y.)		Beuil	France
26	11.10.2008	adult (>6.y.)		Saint-Paul-sur-Ubaye	France
27	11.10.2008	adult (>6.y.)		Rhemes-Notre-Dame	Italy
28	11.10.2008	adult (>6.y.)		Rhemes-Notre-Dame	Italy
29	11.10.2008	subad or adult (?)		Sur	Switzerland
30	11.10.2008	juvenile (1.y.)	Nonno Bob - ID:548	Beuil	France
31	11.10.2008	adult (>6.y.)		Rhemes-Notre-Dame	Italy
32	11.10.2008	adult (>6.y.)		Rhemes-Notre-Dame	Italy
33	11.10.2008	immature oder subadult (?)		Rhemes-Notre-Dame	Italy
34	12.10.2008	dark head		Mittersill	Austria
35	12.10.2008	juvenile (1.y.)	Pinzgarus - ID:558	Prägraten am Großvenediger	Austria
36	12.10.2008	adult (>6.y.)		Silvaplana	Switzerland
37	12.10.2008	adult (>6.y.)		Matrei in Osttirol	Austria
38	12.10.2008	adult (>6.y.)		Matrei in Osttirol	Austria
39	12.10.2008	subad or adult (?)		Bourg-Saint-Maurice	France
40	12.10.2008	immature (3.y.)		Bourg-Saint-Maurice	France
41	12.10.2008	adult (>6.y.)		Stampa	Switzerland
42	12.10.2008	juvenile/immature (?)		Matrei in Osttirol	Austria
43	12.10.2008	juvenile (1.y.)	Pinzgarus - ID:558	Prägraten am Großvenediger	Austria
44	12.10.2008	adult (>6.y.)		Prägraten am Großvenediger	Austria
45	12.10.2008	adult (>6.y.)		La Punt Chamues-ch	Switzerland
46	12.10.2008	adult (>6.y.)		La Punt Chamues-ch	Switzerland
47	12.10.2008	juvenile (1.y.)		La Punt Chamues-ch	Switzerland
48	12.10.2008	adult (>6.y.)		Saint-Martin-Vésubie	France
49	12.10.2008	subad or adult (?)		Matrei in Osttirol	Austria
50	12.10.2008	immature (3.y.)		Neukirchen am Großvenediger	Austria
51	12.10.2008	adult (>6.y.)		Mittersill	Austria

6.4 All data transmitted to the IBM (data base & email)

Table 11: Summary of the data stored in the IBM data base and data communicated to the IBM office by email for the period between 10th to 11th of October 2008 (by 30th of November 2008).

ID	Age	Bird Identity	Date
1	adult	Balthazar	11.10.2008
2	juvenile	MGM	11.10.2008
3	adult	Balthazar	11.10.2008
4	adult	Assignat	11.10.2008
5	juvenile	MGM	11.10.2008
6	adult	Balthazar	11.10.2008
7	adult	Assignat	11.10.2008
8	juvenile	MGM	11.10.2008
9	adult	local pair	11.10.2008
10	adult	local pair	11.10.2008
11	adult	local pair	11.10.2008
12	adult	local pair	11.10.2008

13	adult	local bird	11.10.2008
14	adult	local bird	11.10.2008
15	adult		11.10.2008
16	adult		11.10.2008
17	adult	Veronika	11.10.2008
18	adult	Haute-Savoie Mont Blanc	11.10.2008
19	adult	local bird	11.10.2008
20	adult	Veronika	11.10.2008
21	adult	Haute-Savoie Mont Blanc	11.10.2008
22	adult	Veronika	11.10.2008
23	adult	Haute-Savoie Mont Blanc	11.10.2008
24	adult	Veronika	11.10.2008
25	adult	Haute-Savoie Mont Blanc	11.10.2008
26	adult	Veronika	11.10.2008
27	adult	Haute-Savoie Mont Blanc	11.10.2008
28	adult		11.10.2008
29	unknown age		11.10.2008
30	juvenile	Zebru Martell	11.10.2008
31	adult		11.10.2008
32	adult		11.10.2008
33	juvenile	Luzi-Albula	11.10.2008
34	adult	Diana-Stelvio	11.10.2008
35	adult	Louis	11.10.2008
36	immature		11.10.2008
37	immature		11.10.2008
38	juvenile	Luzi-Albula	11.10.2008
39	adult	Diana-Stelvio oder Louis	11.10.2008
40	adult		11.10.2008
41	immature		11.10.2008
42	adult		11.10.2008
43	juvenile	Luzi-Albula	11.10.2008
81	adult	Argentera	11.10.2008
82	adult	Argentera	11.10.2008
83	adult	Argentera	11.10.2008
84	adult	?	11.10.2008
85	juvenile	Girasole BV 549	11.10.2008
86	adult	Firmin BV 229	11.10.2008
87	subadult/adult		11.10.2008
88	adult (more than 6.y)		11.10.2008
89	immature 2.y	Fontvieille - ID:520	11.10.2008
90	juvenile	Nonno Bob - ID:548	11.10.2008
91	juvenile	Nonno Bob - ID:548	11.10.2008
92	adult (more than 6.y)		11.10.2008
93	subadult (5./6.y)	Blangiar - ID:433	11.10.2008
94	subadult (5./6.y)		11.10.2008
95	adult (more than 6.y)		11.10.2008
96	unknown age		11.10.2008
97	unknown age		11.10.2008
98	subadult (4.y)		11.10.2008
99	juvenile		11.10.2008
100	subadult (4.y)		11.10.2008
101	juvenile	Nonno Bob - ID:548	11.10.2008
102	juvenile	Nonno Bob - ID:548	11.10.2008

103	juvenile	Nonno Bob - ID:548	11.10.2008
104	subadult (4.y)		11.10.2008
105	subadult (4.y)		11.10.2008
106	immature 2.y	Fontvieille - ID:520	11.10.2008
107	juvenile	Parouart - ID:W55	11.10.2008
108	adult (more than 6.y)		11.10.2008
109	adult (more than 6.y)		11.10.2008
110	adult (more than 6.y)		11.10.2008
111	unknown age		11.10.2008
112	unknown age		11.10.2008
113	adult (more than 6.y)		11.10.2008
114	unknown age		11.10.2008
115	unknown age		11.10.2008
116	subadult		11.10.2008
117	subadult		11.10.2008
118	immature	BG 524 „Blick“	11.10.2008
119	subadult 4y		11.10.2008
120	immature 2y		11.10.2008
121	adult		11.10.2008
122	adult		11.10.2008
123	adult	pair of Peisey-Nancroix	11.10.2008
124	adult	pair of Peisey-Nancroix	11.10.2008
125	adult	pairs of Peisey-Nancroix	11.10.2008
126	adult	pairs of Peisey-Nancroix	11.10.2008
127	adult	pairs of Peisey-Nancroix	11.10.2008
128	adult	pairs of Peisey-Nancroix	11.10.2008
129	juvenile		11.10.2008
130	immature 3y.		11.10.2008
131	adult		11.10.2008
132	adult	pairs of Val d'Isère	11.10.2008
133	adult	pairs of Val d'Isère	11.10.2008
134	adult	pairs of Termignon	11.10.2008
135	adult	pairs of Termignon	11.10.2008
136	immature 2y		11.10.2008
137	adult		11.10.2008
138	adult		11.10.2008
139	adult	Jackpot 3 ?	11.10.2008
140	adult	Jackpot 3 ?	11.10.2008
141	subadult/adult	?	11.10.2008
142	subadult/adult	??	11.10.2008
143	adult	Andreas Hofer	11.10.2008
144	adult	Colleen?	11.10.2008
145	juvenile	Rurese	11.10.2008
157	adult	unknown 5	11.10.2008
158	adult	unknown 5	11.10.2008
159	adult	unknown 5	11.10.2008
160	adult	BV 359 Pablo or BV 299 Gildo or unknown 3	11.10.2008
161	adult	BV 359 Pablo or BV 299 Gildo or unknown 1	11.10.2008
162	juvenile	unknown 2	11.10.2008
163	immature	unknown 2 or 7	11.10.2008
164	immature	unknown 8	11.10.2008
165	immature	unknown 9	11.10.2008

166	juvenile	unknown 2 or 7	11.10.2008
167	juvenile or immature	unknown 10	11.10.2008
168	juvenile or immature	unknown 11	11.10.2008
169	immature 2y	BV 528 Romaris	11.10.2008
170	subadult 4y	unknown 12	11.10.2008
171	immature 2y	BV 528 Romaris	11.10.2008
172	subadult 4y	unknown 12	11.10.2008
207	adult	Cic	11.10.2008
208	adult	Moische	11.10.2008
209	adult		11.10.2008
210	adult	Livigno	11.10.2008
211	adult	Rätia	11.10.2008
212	adult	Livigno	11.10.2008
213	adult	Ratia	11.10.2008
214	adult	Livigno	11.10.2008
215	adult	Rätia	11.10.2008
216	adult	Livigno	11.10.2008
217	adult	Ratia	11.10.2008
218	adult	Livigno	11.10.2008
219	adult	Ratia	11.10.2008
220	adult	??	11.10.2008
221	adult	??	11.10.2008
222	adult	??	11.10.2008
223	adult	??	11.10.2008
224	subadult		11.10.2008
225	subadult		11.10.2008
226	immature		11.10.2008
227	adult	Braulio adult	11.10.2008
228	adult	Braulio adult	11.10.2008
229	unknown age		11.10.2008
230	immature		11.10.2008
231	adult	Zebrù adult	11.10.2008
232	adult	Zebrù adult	11.10.2008
233	adult	Zebrù adult	11.10.2008
234	adult	Zebrù adult	11.10.2008
235	adult	Zebrù adult	11.10.2008
236	adult	Zebrù adult	11.10.2008
237	adult	Zebrù adult	11.10.2008
238	adult	Zebrù adult	11.10.2008
239	adult	Zebrù adult	11.10.2008
240	adult	Zebrù adult	11.10.2008
241	adult	Zebrù adult	11.10.2008
242	adult	Zebrù adult	11.10.2008
243	adult	Zebrù adult	11.10.2008
244	adult	Zebrù adult	11.10.2008
245	adult	Zebrù adult	11.10.2008
246	adult	Zebrù trio	11.10.2008
247	adult	Zebrù trio	11.10.2008
248	adult	Zebrù trio	11.10.2008
249	adult	Zebrù adult	11.10.2008
250	adult	Zebrù adult	11.10.2008
251	adult	Zebrù adult	11.10.2008
252	adult	Zebrù adult	11.10.2008
253	adult	Zebrù adult	11.10.2008

254	adult	Zebrù adult	11.10.2008
255	adult	Zebrù adult	11.10.2008
256	adult	Zebrù adult	11.10.2008
257	adult	Zebrù adult	11.10.2008
258	adult	Zebrù adult	11.10.2008
259	adult	Zebrù adult	11.10.2008
260	adult	Zebrù adult	11.10.2008
261	adult	Zebrù adult	11.10.2008
262	adult	Zebrù adult	11.10.2008
263	adult	Zebrù adult	11.10.2008
264	adult	Zebrù adult	11.10.2008
265	adult	Zebrù adult	11.10.2008
266	adult	Zebrù adult	11.10.2008
267	subadult	?	11.10.2008
268	adult	new adult?adult of zebru's trio?	11.10.2008
272	immature	no marks	11.10.2008
276	adult	unknown pair member Rhemes	11.10.2008
277	adult	unknown pair member Rhemes	11.10.2008
278	immature/subadult	together with pair Rhemes	11.10.2008
279	adult	unknown pair member Rhemes	11.10.2008
280	adult	unknown pair member Rhemes	11.10.2008
283	unknown age	unknown age	11.10.2008
289	adult		11.10.2008
44	unknown age		12.10.2008
45	juvenile	Luzi-Albula	12.10.2008
46	adult	Diana-Stelvio or Louis	12.10.2008
47	adult		12.10.2008
48	adult		12.10.2008
49	immature		12.10.2008
50	adult		12.10.2008
51	immature		12.10.2008
52	unknown age		12.10.2008
146	juvenile	Pinzgarus	12.10.2008
147	adult	Andreas Hofer	12.10.2008
148	adult	Colleen?	12.10.2008
149	adult	??	12.10.2008
150	immature	??	12.10.2008
151	adult	Jackpot 3 ?	12.10.2008
152	immature	?	12.10.2008
153	juvenile	Pinzgarus	12.10.2008
154	adult	?	12.10.2008
155	juvenile	Pinzgarus	12.10.2008
156	immature	?	12.10.2008
173	immature 2y	unknown 13	12.10.2008
174	adult	unknown 14	12.10.2008
175	immature/subadult	unknown 6	12.10.2008
176	juvenile	unknown 15	12.10.2008
177	adult	unknown 5	12.10.2008
178	adult	BV 350 Bingo or BV 354 Interreg or BV 361 Montblanc	12.10.2008
179	immature	unknown 2,7,8 or 9	12.10.2008
180	adult	BV 359 Pablo or BV 299 Gildo or unknown 3	12.10.2008
181	adult	BV 359 Pablo or BV 299 Gildo or unknown 1	12.10.2008
182	subadult 4y	unknown 16	12.10.2008
183	immature 2y	BV 528 Romaris	12.10.2008
184	immature 2y	unknown 17	12.10.2008

185	subadult 4y	unknown 12	12.10.2008
281	subadult/adult	unknown	12.10.2008
282	immature 3y.	unknown age	12.10.2008
284	immature 3y.	flew near aglider	12.10.2008
285	dark head		12.10.2008
286	adult		12.10.2008
287	Adult	pair? Gschlöß	12.10.2008
288	Adult	pair? Gschlöß	12.10.2008
290	subadult/adult		12.10.2008
291	Adult	attacked Pinzgarus	12.10.2008
292	Juvenile	Pinzgarus	12.10.2008
293	Juvenile	Pinzgarus was seen 11km west 5 min earlier	12.10.2008
294	Juvenile	probably Pinzgarus	12.10.2008

The huge difference between 51 common observations in the IBM data base and the total number of 293 (!) observations considered in the last table is partly due to a differentiation between common observations and data collected in territories. However it is also due to severe deficiency of data entry (many data have not been entered into the data base at least until November 30th). It is strongly recommended to enter data regularly either as common observation (menu observations) or as short remark in the menu called "Reproduction" (in case of territorial birds).