

2nd Bearded Vulture Observation Days In the Alps

8th-14th and 24th/25th November 2007

Final Version

A co-operation within the International Bearded vulture Monitoring (IBM) Program



INTERNATIONAL
BEARDED VULTURE
MONITORING

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CONTENTS

TABLE OF FIGURES	3
LIST OF TABLES	4
1 INTRODUCTION	5
2 METHODS AND DATA	6
3 RESULTS	9
3.1 FIRST COUNT 8TH - 14TH OF NOVEMBER	13
3.2 SECOND COUNT 22ND & 28TH OF NOVEMBER	24
3.3 POPULATION SIZE	29
4 DISCUSSION & OUTLOOK	31
5 ACKNOWLEDGMENT	32

TABLE OF FIGURES

FIGURE 1: WEATHER CONDITIONS AT THE DAY OF SURVEY BETWEEN LE QUEYRAS, LA VALLÉE DE LA DURANCE AND LE MASSIF DES ECRINS (C.COULOUMY).....	5
FIGURE 2: AREA MONITORED BY STELVIO NATIONAL PARK TEAM (ENRICO BASSI) IN LOMBARDIA AND TRENTO (N-ITALY) ON THE 10 TH OF NOVEMBER 2007.	6
FIGURE 3: CLIPPING FROM THE IDENTIFICATION GUIDE.	7
FIGURE 4: AREA THAT WAS PLANNED TO BE COVERED DURING THE ALPINE OBSERVATION DAYS 2007 ON 10 TH OF NOVEMBER 2007.....	15
FIGURE 5: AREA THAT COULD BE MONITORED EFFECTIVELY (ACCEPTABLE WEATHER CONDITIONS) ON THE 10 TH OF NOVEMBER 2007	16
FIGURE 6: LOCATION OF OBSERVERS IN THE ECRINS NATIONAL PARK AND THE QUEYRAS NATURE PARK (C.COULOUMY)	17
FIGURE 7: LOCATION OF OBSERVERS IN THE WESTERN ITALIAN OBSERVER NETWORK (L.GIRAUDO)	18
FIGURE 8: LOCATION OF OBSERVERS IN REGIONE D' AOSTA (C.CHIOSO)	19
FIGURE 9: LOCATION OF OBSERVERS IN THE MERCANTOUR NATIONAL PARK (M.PERFUS)	20
FIGURE 10: LOCATION OF OBSERVERS IN SÜDTIROL (N-ITALY) ON THE 13 TH OF NOVEMBER. BLUE COLOUR INDICATES OBSERVATION AREAS, IN BLACK GOLDEN EAGLE AND IN RED BEARDED VULTURE OBSERVATIONS HAVE BEEN MARKED (K.BLIEM).....	21
FIGURE 11: LOCATION OF OBSERVERS IN THE AREA OF HOHE TAUERN NATIONAL PARK ON 10 TH AND 24 TH OF NOVEMBER 2007.....	22
FIGURE 12: THE CALL FOR BROAD PARTICIPATION AT THE ALPINE OBSERVATION DAYS 2007 IN ARTICLES OF LOCAL NEWSPAPER DISTRIBUTED IN THE HOHE TAUERN REGION.....	23
FIGURE 13: AREAS COVERED BY THE QUALIFIED OBSERVERS ON THE 24 TH OF NOVEMBER 2007	24
FIGURE 14: LOCATION OF THE OBSERVERS COORDINATED BY ASTERS IN HAUTE SAVOIE	26
FIGURE 15: LOCATION OF THE OBSERVERS COORDINATED BY VANOISE NATIONAL PARK (S. BERTHILLOT).....	28
FIGURE 16: LOCATION OF THE OBSERVERS COORDINATED IN THE WESTERN SWISS MONITORING NETWORK.....	29

LIST OF TABLES

TABLE 1 PERIODS OF OBSERVATION CONSIDERED FOR THE ALPINE COUNT 2007	5
TABLE 2: SUMMARY OF MONITORING UNITS REPORTED TO THE IBM UNTIL 15 TH OF DECEMBER 2007. 7	7
TABLE 3: BEARDED VULTURE OBSERVATIONS (8 TH TO 28 TH OF NOVEMBER 2007) QUERIED FROM THE IBM DATA BASE AND CLASSIFIED ACCORDING TO THE AGE OF THE BIRDS.	9
TABLE 4: ORIGIN OF DATA STORED IN THE IBM DATA BASE FOR THE PERIOD 8 TH -28 TH OF NOVEMBER 2007. NUMBERS OF COLLECTING CENTRES ARE GIVEN IN EQUATION (UP-TO-DATEDNESS 20.12.07)	9
TABLE 5: SUMMARISING QUERY OF THE DATA STORED IN THE IBM DATA BASE FOR THE PERIOD 8 TH TO 28 TH OF NOVEMBER UNTIL 20 TH OF DECEMBER 2007.	9
TABLE 6: SUMMARY OF THE DATA NOT INCLUDED IN THE IBM DATA BASE UNTIL 15 TH OF DECEMBER 2007	11
TABLE 7: OBSERVATIONS RECORDED BETWEEN 8 TH -14 TH OF NOVEMBER 2007. BOLD DATES INDICATE CORE TIME.	13
TABLE 8: OBSERVATIONS RECORDED BETWEEN 22 ND -28 TH OF NOVEMBER 2007. BOLD DATES INDICATE CORE TIME.	24
TABLE 9: IDENTIFIED BIRDS BETWEEN 1 ST OF JUNE AND 15 TH OF DECEMBER 2007.	29
TABLE 10: LISTED ARE HYPOTHESES OF BIRD IDENTITIES. DATA BASIS ARE ALL OBSERVATION MADE BETWEEN 1 ST OF JUNE AND 15 TH OF DECEMBER 2007.	30
TABLE 11: SUGGESTED MINIMUM STANDARD FOR THE DATA EXCHANGE OF THE ALPINE OBSERVATION DAYS 2008.	31
TABLE 12: LIST OF PARTICIPANTS REPORTED TO THE IBM OFFICE UNTIL 15 TH OF DECEMBER 2007.	32

1 Introduction

Last year (4th November 2006) the Bearded Vulture (*Gypaetus barbatus*) observation network initiated an “Alpine Bearded Vulture Observation Day” for the first time. The result has been astonishing. In total ~65 birds could be individually identified throughout the Alps. Therefore the count event should be repeated in the year 2007. The aim was to get comparable results as kind of an index for population size. Since it is hardly possible to mobilise dozens of observers all over the Alps (188.000km²) the same day it was decided to differentiate between observations made during the envisaged focus time and those received within a puffer period of 2-3 days prior and after core times.

Table 1 Periods of observation considered for the alpine count 2007

Period	Date(s)
Core time 1	10 th -11 th of November 2007
puffer time 1	8 th -9 th and 12 th to 14 th of November 2007
Core time 2	24 th -25 th of November 2007
puffer time 2	22 nd -23 rd and 26 th -28 th of November 2007

The months of October and November are suited for the locating of new territories. Nest building, copulations, synchronous flights etc. can be observed best during that time. After a fairly wet September the weather conditions changed considerably in October 2007. Warm and sunny days seemed to be perfect circumstances for the count in the beginning of November.



Figure 1: Weather conditions at the day of survey between le Queyras, la vallée de la Durance and Le massif des Ecrins (C.Couloumy).

Unfortunately the alpine winter started earlier than expected in some parts of the Alps. Not in every monitoring area the weather was as fine as seen in Figure 1 for the southern French Alps. Especially in the northern and central Alps heavy fog, rain and snowfall characterized the period around the 10th of November. Therefore it was proposed by ASTERS to repeat the count on Saturday the 24th (and Sunday the 25th) of November 2007. Many IBM partners shared this opinion and a second count was conducted. However the weather conditions turned out to be as bad as has been during the first core time. Consequently on the short term some local administrators cancelled their participation for the second count.

2 Methods and Data

Thanks to the coordination of local IBM administrators the synchronous counts could be planned mainly on the regional level. In total a considerable number of people (cf. Table 2) went into the fields to count Bearded vultures and other Birds of Prey such as Golden eagles (*Aquila chrysaetos*). There was no special presetting except for the date of observation the documentation slightly differs between areas. From some areas the exact number and position of observers is known. Given the number of observers we can differentiate between observation spots with and without observations. Accordingly it is possible to circumscribe the monitoring area and figure out something like an index (e.g. observers/km²). Hence, we should consider a monitoring standard for the next Alpine Observation Days.

The location of each observation spot was chosen by the local IBM administrators. On the international level it has proven helpful to mark the position of observers in a map. Even a map which circumscribes the entire area covered is valuable (cf. Figure 2). Alternatively the coordinates of spotting positions can be exchanged and viewed in GIS.



Figure 2: Area monitored by Stelvio National Park Team (Enrico Bassi) in Lombardia and Trento (N-Italy) on the 10th of November 2007.

For 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 for download at the IBM homepage at www.gyp-monitoring.com. It is available in German, French and Italian language. The same homepage includes download options to get the latest update of marking pattern used for juvenile vultures in the Alps.



Figure 3: Clipping from the identification guide.

To organize enough professional observers to cover important parts of the Alps is extensive work. Below a summary of the participating local monitoring administrations is given.

Table 2: Summary of monitoring units reported to the IBM until 15th of December 2007.

Date	Administration	Monitoring area	Spots	Observers
10.11.2007	Mercantour National Park	Mercantour	33	46
10.11.2007	Monitoring Network Dauphiné	Ecrins & Queyras	56	96
10.11.2007	Stelvio National Park	Lombardia, Trento	43	62
10.11.2007	Valle d'Aosta		50	?
10.11.2007	Piemont		68	90

11.11.2007	Paolo Fasce	Valle d'Aosta	1	1
13.11.2007	Klaus Bliem & Team	Südtirol	23	?
24.11.2007	ASTERS	Haute-Savoie	10	?
24.11.2007	Valle d'Aosta		35	?
24.11.2007	Vanoise National Park	Savoie	25	28
24.11.2007	Western Swiss Monitoring Network	Western Switzerland	15	25
25.11.2007	Paolo Fasce & Corpo Forestale	Regione Autonoma Valle d'Aosta	2	?
10 & 24.11.2007	Stiftung Pro Bartgeier	Engadin	?	?
10 & 24.11.2007	Swiss National Park	Engadin	?	?
10 & 24.11.2007	Hohe Tauern National Park	Hohe Tauern	~30	?

3 Results

To summarise observation as accurately as possible it was necessary to join information communicated to the IBM office by email only with data hosted in the IBM data base. The entire information (data base and email communication) was pooled and serves as basis for this report.

A query of the IBM data base on the 15th of December 2007 revealed 85 observations for the total period between 8th of November until 28th of November 2007. About half of the birds observed during that time have been classified to be at least 7 years old and therefore fully mature (see Table 3).

Table 3: Bearded vulture observations (8th to 28th of November 2007) queried from the IBM data base and classified according to the age of the birds.

Age Class	Observations
juvenile (1.year)	4
immature (2.year)	5
immature (3.year)	11
sub-adult (4.year)	3
sub-adult (5./6.year)	1
adult (>6.years)	43
juvenile / immature (?)	7
immature or sub-adult (?)	4
sub-adult or adult (?)	7
Total	85

Considering the information communicated by email it seems several data still have to be entered into the data base. The quantity of data is strongly biased by the effort to store the information in the online system (see Table 4).

Table 4: Origin of data stored in the IBM data base for the period 8th-28th of November 2007. Numbers of collecting centres are given in equation (up-to-datedness 20.12.07)

Collecting Centre	Observations
Austria (2&4)	68
Switzerland (11)	1
France (21 & 23)	2
Italy (30 & 31)	11
Total	90

Table 5: Summarising query of the data stored in the IBM data base for the period 8th to 28th of November until 20th of December 2007.

Date	Age	Bird ID	community	country
1 08.11.2007	immatur (3.Jahr)	Doraja - ID:465	Dalaas	Austria
2 08.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
3 08.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
4 09.11.2007	adult (>6.Jahr)		Heiligenblut	Austria
5 10.11.2007	adult (>6.Jahr)		Acceglio	Italy
6 10.11.2007	immatur (2.Jahr)		Acceglio	Italy
7 11.11.2007	adult (>6.Jahr)		Rhemes-Notre-Dame	Italy
8 11.11.2007	immatur (2.Jahr)		Rhemes-Notre-Dame	Italy
9 11.11.2007	juvenil/immatur (?)		Rhemes-Notre-Dame	Italy
10 11.11.2007	immatur (2.Jahr)		Rhemes-Notre-Dame	Italy
11 11.11.2007	juvenil (1.Jahr)	Calce - ID:530	Matrei in Osttirol	Austria

12	11.11.2007	juvenil (1.Jahr)	Calce - ID:530	Matrei in Osttirol	Austria
13	11.11.2007	immatur (2.Jahr)		Rhemes-Notre-Dame	Italy
14	11.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
15	11.11.2007	immatur (3.Jahr)	Escalero - ID:462	Matrei in Osttirol	Austria
16	11.11.2007	immatur (2.Jahr)		Rhemes-Notre-Dame	Italy
17	11.11.2007	adult (>6.Jahr)		Rennweg am Katschberg	Austria
18	12.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
19	12.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
20	12.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
21	12.11.2007	adult (>6.Jahr) immatur oder subadult		Rennweg am Katschberg	Austria
22	12.11.2007	(?)		Rennweg am Katschberg	Austria
23	12.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
24	12.11.2007	adult (>6.Jahr)		Weißensee	Austria
25	12.11.2007	juvenil (1.Jahr)	Calce - ID:530	Virgen	Austria
26	12.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
27	12.11.2007	immatur (3.Jahr)	Escalero - ID:462	Matrei in Osttirol	Austria
28	12.11.2007	adult (>6.Jahr)		Heiligenblut	Austria
29	13.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
30	13.11.2007	immatur (3.Jahr)	Escalero - ID:462	Matrei in Osttirol	Austria
31	13.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
32	13.11.2007	subad or adult (?)	Firmin - ID:229	Prazzo	Italy
33	13.11.2007	subad or adult (?)		Sallanches	France
34	14.11.2007	immatur (3.Jahr)	Escalero - ID:462	Matrei in Osttirol	Austria
35	14.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
36	15.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
37	15.11.2007	immatur (3.Jahr)	Escalero - ID:462	Matrei in Osttirol Prägraten am Großvenediger	Austria
38	15.11.2007	adult (>6.Jahr)			Austria
39	15.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
40	15.11.2007	immatur (3.Jahr)	Escalero - ID:462	Matrei in Osttirol	Austria
41	15.11.2007	juvenil/immatur (?)		Predoi - Prettau	Italy
42	15.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
43	16.11.2007	subadult (5./6.Jahr)	Paolo Peila - ID:388	Entracque	Italy
44	16.11.2007	immatur (3.Jahr)	Blangiar - ID:433	Entracque	Italy
45	16.11.2007	subad or adult (?)		Kals am Großglockner	Austria
46	16.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
47	16.11.2007	juvenil/immatur (?) immatur oder subadult		Matrei in Osttirol	Austria
48	16.11.2007	(?)		Matrei in Osttirol Prägraten am Großvenediger	Austria
49	16.11.2007	juvenil/immatur (?)	Romaris - ID:528		Austria
50	17.11.2007	adult (>6.Jahr)		Bellino	Italy
51	17.11.2007	adult (>6.Jahr)		Bellino	Italy
52	17.11.2007	adult (>6.Jahr) immatur oder subadult		Malta	Austria
53	17.11.2007	(?)		Malta Prägraten am Großvenediger	Austria
54	17.11.2007	adult (>6.Jahr)			Austria
55	17.11.2007	subad or adult (?)		Sallanches	France
56	18.11.2007	subad or adult (?)		Rattenberg	Austria
57	18.11.2007	juvenil (1.Jahr)	Samuel - ID:526	Vent	Austria
58	19.11.2007	adult (>6.Jahr)		Saint-Paul-sur-Ubaye	France
59	19.11.2007	adult (>6.Jahr)		Rennweg am Katschberg	Austria
60	19.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
61	19.11.2007	subad or adult (?)		Matrei in Osttirol	Austria

62	19.11.2007	immatur (3.Jahr)	Escalero - ID:462	Matrei in Osttirol	Austria
63	20.11.2007	adult (>6.Jahr) immatur oder subadult		Bad Gastein	Austria
64	20.11.2007	(?)		Rennweg am Katschberg	Austria
65	21.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
66	21.11.2007	juvenil/immatur (?)		Matrei in Osttirol	Austria
67	21.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
68	21.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
69	22.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
70	23.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
71	23.11.2007	subad or adult (?)		Matrei in Osttirol Prägraten am	Austria
72	23.11.2007	juvenil/immatur (?)	Romaris - ID:528	Großvenediger	Austria
73	23.11.2007	adult (>6.Jahr)		Bad Gastein Prägraten am	Austria
74	23.11.2007	adult (>6.Jahr)		Großvenediger	Austria
75	24.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
76	24.11.2007	juvenil/immatur (?)		Matrei in Osttirol	Austria
77	24.11.2007	subadult (4.Jahr)		Morgex	Italy
78	25.11.2007	subadult (4.Jahr)		Morgex	Italy
79	25.11.2007	immatur (3.Jahr)		Morgex	Italy
80	25.11.2007	adult (>6.Jahr)		Chamues-ch	Switzerland
81	25.11.2007	immatur (3.Jahr)	Escalero - ID:462	Matrei in Osttirol	Austria
82	25.11.2007	subadult (4.Jahr)		Usseglio	Italy
83	27.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
84	27.11.2007	subad or adult (?)		Matrei in Osttirol	Austria
85	27.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
86	27.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
87	28.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
88	28.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
89	28.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
90	28.11.2007	immatur (3.Jahr)	Escalero - ID:462	Matrei in Osttirol	Austria

Below the information communicated by email is summarised. Only one observation was considered in case the same bird has been seen several times during a day. In total this makes 54 additional observations for the above mentioned period. However, some data are still missing with high probability. Please help to complete the list as soon as possible!

Table 6: Summary of the data not included in the IBM data base until 15th of December 2007

	Date	Age/ID	Location	Land
1	08.11.2007	Unknown Juvenile	Val Troncea Banchetta	Italy
2	09.11.2007	unmarked	Graun	Italy
3	09.11.2007	Temperatio	Naturno	Italy
4	10.11.2007	adult (>6.Jahr)	Pontresina	Switzerland
5	10.11.2007	adult (>6.Jahr)	Haute-Ubaye	France
6	10.11.2007	adult (>6.Jahr)	Haute-Ubaye	France
7	10.11.2007	adult (>6.Jahr)	Haute-Ubaye Haute Verdon & Haute	France
8	10.11.2007	adult (>6.Jahr)	Var	France
9	10.11.2007	adult (>6.Jahr)	Haute Vesubie Haute Tienee & Haute	France
10	10.11.2007	Fontville	Var	France
11	10.11.2007	Rocca	Haute Var	France
12	10.11.2007	adult (>6.Jahr)	Vars	France
13	10.11.2007	Michegabri	Belli	Italy

14	10.11.2007	adult (>6.Jahr)	vallone di Rochemolle	Italy
15	10.11.2007	Subadult	Pramand	Italy
16	10.11.2007	adult (>6.Jahr)	Breuil	Italy
17	10.11.2007	adult (>6.Jahr)	Ceresole Rhemes &	Italy
18	10.11.2007	subadult or adult	Valsavarenche	Italy
19	10.11.2007	Immaturee	Valsavarenche	Italy
21	10.11.2007	Unknown	Cogne	Italy
22	10.11.2007	Unknown	Cogne	Italy
23	10.11.2007	adult (>6.Jahr)	Lombardia	Italy
24	10.11.2007	Subadult	Lombardia	Italy
25	10.11.2007	Blick	Pejo	Italy
26	11.11.2007	Subadult Immature	Pontresina	Switzerland
27	11.11.2007	(2.year)	Lauterbrunnen	Switzerland
28	11.11.2007	adult (>6.Jahr)	La punt	Switzerland
29	11.11.2007	adult (>6.Jahr) Juvenile	La Punt	Switzerland
30	11.11.2007	unmarked	Laces	Italy
31	12.11.2007	adult (>6.Jahr) Immature	Bever	Switzerland
32	12.11.2007	(2.year) Immature	Lauterbrunnen	Switzerland
33	13.11.2007	(2.year)	Lauterbrunnen	Switzerland
34	13.11.2007	adult (>6.Jahr)	La Punt	Switzerland
35	13.11.2007	Unknown Juvenile	Öztaler Alpen	Italy
36	13.11.2007	unmarked	Öztaler Alpen	Italy
37	13.11.2007	Temperatio	Öztaler Alpen	Italy
	15.11.2007	Zufall	Ortlergruppe	Italy
38	16.11.2007	Unknown Immature	Lauterbrunnen	Switzerland
39	17.11.2007	(3.year) Immature	Lauterbrunnen	Switzerland
40	18.11.2007	(2.year) Immature	Fully	Switzerland
41	18.11.2007	(3.year) Immature	Lauterbrunnen	Switzerland
42	19.11.2007	(3.year) Immature	Lauterbrunnen	Switzerland
43	20.11.2007	(3.year) Immature	Lauterbrunnen	Switzerland
44	21.11.2007	(3.year) Immature	Lauterbrunnen	Switzerland
45	22.11.2007	(3.year)	Lauterbrunnen	Switzerland
46	17.11.2007	adult (>6.Jahr)	Saillon	Switzerland
47	24.11.2007	adult (>6.Jahr)	Derborence	Switzerland
48	24.11.2007	adult (>6.Jahr)	Derborence	Switzerland
49	24.11.2007	adult (>6.Jahr)	La Punt	Switzerland
50	24.11.2007	adult (>6.Jahr)	Rehmes	Italy
51	24.11.2007	Immature	Rehmes	Italy
52	25.11.2007	adult (>6.Jahr)	La Punt	Switzerland
53	25.11.2007	adult (>6.Jahr)	La Punt	Switzerland
	25.11.2007	subadult	Valdigne	Italy
54	25.11.2007	Immature	Valdigne	Italy

3.1 First Count 8th - 14th of November

The monitoring efforts during the week of the first observation period resulted in 72 observations. The data includes couple sighting of the same individual. Anyway the huge number of observations is remarkable. Some data are exceptional interesting. For example the bird "Blick" was seen in Trento region. A picture could be taken and well documents that the bird was doing well before it had to be recaptured by Daniel Hegglin and staff members of the Swiss National Park. The bird was located thanks to the GPS-GMS Transmitter and was found exhausted in the evening of 24th of November in a forest in eastern Switzerland. Several other birds (Doraja, Temperatio, Fontville, Rocca, Michegabri, Blick, Calce, Escalero, and Firmin) could be identified within the week of intensified survey.

Table 7: Observations recorded between 8th -14th of November 2007. Bold dates indicate core time.

	Date	Age	Bird ID	Location	Country	
1	08.11.2007	immature (3.Jahr)	Doraja	Dalaas	Austria	
2	08.11.2007	adult (>6.Jahr)		Bad Gastein	Austria	
3	08.11.2007	adult (>6.Jahr)		Bad Gastein	Austria	
4	08.11.2007	Unknown		Val Troncea Banchetta	Italy	
5	09.11.2007	adult (>6.Jahr)	Temperatio	Heiligenblut	Austria	
6	09.11.2007	juvenile unmarked		Graun	Italy	
7	09.11.2007	immature (2.year)		Naturno	Italy	
8	10.11.2007	adult (>6.Jahr)		Acceglio	Italy	
9	10.11.2007	immatur (2.Jahr)		Acceglio	Italy	
10	10.11.2007	adult (>6.Jahr)		Pontresina	Switzerland	
11	10.11.2007	adult (>6.Jahr)		Haute-Ubaye	France	
12	10.11.2007	adult (>6.Jahr)		Haute-Ubaye	France	
13	10.11.2007	adult (>6.Jahr)		Haute-Ubaye	France	
				Haute Verdon & Haute		
14	10.11.2007	adult (>6.Jahr)		Var	France	
15	10.11.2007	adult (>6.Jahr)		Haute Vesubie	France	
				Haute Tienee & Haute		
16	10.11.2007	juvenil (1.Jahr)		Fontville	Var	France
17	10.11.2007	juvenil (1.Jahr)		Rocca	Haute Var	France
18	10.11.2007	adult (>6.Jahr)		Vars	France	
19	10.11.2007	immature (2.year)	Michegabri	Belli	Italy	
20	10.11.2007	adult (>6.Jahr)		vallone di Rochemolle	Italy	
21	10.11.2007	Subadult		Pramand	Italy	
22	10.11.2007	adult (>6.Jahr)		Breuil	Italy	
23	10.11.2007	adult (>6.Jahr)		Ceresole	Italy	
24	10.11.2007	subadult or adult		Rhemes	Italy	
25	10.11.2007	Immaturee		Valsavarenche	Italy	
26	10.11.2007	subadult 6.year		Valsavarenche	Italy	
27	10.11.2007	Unknown		Cogne	Italy	
28	10.11.2007	Unknown		Cogne	Italy	
29	10.11.2007	adult (>6.Jahr)		Lombardia	Italy	
30	10.11.2007	Subadult		Lombardia	Italy	
31	10.11.2007	juvenil (1.Jahr)	Blick	Pejo	Italy	
32	11.11.2007	adult (>6.Jahr)		Rennweg am Katschberg	Austria	
33	11.11.2007	juvenil (1.Jahr)	Calce	Matrei in Osttirol	Austria	
34	11.11.2007	juvenil (1.Jahr)		Matrei in Osttirol	Austria	
35	11.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria	
36	11.11.2007	immatur (3.Jahr)	Escalero	Matrei in Osttirol	Austria	
37	11.11.2007	adult (>6.Jahr)		Rhemes-Notre-Dame	Italy	
38	11.11.2007	immatur (2.Jahr)		Rhemes-Notre-Dame	Italy	
39	11.11.2007	juvenil/immatur (?)		Rhemes-Notre-Dame	Italy	
40	11.11.2007	immatur (2.Jahr)		Rhemes-Notre-Dame	Italy	

41	11.11.2007	immatur (2.Jahr)		Rhemes-Notre-Dame	Italy
42	11.11.2007	immatur (2.Jahr)		Rhemes-Notre-Dame	Italy
43	11.11.2007	Subadult		Pontresina	Switzerland
44	11.11.2007	immature (2.year)		Lauterbrunnen	Switzerland
45	11.11.2007	adult (>6.Jahr)		La punt	Switzerland
46	11.11.2007	adult (>6.Jahr)		La Punt	Switzerland
47	11.11.2007	juvenile unmarked		Laces	Italy
48	12.11.2007	juvenil (1.Jahr)	Calce	Virgen	Austria
49	12.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
50	12.11.2007	immatur (3.Jahr)	Escalero	Matrei in Osttirol	Austria
51	12.11.2007	adult (>6.Jahr)		Heiligenblut	Austria
52	12.11.2007	adult (>6.Jahr)		Rennweg am Katschberg	Austria
53	12.11.2007	immatur oder subadult (?)		Rennweg am Katschberg	Austria
54	12.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
55	12.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
56	12.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
57	12.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
58	12.11.2007	adult (>6.Jahr)		Weißensee	Austria
59	12.11.2007	adult (>6.Jahr)		Bever	Switzerland
60	12.11.2007	immature (2.year)		Lauterbrunnen	Switzerland
61	13.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
62	13.11.2007	immatur (3.Jahr)	Escalero	Matrei in Osttirol	Austria
63	13.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
64	13.11.2007	subad or adult (?)		Sallanches	France
65	13.11.2007	Adult (>6.Jahr)	Firmin	Prazzo	Italy
66	13.11.2007	immature (2.year)		Lauterbrunnen	Switzerland
67	13.11.2007	Adult (>6.Jahr)		La Punt	Switzerland
68	13.11.2007	Unknown		Öztaler Alpen	Italy
69	13.11.2007	juvenile unmarked		Öztaler Alpen	Italy
70	13.11.2007	immature (2.year)	Temperatio	Öztaler Alpen	Italy
71	14.11.2007	immatur (3.Jahr)	Escalero	Matrei in Osttirol	Austria
72	14.11.2007	Adult (>6.Jahr)		Bad Gastein	Austria

Due to high mobility double observations can be excluded only if observations are made more or less at the same time. To minimise the risk of double counts it makes sense to intensify the monitoring for a short period of time. This was the aim for the 10th of November. Almost every member of the International Bearded vulture Monitoring was willing to participate with his local team. The monitoring area thus covered would have been considerable (see Figure 4).

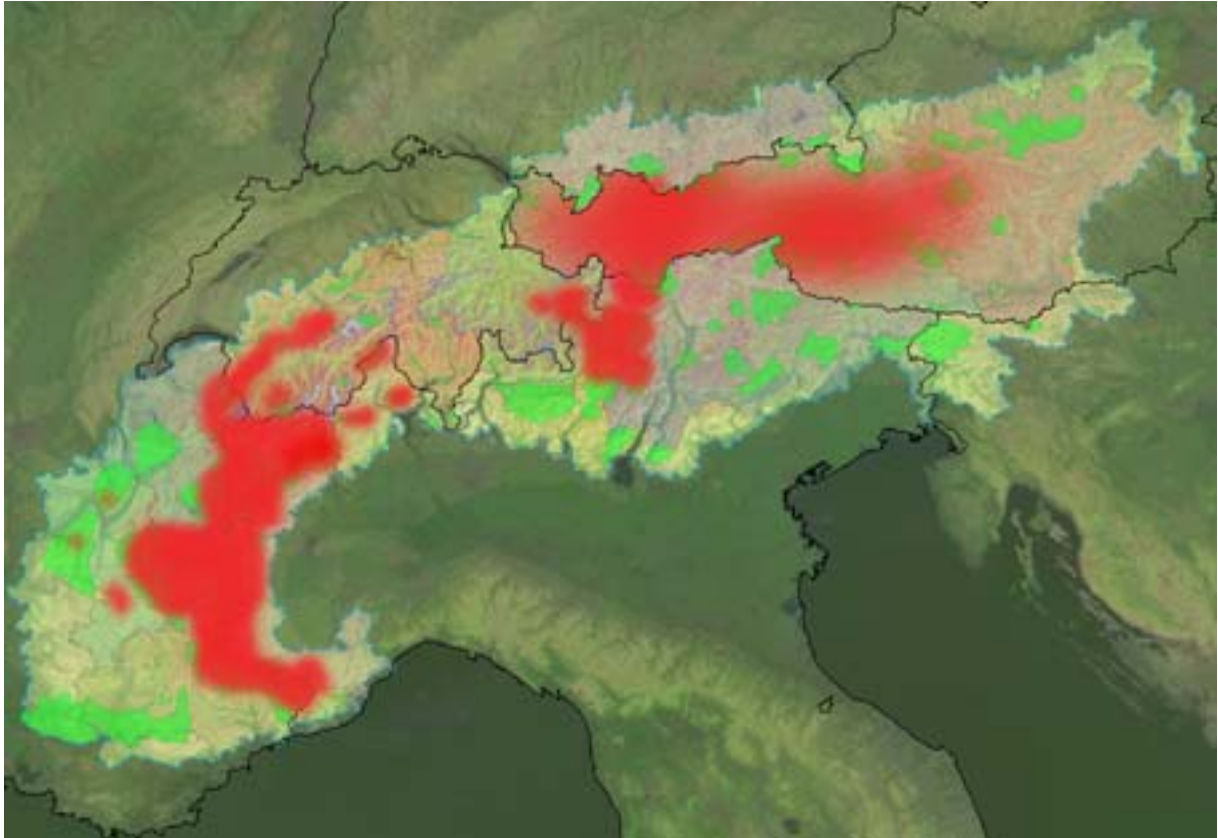


Figure 4: Area that was planned to be covered during the Alpine Observation Days 2007 on 10th of November 2007

Good weather conditions all over the Alps are expected to be an important pre-condition. Unfortunately the weather was fairly bad on the northern slopes and in the central Alps on 10th of November. The survey nevertheless was carried out in the southern and western Alps (see Figure 5). The efforts were worthwhile and a total of 24 observations could be reported (see Table 7). This number can be put on a level with the number of individuals. Assuming the modelled population size for the Alps (>100 individuals) this may seem ridiculous but it is not. On that day not a single observation was made in the northern Alps.

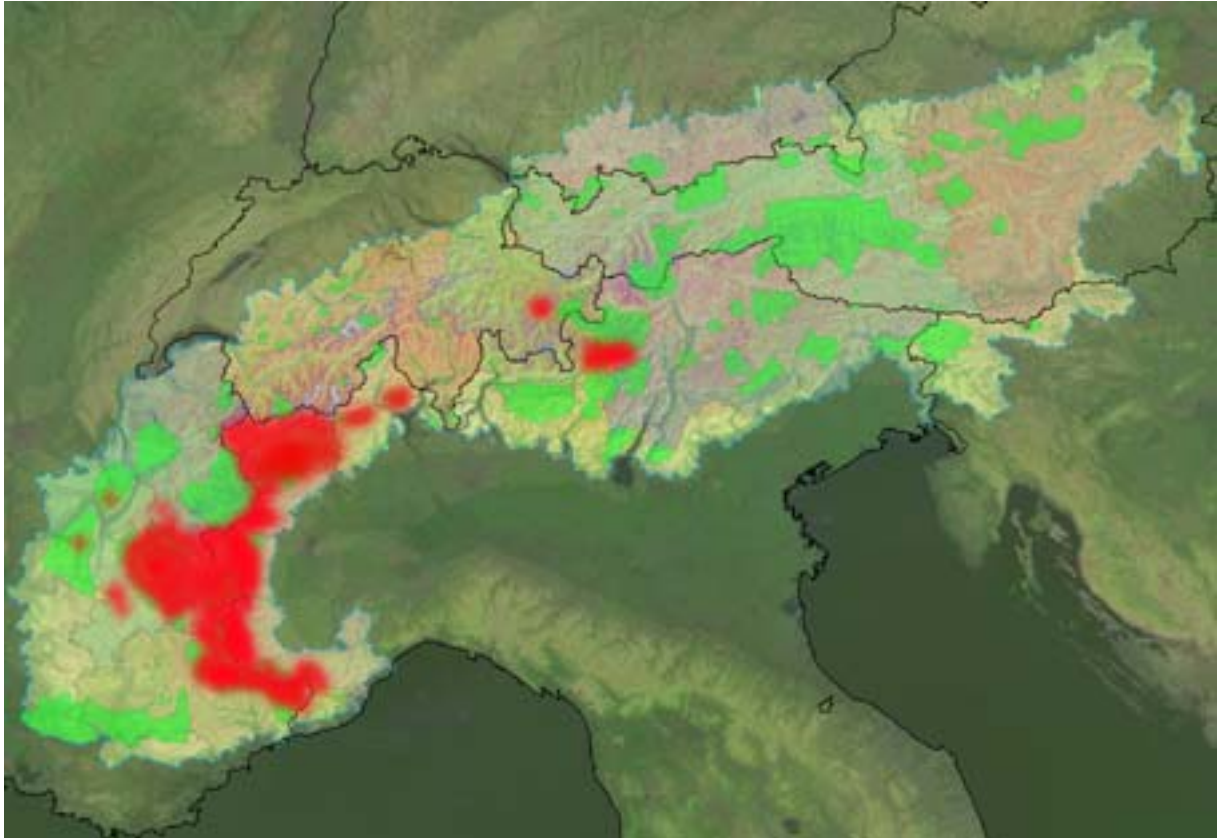


Figure 5: Area that could be monitored effectively (acceptable weather conditions) on the 10th of November 2007

In most of the areas the precise location of observers has been registered. This was extremely useful for a better understanding on the international level. Moreover it gives an exact picture of the monitoring intensity. A good example is e.g. the area coordinated by Christian Couloumy. During the count the team of close to 100 people had favourable weather conditions (see Figure 1). The observers were well positioned all over the area (see Figure 6) and a huge number of Golden eagles could be registered. However, that day only a single Bearded vulture was seen in the area. This result is valuable because a) Golden eagles serve as observation reference and b) the position of observers is an indicator for the monitoring intensity. In this case we have to say that “no result is also a result”. It is very interesting that hardly any Bearded vulture used the area. Unfortunately this may indicate that we have to wait some more time until Les Ecrins and le Queyras will be re-colonised.

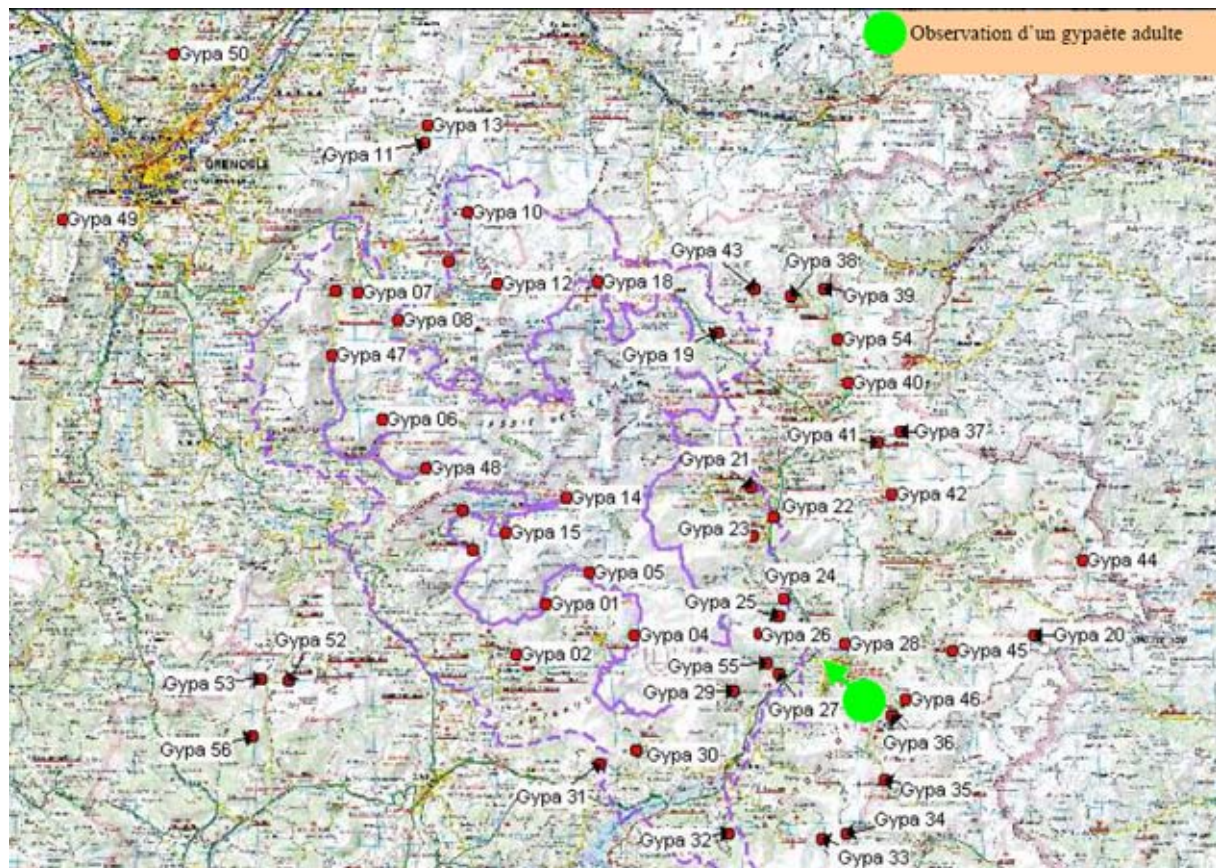


Figure 6: Location of observers in the Ecrins National Park and the Queyras Nature Park (C.Couloumy)

The observer Network in the Western Alps is a well established system since many years. It profits by the huge number of highly qualified ornithologists, Park rangers and other members. The coordination is done by Luca Giraudo who provided the IBM with a similar precise map of observer locations (see Figure 7).

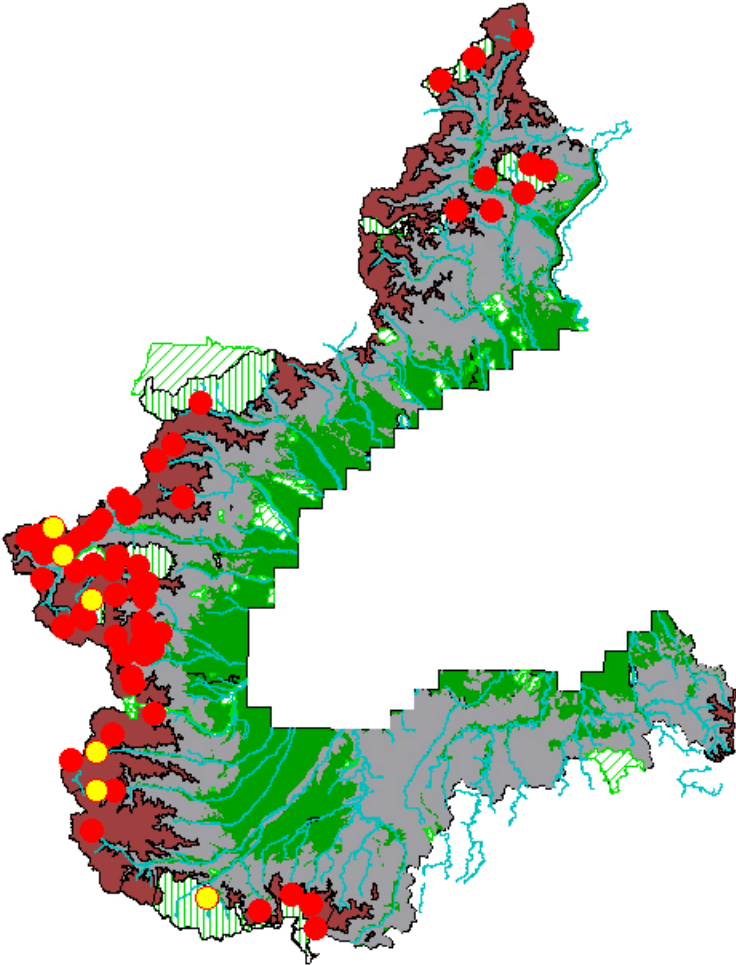


Figure 7: Location of observers in the Western Italian Observer Network (L.Giraudo)

In the Regione d' Aosta the monitoring was carried out by a huge number of observers. The distribution of the observers can be seen in Figure 8.

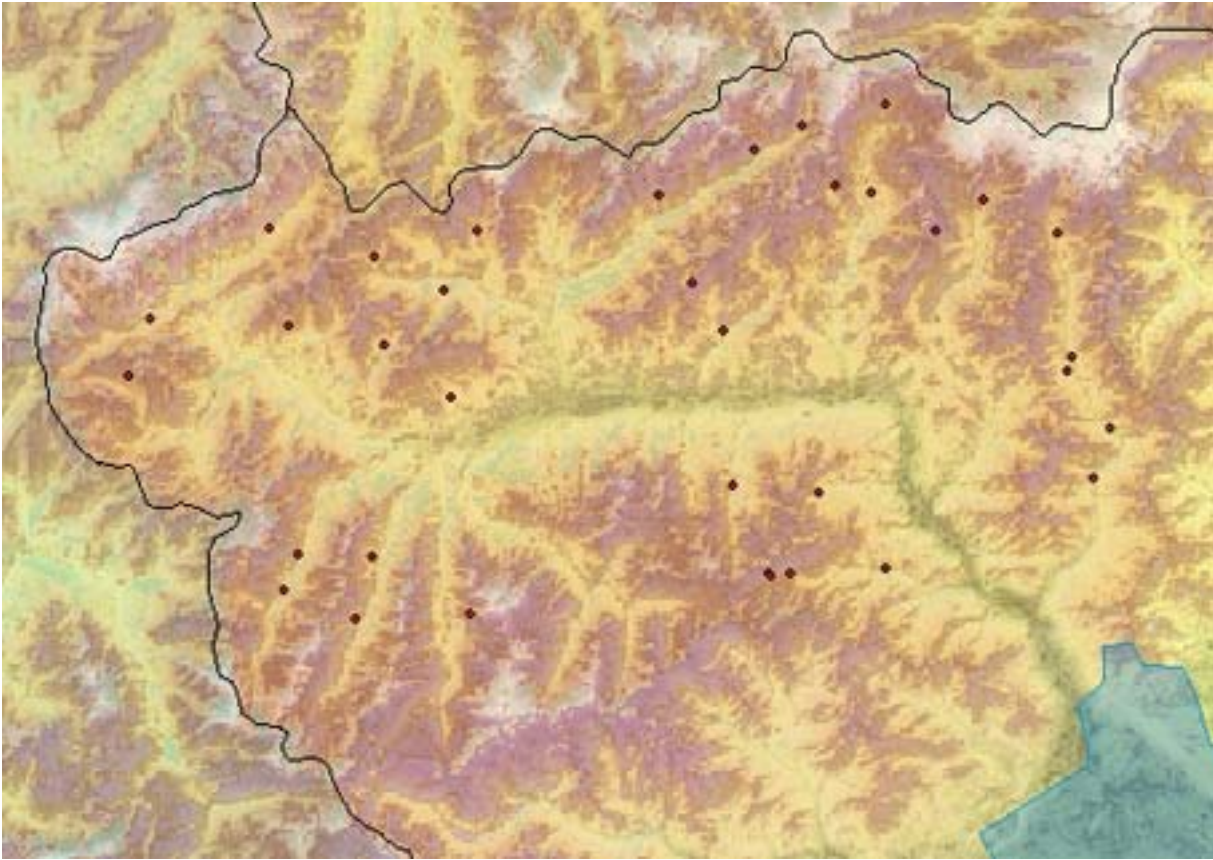


Figure 8: Location of observers in Regione d'Aosta (C.Chioso)

The number of adult birds continuously increased in the Southern Alps during the last years. This can be seen best in the Mercantour National Park. Monique Perfus who organised the observation day provided a map with the position of observers (see Figure 9).

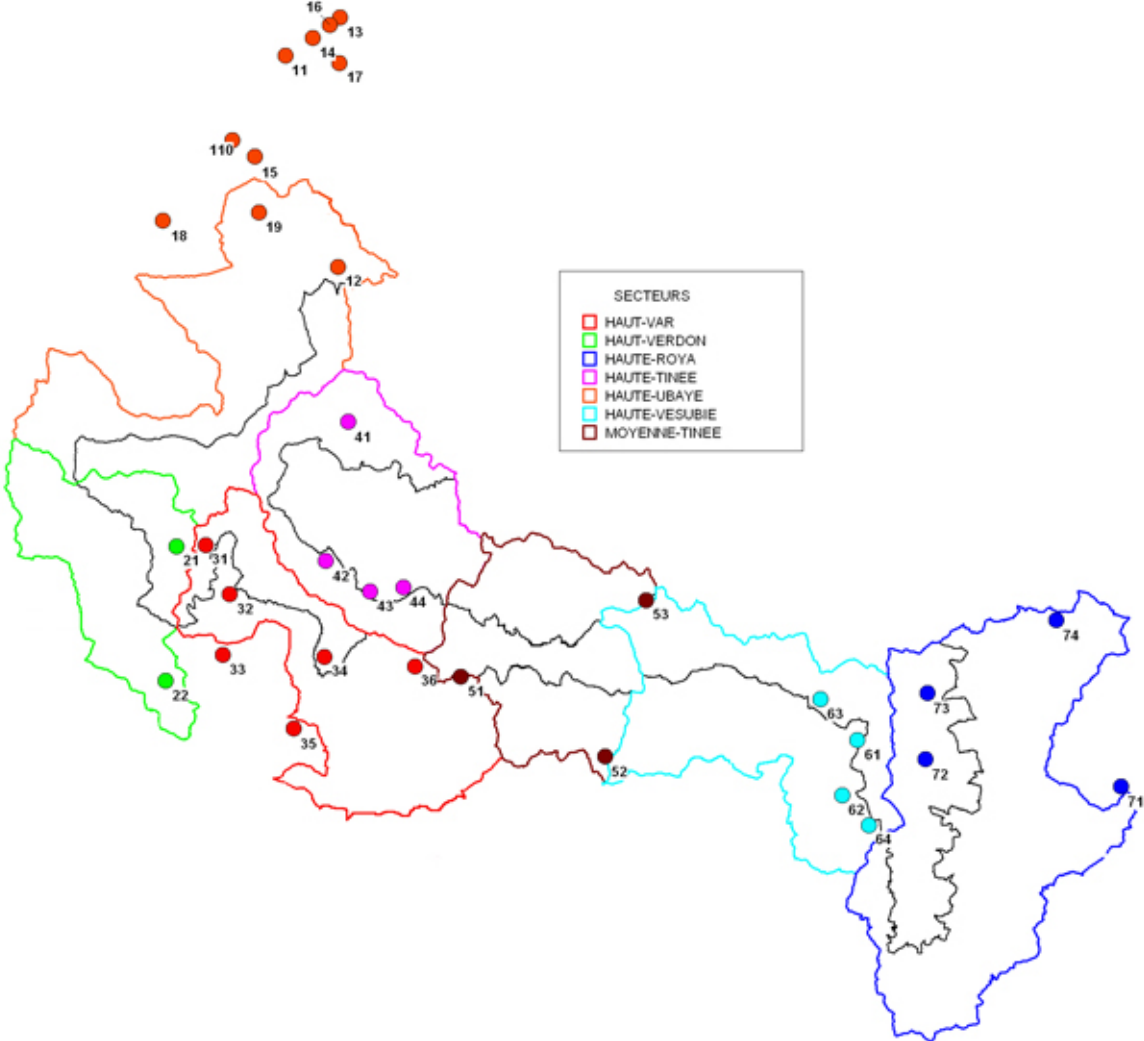


Figure 9: Location of observers in the Mercantour National Park (M.Perfus)

Thanks to Hans-Peter Gunsch and Klaus Bliem a monitoring team could be organised for the 10th, 13th, 15th and 24th of November. Several areas of the southern slopes in the Ötztaler Alpen (Südtirol) and the northern parts of Stilfserjoch National Park could be covered. Some results from the Ötztaler Alpen are of exception interest. For example the bird “Temperatio” could be observed on four (4!) different observation spots on the same day. Thus it was possible to follow its movements and its contacts with other Bearded vultures in the area (see Figure 10).

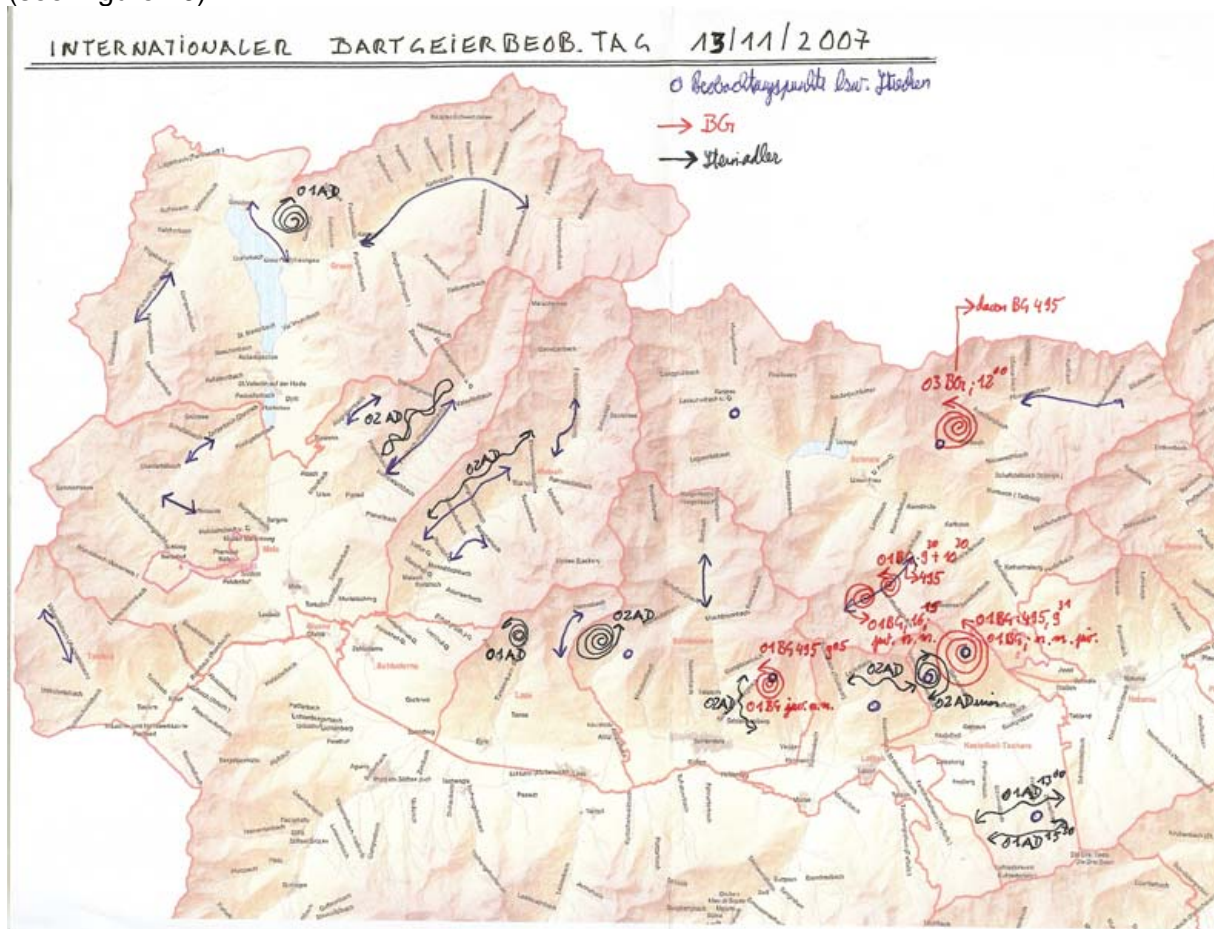


Figure 10: Location of observers in Südtirol (N-Italy) on the 13th of November. Blue colour indicates observation areas, in black Golden eagle and in red Bearded vulture observations have been marked (K.Bliem).

Moreover Hans-Peter Gunsch organised a team of 11 people for three days on the northern slopes of the national park. According to him the bird “Zufall” was spotted at least once on the 15th of November.

Unfortunately the weather conditions were extremely bad in Austria. Even though a high number of observers could be encouraged to survey the terrain the number of observed birds remained zero and the monitoring outcome marginal. To demonstrate the efforts of the autrian colleagues the distribution of observers should be shown though (see Figure 11).

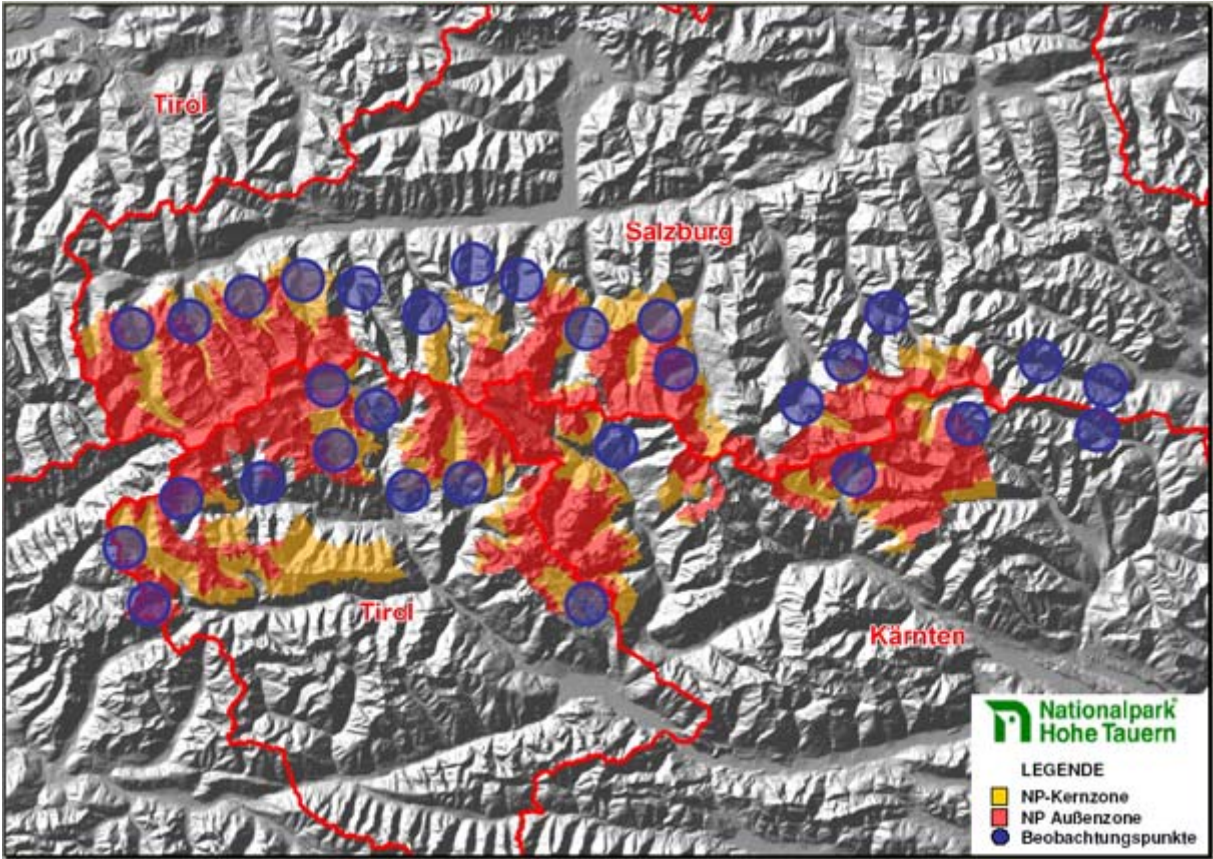


Figure 11: Location of observers in the area of Hohe Tauern National Park on 10th and 24th of November 2007.

3.2 Second Count 22nd & 28th of November

Because the northern and central Alps could not be monitored sufficiently around the 10th of November a second date was proposed by some IBM partners to enlarge the area effectively monitored at the same time. The date fixed was the 24th of November. Unfortunately the weather conditions did not significantly differ from the 10th of November. Moreover for some partners it was not possible to organise monitoring teams of the same size and efficiency for a second time. This has to be understood especially in the case of our colleagues in the south-western Alps since their efforts were exceptional high for the first count. The area approximately covered on the 24th of November is shown in Figure 13.

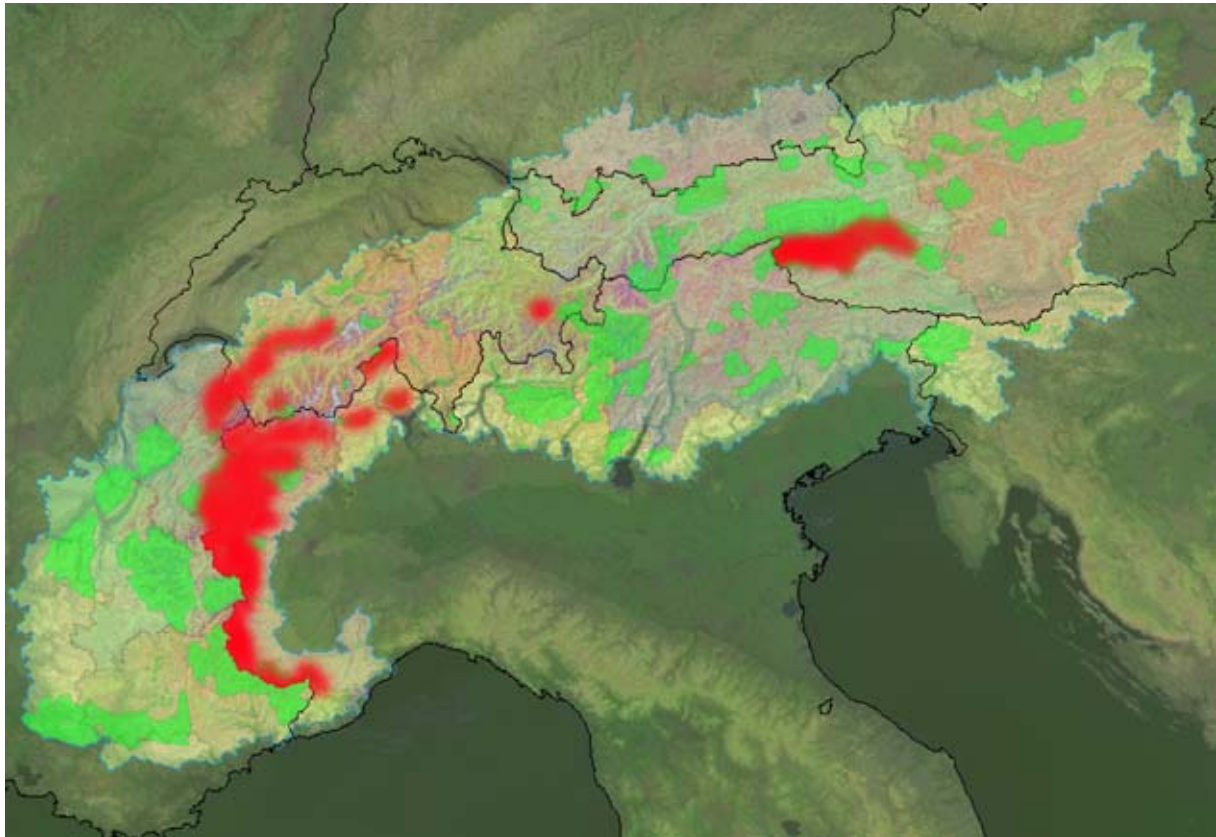


Figure 13: Areas covered by the qualified observers on the 24th of November 2007

Between 22nd and 28th of November 31 observations have been reported so far. Within the core time on 24th of November a number of 14 observations equals 14 different birds. Especially the territorial adults in the Vanoise National Park should be mentioned in this context.

Table 8: Observations recorded between 22nd -28th of November 2007. Bold dates indicate core time.

	Date	Age	Bird ID	Location	Country
1	22.11.2007	immature (3.year)		Lauterbrunnen	Switzerland
2	23.11.2007	subad or adult (?)		Matrei in Osttirol	Austria
3	23.11.2007	Juvenile	Romaris	Prägraten am Großvenediger	Austria
4	23.11.2007	adult (>6.Jahr)		Prägraten am Großvenediger	Austria
5	23.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
6	23.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
7	24.11.2007	adult (>6.Jahr)		Termignon	France

8	24.11.2007	adult (>6.Jahr)		Termignon	France
9	24.11.2007	adult (>6.Jahr)		Preisey-Nancrois	France
10	24.11.2007	adult (>6.Jahr)		Preisey-Nancrois	France
11	24.11.2007	adult (>6.Jahr)		Val d'Isere	France
12	24.11.2007	adult (>6.Jahr)		Pralognan	France
13	24.11.2007	adult (>6.Jahr)		Matrei in Osttirol	Austria
14	24.11.2007	juvenil/immatur (?)		Matrei in Osttirol	Austria
15	24.11.2007	subadult (4.Jahr)		Morgex	Italy
16	24.11.2007	adult (>6.Jahr)		Derborence	Switzerland
17	24.11.2007	adult (>6.Jahr)		Derborence	Switzerland
18	24.11.2007	adult (>6.Jahr)		La Punt	Switzerland
19	24.11.2007	adult (>6.Jahr)		Rehmes	Italy
20	24.11.2007	Immature		Rehmes	Italy
21	25.11.2007	immatur (3.Jahr)	Escalero	Matrei in Osttirol	Austria
22	25.11.2007	adult (>6.Jahr)		Chamues-ch	Switzerland
23	25.11.2007	subadult (4.Jahr)		Morgex	Italy
24	25.11.2007	immatur (3.Jahr)		Morgex & Valdigne	Italy
25	25.11.2007	subadult (4.Jahr)		Usseglio	Italy
26	25.11.2007	adult (>6.Jahr)		La Punt	Switzerland
27	25.11.2007	adult (>6.Jahr)		La Punt	Switzerland
29	27.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
30	27.11.2007	adult (>6.Jahr)		Bad Gastein	Austria
31	27.11.2007	adult (>6.Jahr)		Bad Gastein	Austria

Another example for the strategic distribution of observers is shown in Figure 14 for Haute-Savoie coordinated by Etienne Marle (ASTERS) and for Western Switzerland coordinates by Bertrand Posse and Francois Biollaz (see Figure 16).

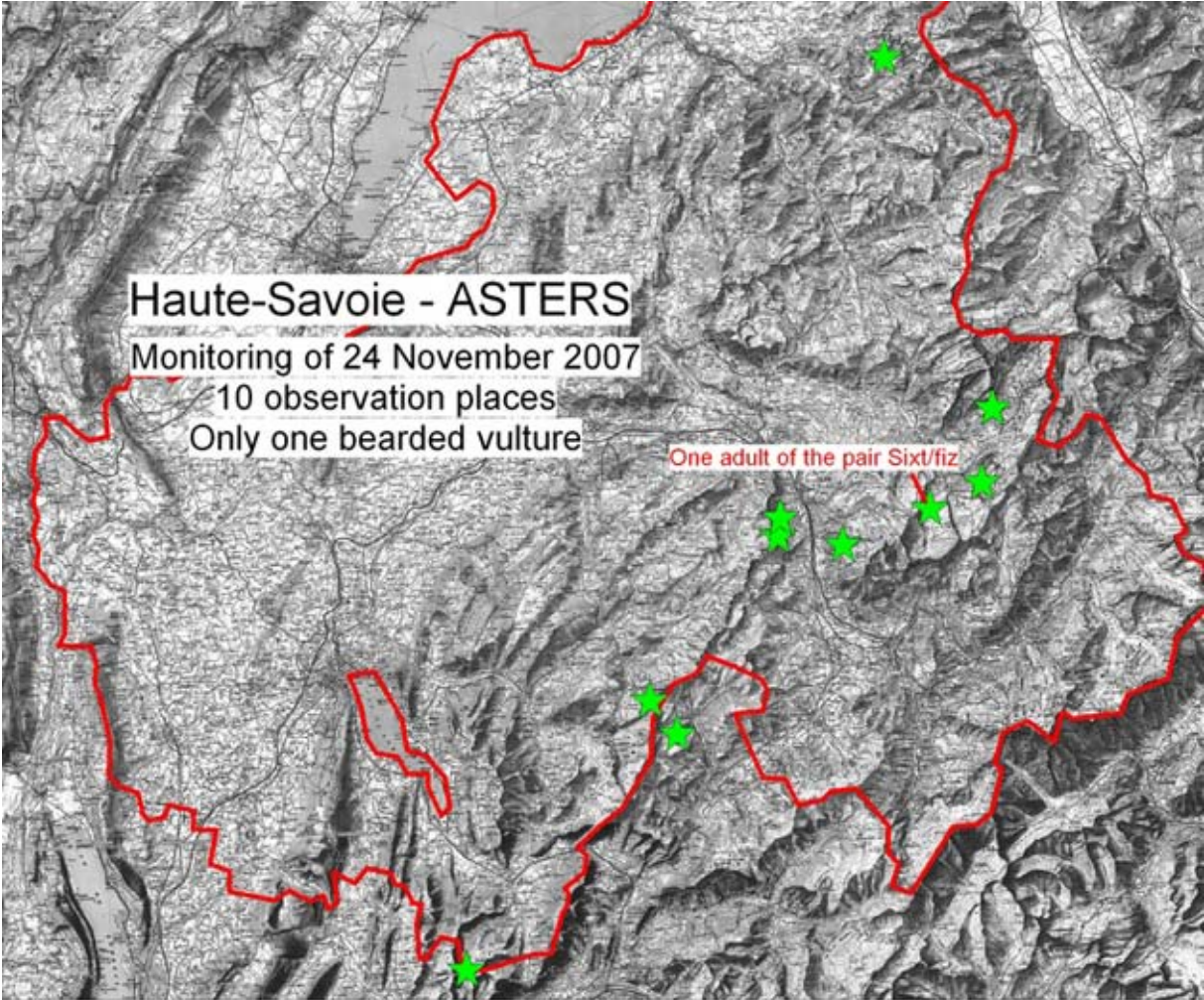


Figure 14: Location of the observers coordinated by ASTERS in Haute Savoie

The distribution of observers in the Vanoise National Park can be seen in

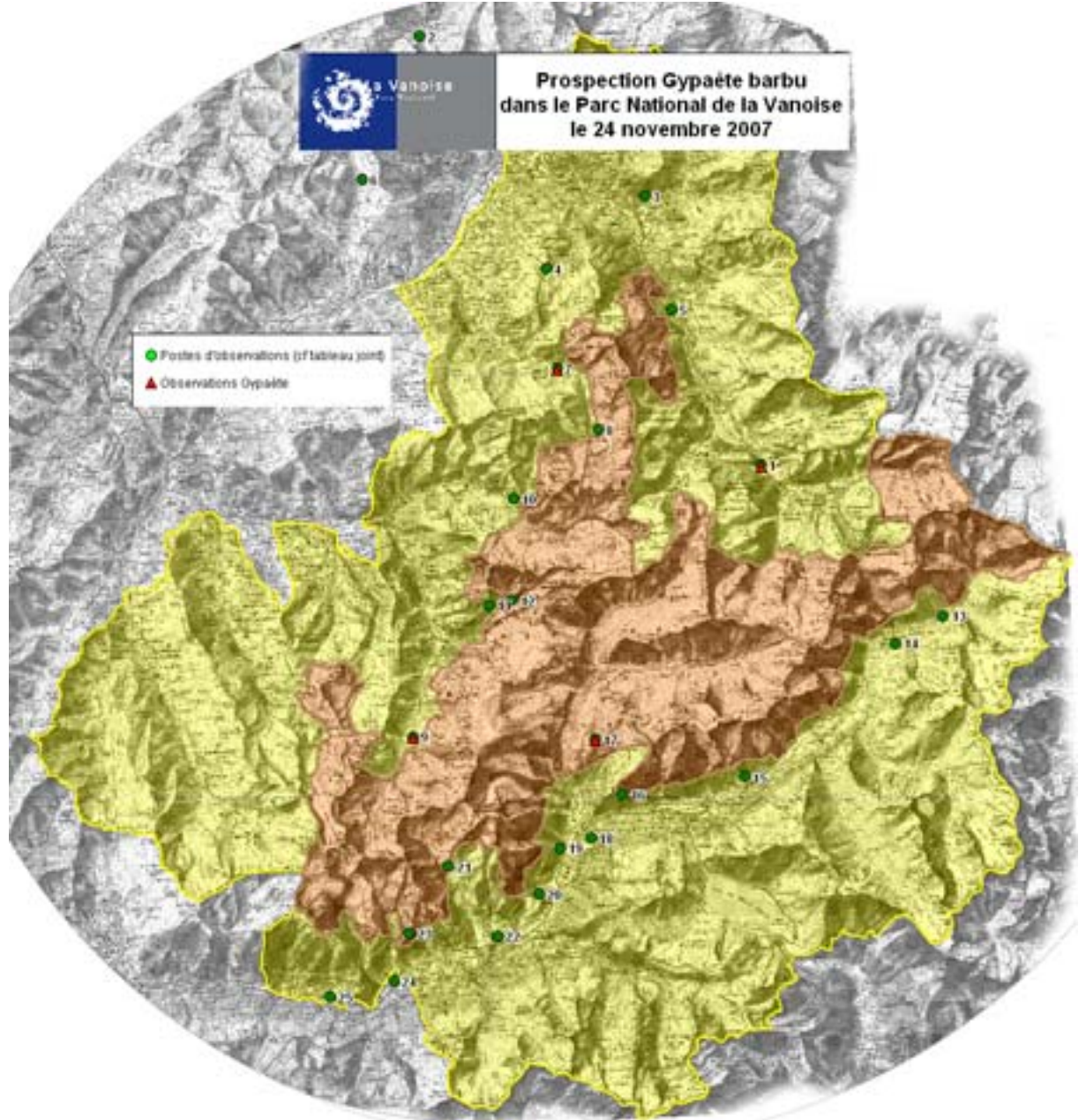


Figure 15

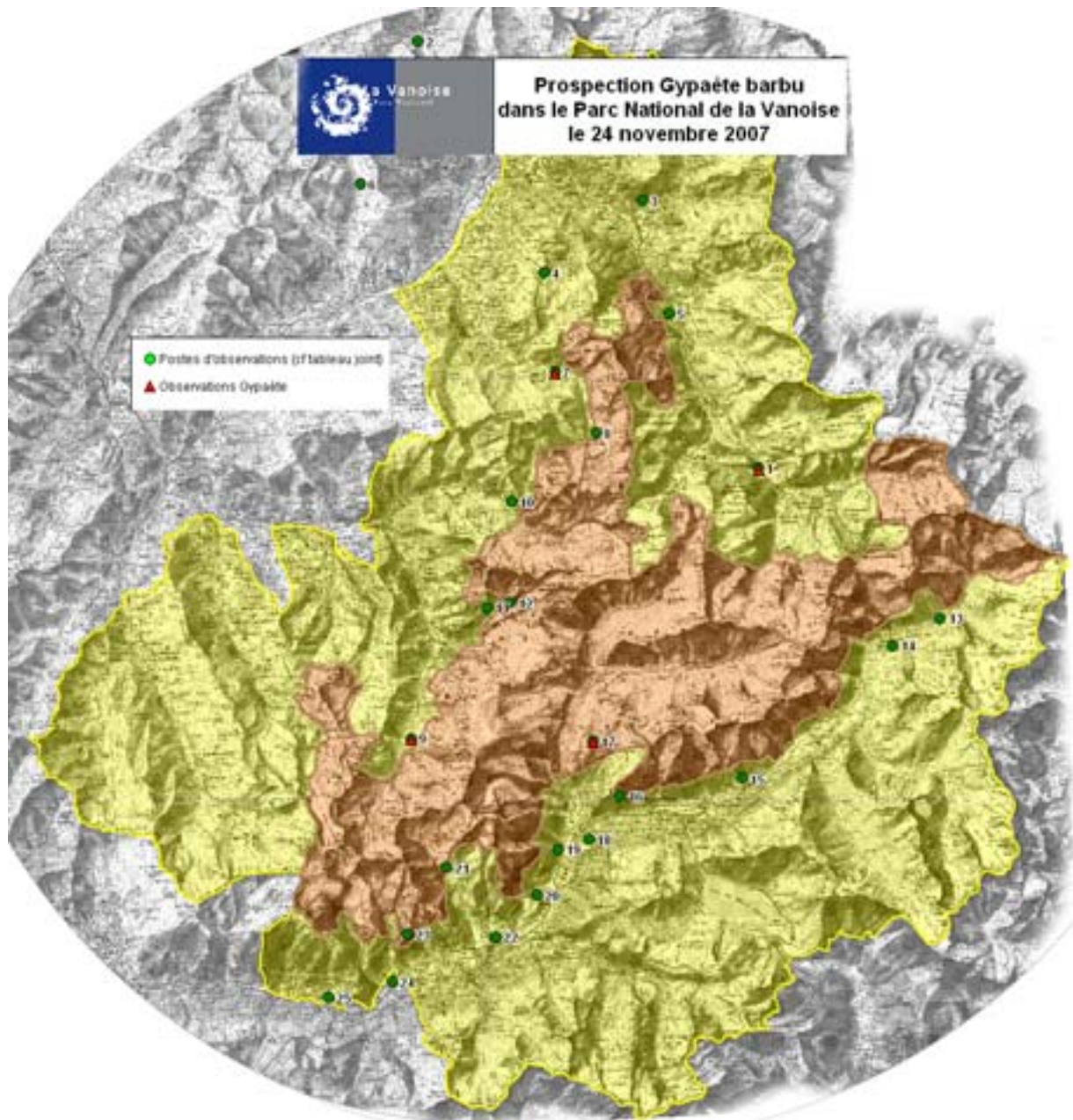


Figure 15: Location of the observers coordinated by Vanoise National Park (S. Berthillot)



Figure 16: Location of the observers coordinated in the western Swiss monitoring network

3.3 Population Size

It is tricky to think the alpine population can be estimated by the number of birds observed within a certain period (e.g. 8th and 28th of November). There is good reason to doubt that this can be done at all. That is why we urgently need the IBM data base. The data base differentiates between territorial and therefore rather stable birds on the one hand and vagrant birds on the other hand. Since the proportion of unmarked, unidentifiable birds steadily increases a precise census will not be possible in the future. But still our figures serve as indicator for the population size. They can be used for population modelling and interpolation of population size.

Anyway it is possible to estimate the number of territorial birds and add the number of observed identified individuals for a certain period. Together with the data collected in the period of November all observation data since 1st of June 2007 have been analysed. As a result 17 birds could be identified during this period (see Table 9).

Table 9: Identified birds between 1st of June and 15th of December 2007.

Vogel	Birth Date
Blangiar - ID:433	2004
Blick – ID:524	2007
Calce - ID:530	2007
Doraja - ID:465	2005
Escalero - ID:462	2005
Firmin - ID:229	1995
Fontvieille - ID:520	2007
Michegabri - ID:488	2006

Paolo Peila - ID:388	2002
Portobello - ID:497	2006
Rocca - ID:516	2007
Romaris - ID:528	2007
Samuel - ID:526	2007
Temperatio - ID:495	2006
Voltoi - ID:494	2006
YB - ID:W43	2007
Zufall - ID:493	2006

With two exceptions the birds listed in the table above can be expected to be released and still more or less vagrant. YB is a chick born in nature and Firmin is already a settled mature bird. At the moment it lives solitarily. Thus 16 identified but vagrant birds remain.

For some observations hypothesis about the identity of birds have been made (see Table 10). However this information is not sure enough to be used for population estimate.

Table 10: Listed are hypotheses of bird identities. Data basis are all observation made between 1st of June and 15th of December 2007.

Hypothese	Birth Date
Alois - ID:W50	2007
Andreas Hofer – ID:260	1996
Assignat - ID:111	1989
Bella Cha - ID:441	2004
Berna – ID:263	1996
Bingo – ID:350	2000
Colleen - ID:112	1989
Folio - ID:463	2005
Hubertus 2 - ID:446	2004
Jackpot 3 - ID:296	1998
Joker - ID:420	2003
Montblanc - ID:361	2000
Nicola - ID:138	1991
Pelat - ID:275	1997
Roubion - ID:311	1999
Veronika - ID:321	1999

In the breeding season 2007 at least 18 territorial pairs (36 individuals) and several solitary mature birds (Stura, Sinestra, Heiligenblut, Ceresole, Pralognan, Mercantour1,2,3 etc.) have been identified. The estimation of solitary adults is more complex. It will take some time until all of them have been entered in the online data base. Therefore they are not considered in the calculation below. Ten chicks have been raised successfully and fledged in summer/autumn 2007.

The number of birds that occupied territories together with the number of identified vagrant birds and the number of fledged unmarked birds is proposed to serve as simplified index for the Alpine population size.

Most recently the Alpine Population Index would be
18x2+16+10 = 62

It is important however, that this number is an index and not at all a total of the population. To increase accuracy solitary territorial birds should be entered in the reduction menu starting right now. If this is the case the result of the formula finally shall be:

Territorial individuals (pairs and solitary birds) + vagrant identified birds + fledged unmarked birds of the recent year +released birds of the recent year (if not included in vagrant birds) = Alpine Population Index

Depending on the usage of the IBM data base this index could be calculated for the next Alpine Observation Days in 2008 hopefully.

4 Discussion & Outlook

The Alpine Bearded vulture Observation Day has become an integrated part of the International Bearded vulture Monitoring. On the one hand it is a tool to raise public awareness and involve public into monitoring action. On the other hand the results are valuable to identify new territorial birds, differentiate between birds in close neighbourhood or census the population. Counting results strongly correlate with the weather conditions, the density of observers and the area covered during the survey. Unfortunately the weather hardly ever can be expected homogenous throughout the entire Alps. This complicates the handling and sometime results in frustration. However the entire results have been well worth seeing till now.

It seems obvious that a complete population census is impossible to achieve today. This shall not be our aim in the future. In fact the counting result of Alpine Observation Days should be used as a relative index for the population size. The number of observed birds surely depends on a variety of factors such as population size, monitoring effort, habitat suitability of monitored areas, weather conditions etc. Except population size these factors can be measured if we care for some minimum standards.

In the ideal case the location of observation spots should remain the same. Maybe it is even possible to persuade observers to care for the same observation point/line each year. In any case the position of each observer should be registered with coordinates. Everybody shall note the period of continuous observation time and observations of Golden eagle as a reference. Thus it would be possible to identify the effective area and period of monitoring.

To harmonise data the following minimum fields are suggested.

Table 11: Suggested minimum standard for the data exchange of the Alpine Observation Days 2008.

Date
Administration
Monitoring Area
Observation Spots
Coordinate - X
Coordinate - Y
Observers
Observation time
Age of Bird
ID of Bird

In order to profit from more stable weather conditions it is proposed to plan the Alpine Observation Day already in the second half of October.

5 Acknowledgment

I want to thank the IBM Collecting Centres for their cooperation and the work the responsible carried out while preparing the Alpine Observation Days. From the south-west to the north-east of the Alps special thanks go to:

- Mercantour National Park represented by Benoit Lequette and Monique Perfus
- Alpi Marittime Nature Park represented by Luca Giraudo and Laura Martinelli
- The Western Italian Observer Network (Piemont)
- Paolo Face (FCBV) in the Western Italian Alps
- The Observer Network in Dauphine represented by Christian Couloumy
- Regione Valle d'Aosta, represented by Christian Chioso and Natural Park Mont Avic, represented by Massimo Bocca, Roberto Facchini and Anna Foieri
- The Gran Paradiso National Park represented by Archaz van Hardenberg, Martino Nicolino & Ramona Viterbi
- The Vanoise National Park represented by Jean Pierre Martinot , Henri Suret, Jean Francois Dalix, Sandrine Berthillot and Regis Jordana
- ASTERS represented by Marie Zimmermann and Etienne Marle
- The western Swiss Observer Network represented by Bertrand Posse and Francois Biollaz
- The Stelvio National Park represented by Enrico Bassi and Hans-Peter Gunsch
- The Stiftung Pro Bartgeier represented by Chasper Buchli, Jürg-Paul Müller, Daniel Hegglin and David Jenny-Mettler

Finally I want to thank the **lead partner** for the International Bearded vulture Monitoring. **Hohe Tauern National Park** finances a major part of the so called IBM since seven years. It is represented by Ferdinand Lainer, Gunther Gressmann and Michael Knollseisen.

Numerous people participated and supported the Alpine Bearded vulture monitoring event 2007. Many of them remained unknown to the IBM office. They should be acknowledged just as much as observers reported to the IBM and mentioned hereafter.

Table 12: List of participants reported to the IBM office until 15th of December 2007.

Date	Administration	Location	observer
10.Nov	Monitoring Network Dauphiné	Barthalay	Nicolas Marie-Geneviève, Ferré Régis
10.Nov	Monitoring Network Dauphiné	Champcella	Baïssset Marcel
10.Nov	Monitoring Network Dauphiné	Chapelle de Clausis	Michel Samy
10.Nov	Monitoring Network Dauphiné	Chapelle Saint-Pierre	Gauthier Dominique, Céline Clémentine, Julien
10.Nov	Monitoring Network Dauphiné	Chaumette	Evin Emmanuelle
10.Nov	Monitoring Network Dauphiné	Clos Chevaleret	Pinel Jean-Luc, Rollet Olivier
10.Nov	Monitoring Network Dauphiné	Col de la Coulette	Lavigne Claude

10.Nov	Monitoring Network Dauphiné	Col de L'Echelle	Niermont Jean- Pierre, Roland Daniel
10.Nov	Monitoring Network Dauphiné	Col de Porte	Thonon Daniel
10.Nov	Monitoring Network Dauphiné	Col de Vars	François Eric, François Elouane
10.Nov	Monitoring Network Dauphiné	Col d'Izoard	Boscher Pascal
10.Nov	Monitoring Network Dauphiné	Col du Festre	Santini Jean- Louis, Emmery Brigitte, Serié Marie-George
10.Nov	Monitoring Network Dauphiné	Col du Parpaillon	Frin Bernard, Scheltien Jean- Marc, Ribero Nathalie
10.Nov	Monitoring Network Dauphiné	Col du Sabot	Albert Christophe
10.Nov	Monitoring Network Dauphiné	Combe Guyon	Daye Ollivier, Paulin Bruno, Kergadallan Joëlle
10.Nov	Monitoring Network Dauphiné	Couleau	Bouche Michel, Roupie Fabrice, Martinez Nathalie
10.Nov	Monitoring Network Dauphiné	Crête sud-est Chauvet	Dupland Eliane, Mroczo Cédric
10.Nov	Monitoring Network Dauphiné	Croix de Cassini	Viguiet Monique, Goujon Gérard
10.Nov	Monitoring Network Dauphiné	Eysseulières	Paulet Nils
10.Nov	Monitoring Network Dauphiné	Fond du Guil	Heitz Natacha, Silva Sébastien
10.Nov	Monitoring Network Dauphiné	Fourronnière	Vincent Dominique
10.Nov	Monitoring Network Dauphiné	Gafouille	Barteï Christine, Puillet Sylvie
10.Nov	Monitoring Network Dauphiné	Grand Maison	Rouher Julien, François Stéphanie
10.Nov	Monitoring Network Dauphiné	La Bessée Haute	Reynaud Marco, Foy André
10.Nov	Monitoring Network Dauphiné	La Chau	Zabardi Yves, Camus Denis, Camus Michel
10.Nov	Monitoring Network Dauphiné	La Draye	Conraud René, Ruhland Maïté
10.Nov	Monitoring Network Dauphiné	Lacha	Pottier Hugues, Raynouard Eric
10.Nov	Monitoring Network Dauphiné	L'Adret	Vannard Eric
10.Nov	Monitoring Network Dauphiné	L'Alp	Faure Aline, Greg, François
10.Nov	Monitoring Network Dauphiné	Le Brudou	Cortot Hervé

10.Nov	Monitoring Network Dauphiné	Le Crépon	Bulle Tommy
10.Nov	Monitoring Network Dauphiné	Le Désert	Sigaud Jean, Cavaillé Anne- Marie
10.Nov	Monitoring Network Dauphiné	Le Plan	Faure Joël
10.Nov	Monitoring Network Dauphiné	Le Sellar Prentiq	Dumas Pierre
10.Nov	Monitoring Network Dauphiné	Les Alberts	Conseil Alfred, Briard Gérard, Pinet Valérie
10.Nov	Monitoring Network Dauphiné	Les Gondoins	Thomas Bernard
10.Nov	Monitoring Network Dauphiné	Les Roranches	Jorez Isabelle
10.Nov	Monitoring Network Dauphiné	L'Eyrette	Ripert Henry, Luccioni Jérôme
10.Nov	Monitoring Network Dauphiné	Montdauphin	Couloumy Christian
10.Nov	Monitoring Network Dauphiné	Plateau d'Aurouze	Gillot Philippe, Servoz Joëlle, Roustang Vincent, Vedel Paul
10.Nov	Monitoring Network Dauphiné	Plateau des Raures	Ducordeau Vincent
10.Nov	Monitoring Network Dauphiné	Pousterle/Fournel	Baïssset Christian
10.Nov	Monitoring Network Dauphiné	Pra Prunier	Coulon Mireille, Sophie, Chariot Sandrine
10.Nov	Monitoring Network Dauphiné	Prapic	Papet Rodolphe
10.Nov	Monitoring Network Dauphiné	Pré Gentil	Argentier Bruno
10.Nov	Monitoring Network Dauphiné	Puy Chevalier	Christol Bernard
10.Nov	Monitoring Network Dauphiné	Rif Tort	Martin Jean-Paul
10.Nov	Monitoring Network Dauphiné	Serre des Boumians	Boulangeat Louise, Boulangeat Isabelle
10.Nov	Monitoring Network Dauphiné	Taillefer	Forêt Jérôme
10.Nov	Monitoring Network Dauphiné	Taroche	Cachat Jean- Claude, achat Dominique
10.Nov	Monitoring Network Dauphiné	Tramouillon	Maillet Thierry
10.Nov	Monitoring Network Dauphiné	Tunnel	Da Costa Marie- Hélène
10.Nov	Monitoring Network Dauphiné	Val d'Escreins	Lassere Ludivine, Lassere Jean
10.Nov	Monitoring Network Dauphiné	Vénéon	Roche Daniel

10.Nov	Monitoring Network Dauphiné		Vilalge	Barelle-Hustache Caroline, Michel Marie-Thérèse, Pérard Claire
10.Nov	Monitoring Network Dauphiné		Villelonge	Boissieux Franck
10.Nov	Nationalpark Stilfserjoch		Martell	Florian Winkler, Pentori Christian, Oberdörfer Johann
10.Nov	Nationalpark Stilfserjoch		Schlanders	Buffa Andrea, Dietl Robert, Kurz Eduard
10.Nov	Nationalpark Stilfserjoch		Ultental	Schwiebacher Christoph, Defrancheschi Peter
10.Nov	Regione d'Aosta	Valle	Alta Valle Chalamy	Parco Naturale Mont Avic
10.Nov	Regione d'Aosta	Valle	Alta Valle di Champorcher	Parco Naturale Mont Avic
10.Nov	Regione d'Aosta	Valle	Alta Valle di Champorcher	Parco Naturale Mont Avic
10.Nov	Regione d'Aosta	Valle	Alta Valle di Champorcher	Parco Naturale Mont Avic
10.Nov	Regione d'Aosta	Valle	Alta Valle di Cogne	Parco Nazionale Gran Paradiso
10.Nov	Regione Valle d'Aosta		Alta Valle di Gressoney	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta		Alta Valle di Gressoney	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta		Alta Valle di Gressoney	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta		Alta Valle di Gressoney	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta		Alta Valle di La Thuile (Breuil)	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta		Alta Valle di La Thuile (Chavannes)	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta		Alta Valle di La Thuile (Chavannes)	Francesco Veronesi
10.Nov	Regione Valle d'Aosta		Alta Valle di Rhemes	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta		Alta Valle di Rhemes	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta		Alta Valle di Rhemes	Parco Nazionale Gran Paradiso
10.Nov	Regione Valle d'Aosta		Alta Valle Orco	Parco Nazionale Gran Paradiso
10.Nov	Regione Valle d'Aosta		Alta Valsavarenche	Parco Nazionale Gran Paradiso
10.Nov	Regione Valle d'Aosta		Alta Valtournenche	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta		Alta Valtournenche	Corpo Forestale della Valle d'Aosta

10.Nov	Regione Valle d'Aosta		Alta Valtourmenche	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta		Bassa Valsavarenche	Parco Nazionale Gran Paradiso
10.Nov	Regione Valle d'Aosta	Valle	Media Valgrisenche	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Media Valle di Champorcher	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Media Valle di Gressoney	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Media Valle di Rhemes	Parco Nazionale Gran Paradiso
10.Nov	Regione Valle d'Aosta	Valle	Media Valle di Rhemes	Parco Nazionale Gran Paradiso
10.Nov	Regione Valle d'Aosta	Valle	Media Valsavarenche	Parco Nazionale Gran Paradiso
10.Nov	Regione Valle d'Aosta	Valle	Media Valsavarenche	Parco Nazionale Gran Paradiso
10.Nov	Regione Valle d'Aosta	Valle	Media-alta Valle di St. Barthélemy	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Val Ferret	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Val Ferret	Paolo Fasce
10.Nov	Regione Valle d'Aosta	Valle	Val Veny	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Valdigne	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Valdigne	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Valdigne	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Valle d'Ayas	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Valle d'Ayas	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Valle di Clavalité	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Valle di St. Barthelemy (Mont Faroma)	Parco Naturale Mont Avic
10.Nov	Regione Valle d'Aosta	Valle	Valle Orco (Ceresole)	Guido Cattaneo
10.Nov	Regione Valle d'Aosta	Valle	Valle Soana	Parco Nazionale Gran Paradiso
10.Nov	Regione Valle d'Aosta	Valle	Vallone del Gran S. Bernardo	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Vallone del Gran S. Bernardo	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Vallone del Gran S. Bernardo	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Vallone di Vertosan	Corpo Forestale della Valle d'Aosta
10.Nov	Regione Valle d'Aosta	Valle	Valpelline	Corpo Forestale della Valle d'Aosta

10.Nov	Regione d'Aosta	Valle	Valpelline	Corpo Forestale della Valle d'Aosta
10.Nov	Regione d'Aosta	Valle	Valpelline	Corpo Forestale della Valle d'Aosta
10.Nov	Regione d'Aosta	Valle	Vetan	Corpo Forestale della Valle d'Aosta
10.Nov	Stelvio National Park		Lombardia & Trento	Enrico Bassi, Marco Tasin
10.Nov	Stiftung Pro Bartgeier		Albula	David Jenny-Mettler
10.Nov	Swiss National Park		Albula	Thomas Wehrli
10.Nov	Ufficio per la Fauna selvatica		Alta Valgrisenche	Corpo Forestale della Valle d'Aosta
10.Nov	Western Italian Observer Network		Alpe Colle (comune Ogebbio - VB)	Botta Claudio
10.Nov	Western Italian Observer Network		Alpe Curgei	Luca Migliore - Cesti Roberto
10.Nov	Western Italian Observer Network		Alpe Devero	Radames Bionda
10.Nov	Western Italian Observer Network		Alpe la Roussa - Bobbio Pellice	F. Avondetto,
10.Nov	Western Italian Observer Network		Alpe Muret –Colle della Buffa – Val Germanasca (Perrero)	Di Gregorio Renzo, Giustetto Guido
10.Nov	Western Italian Observer Network		Alpe Sella Vecchia - Angrogna	M. Salsotto
10.Nov	Western Italian Observer Network		Alpe Veglia	gp
10.Nov	Western Italian Observer Network		Bec di Mea	Margherita Chiola - Lucia Francesia
10.Nov	Western Italian Observer Network		bivacco B. Molino	Carlo Marietta - Orietta Ravicchio
10.Nov	Western Italian Observer Network		Bourcet – Borgata Grange – Chastairan – (Roure Chisone)	Rosselli Domenico
10.Nov	Western Italian Observer Network		Bout du col - Prali	Gaydou Federica
10.Nov	Western Italian Observer Network		Bric del Vallone- Rocca del Laux (Usseaux)	Bottero Elisa, Stocco Patrick
10.Nov	Western Italian Observer Network		Brusà del Plan- valle Argentera (Sauze di Cesana)	Fornero Cinzia
10.Nov	Western Italian Observer Network		Chastairan – (Roure Chisone)	Aldo Rizzo
10.Nov	Western Italian Observer Network		Cima della Laurasca	Chiara De Franceschi - Torniai Simone
10.Nov	Western Italian Observer Network		Cima Sasso	Cristina Movalli - Barone Emilio

10.Nov	Western Italian Observer Network	Colle delle Faure - Bobbio Pellice	L. Giovo, C. Bertinat, N. Basso
10.Nov	Western Italian Observer Network	colle Vaccera - Angrogna	R.Bertin, R. Bertin
10.Nov	Western Italian Observer Network	Colma di Premosello	Marco Deò - Dresco Marco
10.Nov	Western Italian Observer Network	Conca Cialancia (Perrero) – Campo la Clot (Salza)	Quercia Ilenia
10.Nov	Western Italian Observer Network	Conca del Prà - Bobbio Pellice	F.Granero
10.Nov	Western Italian Observer Network	Faussimagna-Bergeria delle Rocce (Pragelato)	Bourlot Marcello
10.Nov	Western Italian Observer Network	Forte Foens	Casse R. - P. MARRE
10.Nov	Western Italian Observer Network	Melmise	Cardinali L. - Rossetti C.
10.Nov	Western Italian Observer Network	Monte Massone (Comune Ornavasso - VB)	Moschini Walter
10.Nov	Western Italian Observer Network	Monte Zeda	Isabelli Matteo
10.Nov	Western Italian Observer Network	Pian Ciaramella	Maurizio Chiereghin
10.Nov	Western Italian Observer Network	Pian dell'Alpe - Usseaux	Pane Andrea
10.Nov	Western Italian Observer Network	Pizzo Faié	Ghea Martinelli - Di Persio Luciano
10.Nov	Western Italian Observer Network	Prà la Comba - Villar Pellice	N.Malavenda
10.Nov	Western Italian Observer Network	Pramand	Penazzi
10.Nov	Western Italian Observer Network	Punta Gardiol Vallone Gran d'hoche – Chaberton – croce san giuseppe	Chaulet R.
10.Nov	Western Italian Observer Network	Rocca Bianca – Conca Cialancia (Perrero)	Lingua Antonio
10.Nov	Western Italian Observer Network	Rocca dell'Aquila-Balziglia (Massello)	Ficetto Giorgio
10.Nov	Western Italian Observer Network	Rochemolles Valfredda	Kurskinski F. - Molin C., Corti R.
10.Nov	Western Italian Observer Network	Rochemolles	Massara P.
10.Nov	Western Italian Observer Network	Saret del Campo - Fenestrelle	Vita Arcangelo
10.Nov	Western Italian Observer Network	Sportina Sauze d'Oulx	Peirola
10.Nov	Western Italian Observer Network	Troncea - valle Argentera (Sauze di Cesana)	Usseglio Bruno

10.Nov	Western Italian Observer Network	Val Bognanco -S. Bernardo (VB)	Girlanda Graziano
10.Nov	Western Italian Observer Network	Val Troncea – Banchetta – Villardamond Prigelato (TO)	Alberti Silvia
10.Nov	Western Italian Observer Network	Valfrejus Pian delle Stelle	Bevacqua F.
10.Nov	Western Italian Observer Network	Valle Divedro - Alpe Solcio (VB)	Girlanda Aldo
10.Nov	Western Italian Observer Network	Valle d'Ovarda	Giuseppe Andrione - Giovanni Scago
10.Nov	Western Italian Observer Network	Valle Ellero - Pian Marchisa	Mauro Fissore
10.Nov	Western Italian Observer Network	Valle Formazza (VB)	Lux Elena
10.Nov	Western Italian Observer Network	Valle Gesso - M.te Ray	Paolo Fantini
10.Nov	Western Italian Observer Network	Valle Maira - Acceglio	Giorgio Perello
10.Nov	Western Italian Observer Network	Valle Maira - Chiappera	Mauro Castelli
10.Nov	Western Italian Observer Network	Valle Maira - Ussolo	Bruno Bertello
10.Nov	Western Italian Observer Network	Valle Pesio - Punta Mirauda	Franco Delpiano
10.Nov	Western Italian Observer Network	Valle Po - Meire Tirolo - Oncino	Daniele Garabello, Marco Rastelli, Luca Valenti e Gianni Salvatico
10.Nov	Western Italian Observer Network	Valle Strona - M.te Capezzone (VB)	Scarsetti Alberto
10.Nov	Western Italian Observer Network	Valle Stura - Argentera	Silvano Giordana
10.Nov	Western Italian Observer Network	Valle Susa - Alpe Carolei - Novalesa	Giuseppe Ferrero
10.Nov	Western Italian Observer Network	Valle Susa - cà d'Asti - Mompantero	Graziano Borello
10.Nov	Western Italian Observer Network	Valle Susa - Quattro Denti - Chiomonte	Elisa Avanzinelli
10.Nov	Western Italian Observer Network	Valle Susa - Toasso Bianco - Venaus	Gianfranco Careddu
10.Nov	Western Italian Observer Network	Valle Susa - Tuas Venezia - Mompantero	Luca Giunti
10.Nov	Western Italian Observer Network	Valle Tanaro - Colla di Carnino	Massimo Sciandra
10.Nov	Western Italian Observer Network	Valle Thures - Thuras	Roux Poignant G.
10.Nov	Western Italian Observer Network	Valle Varaita - Bellino	Fabrizio Blangetti

10.Nov	Western Italian Observer Network	Valle Varaita - Pontechianale	Franco Bergese
10.Nov	Western Italian Observer Network	Valle Vermenagna - Sant'Anna	Riccardo Lussignoli
10.Nov	Western Italian Observer Network	vallone di Rochemolles - Bardonecchia	Dijaux A. – Marotto P.
10.Nov	Western Italian Observer Network	Vallone Grange della valle	Cibonfa R.
10.Nov	Western Italian Observer Network	Vallone Rio Secco	Perron S.
10.Nov	Western Italian Observer Network	Vandalino - Torre Pellice	M.Gonin P.A. Ronfetto
11.Nov	Ufficio per la Fauna selvatica	Valle di Rhemes (Melignon)	Paolo Fasce
13.Nov	Nationalpark Stifserjoch	Glurns	Gander Heinrich
13.Nov	Nationalpark Stifserjoch	Monte Montoni	Waldner Klaus
13.Nov	Nationalpark Stifserjoch	Schlanders	Buffa Andrea, Dietl Robert, Kurz Eduard
13.Nov	Nationalpark Stifserjoch	Sulden	Tschenett Christian
15.Nov	Nationalpark Stifserjoch	Martell	Florian Winkler, Pentori Christian, Oberdörfer Johann
24.Nov	Nationalpark Stifserjoch	Schlanders	Buffa Andrea, Dietl Robert, Kurz Eduard
24.Nov	Parc Nationaux de la Vanoise	Aussois	Karine MOUSSIEGT
24.Nov	Parc Nationaux de la Vanoise	Barrage d'Aussois	Thierry BARDAGI
24.Nov	Parc Nationaux de la Vanoise	Bellecombe	Jean-Luc ETIEVANT
24.Nov	Parc Nationaux de la Vanoise	Bonneval	Jérémy JOURDAIN
24.Nov	Parc Nationaux de la Vanoise	Chalet des gardes	Thomas CORBET
24.Nov	Parc Nationaux de la Vanoise	Chatalamia	Benoit MARTINEAU
24.Nov	Parc Nationaux de la Vanoise	Col de la Madelaine	Olivier TROMPETTE
24.Nov	Parc Nationaux de la Vanoise	Col des Frettes	Hervé BLANCHIN et Malorie VERGNEAU
24.Nov	Parc Nationaux de la Vanoise	Creux Noir	Caroline EMPEREUR et Céline RUTTEN

24.Nov	Parc Nationaux de la Vanoise		La Daille	Michael DELORME
24.Nov	Parc Nationaux de la Vanoise		La Gurraz	Stéphane MELE
24.Nov	Parc Nationaux de la Vanoise		La Laisonnay	Christophe GOTTI
24.Nov	Parc Nationaux de la Vanoise		Le Miroir	Erick LECOCQ
24.Nov	Parc Nationaux de la Vanoise		l'Ecot	Franck PARCHOUX
24.Nov	Parc Nationaux de la Vanoise		L'Epinerie	Emile BERTHILLOT
24.Nov	Parc Nationaux de la Vanoise		Les Chapieux	Christian BALAIS
24.Nov	Parc Nationaux de la Vanoise		L'Estive	Valérie HAGRY
24.Nov	Parc Nationaux de la Vanoise		Mindières	Henri SURET
24.Nov	Parc Nationaux de la Vanoise		Montaimont	Alain et Christiane DETEIX
24.Nov	Parc Nationaux de la Vanoise		Pra Maria	Damien HEMERAY
24.Nov	Parc Nationaux de la Vanoise		Saint André	Sébastien BREGEON
24.Nov	Parc Nationaux de la Vanoise		Sardières	Jean-François DALIX
24.Nov	Parc Nationaux de la Vanoise		Sollières Rive droite	Séverine MAGNOLON
24.Nov	Parc Nationaux de la Vanoise		Termignon Rive gauche	Didier MALRAT
24.Nov	Parc Nationaux de la Vanoise		Vallée du Foran	Christian MARCK
24.Nov	Regione d'Aosta	Valle	Alta Valgrisenche	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Alta Valle Chalamy	Parco Naturale Mont Avic
24.Nov	Regione d'Aosta	Valle	Alta Valle di Champorcher	Parco Naturale Mont Avic
24.Nov	Regione d'Aosta	Valle	Alta Valle di Champorcher	Parco Naturale Mont Avic
24.Nov	Regione d'Aosta	Valle	Alta Valle di Champorcher	Parco Naturale Mont Avic
24.Nov	Regione d'Aosta	Valle	Alta Valle di Gressoney	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Alta Valle di Gressoney	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Alta Valle di Gressoney	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Alta Valle di Gressoney	Corpo Forestale della Valle d'Aosta

24.Nov	Regione d'Aosta	Valle	Alta Valle di Rhemes	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Alta Valtournenche	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Alta Valtournenche	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Alta Valtournenche	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	La Thuile (Loc. Pont Serrand, Riondet)	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Media Valgrisenche	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Media Valle di Champorcher	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Media Valle di Gressoney	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Media Valle di Rhemes	Parco Nazionale Gran Paradiso
24.Nov	Regione d'Aosta	Valle	Media Valsavarenche dx orografico	Parco Nazionale Gran Paradiso
24.Nov	Regione d'Aosta	Valle	Media-alta Valle di St. Barthélemy	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Val Ferret	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Val Veny	Azienda Faunistica Venatoria Mont Blanc
24.Nov	Regione d'Aosta	Valle	Valdigne	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Valle d'Ayas	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Valle d'Ayas	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Valle di Clavalité	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Valle di St. Barthelemy (Mont Faroma)	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Vallone del Gran S. Bernardo	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Vallone del Gran S. Bernardo	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Vallone del Gran S. Bernardo	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Vallone di Vertosan	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Valpelline	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Valpelline	Corpo Forestale della Valle d'Aosta
24.Nov	Regione d'Aosta	Valle	Valpelline	Corpo Forestale della Valle d'Aosta

24.Nov	Regione d'Aosta	Valle	Vetan	Corpo Forestale della Valle d'Aosta
24.Nov	Stiftung Pro Bartgeier		Albula	David Jenny-Mettler
24.Nov	Swiss National Park		Albula	Thomas Wehrli
24.Nov	Western Swiss Monitoring Network		Cabane de la Tourche	Emmanuel Rey, Claudia Degen
24.Nov	Western Swiss Monitoring Network		Col de Coux	Michel Chesaux
24.Nov	Western Swiss Monitoring Network		Col du Jorat	Norbert Jordan
24.Nov	Western Swiss Monitoring Network		Derborence	Bertrand and Nadia Posse, Laurent Willenegger, Jérôme Gremaud
24.Nov	Western Swiss Monitoring Network		Emosson	François Biollaz, Christine Grossen
24.Nov	Western Swiss Monitoring Network		Gemmi	Dolf Roten
24.Nov	Western Swiss Monitoring Network		Haut Val de Bagnes	Bertrand Gabbud
24.Nov	Western Swiss Monitoring Network		Loutze	Thibaut Diserens
24.Nov	Western Swiss Monitoring Network		Oeschinensee	Mike Schaad, Alain Jacob
24.Nov	Western Swiss Monitoring Network		Route du Rawyl	Nicolas & Michael Dussex
24.Nov	Western Swiss Monitoring Network		Schilthorn	Brigitte and René Abgottspon
24.Nov	Western Swiss Monitoring Network		Sefinenfurke	Lukas Wille
24.Nov	Western Swiss Monitoring Network		Spillgarten	Salome Steiner, Marco Thoma
24.Nov	Western Swiss Monitoring Network		Tseuzier	Bernard Michellod
24.Nov	Western Swiss Monitoring Network		Üeschenental	Niklaus Reusser, Gregor Wittwer
25.Nov	Regione Valle d'Aosta		Valdigne	Paolo Fasce, Corpo Forestale della Valle d'Aosta

