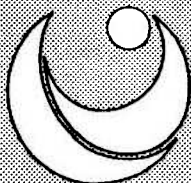


240

oppdragsmelding

Documentation of the demography
and population monitoring
systems for Antarctic Petrels
at Svarthamaren,
Dronning Maud Land

Svein-Håkon Lorentsen
Nils Røv
Georg Bangjord



NINA

Publication No. 129 of
the Norwegian Antarctic Research Expedition
(1991/92)

NORSK INSTITUTT FOR NATURFORSKNING

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Abstract

Lorentsen, S.-H., Røv, N. & Bangjord, G. 1993. Documentation of the demography and population monitoring systems for Antarctic Petrels at Svarthamaren, Dronning Maud Land. - NINA Oppdragsmelding 240: 1-71.

During the Norwegian Antarctic Research Expedition 1991/92, four 9 x 15 m squares for long-term demographic studies and 201 study plots for population monitoring of Antarctic Petrels *Thalassoica antarctica* were established at Svarthamaren (71° 53' S, 5° 10' E), Dronning Maud Land. This report details their geographical location at Svarthamaren.

Key words: Antarctic Petrel - demography - population monitoring - documentation

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Georg Bangjord, County Environmental Protection department in Sør-Trøndelag, Statens Hus, N-7005 Trondheim.

Referat

Lorentsen, S.-H., Røv, N. & Bangjord, G. 1993. Dokumentasjon av demografi- og bestandsovervåkingsfelt for antarktispetrell, Svarthamaren, Dronning Maud Land. - NINA Oppdragsmelding 240: 1-71.

Under den Norske Antarktisekspedisjonen 1991/92 ble det i Svarthamaren (71°53' S, 5°10' E), Mühlighofmannfjella, Dronning Maud Land, lagt ut fire overvåkingsfelt for demografiske studier samt ett rutesystem for bestandsovervåking av antarktispetrell. Demografifeltene er 9 x 15 m, og inndelt i 15 ruter på 3 x 3 m. Alle reir med innhold innenfor hver av disse rutene ble nedtegnet på et kart, og voksenfuglene og ungene ble ringmerket. Bestands- overvåkingsfeltet består av 201 systematisk utlagte punkter som er permanent merket med aluminiums- stenger eller rødmalings. For hver av disse punktene telles alle reir med innhold innenfor en radius på 10 m². Denne rapporten dokumenterer plasseringen av disse feltene i Svarthamaren.

Emneord: Antarktispetrell - demografi - bestands- overvåking - dokumentering.

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Georg Bangjord, Fylkesmannen i Sør-Trøndelag, Statens Hus, 7005 Trondheim.

Preface

This report gives details about the location of plots for monitoring demographic parameters and population development in the Antarctic Petrel at Svarthamaren, Dronning Maud Land. These study plots were established during the Norwegian Antarctic Research Expedition (NARE) 1991/92, which was financed by the Norwegian Research Council (NFR) Norwegian Polar Institute and the Norwegian Institute for Nature Research (NINA). The Norwegian Polar Institute provided the logistics. This report was written while SHL held a grant from NFR. The drawings were made by SHL using Corel Draw and Excel. Richard Binns corrected the English. This is publication No. 129 of the Norwegian Antarctic Research Expeditions (1991/92).

Trondheim, November 1993

Svein-Håkon Lorentsen
Nils Røv
Georg Bangjord

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1 Introduction

According to the objectives of the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR), the ecological relationships between harvested and dependent species must be maintained. The nations that have signed the Convention are expected to "compile data on the status of and changes in populations of Antarctic marine living resources and on factors affecting the distribution, abundance and productivity of harvested species and dependent species or populations". It is therefore essential to monitor the populations and it is of vital importance that such monitoring programmes identify species and parameters that are likely to be particularly sensitive to changes in environmental conditions and harvesting regimes.

The CCAMLR Ecosystem Monitoring Programme (CEMP) is the part of the scientific programme set up by the Commission that aims to detect changes in the reproduction, growth and condition, feeding ecology and behaviour, and abundance and distribution of animals that are not commercially harvested.

The largest Antarctic Petrel *Thalassoica antarctica* colony so far described is situated at Svarthamaren (71° 53' S, 5° 10' E), Dronning Maud Land. Here, about 250 000 pairs are breeding (Mehlum et al. 1988, Røv 1991). In addition, about 200 000-250 000 nonbreeding individuals are found, giving a total number of about 750 000 adults present during the incubation period.

During the Norwegian Antarctic Research Expedition 1991/92 plots were set up to monitor demographic parameters and population development in the Antarctic Petrel. The Antarctic Petrel lives all year round in areas of drift-ice surrounding the continent. Consequently, any changes occurring in the parameters monitored will be caused by changes in the availability of food or the environmental conditions in Antarctica. These two monitoring systems are described below, with emphasis on the precise location of the plots.

2 The demography fields

2.1 General

Each of the four demography fields consists of 3 x 3 m squares (plots) located in a grid comprised of 3 squares horizontally and 5 squares vertically making a 9 x 15 m grid. The horizontal lines are numbered from A (the lowest line) to F (the highest line) and the vertical lines from 1 (left) to 4 (right). Each of the 3 x 3 m plots are named by the lowest left point (Figure 1).

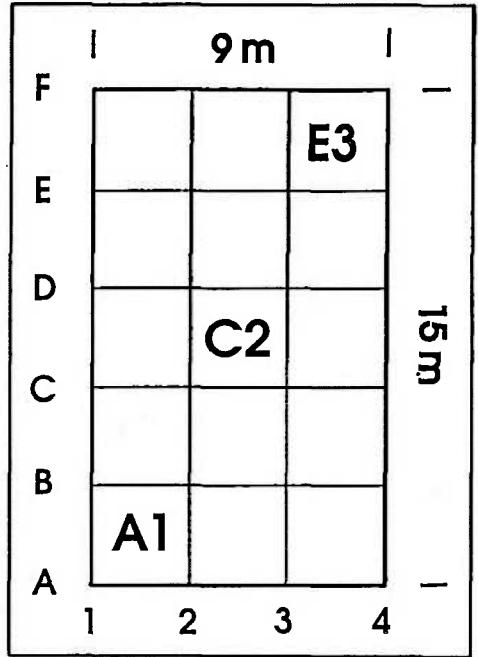


Figure 1. The construction of each of the four demography fields. Each field was constructed using a grid net of 15 x 3 m squares (plots) with 3 squares horizontally and 5 squares vertically. The horizontal lines are numbered from A (the lowest line) to F (the highest line) and the vertical lines from 1 (left) to 4 (right). Each 3 x 3 m square is named by the lowest left point.

Each corner of the demography field is permanently marked with an aluminum pole with the number of the point engraved at its top. The poles are painted yellow at the top. Thus, even if one (or several) of the poles are missing it should be possible to reconstruct the demography field.

The location of every nestsite in each 3 x 3 m plots was mapped and an attempt was made to catch and ring the individual birds sitting on the specific nests during several visits to the demography fields. A plot map showing the location of the nestsites used in 1991-92 and the ring number of the adults and the chick at each nest is given after the description of each demography field.

2.2 Demography field no. 1

Demography field no. 1 is in the northernmost subcolony (closest to the camp). It is in the upper half of the right side of the subcolony viewed from below. The location of the demography field within the subcolony is shown on Figures 2 and 3. Plot maps are presented on pp. 16-30.

2.3 Demography field no. 2

Demography field no. 2 is situated in the northernmost part of the southern subcolony. It is in the lower/middle part of the colony, north of a gravel-covered "wedge" (Figures 4 and 5). Plot maps are presented on pp. 31-45.

2.4 Demography field no. 3

Demography field no. 3 is in the middle of the southern subcolony, just below parts of the colony that are unused owing to exposed bedrock (Figures 6 and 7). Plot maps are presented on pp. 46-60.

2.5 Demography field no. 4

Demography field no. 4 is in the southernmost part of the southern subcolony, on the right side of the lower part of the colony (Figures 8 and 9). Plot maps are presented on pp. 61-75.

3 The population monitoring system

The Antarctic Petrel colony at Svarthamaren is divided into two naturally delimited "subcolonies", north and south. We have established a grid net in each of the "subcolonies", with 40 m (horizontally and vertically) between each study plot, following a modified version of the "Star" system described by Anker-Nilssen & Røstad (1993). The centre of each plot is marked with an aluminum pole with the plot number engraved on its top, or by red paint in the case of plots situated on bedrock. In each plot every **nest with content** within a circle of 10 m² was counted. To do this, it is convenient to use a 1.78 m long rope which is rotated around one end held above the aluminum pole or the red paint at the centre of the plot.

The northernmost "subcolony" contains 65 plots (Figure 10). Its reference point (F5) is shown in Figure 11. The horizontal lines have a compass direction of 336°, and the vertical lines 246°.

The southernmost "subcolony" contains 136 plots (Figure 12). Its reference point (E13) is shown in Figures 13 and 14. The horizontal lines have a compass direction of 340°, and the vertical lines 250°. Some of the most inaccessible plots in this subcolony were not marked in the field.

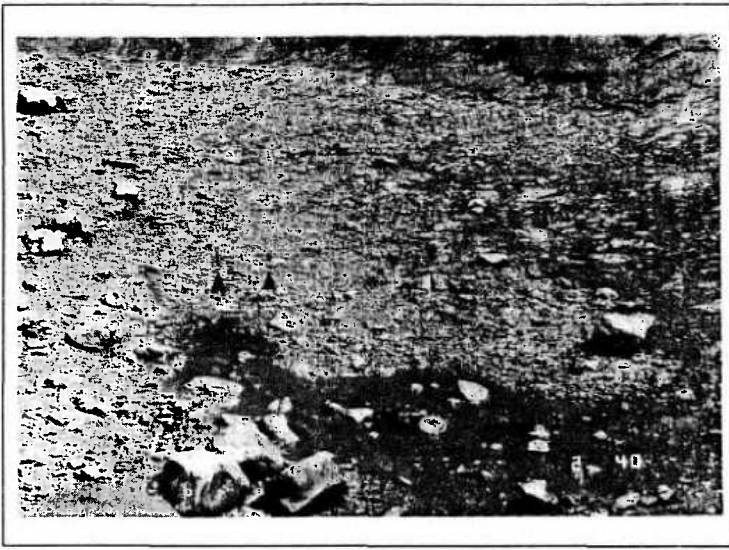


Figure 2. The location of demography field no. 1 in the northernmost subcolony at Svarthamaren (picture 240). The arrows point to two persons standing at the two lowest corners.



Figure 3. Close-up of the location of demography field no. 1 (picture 241). The arrows point to two persons standing at the two lowest corners.

Figure 4. The location of demography field no. 2 in the lower/middle part of the southern subcolony at Svarthamaren (picture 246). The arrows point to two persons standing at the two lowest corners.

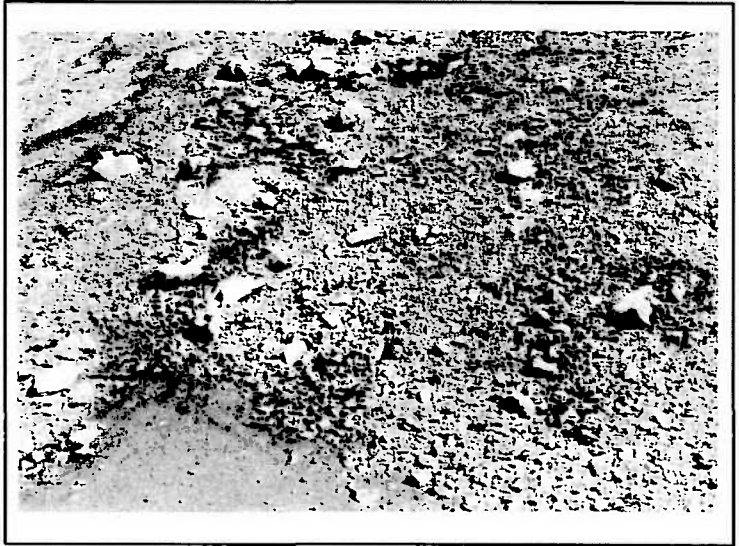


Figure 5. Close-up of the location of demography field no. 2 (picture 247). The arrows point to two persons standing at the two lowest corners.



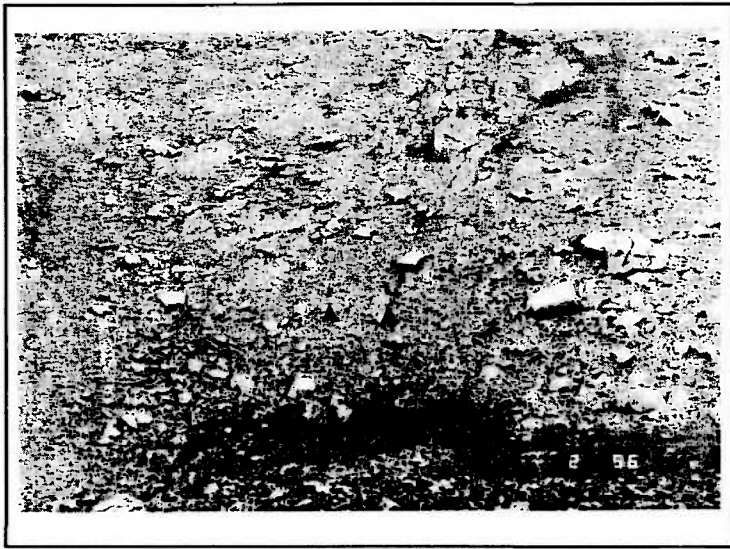


Figure 6. The location of demography field no. 3 in the middle of the southern subcolony at Svarthamaren (picture 256). The arrows point to two persons standing at the two lowest corners.

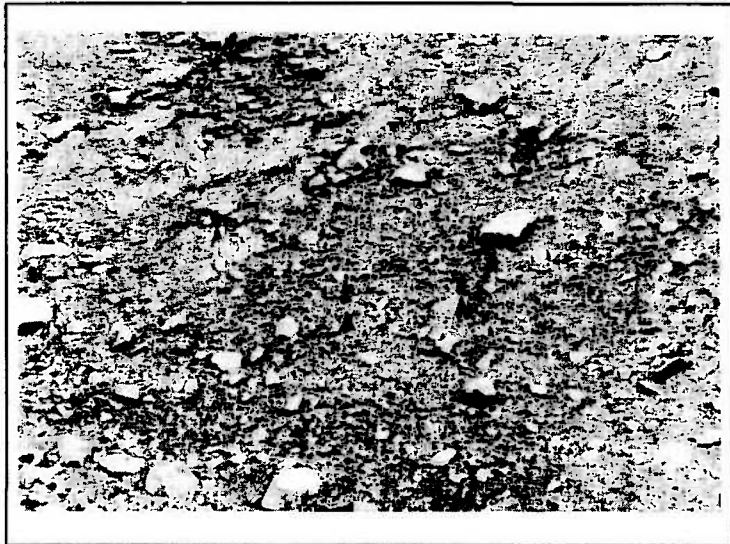
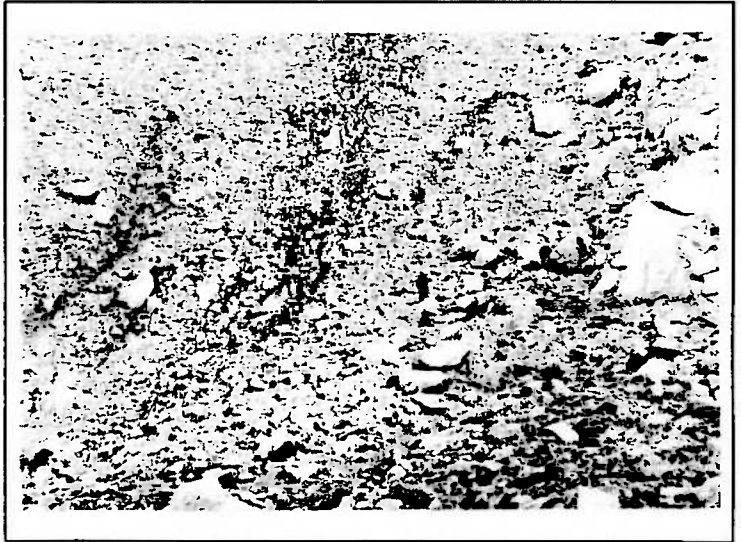


Figure 7. Close-up of the location of demography field no. 3 (picture 257). The arrows point to two persons standing at the two lowest corners.

Figure 8. The location of demography field no. 4 in the southernmost part of the southern subcolony at Svarthamaren (picture 258). The arrows point to two persons standing at the two lowest corners.



Figure 9. Close-up of the location of demography field no. 4 (picture 259). The arrows point to two persons standing at the two lowest corners.



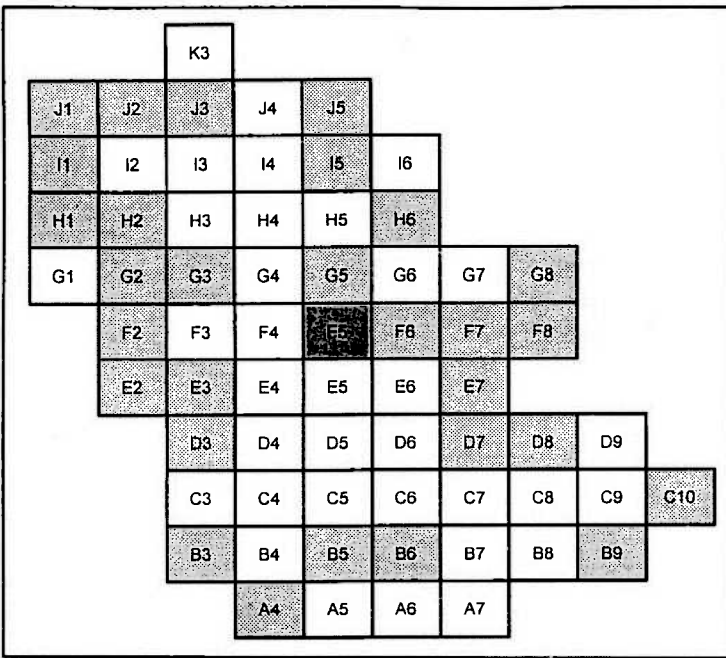


Figure 10. A schematic view of the population monitoring system in the northernmost subcolony at Svarthamarren. Each square measures 40 x 40 m and the centre of each white square is permanently marked with an aluminium pole with the plot number engraved on its top. Lightly-shaded squares are marked with red paint. The reference point (F5) (shown in Figure 11) is heavily shaded.

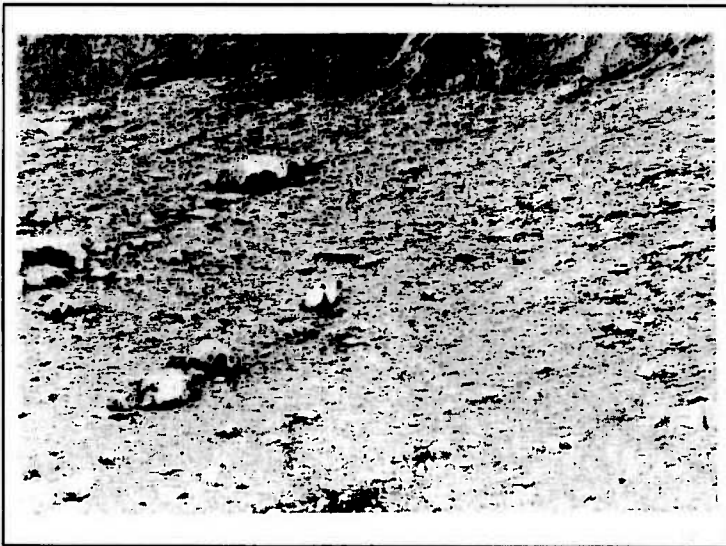


Figure 11. The location of the reference point (F5) in the northernmost subcolony at Svarthamarren (arrow).

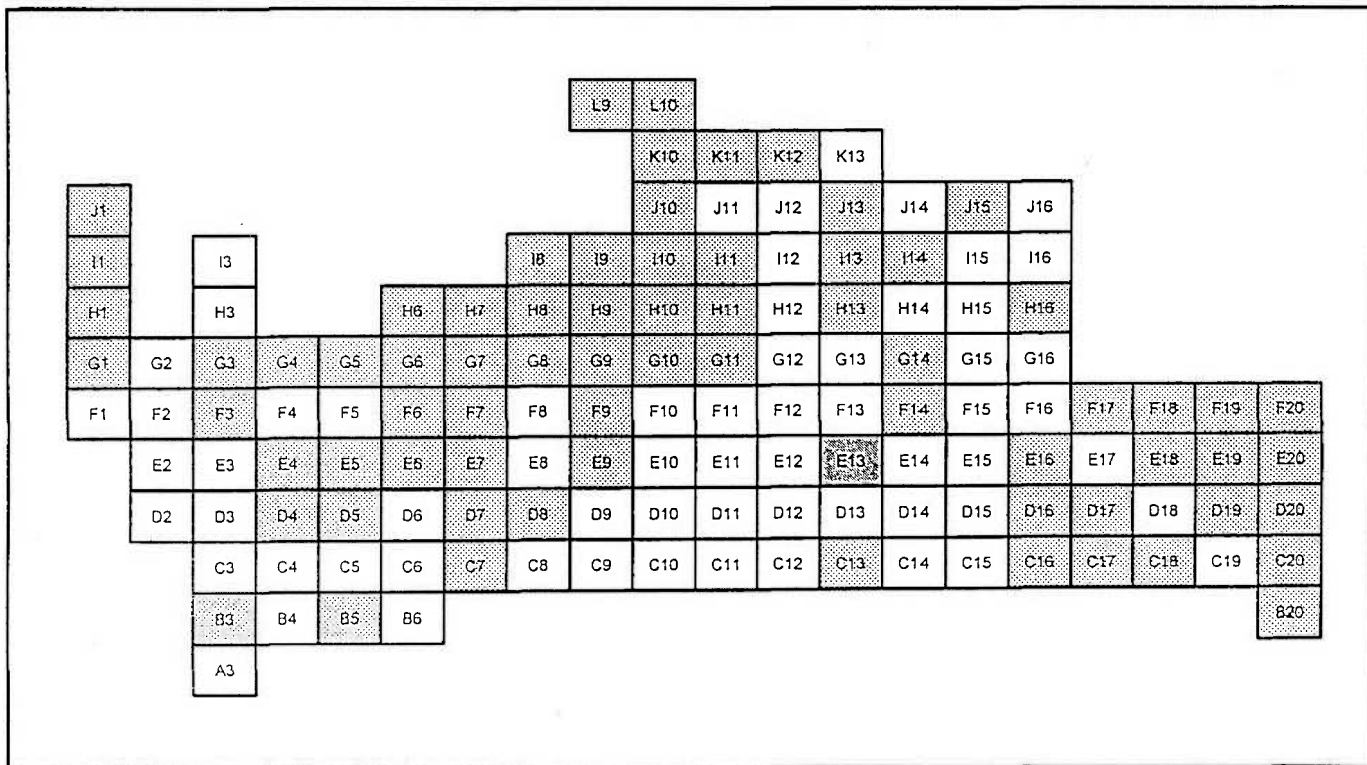


Figure 12. A schematic view of the population monitoring system in the southernmost subcolony at Svarthamaren. Each square measures 40 x 40 m and the centre of each white square is permanently marked with an aluminium pole with the plot number engraved on its top. Lightly-shaded squares are marked with red paint. The reference point (shown in Figures 13 and 14) is heavily shaded.



Figure 13. The location of the reference point (E13) in the southernmost subcolony at Svartthamaren (arrow).

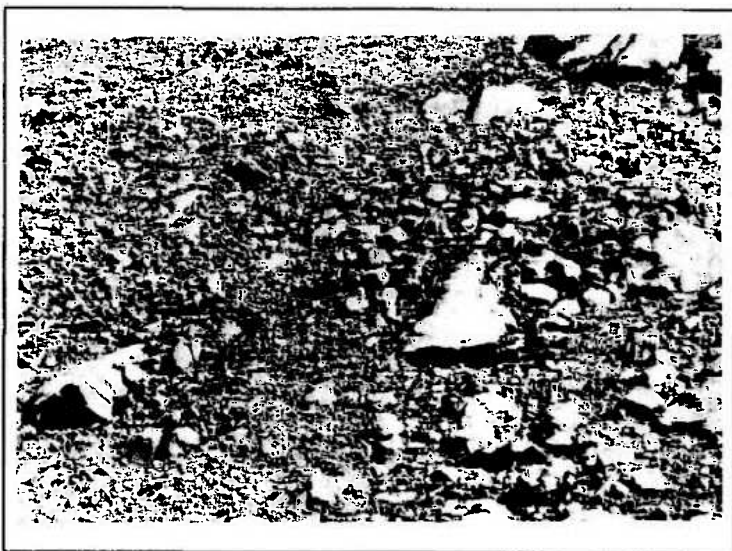
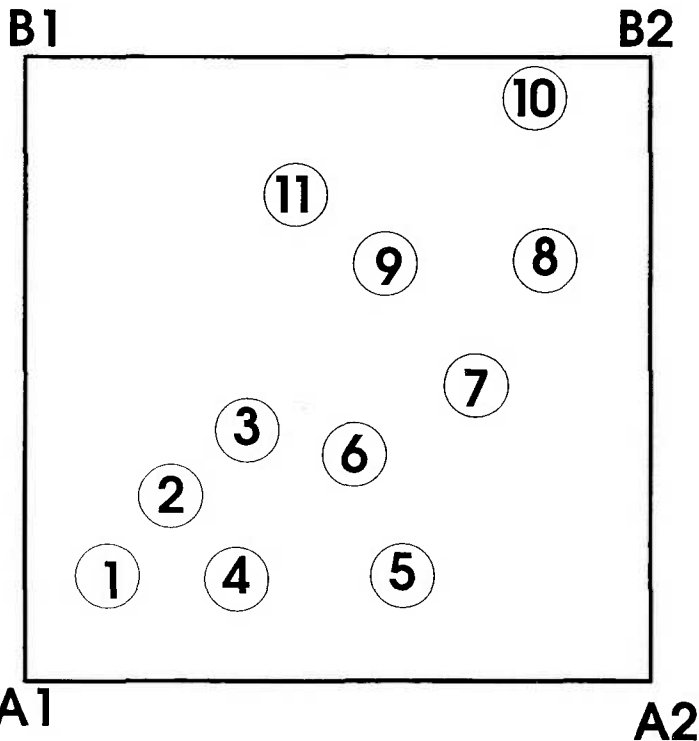


Figure 14. Close-up of the location of the reference point (E13) in the southernmost subcolony at Svartthamaren (arrow).

4 References

- Anker-Nilssen, T. & Røstad, O.W. 1993. Census and monitoring of Puffins *Fratercula arctica* on Røst, N Norway, 1979-1988. - *Ornis Scand.* 24: 1-9.
- Mehlum, F., Gjessing, Y., Haftorn, S. & Bech, C. 1988. Censuses of breeding Antarctic Petrels *Thalassoica antarctica* and physical features of the breeding colony at Svarthamaren, Dronning Maud Land, with notes on breeding Snow Petrels *Pagodroma nivea* and South Polar Skua *Catharacta maccormicki*. - *Polar Research* 6: 1-9.
- Røv, N. 1991. The density of breeding and non-breeding Antarctic Petrels at Svarthamaren, Dronning Maud Land, 1990. - *Fauna Norv. Ser. C., Cinclus* 14: 49-53.



Demography field no. 1

Plot A1

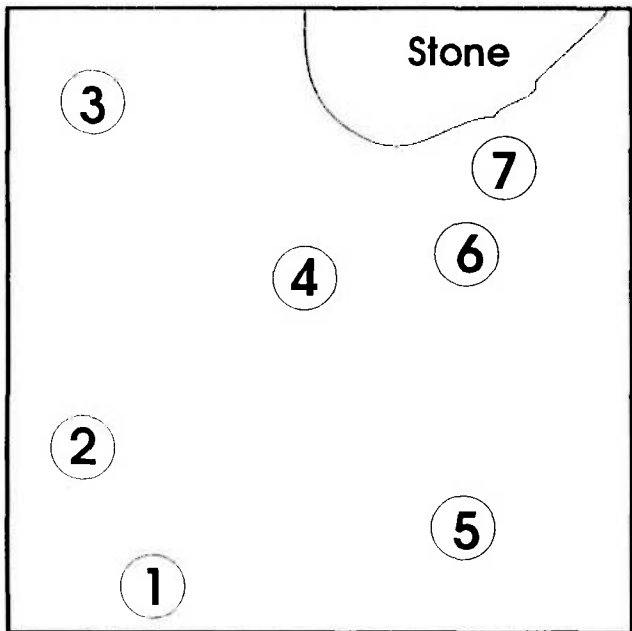
Demography field no. 1, plot A1

Nest no.	Ring no.	Sex	Nest content	Date
1	4156290	M	EGG	12 1291
	4156816	?	EGG	070192
	4156885		PULL	100292
2	4156291	M	EGG	12 1291
	4156041	M?	EGG	28 1291
	4156886		PULL	100292
3	4156292	M	EGG	12 1291
	4156042	F	EGG	28 1291
	4156888		PULL	100292
4	4156293	M	EGG	12 1291
	4156815	?	EGG	070192
	4156887		PULL	100292
5	4156294	M	EGG	12 1291
	4156043	F	EGG	28 1291
			F	100292
6	4156295	M	EGG	12 1291
			F	100292
			F	100292
7	4156296	F?	EGG	12 1291
	4156044	M	EGG	28 1291
	4156889		PULL	100292
8	4156297	?	EGG	12 1291
	4156045	M?	EGG	28 1291
			F	100292
9	4156298	M	EGG	12 1291
		Ad. and egg disappeared		28 1291
10	4156299	M	EGG	12 1291
	4156046	?	EGG ^a	28 1291
			EGG	12 1291
11	4156300	M	EGG	28 1291
	4156317	F	EGG	13 1291
		Ad. and egg disappeared		16 01 92

a. Egg brooken during handling

B2

B3



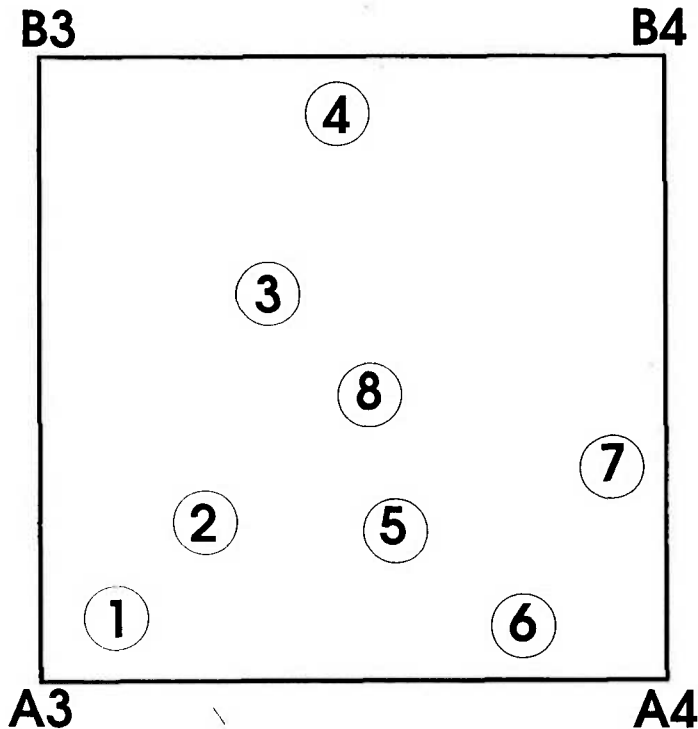
Demography field no. 1, plot A2

Reir	Ring no.	Sex	Nest content	Date
1	4156283	M	EGG	121291
	4156037	F	EGG	281291
	4156881		PULL	100292
2	4156284	M	EGG	121291
	4156038	F	EGG	281291
	4156285	M	EGG	121291
3	4156938	?	CHICK	160192
	4156882		PULL	100292
	4156286	M	EGG	121291
4	4156039	F	EGG	281291
		F		100292
	4156287	M	EGG	121291
5	4156869	?	CHICK	210192
	4156883		PULL	100292
	4156288	M	EGG	121291
6	4156040	F	EGG ^a	281291
	4156289	M	EGG	121291
	4156814	?	EGG	070192
7	4156884		PULL	100292

Demography field no. 1

Plot A2

a. Egg brooken during handling



Demography field no. 1

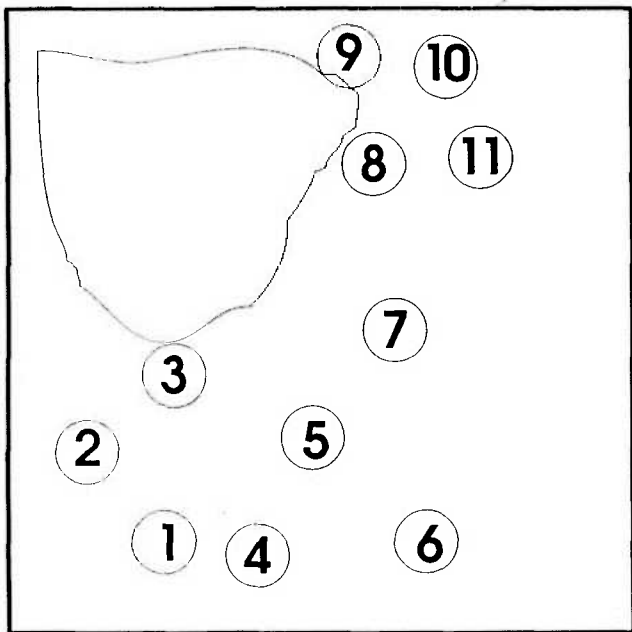
Plot A3

Demography field no. 1, plot A3

Rciv	Ring no.	Sex	Nest content	Date
1	4156276	M	EGG	121291
	4120998	F	EGG	281291
2	4156878		PULL	100292
	4156277	M	EGG	121291
	4156813	?	EGG	070192
	4156877		PULL	100292
3	4156278	M	EGG	121291
	4120999	M?	EGG	281291
	4156879		PULL	100292
4	4156279	M	EGG	121291
	Ad. and egg disappeared			281291
5	4156280	M	EGG	121291
	4121000	F?	EGG	281291
	4156876		PULL	100292
6	4156281	M	EGG	121291
	4156870	?	F	210192
7	4156282	F	EGG	121291
	4156036	M?	EGG	281291
	4156880		PULL	100292
8	4120997	?	F/NB	281291

C1

C2



B1

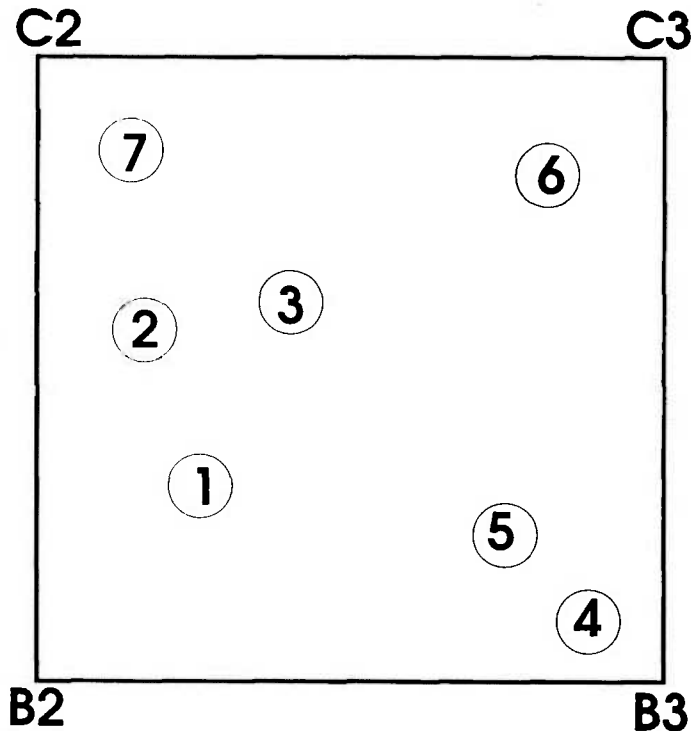
B2

Demography field no. 1

Plot B1

Demography field no. 1, plot B1

Reir	Ring no.	Sex	Nest content	Date
1	4156318	F	EGG	131291
	4156047	F?	EGG	281291
	4156890		PULL	100292
2	4156319	F	EGG	131291
	4156048	M	EGG	281291
	4156891		PULL	100292
3	4156320	M	EGG	131291
	4156817	?	EGG	070192
	4156892		PULL	100292
4			Cold egg	131291
				281291
5	4156322	F	EGG	131291
	4156049	M?	EGG	281291
	4156893		PULL	100292
6	4156321	M	EGG	131291
	4156050	?	EGG	281291
	4156894		PULL	100292
7	4156323	F	EGG	131291
	4156501	M	EGG	281291
	4156895		PULL	100292
8	4156324	F	EGG	131291
	4156502	M	EGG	281291
9			F	100292
	4156325	F	EGG	131291
	4156503	M?	EGG	281291
10	4156896		PULL	100292
	4156326	M	EGG	131291
	4156871	?	CHICK	210192
11	4156898		PULL	100292
	4156332	F	EGG	131291
	4156504	?	EGG	281291
	4156897		PULL	100292

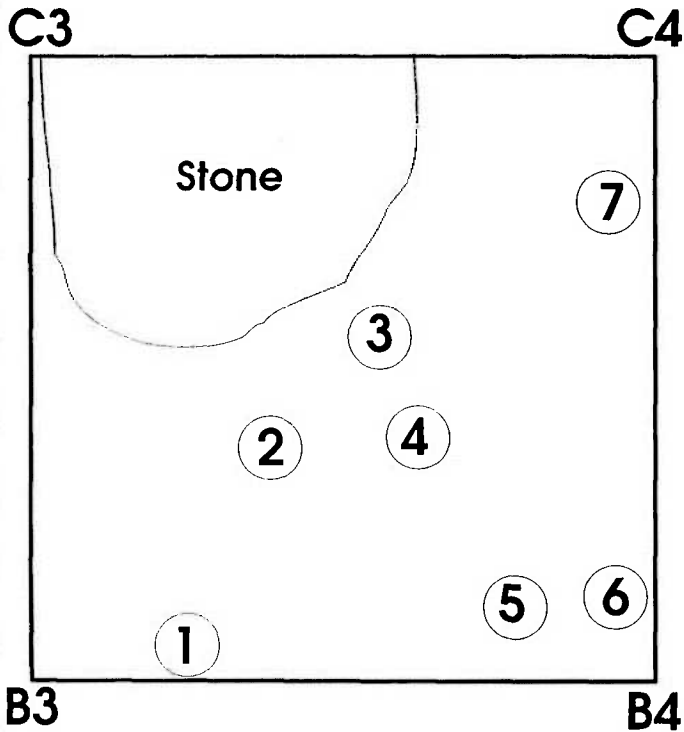


Demography field no. 1

Plot B2

Demography field no. 1, plot B2

Reir	Ring no.	Sex	Nest content	Date
1	4156310	F	EGG	131291
	4156505	M	EGG	281291
	4156899		PULL	100292
2	4156311	F	EGG	131291
	4156506	M	EGG	281291
3	4156900		PULL	100292
	4156312	F	EGG	131291
	4156507	M	EGG	281291
4		F	F	100292
	4156314	F	EGG	131291
	4156508	M?	EGG	281291
5	4156951		PULL	100292
	4156315	F	EGG	131291
	4156509	?	EGG	281291
6		F	F	100292
	4156316	F	EGG	131291
	4156510	M	EGG	281291
7	4156952		PULL	100292
	4156313	F	EGG	131291
	Ad disappeared		F/NB	281291



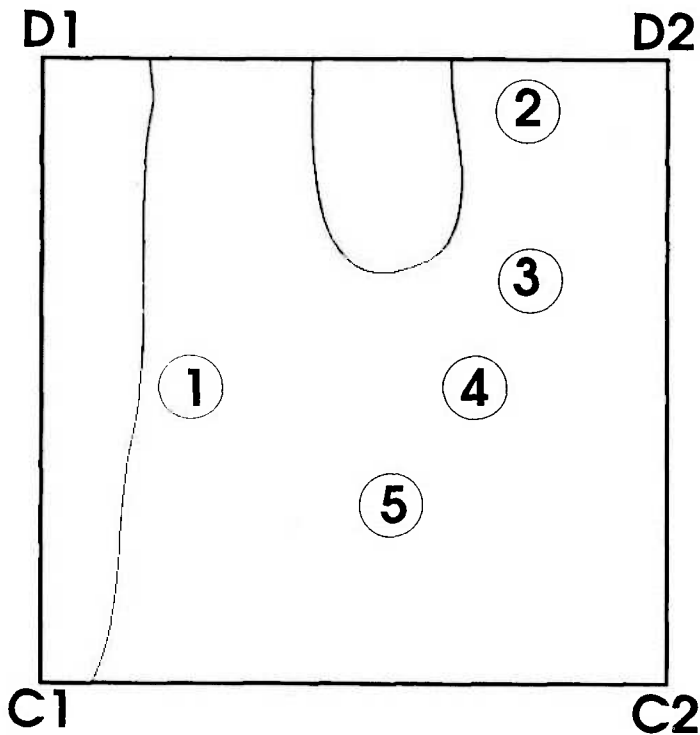
Demography field no. 1

Plot B3

Demography field no. 1, plot B3

Reir	Ring no.	Sex	Nest content	Date
1	4156304	F	EGG	131291
	4156511	M?	EGG	281291
2	4156305	?	F	100292
			EGG	131291
3	4156306	?	Cold egg	281291
			EGG	131291
4	4156302 ^a	M?	Cold egg	281291
	4156303	F?	F/NB	131291
	Ad disappeared		F/NB	131291
				281291
5	4156307	M	EGG	131291
	4156512	F?	EGG	281291
	4156953		PULL	100292
6	4156308	M?	EGG	131291
	4156513	M	EGG	281291
	4156954		PULL	100292
	4156309	M	EGG	131291
7	4156818	?	EGG	070192
	4156955		PULL	100292

a. Monel ring left foot, colour ring right foot



Demography field no. 1

Plot C1

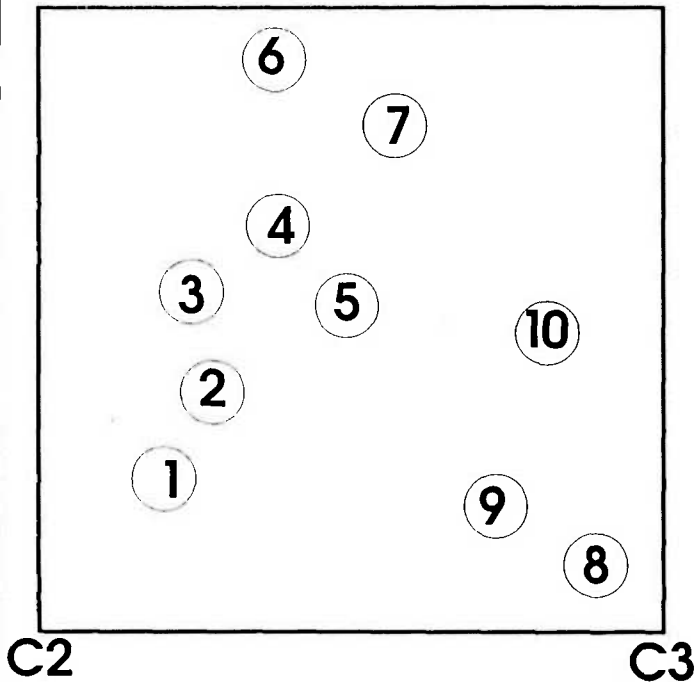
Demography field no. 1, plot C1

Nest no.	Ring no.	Sex	Nest content	Date
1	4156328	M	EGG	131291
	4156872	?	CHICK	210192
	4156970		PULL	100292
2	4156331	F	EGG	131291
	4156514	M	EGG	281291
	4156971		PULL	100292
3	4156327	F	F/NB	131291
	4156820	?	F/NB	070192
	4156330	M	EGG	131291
4	Ad and egg disappeared			281291
	4156972		PULL ^a	100292
	4156329	?	F/NB	131291
5	Ad disappeared			281291

a. Pull hatched another place

D2

D3

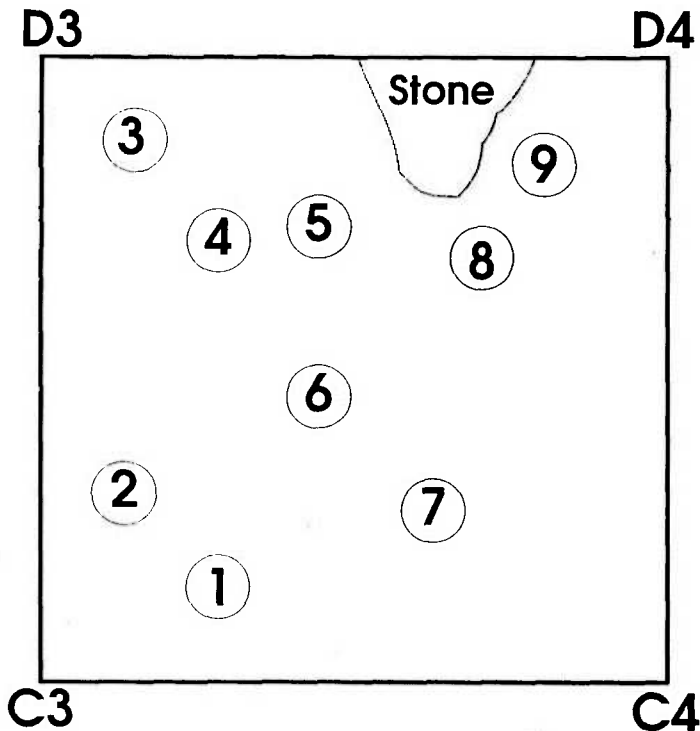


Demography field no. 1

Plot C2

Demography field no. 1, plot C2

Nest no.	Ring no.	Sex	Nest content	Date
1	4156333	F	EGG	131291
	4156515	M	EGG	281291
	4156962		PULL	100292
2	4156334	F	EGG	131291
	4156516	M?	EGG	281291
	4156963		PULL	100292
3	4156335	M	EGG	131291
	4156873	?	CHICK	210192
	4156964		PULL	100292
4	4156338	F	EGG	131291
	4156517	M	EGG	281291
	4156965		PULL	100292
5	4156336	F	EGG	131291
	4156518	M	EGG	281291
	4156966		PULL	100292
6	4156337	F	EGG	131291
	Ad and egg disappeared			281291
7	4156339	F	EGG	131291
	Ad disappeared, cold egg			281291
8	4156340	F	EGG	131291
	4156519	?	EGG	281291
	4156967		PULL	100292
9	4156341	M	EGG	131291
	4156819	?	EGG	070192
	4156968		PULL	100292
10	4156342	F	EGG	131291
	4156520	M?	EGG	281291
	4156969		PULL	100292

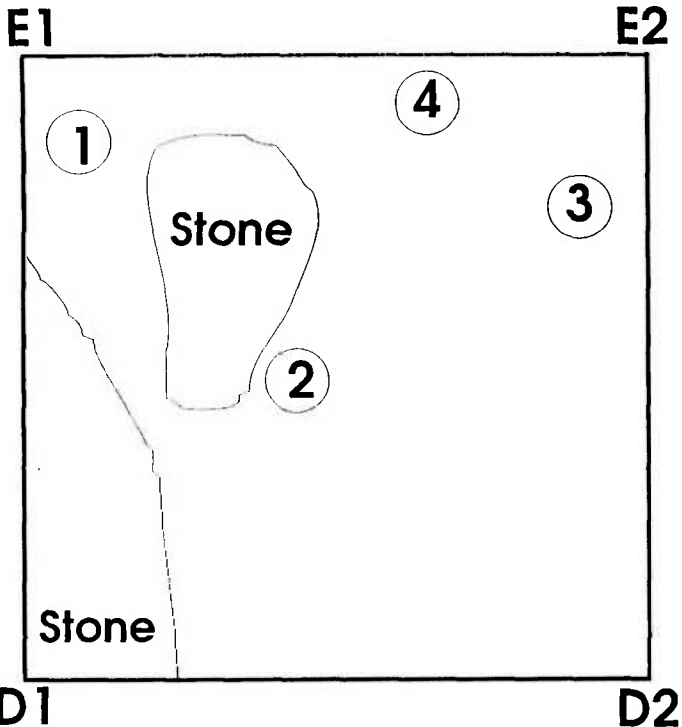


Demography field no. 1

Plot C3

Demography field no. 1, plot C3

Nest no.	Ring no.	Sex	Nest content	Date
1	4156347	?	EGG	131291
	4156874	?	CHICK	210192
	4156956		PULL	100292
2	4156348	F	EGG	131291
	4156521	M	EGG	281291
	4156957		PULL	100292
3	4156345	?	F/NB	131291
	4156346	?	F/NB	131291
	Ad. disappeared			281291
4	4156355	M	F/NB	131291
	4156356	F	F/NB	131291
	Ad disappeared			281291
5			Cold egg	131291
6	4156349			281291
	4156349	M	EGG	131291
	4156875	?	CHICK	210192
7	4156958		PULL	100292
	4156343	M	EGG	131291
	4156344	F	EGG	131291
8	4156959		PULL	100292
	4156350	M	EGG	131291
	4156522	F?	EGG	281291
9	4156960		PULL	100292
	4156351	F	EGG	131291
	4156523	M	EGG	281291
	4156961		PULL	100292

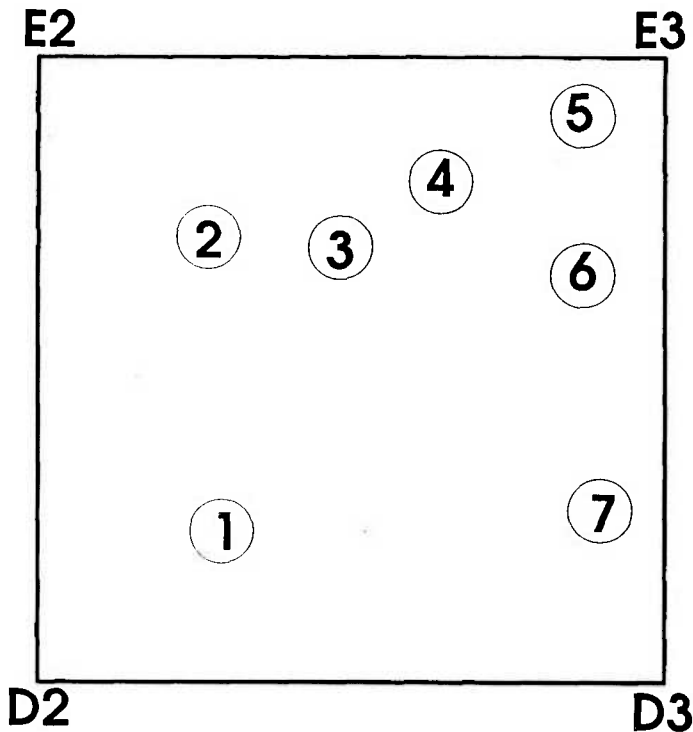


Demography field no. 1

Plot D1

Demography field no. 1, plot D1

Nest no.	Ring no.	Sex	Nest content	Date
1	Ad flew away		F/H	131291
	Ad disappeared			281291
2	4156352	F	EGG	131291
	4156532	M	EGG	281291
	4156973		PULL	100292
3	4156353	F?	EGG	131291
	4156533	M?	EGG	281291
	4156974		PULL	100292
4	4156354	F?	EGG	131291
	4156534	F	EGG	281291
	4156975		PULL	100292

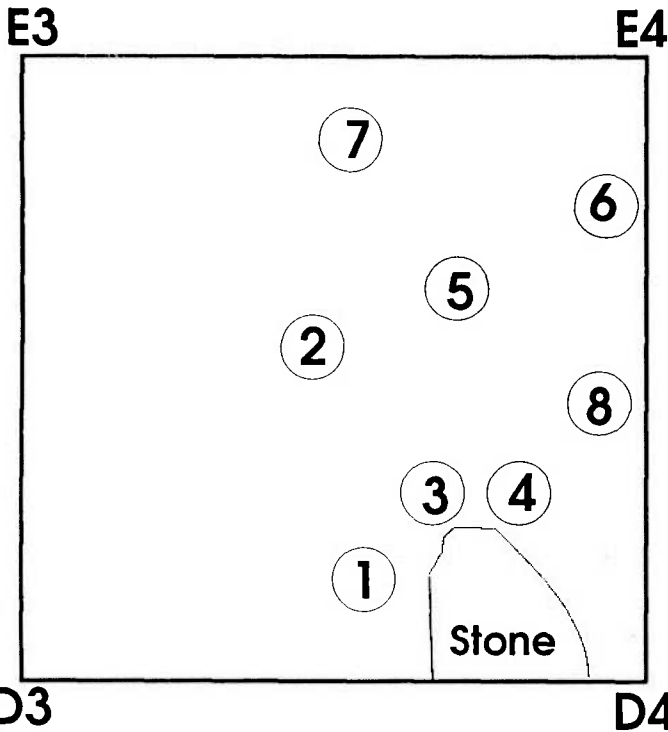


Demography field no. 1

Plot D2

Demography field no. 1, plot D2

Nest no.	Ring no.	Sex	Nest content	Date
1	4156357	F?	EGG	131291
	4156976		PULL	100292
2	Flew away		F/NB	131291
	Ad disappeared			281291
3	4156358	F	EGG	131291
	4156528	F?	EGG	281291
4	4156977	M	PULL	100292
	4156359		EGG	131291
5	4156529	M?	EGG	281291
	4156978		PULL	100292
6	4156361	F	EGG	131291
	4156530	M	EGG	281291
7	4156979	F	PULL	100292
	4156360		EGG	131291
	4156531	M	EGG	281291
	4156980		PULL	100292
	Flew away		F/NB	131291
	Ad disappeared			281291



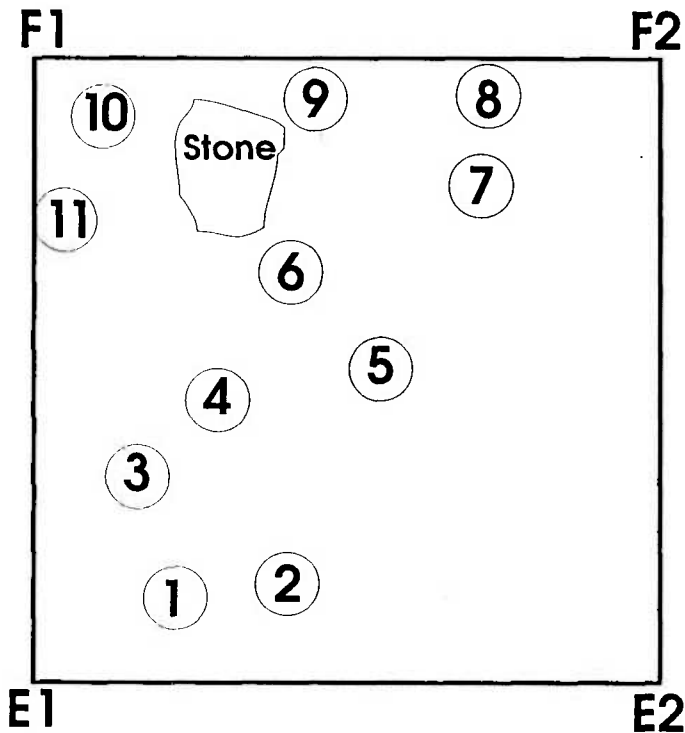
Demography field no. 1

Plot D3

Demography field no. 1, plot D3

Nest no.	Ring no.	Sex	Nest content	Date
1	4156362	M	EGG	131291
	4156524	F	EGG	281291
	4156981		PULL	100292
2	4156363	F	EGG	131291
	Ad and egg disappeared			070192
3	4156364	F?	EGG	131291
	4156525	F?	EGG	281291
	4156982		PULL	100292
4	4156365	M	EGG	131291
	4156983		PULL	100292
5	4156366	F	EGG	131291
	4156526	M	EGG	281291
	4156984		PULL	100292
6	4156367	F	EGG	131291
	4156527	M	EGG	281291
	4156985		PULL	100292
7	4156368	F	EGG	131291
	Ad. and egg disappeared			160192
8	Egg disappeared			131291
				281291

a. Egg broken



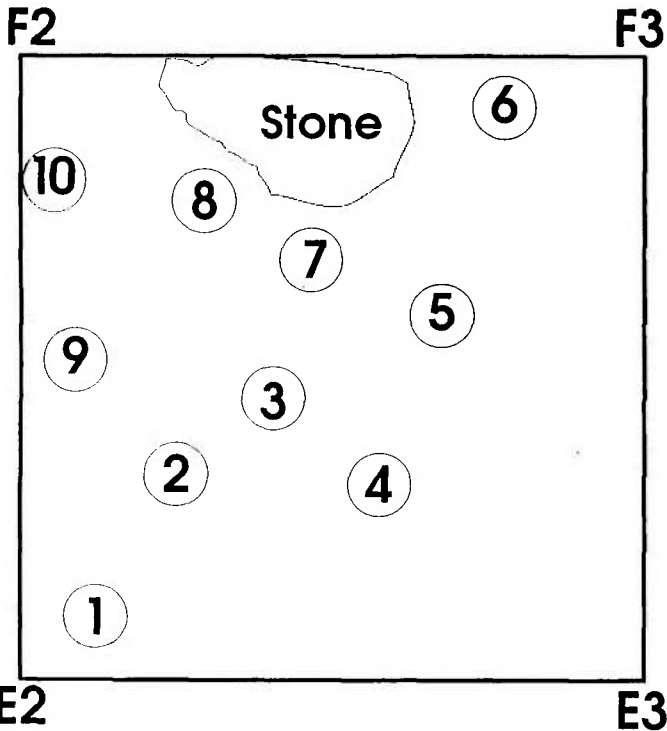
Demography field no. 1

Plot E1

Demography field no. 1, plot E1

Nest no.	Ring no.	Sex	Nest content	Date
1	4156384	?	F/NB	131291
	Ad disappeared			281291
2	4156385	M?	EGG	131291
	4156535	F	EGG	281291
			F	100292
3	4156386	F?	EGG	131291
	4156547	F	EGG	281291
			F	100292
4	4156387	M	EGG	131291
	4156942	?	CHICK	160192
	4156997		PULL	100292
5	4156388	M	EGG	131291
	4156536	F	EGG	281291
	4156998		PULL	100292
6	4156389	M	EGG	131291
	4156537	?	EGG	281291
	4156999		PULL	100292
7	4156390	M	EGG	131291
	4156538	F?	EGG	281291
	4157000		PULL	100292
8	4156391	F	EGG	131291
	4156539	M	EGG	281291
	4127101		PULL	100292
9	4156392	M	EGG	131291
	Ad and egg disappeared			281291
10	4156393	F	EGG	131291
	4156540	M?	EGG	281291
	4127102		PULL	100292
11	4156394	?	EGG	131291
	4156822	?	EGG ^a	070192

a. Egg broken

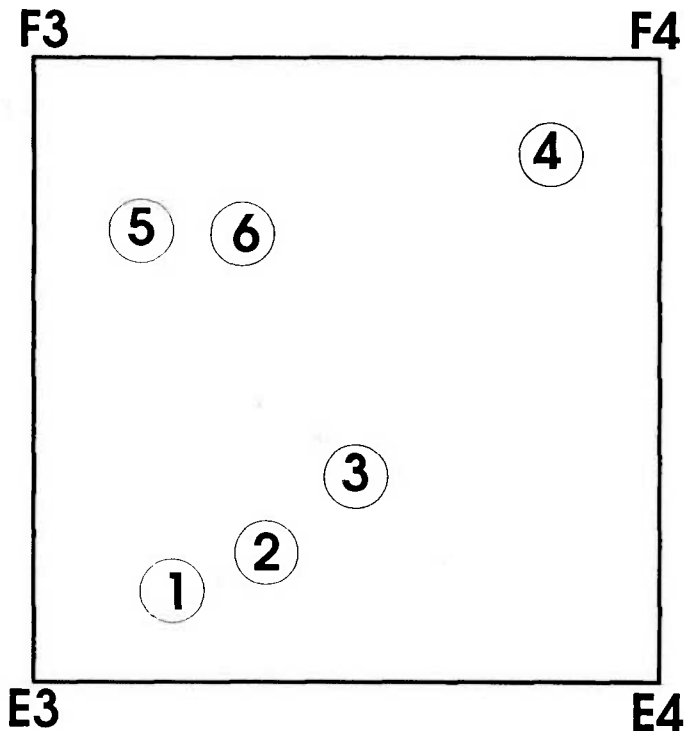


Demography field no. 1

Plot E2

Demography field no. 1, plot E2

Nest no.	Ring no.	Sex	Nest content	Date
1	4156375	F	EGG	131291
	4156541	?	EGG	281291
	4156990		PULL	100292
2	4156376	M?	EGG	131291
	4156542	F?	EGG	281291
	4156991		PULL	100292
3	4156377	F?	EGG	131291
	4156543	M	EGG	281291
	4156992		PULL	100292
4	4156374	M	EGG	131291
	4156993		PULL	100292
5	4156379	M	EGG	131291
	4156544	?	F	281291
6	4156380	F	EGG	131291
	4156545	M	EGG	281291
	4156994		PULL	100292
7	4156381	M	EGG	131291
	4156940	?	EGG	160192
	4156995		PULL	100292
8	4156382	M	EGG	131291
	4156941	?	CHICK	160192
9		F		100292
	4156378	M?	EGG	131291
	4156546	F	EGG	281291
10	4156996		PULL	100292
	4156383	F	EGG	131291
	Ad and egg disappeared			281291

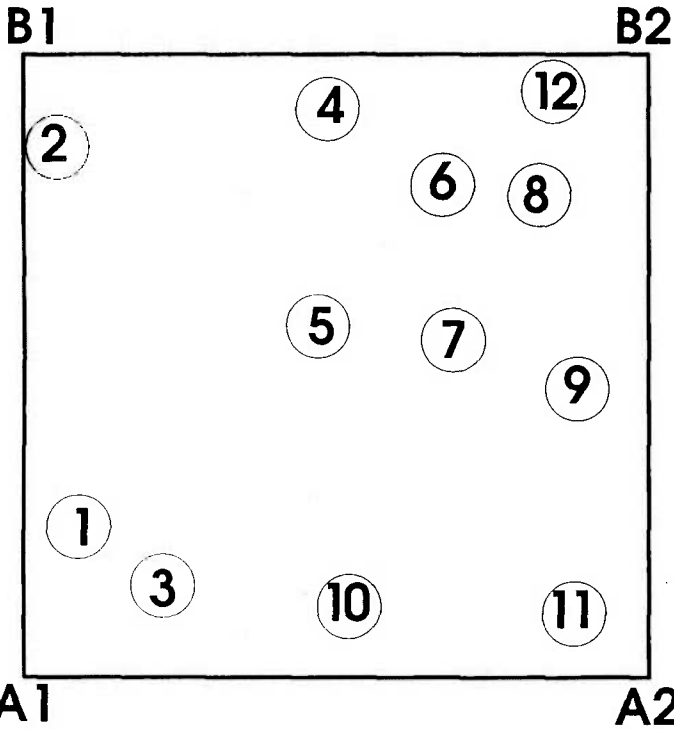


Demography field no. 1

Plot E3

Demography field no. 1, plot E3

Nest no.	Ring no.	Sex	Nest content	Date
1	4156369	?	EGG	131291
	4156548	F	EGG	281291
	4156986		PULL	100292
2	4156370	M?	EGG	131291
	4156939	?		160192
	4156987		PULL	100292
3	4156371	F	EGG	131291
	4156549	M?	EGG	281291
			F	100292
4	Ad flew away		F/NB	131291
	Ad disappeared			281291
5	4156373	M	EGG	131291
	4156821	?	EGG	070192
	4156988		PULL	100292
6	4156372	F	EGG	131291
	4156550	F	EGG	281291
	4156989		PULL	100292

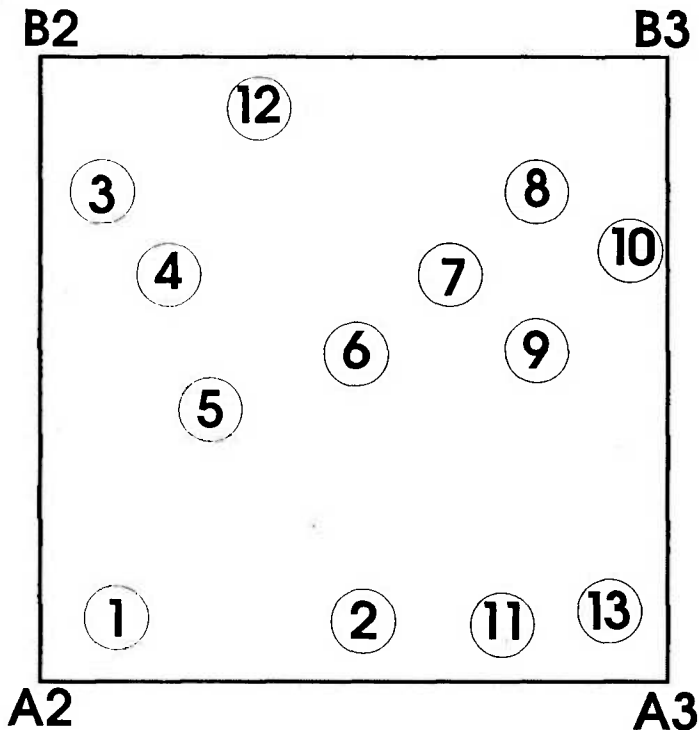


Demography field no. 2

Plot A1

Demography field no. 2, plot A1

Nest no.	Ring no.	Sex	Nest content	Date
1	4120477	F?	EGG	171291
	4156147	M	EGG	020192
	4127103		PULL	100292
2	Ad flew away		F/NB	171291
	Ad disappeared			020192
3	4120478	F?	EGG	171291
	4156943	?	CHICK	160192
	4127104		PULL	100292
4	4120481	F?	EGG	171291
	4156944	?	CHICK	160192
5	4120480	F	F	100292
	4156571	M	EGG	171291
			EGG	020192
6	4120482	F?	F	100292
	4156823	?	EGG	171291
	4120483	F	EGG	171291
7	4156572	M	EGG	020192
	4127105		PULL	100292
	4120484	F	EGG	171291
8	4156573	M	EGG	020192
	4127106		PULL	100292
	4120485	F	EGG	171291
9	4127107		PULL	100292
	4120479	F	EGG	171291
	4156149	M	EGG	020192
10			F	100292
	4120486	F?	EGG	171291
	4156574	M	EGG	020192
11	4127108		PULL	100292
	Ad flew away		F/NB	171291
	Ad flew away		F/NB	020192



Demography field no. 2

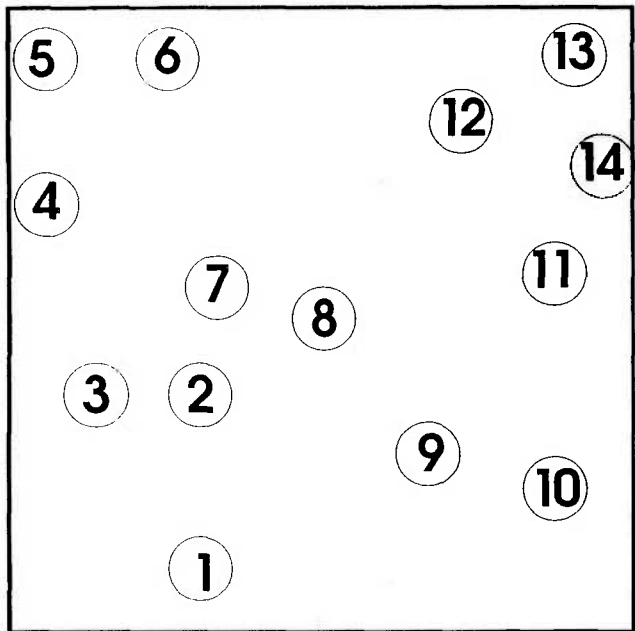
Plot A2

Demography field no. 2, plot A2

Nest no.	Ring no.	Sex	Nest content	Date
1	Ad flew away		F/NB	171291
	4156575	M?	F/NB	020192
	4120487	F	EGG	171291
2	4127109		PULL	100292
	4120490	F	F/NB	171291
3	Ad disappeared			020192
	4120488	F	EGG	171291
	4156576	M	EGG	020192
4	4127110		PULL	100292
	4120489	F	EGG	171291
5	Ad and egg disappeared			020192
	4120491	M?	EGG	171291
	4156945	?	CHICK	160192
6	4127111		PULL	100292
	4120492	F	EGG	171291
7	4156577	M	EGG	020192
	4127112		PULL	100292
8	4120493	F	EGG	171291
	4156578	M	EGG	020192
9	4127113		PULL	100292
	4120494	F	EGG	171291
10	4156579	M?	EGG	020192
	4127114		PULL	100292
11	Ad flew away		F/NB	171291
	Ad disappeared			020192
12	4120495	F	EGG	171291
	4156581	F?	EGG	020192
13	4127116		PULL	100292
	4120496	F	EGG	171291
14	4156868	?	CHICK	210192
	4127115		PULL	100292
15	4120497	F	EGG	171291
	4156582	M	EGG	020192
	4127117		PULL	100292

B3

B4

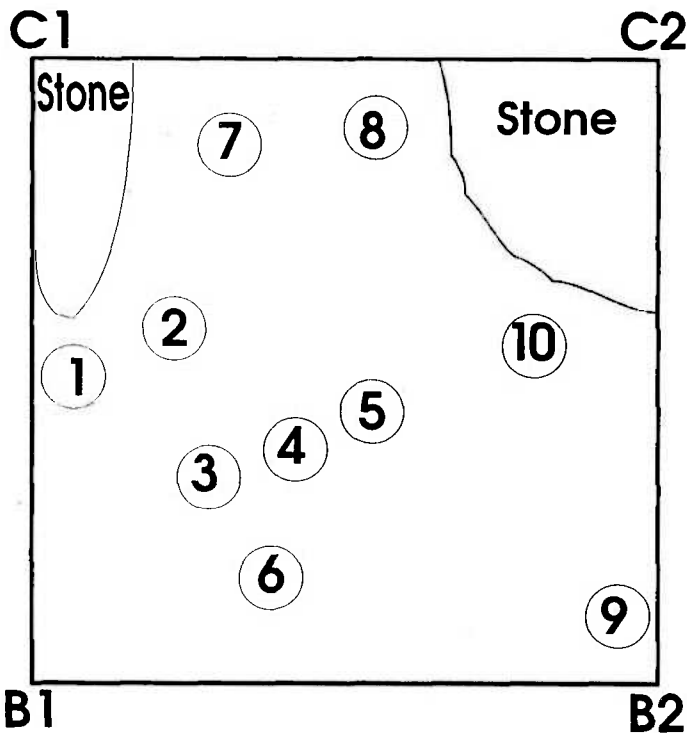


Demography field no. 2

Plot A3

Demography field no. 2, plot A3

Nest no.	Ring no.	Sex	Nest content	Date
1	4120498	F	EGG	171291
	4156583	M?	EGG	020192
	4127118		PULL	100292
2	4120499	F	EGG	171291
	4127119		PULL	100292
	4120500	F	EGG	171291
3	4156580	M?	EGG	020192
	4127120		PULL	100292
	Ad flew away		F/NB	171291
4	Ad disappeared			020192
	Ad flew away		F/NB	171291
	4156584	M?	F/NB	020192
6	4120551	F	F/NB	171291
	4156585	M	EGG!!	020192
	4127123		PULL	100292
7	Ad flew away		EGG	171291
	4156586	M	EGG	020192
			F	100292
8	4120552	F	EGG	171291
	4156587	F?	EGG	020192
			F	100292
9	4120553	F	EGG	171291
	4156588	M	EGG	020192
	4127121		PULL	100292
10	4120554	F	EGG	171291
	4156589	M	EGG	020192
	4127122		PULL	100292
11	Ad flew away		F/NB	171291
	Ad disappeared			020192
	4120555	F	EGG	171291
12	4156590	M	EGG	020192
	4127124		PULL	100292
	4120556	F	EGG	171291
13	4156591	M	EGG	020192
	4127125		PULL	100292
	4120557	F	EGG	171291
14	4127126		PULL	100292



Demography field no. 2

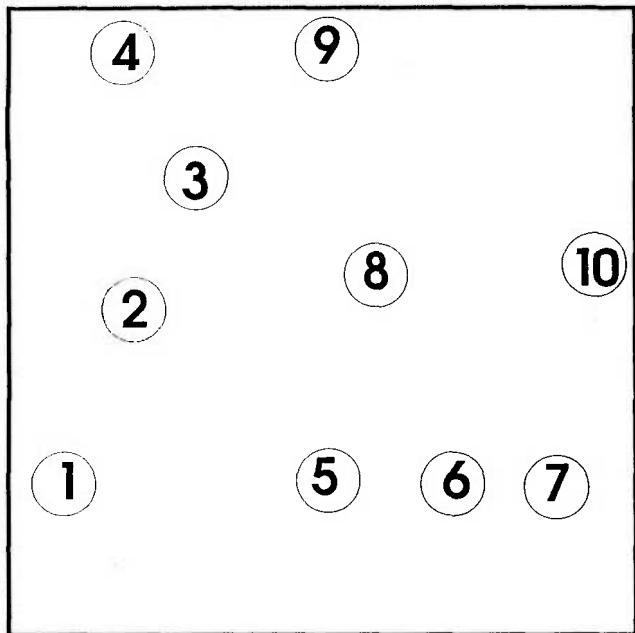
Plot B1

Demography field no. 2, plot B1

Nest no.	Ring no.	Sex	Nest content	Date
1	4120560	M	EGG	171291
	Ad and egg disappeared			020192
2	4120561	F	EGG	171291
	4156947	?	CHICK	160192
	4127136		PULL	100292
3	4120562	F	EGG	171291
	4156603	M	EGG	020192
	4127137		PULL	100292
4	4120563	F	EGG	171291
	4156604	M	EGG	020192
	4127138		PULL	100292
5	4120565	F	EGG	171291
	4156605	M	EGG	020192
	4127139		PULL	100292
6	4120564	F	EGG	171291
	Ad and egg disappeared			160192
7	4120558	F	F/NB	171291
	Ad disappeared			020192
8	4120566	?	EGG	171291
	4156948	?	CHICK	160192
	4127140		PULL	100292
9	4120567	F	EGG	171291
	4156595	M	EGG	020192
	4127131		PULL	100292
10	4120559	F	F/NB	171291
	Ad disappeared			020192

C2

C3



B2

B3

Demography field no. 2

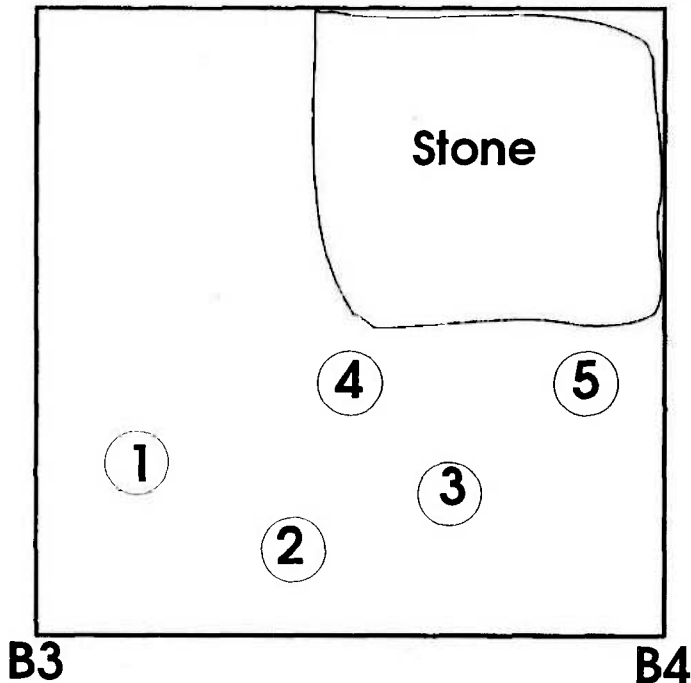
Plot B2

Demography field no. 2, plot B2

Nest no.	Ring no.	Sex	Nest content	Date
1	4120569	F?	EGG	171291
	4156596	M?	EGG	020192
2			F	100292
	4120570	F	EGG	171291
	4156597	M	EGG	020192
3			F	100292
	4120571	?	EGG	171291
	4127132		PULL	100292
4	4120572	F	EGG	171291
	4156598	M?	EGG	020192
5			F	100292
	4120568	F	EGG	171291
	4156599	M	EGG	020192
6			F	100292
	4120573	F	EGG	171291
	4156600	M	EGG	020192
7	4127133		PULL	100292
	4120574	M	EGG	171291
	4156946	?	CHICK	160192
8			Dead chick	100292
			Ad flew away	171291
			Ad disappeared	020192
9	4120575	F	EGG	171291
	4156601	M	EGG	020192
	4127134		PULL	100292
10	4120576	F	EGG	171291
	4156602	M	EGG	020192
	4127135		PULL	100292

C3

C4



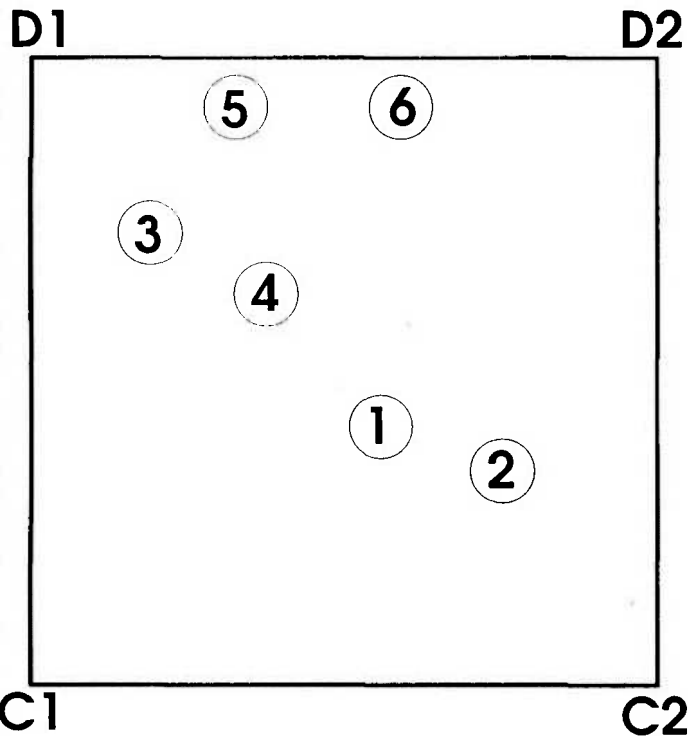
Demography field no. 2

Plot B3

Demography field no. 2, plot B3

Nest no.	Ring no.	Sex	Nest content	Date
1	4120577	M?	EGG	171291
	Ad and egg disappeared			210192
	4127127		PULL ^a	100292
2	4120578	M	EGG	171291
	Ad flew away			020192
3	4120579	F	EGG	171291
	4156592	M	EGG	020192
	4127128		PULL	100292
4	4120580	F	EGG	171291
	4156593	M	EGG	020192
	4127129		PULL	100292
5	4120581	F?	EGG	171291
	4156594	M	EGG	020192
	4127130		PULL	100292

a. Pull hatched another place

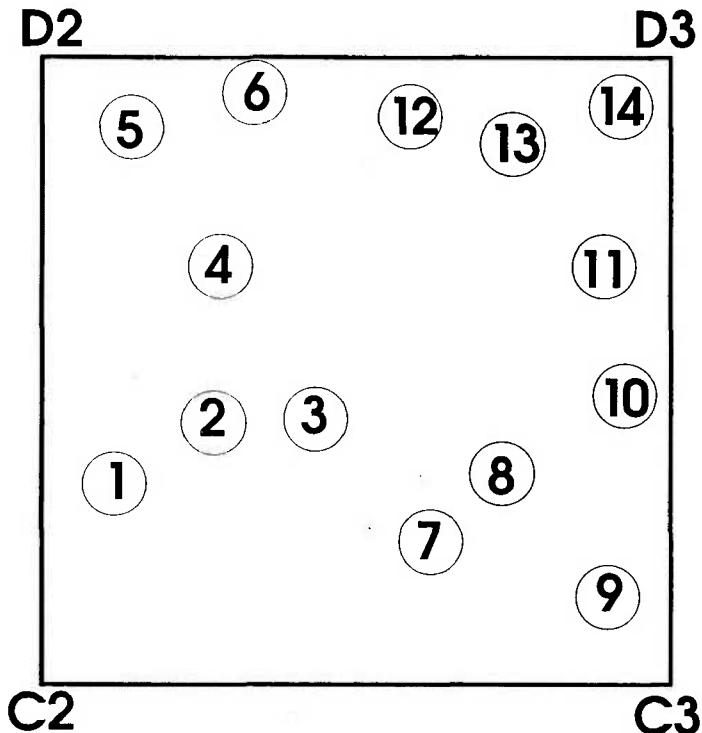


Demography field no. 2

Plot C1

Demography field no. 2, plot C1

Nest no.	Ring no.	Sex	Nest content	Date
1	4120606	F	EGG	171291
	4156617	M	EGG	020192
	4127141		PULL	100292
2	4120607	F	EGG	171291
	4156618	M	EGG	020192
	4127142		PULL	100292
3	4120608	F	EGG	171291
	4156619	F	EGG	020192
	4127143		PULL	100292
4	4120609	F	EGG	171291
	4156949	?	CHICK	160192
	4127144		PULL	100292
5	4120610	F	EGG	171291
	4156620	F?	EGG	020192
	4127145		PULL	100292
6	4120611	F	EGG	171291
	4156621	M	F	020192



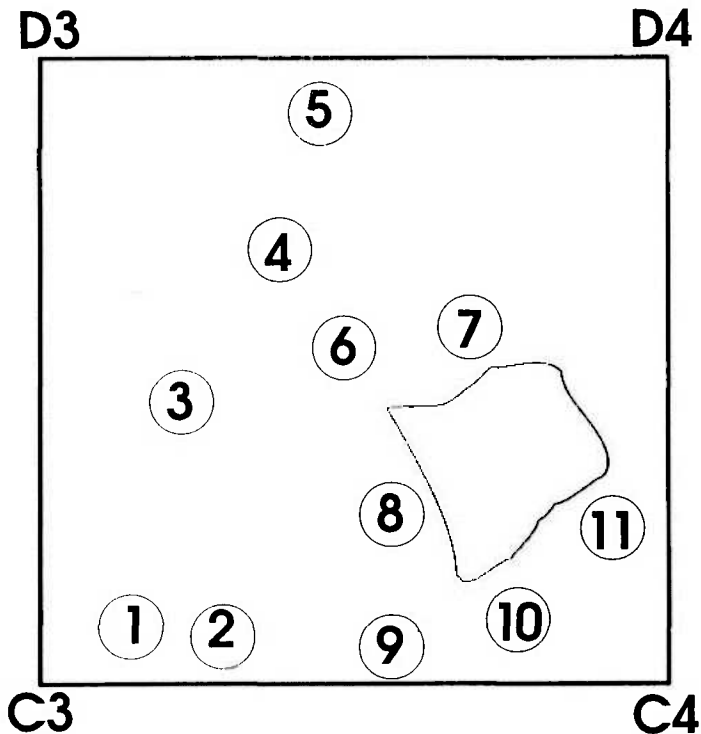
Demography field no. 2

Plot C2

Demography field no. 2, plot C2

Nest no.	Ring no.	Sex	Nest content	Date
1	4120593	F	EGG	171291
	4127146		PULL	100292
2	4120594	M	F	171291
	4120595	F	F	171291
3	Ad disappeared			020192
	4120596	F	EGG	171291
	4156611	M	EGG	020192
4	4127147		PULL	100292
	4120597	F	EGG	171291
	4156612	?	EGG	020192
5	4127148		PULL	100292
	4120598	F	F/NB	171291
	4156613	M	F/NB	020192
6	4120599	F?	EGG	171291
	4156614	M?	EGG	020192
7	4127149		PULL	100292
	4120600	F?	EGG	171291
	4156950	?	CHICK	160192
8	4127150		PULL	100292
	4120601	?	EGG ^a	171291
	Ad and egg disappeared			020192
9	4120602	F	EGG	171291
	4156615	F?	EGG	020192
	4127151		PULL	100292
10	4120603	M	F/NB	171291
	Ad disappeared			020192
11	4120604	F	EGG	171291
	4156622	?	EGG	020192
12	Ad disappeared		F	100292
	Ad flew away			171291
13	Ad disappeared			020192
	Ad flew away		F/NB	171291
14	Ad disappeared			020192
	4120605	F	EGG	171291
	4156616	M?	EGG ^b	020192
			F	100292

a. Egg broken
b. Egg frozen

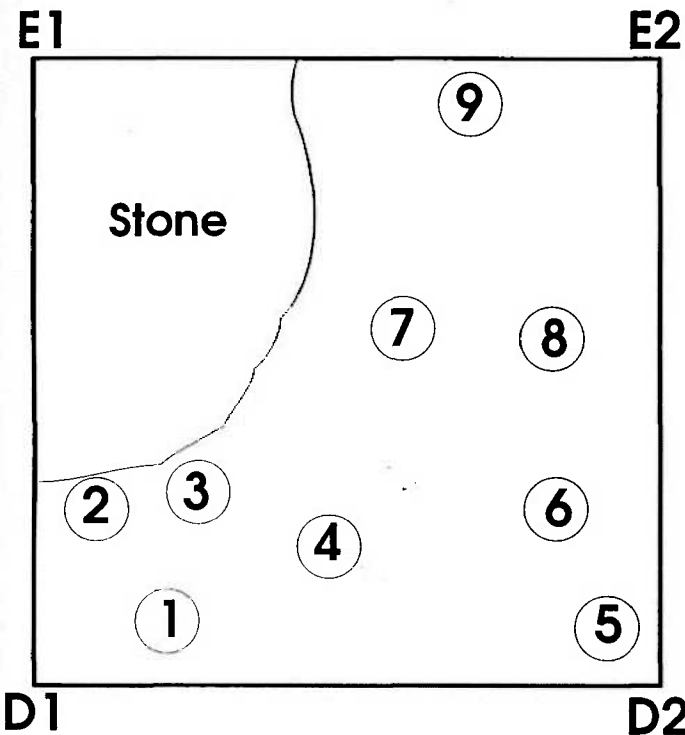


Demography field no. 2

Plot C3

Demography field no. 2, plot C3

Nest no.	Ring no.	Sex	Nest content	Date
1	4120582	M	EGG	171291
	4156851	?	CHICK	160192
	4127152		PULL	100292
2	4120583	F	EGG	171291
	Ad and egg disappeared			020192
3	4120584	F	EGG	171291
	4156606	?	EGG	020192
	4127153		PULL	100292
4	4120585	F	EGG	171291
	Ad and egg disappeared			020192
5	4120587	F	EGG	171291
			F	100292
6	4120586	M	EGG	171291
	Ad and egg disappeared			020192
7	4120588	F	EGG	171291
	4156607	M	EGG	020192
	4127154		PULL	100292
8	4120589	F	EGG	171291
	4156608	M	EGG	020192
	4127155		PULL	100292
9	4120590	F	EGG	171291
	4156609	F?	EGG	020192
	4127156		PULL	100292
10	4120591	F	EGG	171291
	4156610	M?	EGG	020192
	4127157		PULL	100292
11	4120592	F	EGG	171291
	Ad and egg disappeared			020192



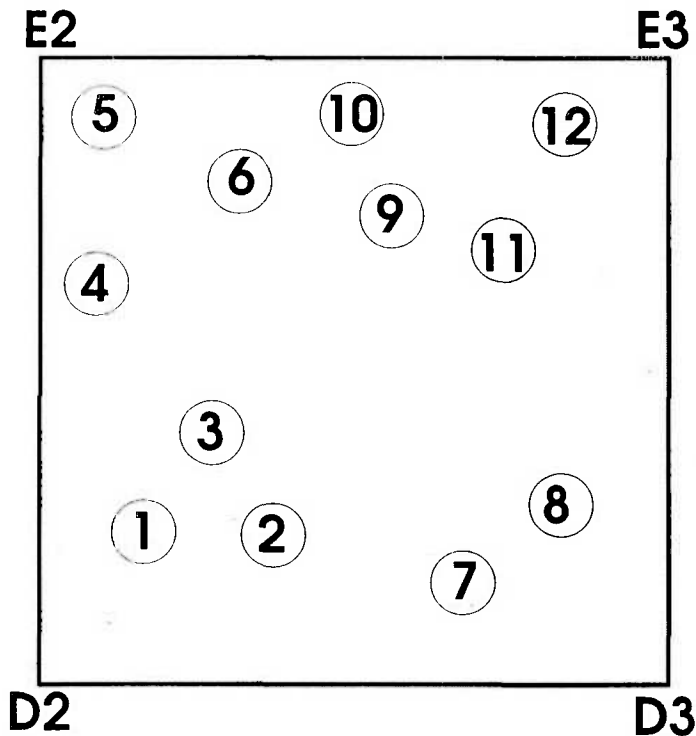
Demography field no. 2

Plot D1

Demography field no. 2, plot D1

Nest no.	Ring no.	Sex	Nest content	Date
1	4120612	F	EGG	171291
	4156635	M	EGG	020192
	4127166		PULL	100292
2	4120613	?	F/NB	171291
	4120614	?	F/NB	171291
	Ad disappeared			020192
3	4120615	F	EGG	171291
	4156636	M	EGG	020192
			F	100292
4	4120616	F	EGG	171291
	4156637	M	EGG	020192
	4127167		PULL	100292
5	4120617	F	EGG	171291
	4156638	M	EGG	020192
	4127168		PULL	100292
6	Ad flew away		F/NB	171291
	Ad disappeared			020192
	4120619	?	EGG	171291
7	4156639	M	EGG	020192
	4127169		PULL	100292
	4120618	F?	F/NB	171291
8	4120621	?	F/NB	171291
	4120620	F	EGG	171291
9	4156640	F?	EGG ^a	020192
			F	100292

a. Egg broken



Demography field no. 2

Plot D2

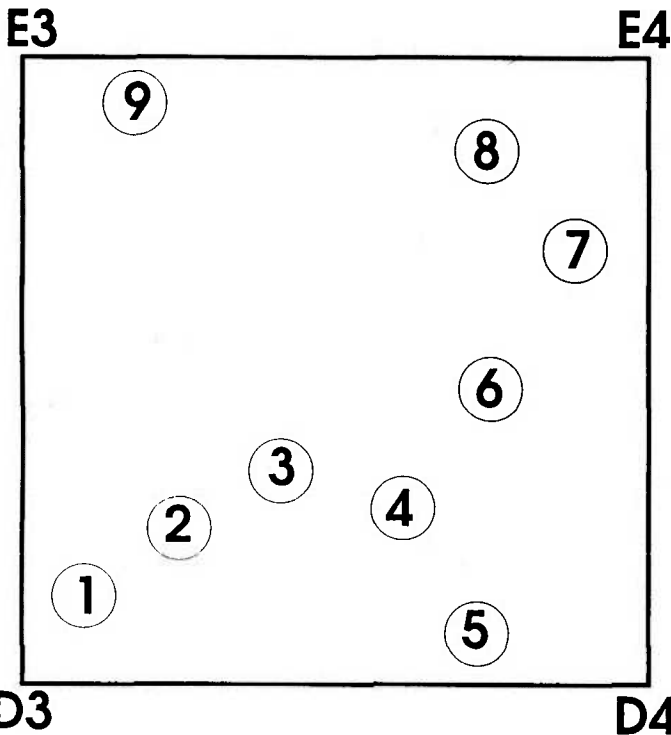
Demography field no. 2, plot D2

Nest no.	Ring no.	Sex	Nest content	Date
1	4120622	F	EGG	171291
	4156629	M	EGG	020192
	4127161		PULL	100292
2	4120623	F?	EGG	171291
	4156628	M?	EGG	020192
	4127162		PULL	100292
	4120624	M	EGG	171291
	Ad and egg disappeared			160192
4	4120625	F?	EGG	171291
	4156630	M	EGG ^a	020192
			F	100292
5	Ad flew away		EGG	171291
	4156631	M	EGG	020192
			F	100292
6	4120626	F	EGG	171291
	Ad and egg disappeared			020192
7	4120627	F	EGG	171291
	4156632	M	EGG	020192
	4127163		PULL	100292
8	Ad flew away		F/NB	171291
	Ad disappeared			020192
9	Ad flew away		F/NB	171291
	Ad disappeared			020192
10	4120628	F	EGG	171291
	4156633	M	EGG	020192
	4127164		PULL	100292
11	4120629	F	EGG	171291
	Ad and egg disappeared			020192
12	4120630	F	EGG	171291
	4156634	M?	EGG	020192
	4127165		PULL	100292

a. Egg broken

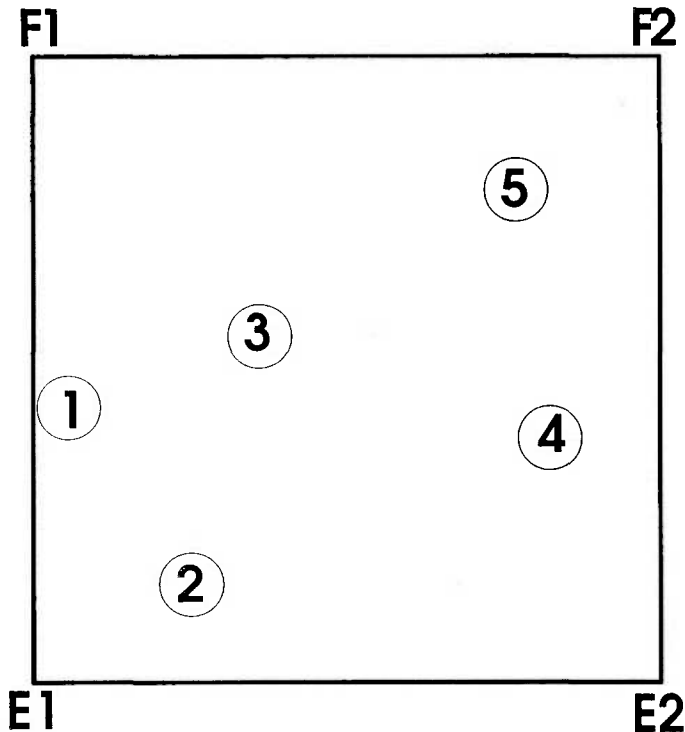
Demography field no. 2, plot D3

Nest no.	Ring no.	Sex	Nest content	Date
1	Ad flew away		F/NB	171291
	Ad disappeared			020192
2	4120631	F	EGG	171291
	4156623	?	F	020192
3	4120632	F	EGG	171291
	4156624	M	EGG	020192
	4127158		PULL	100292
4	4120633	F	EGG	171291
	4156625	?	EGG	020192
	4127159		PULL	100292
5	4120634	M	EGG	171291
	4156852	?	CHICK	160192
	4127160		PULL	100292
6	4120635	F?	EGG	171291
	4156626	M	EGG	020192
			F	100292
7	Ad flew away		F/NB	171291
	Ad disappeared			020192
8	4120636	?	EGG	171291
	Ad and egg disappeared			020192
9	4120637	F	EGG	171291
	4156627	M?	EGG	020192
			F	100292



Demography field no. 2

Plot D3



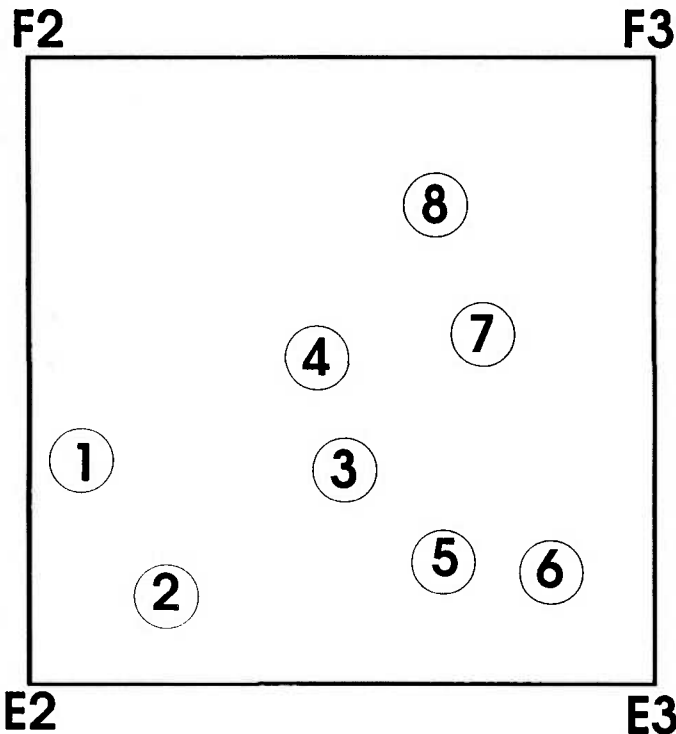
Demography field no. 2

Plot E1

Demography field no. 2, plot E1

Nest no.	Ring no.	Sex	Nest content	Date
1	4120651	M?	EGG	171291
	Ad and egg disappeared			070192
2	4127170		PULL ^a	100292
	4120652	M?	EGG	171291
3	Ad and egg disappeared			020192
	4120654	M	F/NB	171291
4	Ad disappeared			020192
	4120653	F	EGG	171291
5	4156641	M	EGG	020192
	4127171		PULL	100292
	Ad flew away			171291
			Ad disappeared	020192

a. Pull hatched another place



Demography field no. 2

Plot E2

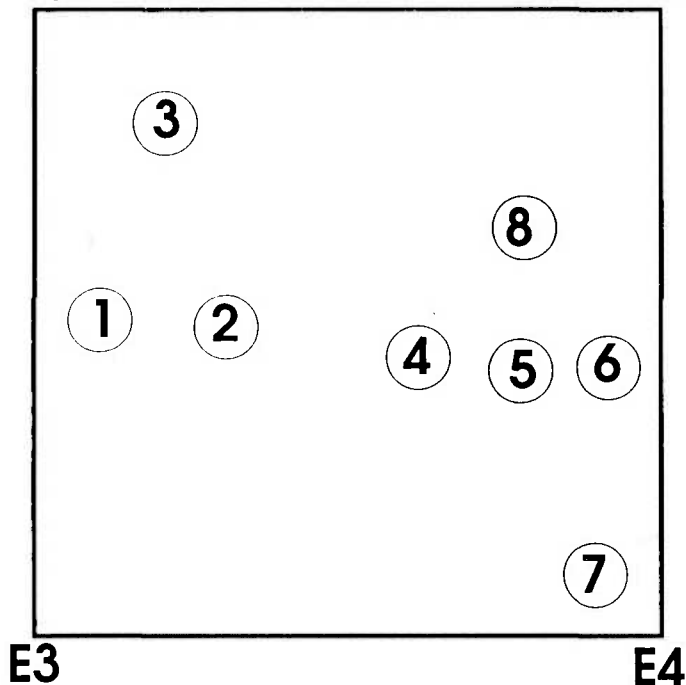
Demography field no. 2, plot E2

Nest no.	Ring no.	Sex	Nest content	Date
1	Ad flew away		F/NB	171291
	Ad disappeared			020192
2	4120645	M	EGG	171291
	4156642	F	EGG	020192
	4127172		PULL	100292
3	Ad flew away		F/NB	171291
	Ad disappeared			020192
	4127173		PULL ^a	100292
4	4120646	M	EGG	171291
	Ad and egg disappeared			070192
	4127174		PULL ^a	100292
5	4120647	M?	EGG	171291
	Ad and egg disappeared			070192
	4127175		PULL ^a	100292
6	4120648	F	EGG	171291
	4156643	M	EGG	020192
			F	100292
7	4120649	F	EGG	171291
	Ad and egg disappeared			020192
8	4120650	F	EGG	171291
	4156644	M	EGG	020192
	4127176		PULL	100292

a. Pull hatched another place

F3

F4

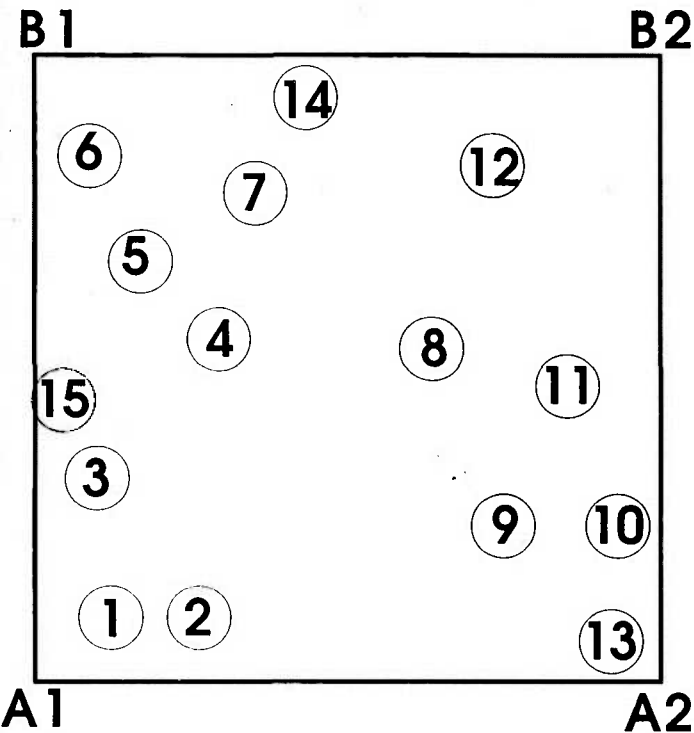


Demography field no. 2

Plot E3

Demography field no. 2, plot E3

Nest no.	Ring no.	Sex	Nest content	Date
1	4120638	?	EGG	171291
	4156853	?	F	160192
2	Ad flew away		F/NB	171291
	Ad disappeared			020192
3	4120639	F?	EGG	171291
	4156645	M?	EGG	020192
4			F	100292
	4120640	F	EGG	171291
	4156646	M	EGG	020192
5	4127177		PULL	100292
	4120642	F?	EGG	171291
	4156647	M	EGG	020192
6	4127178		PULL	100292
	4120643	F	EGG	171291
	4156824	?	EGG	070192
7	4127179		PULL	100292
	4120644	F	EGG	171291
	4156649	M	EGG	020192
8			F	100292
	4120641	F	EGG	171291
	4156648	M	EGG	020192
	4127180		PULL	100292



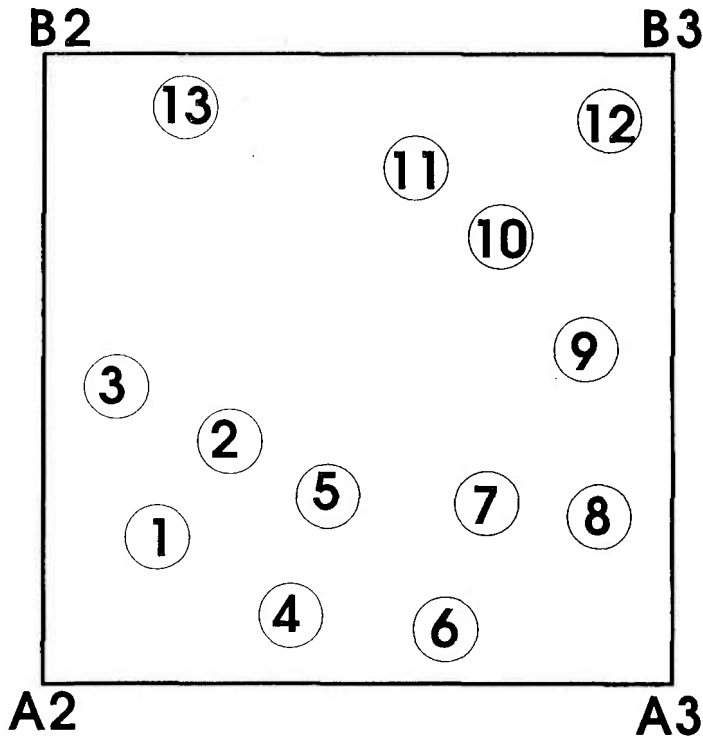
Demography field no. 3

Plot A1

Demography field no. 3, plot A1

Nest no.	Ring no.	Sex	Nest content	Date
1	4120686	?	F/NB	201291
	4120687	?	F/NB	201291
	4120688	F	EGG	201291
2	Ad and egg disappeared			120192
	Ad flew away		F/NB	201291
3	Ad disappeared			050192
	4120689	F	EGG	201291
	4156668	?	EGG	050192
	Ad and egg disappeared			100292
4	4120690	F	EGG	201291
	4156840	?	EGG	120192
	4127198		PULL	100292
5	4120691	F	EGG	201291
	4156841	?	CHICK	120192
	4127199		PULL	100292
6	Ad flew away		F/NB	201291
	4127200		PULL ^a	100292
7	Ad flew away		F/NB	201291
	Ad disappeared			050192
8	4120694	F	EGG	201291
	4156670	?	EGG	050192
	4127201		PULL	100292
9	4120693	M?	F/NB	201291
	Ad disappeared			050192
10	4120695	F	EGG	201291
	4156842	?	CHICK	120192
	4127202		PULL	100292
	4120696	F	EGG	201291
11	4156867	?	CHICK	210192
	4127203		PULL	100292
	4120697	M?	EGG	201291
12	4156671	F	F	050192
	4120692	?	EGG	201291
13	4156669	?	EGG	050192
	4127204		PULL	100292
	4156839	?	EGG	120192
14			F	100292

a. Pull hatched another place



Demography field no. 3

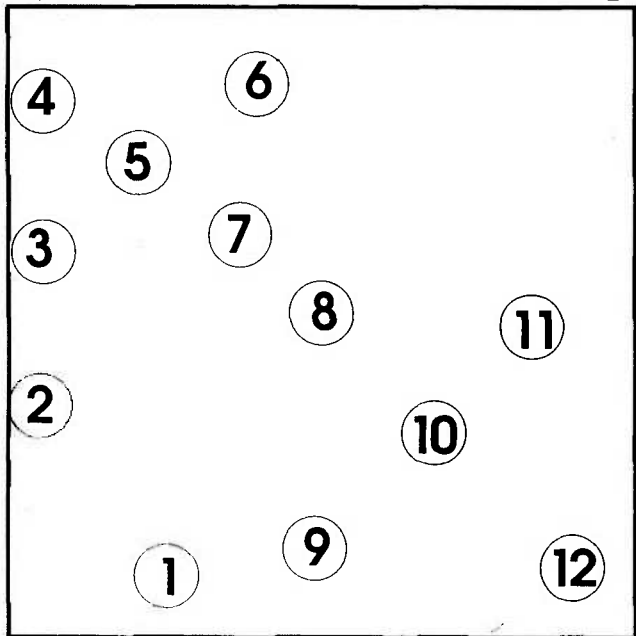
Plot A2

Demography field no. 3, plot A2

Nest no.	Ring no.	Sex	Nest content	Date
1	4120675	F	EGG	201291
	4156660	M?	EGG	050192
2	4120676	M?	F	100292
	4156836	?	EGG	201291
	4127189	?	EGG	120192
3	4120698	?	PULL	100292
	4156661	?	F/NB	201291
4	4120677	?	F/NB	050192
	4156662	F	EGG	201291
	4127190	M	EGG	050192
5	4120678	?	EGG	100292
	4156663	?	EGG	201291
	4127191	?	EGG	050192
6	4120679	F	PULL	100292
	4156664	M	EGG	201291
	4127192	?	EGG	050192
7	4120680	?	PULL	100292
	4156665	M?	EGG	201291
	4127193	?	EGG	050192
8	4120681	F	PULL	100292
	4156666	?	EGG	201291
	4127194	?	EGG	050192
9	4120682	F	PULL	100292
	4156667	?	EGG	201291
	4127195	?	EGG	050192
10	4120683	F	PULL	100292
	4156837	?	EGG	201291
	4127196	?	CHICK	120192
11	4120684	?	PULL	100292
	Ad flew away		F/NB	201291
12	Ad disappeared		F/NB	201291
	4120685	F	F/NB	050192
	4156838	?	EGG	201291
13	4127197	?	CHICK	120192
			PULL	100292

B3

B4



A3

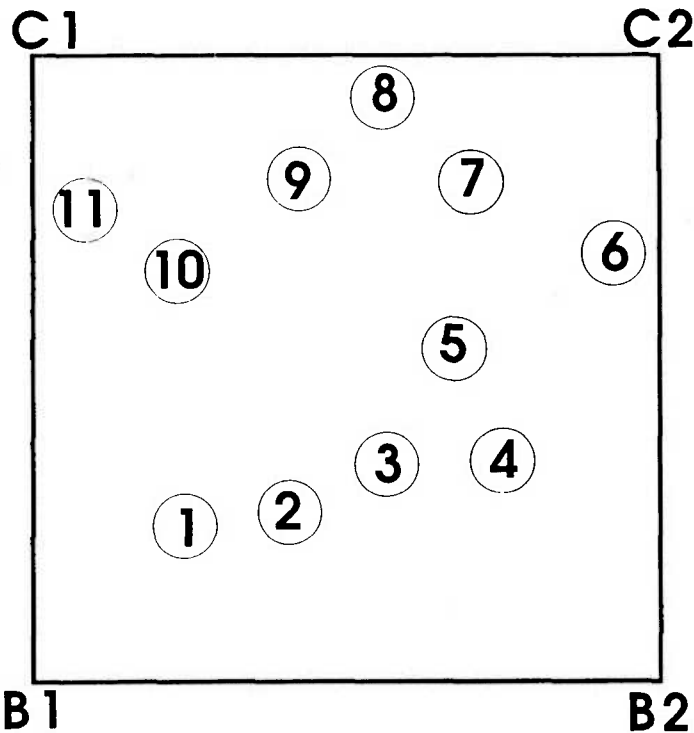
A4

Demography field no. 3

Plot A3

Demography field no. 3, plot A3

Nest no.	Ring no.	Sex	Nest content	Date
1	4120668	?	EGG	201291
	4156654	F?	EGG	050192
	4127181		PULL	100292
2	4120669	?	EGG	201291
	4156655	M?	EGG	050192
	4127182		PULL	100292
3	4120670	M?	EGG	201291
	4156834	?	EGG	120192
	4127183		PULL	100292
4	Ad flew away		F/NB	201291
	Ad disappeared			050192
5	4120671	F	EGG	201291
	Ad and egg disappeared			050192
6	4120673	F	EGG	201291
	4156835	?	CHICK	120192
7			F	100292
	4120672	?	F	201291
8	4120674	F	EGG	201291
	4156656	M?	EGG	050192
	4127184		PULL	100292
9	4120667	F?	EGG	201291
	4156657	?	EGG	050192
	4127185		PULL	100292
10	4120666	F	EGG	201291
	4156658	M?	EGG	050192
	4127186		PULL	100292
11	4120664	F	EGG	201291
	4156659	F?	EGG	050192
	4127187		PULL	100292
12	4120665	F	EGG	201291
	4156833	?	EGG	120192
	4127188		PULL	100292



Demography field no. 3

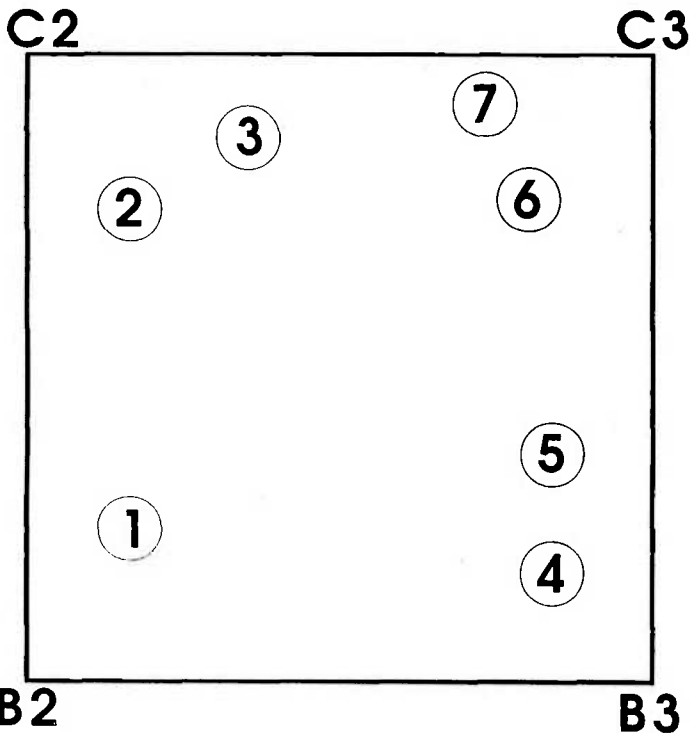
Plot B1

Demography field no. 3, plot B1

Nest no.	Ring no.	Sex	Nest content	Date
1	4120699	F	EGG	201291
	4156672	?	EGG	050192
	4127205		PULL	100292
2	Ad flew away		F/NB	201291
	Ad disappeared			050192
3	4120700	F	EGG	201291
	4156843	?	CHICK	120192
	4127206		PULL	100292
4	4120701	F?	EGG	201291
	4156673	?	EGG	050192
			F	100292
5	4120702	F	EGG	201291
	Ad and egg disappeared			050192
6	4120703	F	EGG	201291
	Ad and egg disappeared			050192
7	Ad flew away		F/NB	201291
	Ad disappeared			050192
8	4120705	F	EGG	201291
	4156844	?	CHICK	120192
	4127207		PULL	100292
9	4120704	F?	F/NB	201291
	Ad disappeared			050192
10	4120706	?	F/NB	201291
	Ad disappeared			050192
	4120707	?	F/NB	201291
11	4120708	?	F/NB	201291
	Ad disappeared			050192

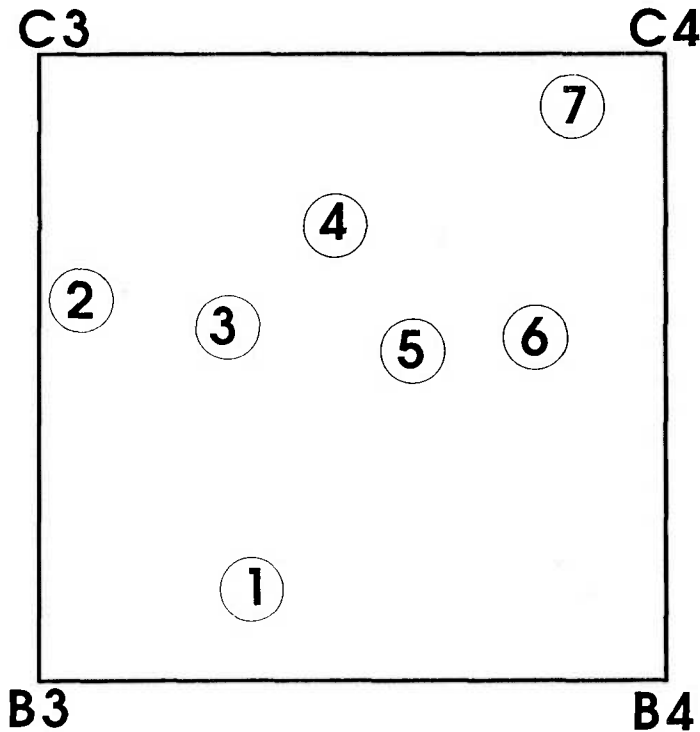
Demography field no. 3, plot B2

Nest no.	Ring no.	Sex	Nest content	Date
1	4120709	F	EGG	201291
	4156674	?	EGG	050192
	4127208		PULL	100292
2	4120710	F?	EGG	201291
	4156845	?	CHICK	120192
	4127209		PULL	100292
3	4120711	F	EGG	201291
	4156675	?	EGG	050192
			F	100292
4	4120712	F	EGG	201291
	4156854	?	CHICK	160192
	4127210		PULL	100292
5	4120713	F	EGG	201291
	4156846	?	CHICK	120192
	4127211		PULL	100292
6	4120714	F	EGG	201291
	4156676	?	EGG	050192
	4127212		PULL	100292
7	4120715	F	EGG	201291
	4156847	?	EGG	120192
			F	100292



Demography field no. 3

Plot B2

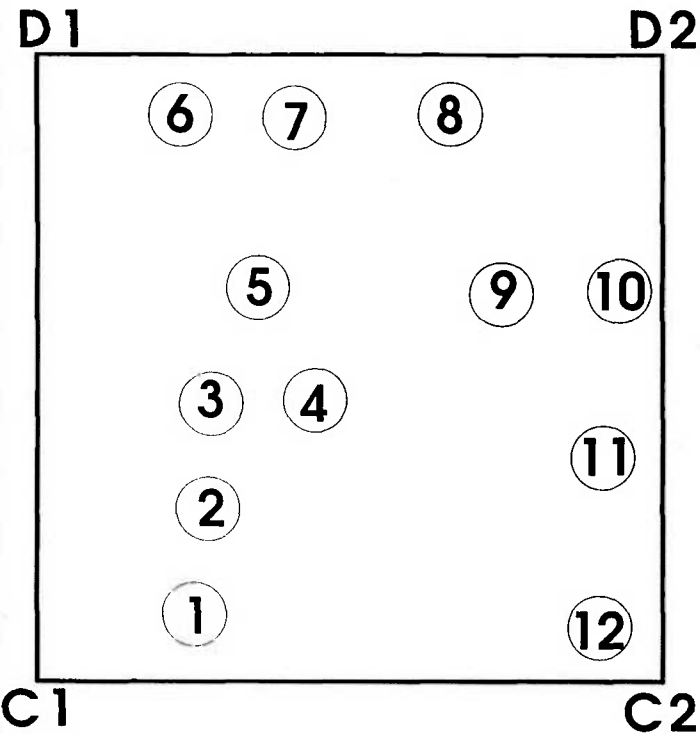


Demography field no. 3

Plot B3

Demography field no. 3, plot B3

Nest no.	Ring no.	Sex	Nest content	Date
1	4120716	F	EGG	201291
	Ad and egg disappeared			050192
2	4120717	F?	F/NB	201291
	Ad disappeared			050192
3	4120718	F	EGG	201291
	4156677	?	EGG	050192
	4127213		PULL	100292
4	4120719	F?	EGG	201291
	4156848	?	CHICK	120192
	4127214		PULL	100292
5	4120720	?	EGG	201291
	4156678	?	EGG	050192
			F	100292
6	Ad flew away		F/NB	201291
	Ad disappeared			050192
7	Ad flew away		F/NB	201291
	Ad disappeared			050192

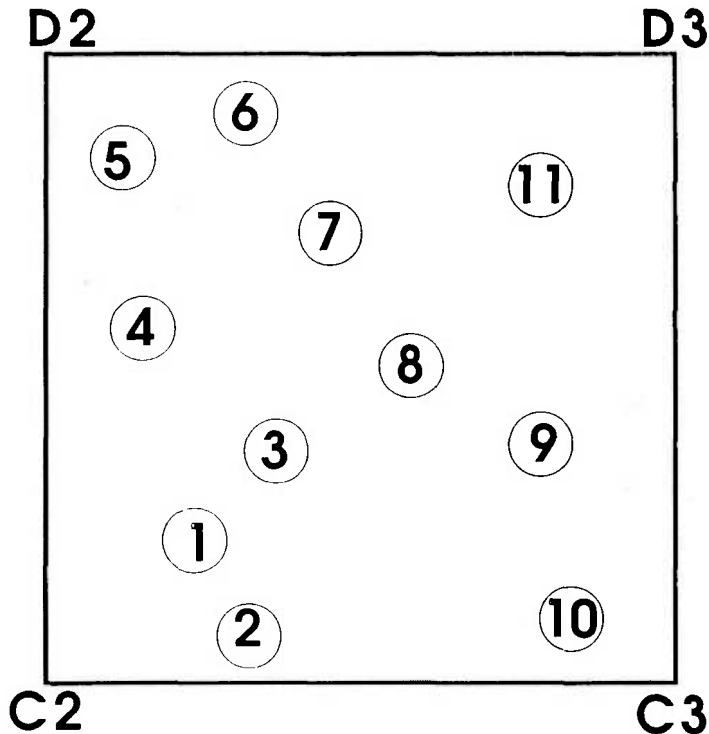


Demography field no. 3

Plot C1

Demography field no. 3, plot C1

Nest no.	Ring no.	Sex	Nest content	Date
1	Nest with broken egg, no adults			201291
2	4120734	M	F/NB	201291
	Ad disappeared			050192
3	4120735	F?	EGG	201291
	4156686	?	EGG	050192
	4127224		PULL	100292
4	4120742	M?	F/NB	201291
	Ad disappeared			050192
5	4120736	F	EGG	201291
	Ad and egg disappeared			050192
6	4120737	F	EGG	201291
	4156687	?	EGG	050192
	4127225		PULL	100292
7	4120738	F	EGG	201291
	4156688	?	EGG	050192
	4127226		PULL	100292
8	4120739	?	EGG	201291
	4156689	?	EGG	050192
	4127227		PULL	100292
9	4120740	F	EGG	201291
	4156902	?	CHICK	120192
			F	100292
10	4120741	F	EGG	201291
	4156690	?	EGG	050192
	4127228		PULL	100292
11	4120743	F	EGG	201291
	4156903	?	EGG	120192
			F	100292
12	4120744	F	EGG	201291
	Ad and egg disappeared			050192



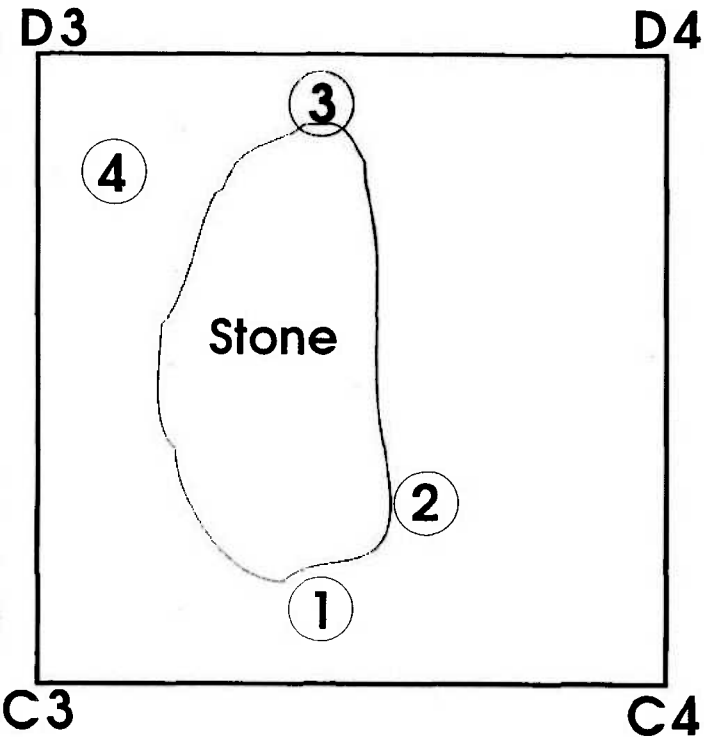
Demography field no. 3

Plot C2

Demography field no. 3, plot C2

Nest no.	Ring no.	Sex	Nest content	Date
1	4120724	M?	EGG	201291
	4156912	?	CHICK	120192
2	4127218		PULL	100292
	4120725	F	EGG	201291
	4156680	M	EGG	050192
	4127219		PULL	100292
3	4120726	F	EGG	201291
	4156901	?	CHICK	120192
	4127220		PULL	100292
4	Ad flew away		F/NB	201291
	Ad disappeared			050192
5	4120727	F	EGG	201291
	4156681	?	EGG	050192
6			F	100292
	4120728	?	EGG	201291
	4156682	?	EGG	050192
7			F	100292
	4120729	?	EGG	201291
	Ad and egg disappeared			120192
	4120730	F?	EGG	201291
8	4156683	?	EGG	050192
	4127221		PULL	100292
	4120732	?	EGG ^a	201291
9	Ad and egg disappeared			120192
	4120733	F?	EGG	201291
10	4156685	?	EGG	050192
	4127222		PULL	100292
	4120731	M	EGG	201291
11	4156684	?	EGG	050192
	4127223		PULL	100292

a. Egg broken

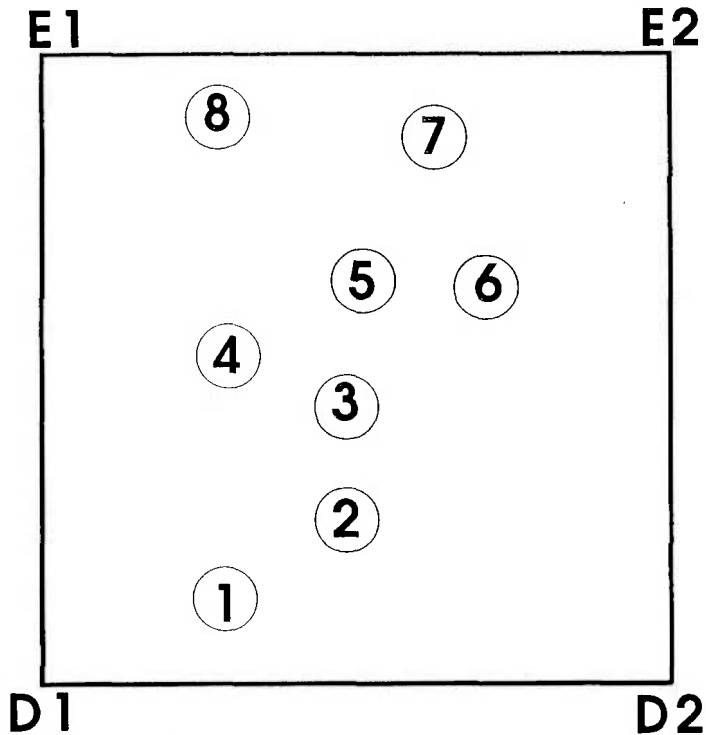


Demography field no. 3

Plot C3

Demography field no. 3, plot C3

Nest no.	Ring no.	Sex	Nest content	Date
1	4120721	F	EGG	201291
	4156849	?	CHICK	120192
	4127215		PULL	100292
2	4120722	F	EGG	201291
	4156679	?	EGG	050192
	4127216		PULL	100292
3	Ad flew away		F/NB	201291
	Ad disappeared			050192
4	4120723	F?	EGG	201291
	4156850	?	CHICK	120192
	4127217		PULL	100292

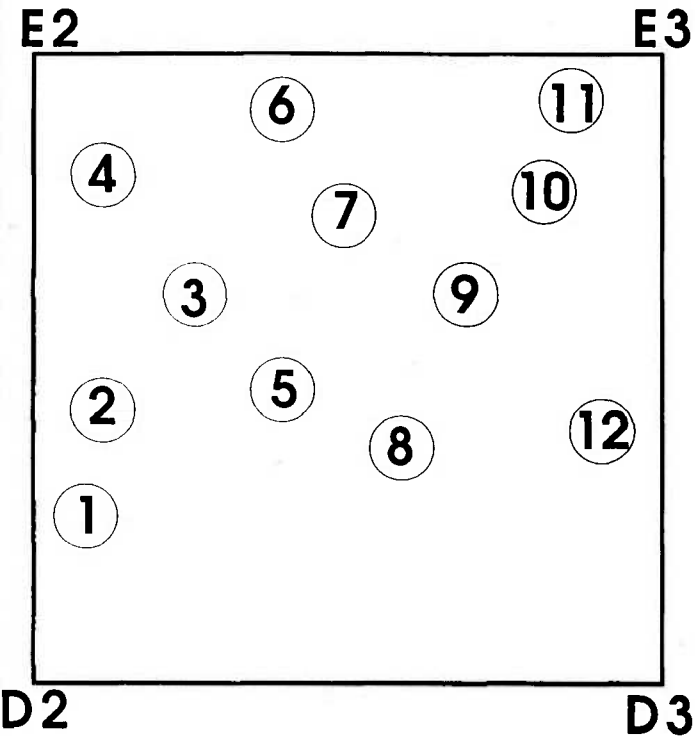


Demography field no. 3

Plot D1

Demography field no. 3, plot D1

Nest no.	Ring no.	Sex	Nest content	Date
1	4120745	F?	EGG	201291
	4156691	?	EGG	050192
	4127229		PULL	100292
2	4120747	?	EGG	201291
	Ad and egg disappeared			050192
3	4120746	F	EGG	201291
	4156692	?	EGG	050192
	4127231		PULL	100292
4	4120748	F	EGG	201291
	4156693	?	EGG	050192
	4127232		PULL	100292
5	4120749	F	EGG	201291
	Ad and egg disappeared			120192
6	Ad flew away		F/NB	201291
	Ad disappeared			050192
7	4120750	?	F/NB	201291
	Ad disappeared			050192
8	4120751	F	EGG	201291
	4156694	?	EGG	050192
	4127233		PULL	100292

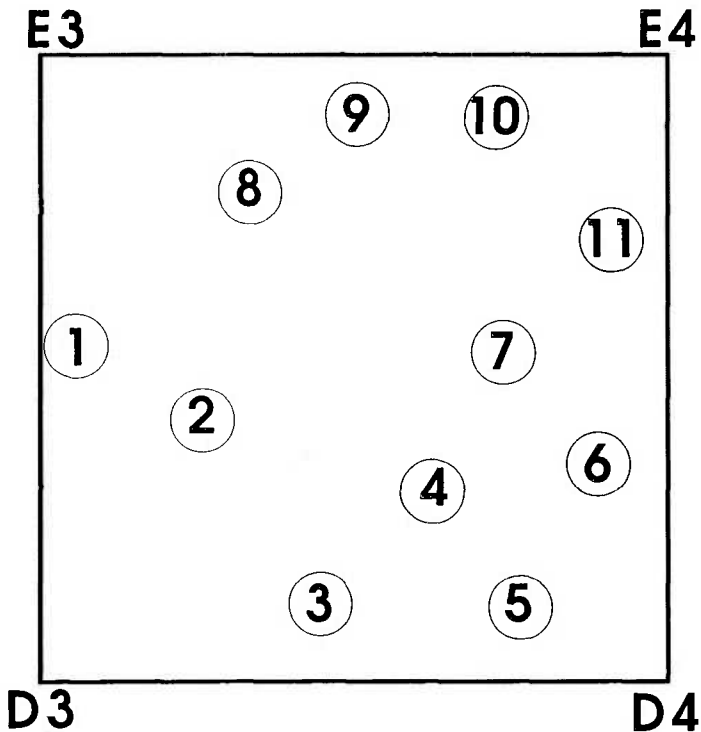


Demography field no. 3

Plot D2

Demography field no. 3, plot D2

Nest no.	Ring no.	Sex	Nest content	Date
1	4120752	F	F/NB	201291
	Ad disappeared			050192
2	4120753	?	EGG	201291
	4156855	?	CHICK	160192
	4127234		PULL	100292
3	4120754	F?	EGG	201291
	4156679	?	EGG	050192
	4127235		PULL	100292
4	4120755	?	EGG	201291
	4156698	?	EGG	050192
	4127236		PULL	100292
5	Ad flew away		F/NB	201291
	4156695	?	F/NB	050192
	4156696	?	F/NB	050192
6	4120756	?	EGG	201291
	4156909	?	CHICK	120192
	4127246		PULL	100292
7	Ad flew away		F/NB	201291
	Ad disappeared			050192
8	4120757	M?	EGG	201291
	4156856	?	CHICK	160192
	4127237		PULL	100292
9	4120758	M?	EGG	201291
	4156904	?	CHICK	120192
	4127238		PULL	100292
10	Ad flew away		F/NB	201291
	Ad disappeared			050192
11	4120759	?	EGG	201291
	4156699	?	EGG	050192
	4127239		PULL	100292
12	4120760	F	EGG	201291
	Ad and egg disappeared			050192



Demography field no. 3

Plot D3

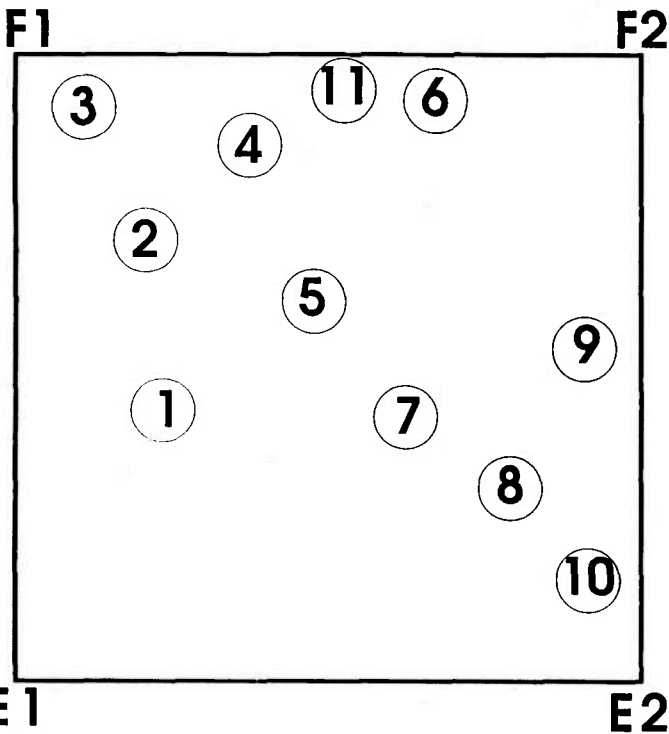
Demography field no. 3, plot D3

Nest no.	Ring no.	Sex	Nest content	Date
1	4120762	?	F/NB	201291
	Ad disappeared			050192
2	4120761	F	EGG	201291
	4156700	?	EGG	050192
			F	100292
3	4120763	F	EGG	201291
	4156701	?	EGG	050192
			F	100292
4	4120764	M?	EGG	201291
	4156904	?	CHICK	120192
	4127240		PULL	100292
5	4120765	F	EGG	201291
	4156702	?	EGG	050192
	4127241		PULL	100292
6	Ad flew away		F/NB	201291
	4156703		F/NB	050192
7	4120766	F	EGG	201291
	4156704	?	EGG	050192
	4127242		PULL	100292
8	4120767	F?	F/NB	201291
	Ad disappeared			050192
	4120768	F	EGG	201291
9	4156906	?	CHICK ^a	120192
	Ad flew away		F/NB	201291
	Ad disappeared			050192
11	Ad flew away		F/NB	201291
	Ad disappeared			050192

a. Chick dead

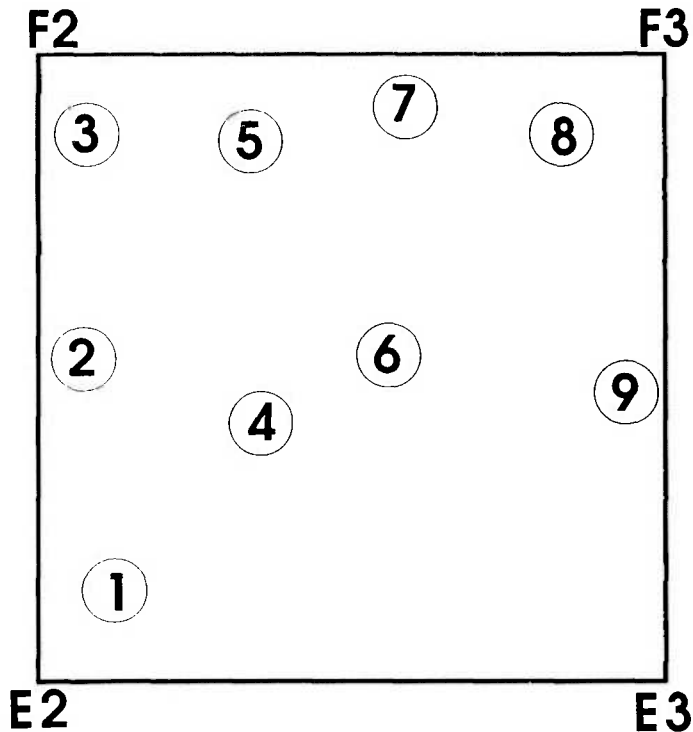
Demography field no. 3, plot E1

Nest no.	Ring no.	Sex	Nest content	Date
1	4120782	F	EGG	201291
	4156713	?	EGG	050192
	4127251		PULL	100292
2	4120783	F	EGG	201291
	4156714	?	EGG	050192
3	4127252		PULL	100292
	Ad flew away		F/NB	201291
4	Ad disappeared			050192
	4120784	F	EGG	201291
	4156715	?	EGG	050192
5	4127253		PULL	100292
	4120787	F	EGG	201291
	4156717	?	EGG	050192
6	4127254		PULL	100292
	4120786	?	EGG	201291
	4156911	?	EGG	120192
7		F	F	100292
	4120788	F?	EGG	201291
	4156716	?	EGG	050192
8	4127255		PULL	100292
	4120789	F	EGG	201291
	4156910	?	EGG	120192
9		F	F	100292
	4120790	M?	F/NB	201291
10	Ad disappeared			050192
	4156718	?	EGG	050192
	4127256		PULL	100292
11	4120785	F	EGG	201291
	Ad and egg disappeared			160192



Demography field no. 3

Plot E1

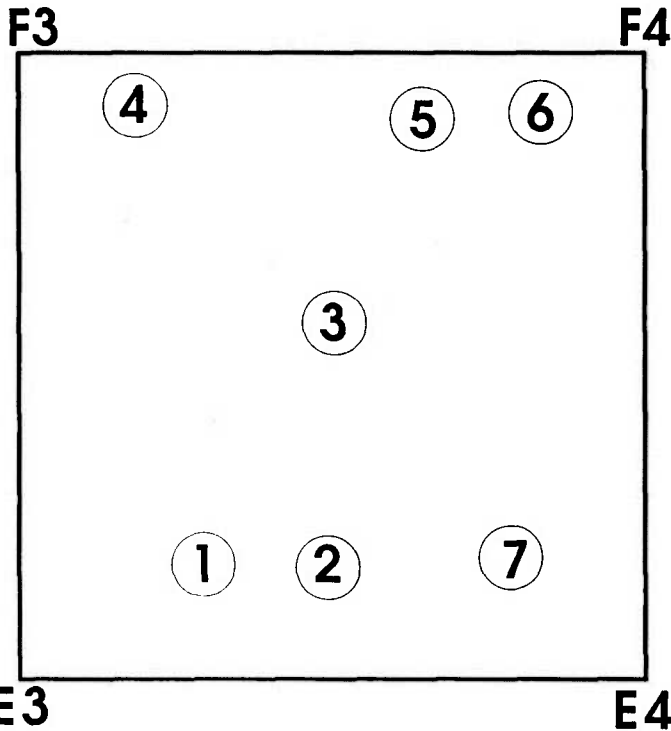


Demography field no. 3

Plot E2

Demography field no. 3, plot E2

Nest no.	Ring no.	Sex	Nest content	Date
1	4120775	F?	EGG	201291
	Ad and egg disappeared			160192
2	4120776	F?	EGG	201291
	4156708	?	EGG	050192
	4127245		PULL	100292
	4156709	?	EGG	050192
3			F	100292
	4120777	?	EGG	201291
	4156908	?	CHICK	120192
4	4127247		PULL	100292
	4120778	?	F/NB	201291
	Ad disappeared			050192
5	Ad flew away			201291
	Ad disappeared		F/NB	050192
6	4120779	M?	EGG	201291
	4156710	?	EGG	050192
	4127248		PULL	100292
7	4120780	F	EGG	201291
	4156711	?	EGG	050192
	4127249		PULL	100292
8	4120781	F	EGG	201291
	4156712	?	EGG	050192
	4127250		PULL	100292



Demography field no. 3

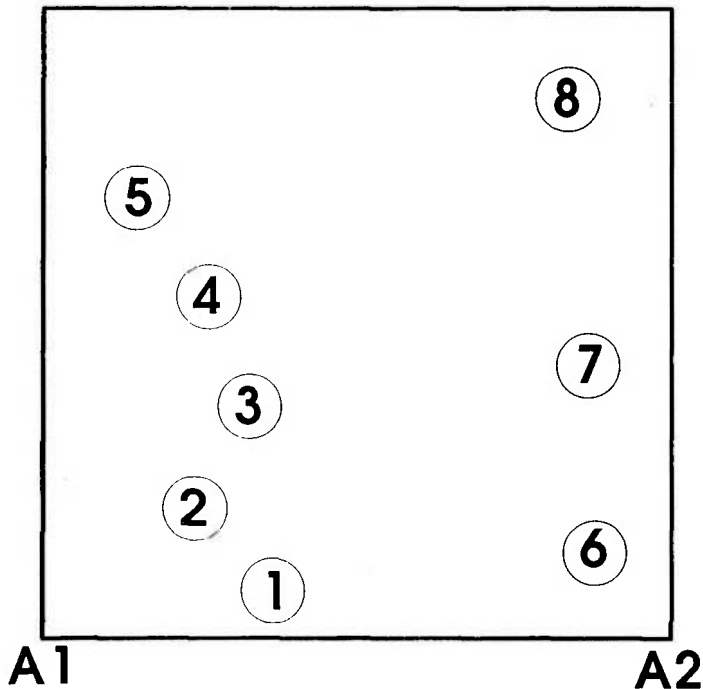
Plot E3

Demography field no. 3, plot E3

Nest no.	Ringnr.	Sex	Status	Date
1	4120770	M?	EGG	201291
	4156907	?	CHICK	120192
	4127243		PULL	100292
2	4120774	M	EGG	201291
	Ad and egg disappeared			050192
3	4120771	F	EGG	201291
	Ad and egg disappeared			050192
4	4120773	M?	F/NB	201291
	Ad disappeared			050192
5	Ad flew away		F/NB	201291
	4156707	?	F/NB	050192
6	4120772	F?	EGG	201291
	4156706	?	EGG	050192
	4127244		PULL	100292
7	4120769	F	F/NB	201291
	4156705	?	F/NB	050192

B 1

B 2



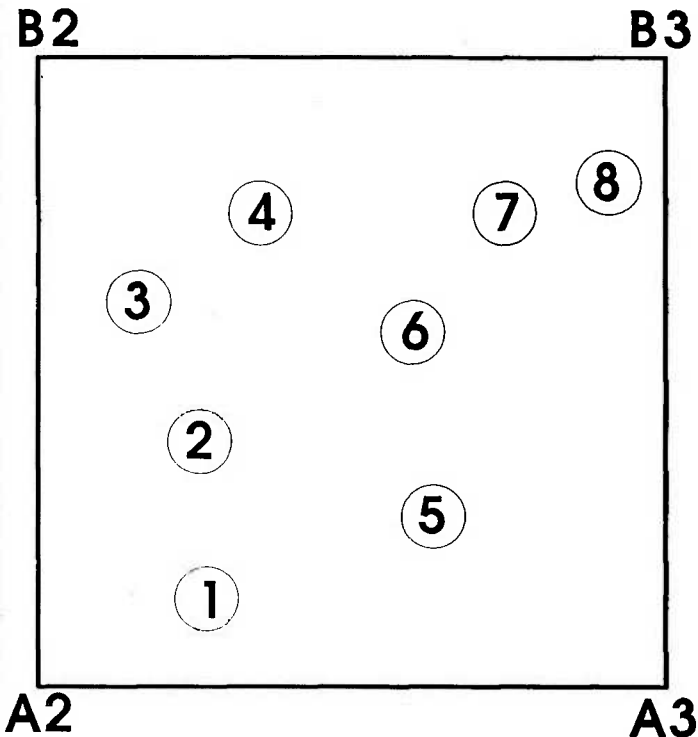
Demography field no. 4

Plot A1

Demography field no. 4, plot A1

Nest no.	Ring no.	Sex	Nest content	Date
1	4120813	M	EGG ^a	231291
	Nest destroyed by meltwater			120192
2	4120814	F	EGG	231291
	Ad and egg disappeared			060192
3	4120815	F	EGG	231291
	4156734	?	EGG	060192
4	Nest destroyed by meltwater			100292
	4120816	F	EGG	231291
5	Nest destroyed by meltwater			120192
	4120848	F	F/NB	231291
6	Ad disappeared			060192
	4120817	?	EGG	231291
7	4145916	?	EGG	120192
	Nest destroyed by meltwater			100292
8	4120818	F	EGG	231291
	4156917	?	EGG	120192
8	4127268		PULL	100292
	4120849	?	F/NB	231291
	Ad disappeared			060192

a. Egg broken



Demography field no. 4

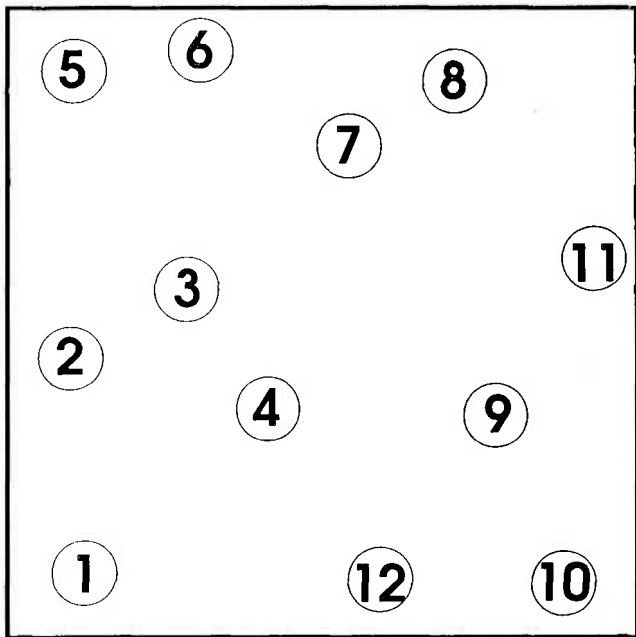
Plot A2

Demography field no. 4, plot A2

Nest no.	Ring no.	Sex	Nest content	Date
1	4120804	F	F/NB	231291
	4120805	M	F/NB	231291
	Nestsite occupied by new pair			
2	4120806	M	EGG	231291
	4156730	?	EGG	060192
	4127263		PULL	100292
3	4120807	F	EGG	231291
	4156731	?	EGG	060192
	4127264		PULL	100292
4	4120808	?	EGG	231291
	4156915	?	CHICK	120192
	4127265		PULL	100292
5	4120809	F	EGG	231291
	4156732	?	EGG	060192
	4127266		PULL	100292
6	4120810	F	EGG	231291
	Ad and egg disappeared			060192
7	4120811	M	F/NB	231291
	Ad disappeared			
8	4120812	M	EGG	231291
	4156733	?	EGG	060192
	4127267		PULL	100292

B3

B4



A3

A4

Demography field no. 4

Plot A3

Demography field no. 4, plot A3

Nest no.	Ring no.	Sex	Nest content	Date
1	4120801	?	F/NB	231291
	Ad disappeared			060192
2	4120792	M	EGG	231291
	4156724	?	EGG	060192
	4127257		PULL	100292
3	4120793	M?	F/NB	231291
	Ad disappeared			060192
4	4120794	F	EGG	231291
	4156725	?	EGG	060192
	4127258		PULL	100292
5	4120795	F	EGG	231291
	4156727	?	EGG	060192
	4127259		PULL	100292
6	4120796	F?	EGG	231291
	4156914	?	EGG	120192
	4127260		PULL	100292
7	4120797	F	EGG	231291
	4156728	?	EGG	060192
8	4120798	F	EGG	231291
	4156729	?	EGG	060192
	4127261		PULL	100292
9	4120802	M	F/NB	231291
	Ad disappeared			060192
10	4120799	M	EGG	231291
	4156913	?	F	120192
	4120800	F	EGG ^a	231291
12	Ad disappeared			060192
	4120803	M	EGG	231291
	4156726	?	EGG	060192
	4127262		PULL	100292

a. Egg broken

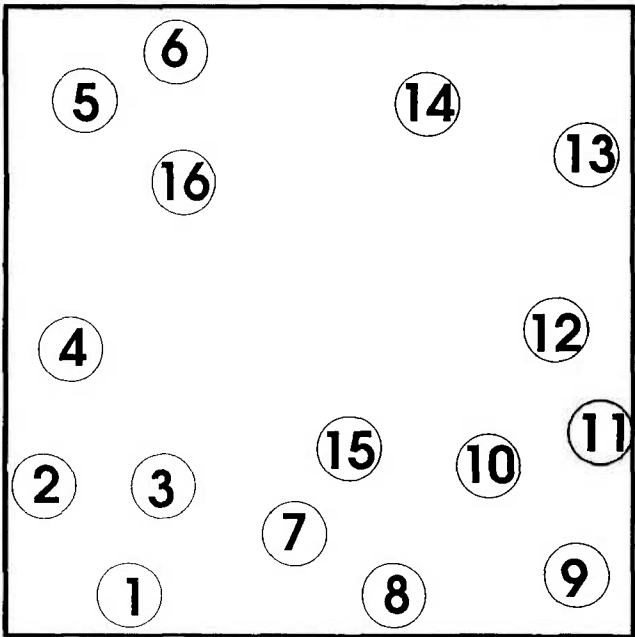
Demography field no. 4, plot B1

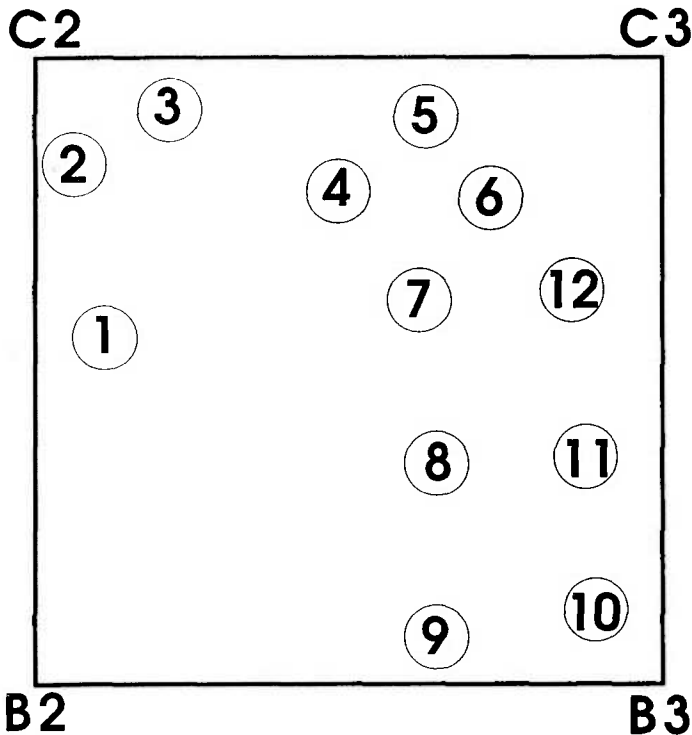
Nest no.	Ring no.	Sex	Nest content	Date
1	4120847	?	EGG	231291
	Nest destroyed by meltwater			120192
2	4120850	?	EGG	231291
	Nest destroyed by meltwater			120192
3	4120851	?	EGG	231291
	4156918	?	EGG ^a	120192
	Nest destroyed by meltwater			100292
4	4120852	F?	EGG	231291
	Nest destroyed by meltwater			120192
5	4120853	F	EGG	231291
	Nest destroyed by meltwater			120192
6	4120854	F	EGG	231291
	4156735	?	EGG	060192
	Nest destroyed by meltwater			100292
7	4120855	F?	EGG	231291
	4156736	?	EGG	060192
	Nest destroyed by meltwater			100292
8	4120856	F?	EGG	231291
	Nest destroyed by meltwater			120192
9	4120857	F	EGG	231291
	4156866	?	CHICK	210192
	4127269		PULL	100292
10	4120858	M	EGG	231291
	4156738	?	EGG	060192
	Nest destroyed by meltwater			100292
11	4120859	F	EGG	231291
	4120860	M	EGG	231291
	Nest destroyed by meltwater			100292
12	4120861	M	EGG	231291
	4120862	F	EGG	231291
	Nest destroyed by meltwater			100292
13	Ad flew away		F/NB	231291
	Ad disappeared			060192
14	4120863	F	EGG	231291
	4156737	?	EGG	060192
	Nest destroyed by meltwater			100292
15	4120864	?	F/NB	231291
	Ad disappeared			060192
16	4120865	M?	F/NB	231291
	Ad disappeared			060192

^a Egg destroyed by meltwater

Demography field no. 4

Plot B1





Demography field no. 4

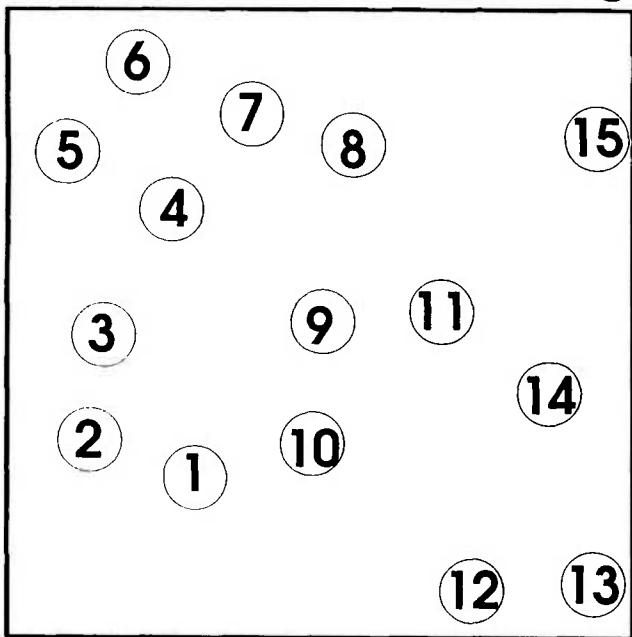
Plot B2

Demography field no. 4, plot B2

Nest no.	Ring no.	Sex	Nest content	Date
1	4120834	?	F/NB	231291
	4120835	?	F/NB	231291
2	Ad disappeared			060192
	4120836	M	F/NB	231291
3	Ad disappeared			060192
	4120837	?	EGG	231291
4	4156739	?	EGG	060192
	4127270		PULL	100292
	4120838	F	EGG	231291
5	4156865	?	CHICK	210192
	4120839	?	EGG	231291
6	4156919	?	CHICK	120192
	4127271		PULL	100292
	4120846	?	F/NB	231291
7	Ad disappeared			060192
	4120840	F?	EGG	231291
8	4156864	?	CHICK	210192
	4127272		PULL	100292
	4120841	?	EGG	231291
9	4156740	?	EGG	060192
	4127273		PULL	100292
	4120842	M	EGG	231291
10	4156741	?	EGG	060192
	4127274		PULL	100292
	4120843	?	EGG	231291
11	4156742	?	EGG	060192
			F	100292
	4120844	F?	EGG	231291
12	4156743	?	EGG	060192
	4127275		PULL	100292
	4120845	M	EGG	231291
	4156744	?	EGG	060192
	4127276		PULL	100292

C3

C4



B3

B4

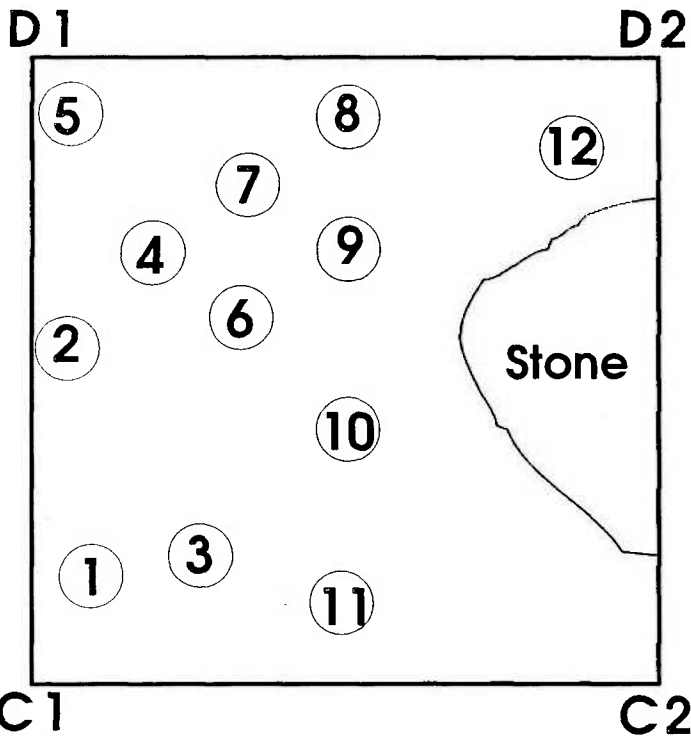
Demography field no. 4

Plot B3

Demography field no. 4, plot B3

Nest no.	Ring no.	Sex	Nest content	Date
1	4120819	F	EGG	231291
	4156745	?	EGG	060192
	4127277		PULL	100292
2	4120820	F	EGG	231291
	4156920	?	CHICK	120192
3	4120821	F	F	100292
	4156746	?	EGG	231291
			EGG	060192
4			F	100292
			F/NB	231291
	Ad flew away			060192
5	Ad disappeared			231291
	4120822	M	EGG	231291
	4156747	?	EGG	060192
6			F	100292
	4120823	F	F/NB	231291
	4120824	M?	F/NB	231291
7	Ad disappeared			060192
	4120825	M?	F	231291
	4156748	?	F	060192
8	4120826	F	EGG	231291
	4156749	?	EGG	060192
9			F	100292
	4120827	F?	F	231291
	Ad disappeared			060192
10	4127278		PULL ^a	100292
	4120828	F	EGG	231291
	4156750	?	EGG	060192
11	4127279		PULL	100292
	4120829	F?	EGG	231291
	4156751	?	EGG	060192
12	4127280		PULL	100292
	4120830	F?	EGG	231291
	4156752	?	EGG	060192
13			F	100292
	4120831	M	EGG	231291
	4156753	?	EGG	060192
14	4127281		PULL	100292
	4120832	?	EGG	231291
	4156921	?	EGG	120192
15			F	100292
	4120833	M	EGG	231291
	4156922	?	CHICK	120192
	4127282		PULL	100292

a. Pull hatched another place



Demography field no. 4, plot C1

Nest no.	Ring no.	Sex	Nest content	Date
1	4120894	F?	F/NB	231291
	4120895	M?	F/NB	231291
2	4120896	F	EGG	231291
	4156769	?	EGG	060192
3	Nest destroyed by meltwater			100292
	4120897	F	EGG	231291
4	4156770	?	EGG	060192
	Nest destroyed by meltwater			100292
5	Ad flew away		F/NB	231291
	4156772	?	EGG	060192
6	Nest destroyed by meltwater			100292
	4120898	F?	F/NB	231291
7	4120899	M?	F/NB	231291
	Ad disappeared			060192
8	4120900	?	F/NB	231291
	4156771	?	F/NB	060192
9	4120905	?	F/NB	231291
	Ad disappeared			060192
10	Ad disappeared		F/NB	231291
	4120901	?	F/NB	231291
11	Ad disappeared			060192
	Ad flew away		F/NB	231291
12	Ad disappeared			060192
	4120902	M?	EGG	231291
11	4156773	?	EGG	060192
	Nest destroyed by meltwater			100292
12	4120903	F?	EGG	231291
	Nest destroyed by meltwater			120192
12	4120904	F	EGG	231291
	4156774	?	EGG	060192
			F	100292

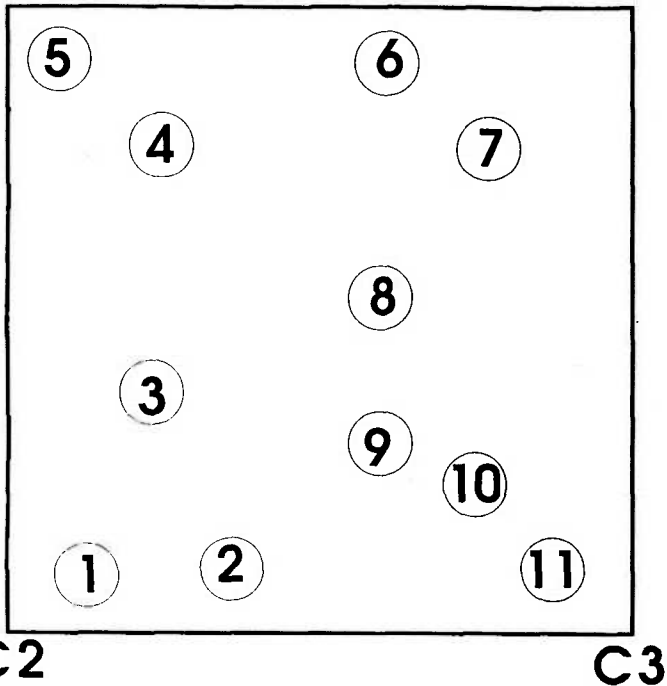
Demography field no. 4, plot C2

Nest no.	Ring no.	Sex	Nest content	Date
1	4120883	F?	EGG	231291
	4156925	?	CHICK	120192
	4127292		PULL	100292
2	4120884	F?	EGG	231291
	4156857	?	CHICK	160192
	4127293		PULL	100292
3	4120885	M?	EGG	231291
	4156926	?	EGG	120192
	4127294		PULL	100292
4	4120886	?	EGG	231291
	4156767	?	EGG	060192
	4127295		PULL	100292
5	4120887	F	EGG	231291
	4156768	?	EGG	060192
	4127296		PULL	100292
6	4120888	?	EGG ^a	231291
	Ad disappeared			060192
7	4120889	F	EGG	231291
	4156766	?	EGG	060192
	4127297		PULL	100292
8	4120890	M?	EGG	231291
	4156765	?	EGG	060192
	4127298		PULL	100292
9	4120892	?	EGG	231291
	4156763	?	EGG	060192
	4127299		PULL	100292
10	4120891	?	F/NB	231291
	Ad disappeared			120192
	4127300		PULL ^b	100292
11	4120893	M?	EGG	231291
	4156764	?	EGG	060192
	4127301		PULL	100292

a. Egg broken
b. Pull hatched another place

D2

D3

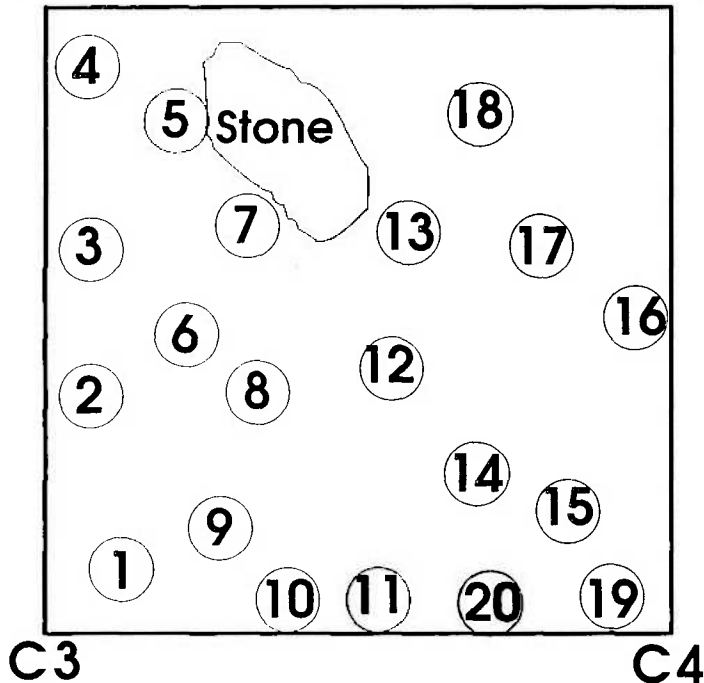


Demography field no. 4

Plot C2

D3

D4



Demography field no. 4

Plot C3

Demography field no. 4, plot C3

Nest no.	Ring no.	Sex	Nest content	Date
1	4120866	F	EGG	231291
	4156923	?	CHICK	120192
	4127283		PULL	100292
	4120867	M	EGG	231291
2	4156755	?	EGG	060192
	4127284		PULL	100292
	Ad flew away		F/NB	231291
	Ad disappeared			060192
4	4120868	?	F/NB	231291
	Ad disappeared			060192
5	4120869	F?	EGG	231291
	4156859	?	CHICK	160192
	4127285		PULL	100292
6	4120871	F?	EGG	231291
	4156858	?	CHICK	160192
7			F	100292
	4120870	M?	EGG	231291
	Ad and egg disappeared			060192
8	4120872	F	EGG	231291
	Ad and egg disappeared			060192
9	4127286		PULL ^b	100292
	4120873	F	EGG	231291
	4156756	?	EGG	060192
	4127287		PULL	100292
10	4120874	F?	EGG	231291
	4156757	?	EGG	060192
	4127288		PULL	100292
11	4120877	?	EGG ^a	231291
	Ad disappeared			060192
12	4120875	F	EGG	231291
	4156758	?	EGG	060192
			F	100292
13	4120876	F	EGG	231291
	4156759	?	EGG	060192
			F	100292
14	4120878	F	EGG	231291
	4156860	?	CHICK	160192
	4127289		PULL	100292
15	4120879	F?	EGG	231291
	4156924	?	CHICK	120192
	4127290		PULL	100292
16	4120880	F	EGG	231291
	4156761	?	EGG	060192
	4127291		PULL	100292
17	Ad flew away		F/NB	231291
	Ad disappeared			060192
18	4120881	F	EGG	231291
	4156762	?	EGG	060192
19			F	100292
	4120882	F?	EGG	231291
	4156754	?	EGG	060192
20			F	100292
	4156760	?	EGG ^a	060192
			F	100292

a. Egg broken

b. Pull hatched another place

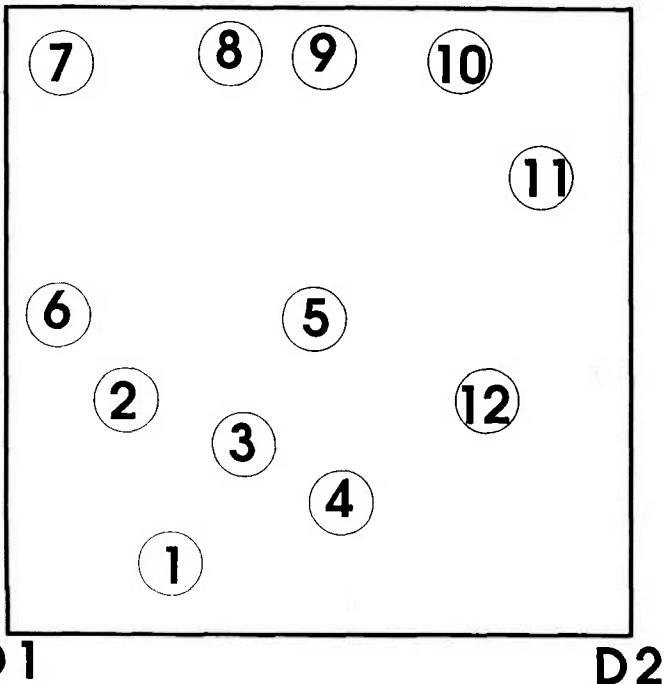
Demography field no. 4, plot D1

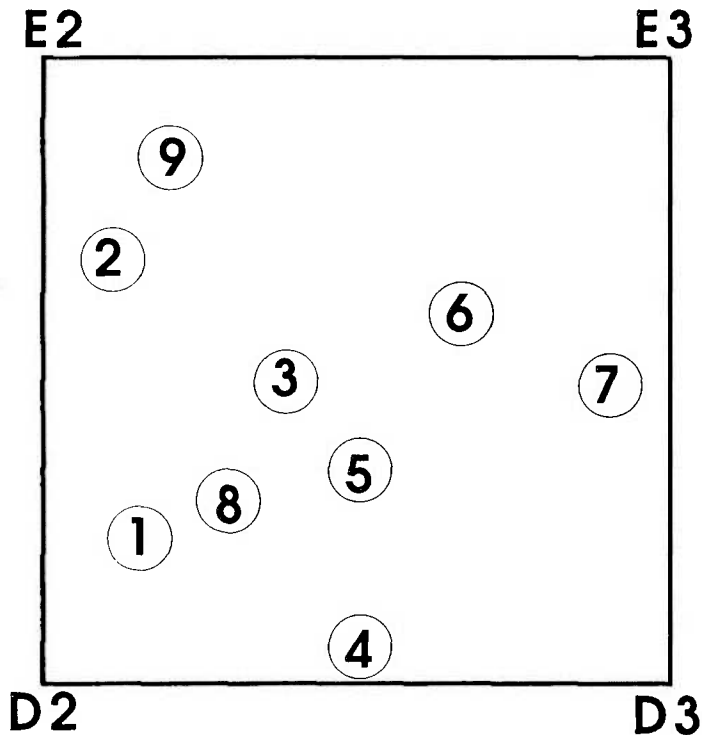
Nest no.	Ring no.	Sex	Nest content	Date
1	4120932	F	EGG	231291
	4156775	?	EGG	060192
2	4120933	F	EGG	100292
	4120933	F	EGG	231291
3	4120935	F	EGG	120192
	4156777	?	EGG	231291
4	4120936	F	EGG	060192
	4120936	F	EGG	231291
5	4120937	F	EGG	120192
	4120937	F	EGG	231291
6	4120934	M	EGG	120192
	4156776	?	EGG	231291
7	4156776	?	EGG	060192
	4156776	?	EGG	100292
8	Ad flew away		F/NB	231291
	4120938	?	EGG	120192
9	4156927	?	EGG ^a	231291
	4156927	?	EGG ^a	120192
10	4120939	M?	EGG	100292
	4156778	?	EGG	231291
11	4156778	?	EGG	060192
	4156778	?	EGG	100292
12	4120940	M	EGG	231291
	4156779	?	EGG	060192
12	4120941	F?	EGG	100292
	4120941	F?	EGG	231291
12	Ad and egg disappeared			060192
	4127302		PULL ^b	100292
12	4120942	F	EGG	231291
	4156780	?	EGG	060192
12	4127303		PULL	100292

^a. Egg destroyed^b. Pull hatched another place

Plot D1

Demography field no. 4





Demography field no. 4

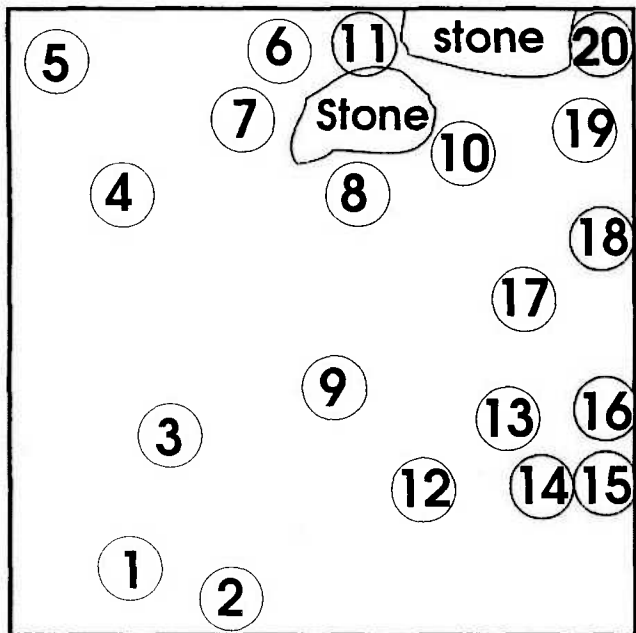
Plot D2

Demography field no. 4, plot D2

Nest no.	Ring no.	Sex	Nest content	Date
1	4120927	F	EGG	231291
	4156928	?	EGG	120192
			F	100292
2	4120928	F	EGG	231291
	4156781	?	EGG	060192
			F	100292
3	4120929	F	EGG	231291
	Ad and egg disappeared			060192
4	Ad flew away			231291
	Ad disappeared			060192
5	4120930	M?	EGG	231291
	4156782	?	EGG	060192
			F	100292
6	Ad flew away			231291
7	4120931	M?	EGG	231291
	4156783	?	EGG	060192
8	4120925	?	F	100292
	4120926	?	F/NB	231291
	Ad disappeared			060192
9	4120943	M	F/NB	231291
	4120944	F	F/NB	231291
	Ad disappeared			060192

E3

E4

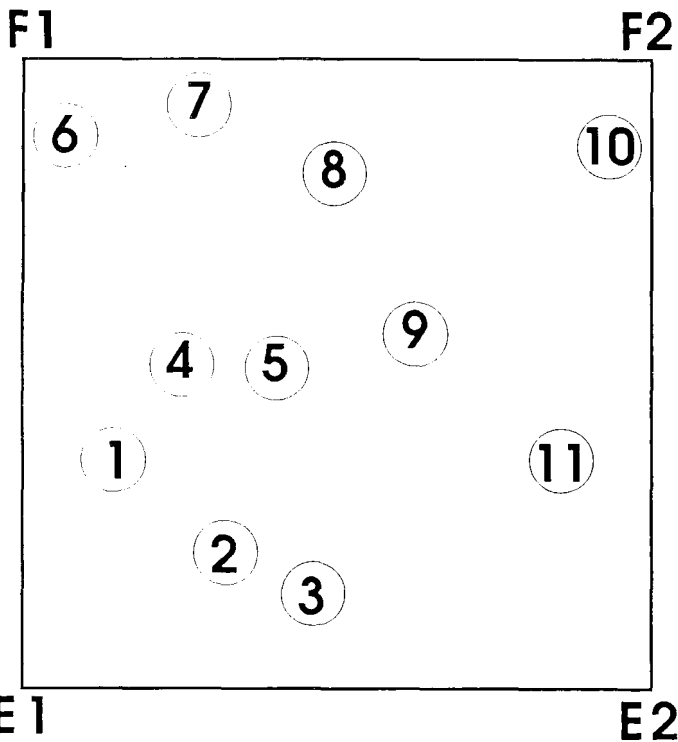


Demography field no. 4

Plot D3

Demography field no. 4, plot D3

Nest no.	Ring no.	Sex	Nest content	Date
1	4120906	F	EGG	231291
	4156861	?	CHICK	160192
	4127304		PULL	100292
2	4120907	F?	EGG	231291
	4156784	?	EGG	060192
	4127305		PULL	100292
	4120924	?	F/NB	231291
3	Ad disappeared			060192
	4120908	F	EGG	231291
	4156785	?	EGG	060192
	4127306		PULL	100292
4	4120909	M	F/NB	231291
	4120910	F	F/NB	231291
	Ad disappeared			060192
	4120912 ^a	F?	EGG	231291
5	4156786	?	EGG	060192
	Nest destroyed by landslide			
6	Ad flew away		F/NB	231291
	Ad disappeared			060192
7	4120913	F	EGG	231291
	4156787	?	EGG	060192
	4127307		PULL	100292
8	4120914	?	EGG	231291
	4156929	?	CHICK	120192
			F	100292
9	4120915	M	F/NB	231291
	Ad disappeared			060192
10	4120911	F	EGG	231291
	4156930	?	CHICK	120192
	4127308		PULL	100292
11	Ad flew away		F/NB	231291
	Ad disappeared			060192
	4120916	F?	EGG	231291
12	4156788	?	EGG	060192
	4127310		PULL	100292
	4120917	M?	EGG	231291
13	4156789	?	EGG	060192
	4127309		PULL	100292
	4120918	F?	EGG	231291
14	4156790	?	EGG	060192
	4127311		PULL	100292
	4120919	M	EGG	231291
15	4156791	?	EGG	060192
	4127312		PULL	100292
	4120920	M?	EGG	231291
16	Ad and egg disappeared			060192
	4120921	M?	EGG	231291
17	4156792	?	EGG	060192
	4127313		PULL	100292
	4120922	F?	EGG	231291
18	4156931	?	EGG	120192
	4127314		PULL	100292
	4120923	M	EGG	231291
19	4156793	?	EGG	060192
			F	100292

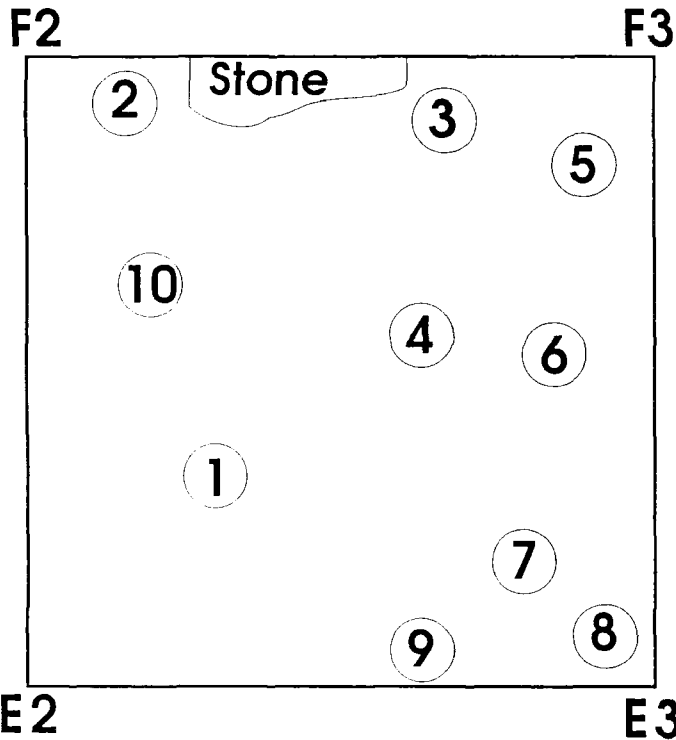


Demography field no. 4

Plot E1

Demography field no. 4, plot E1

Nest no.	Ring no.	Sex	Nest content	Date
1	4120962	F	F/NB	231291
	4120963	M	F/NB	231291
2	4120964	F	EGG	231291
	4156804	?	EGG	060192
<i>Nest destroyed by meltwater</i>				
3	4120965	F	EGG	231291
	4156805	?	EGG	060192
<i>Chick too small for ringing</i>				
4	4120966	F	EGG	231291
	4156806	?	EGG	060192
<i>Nest destroyed by meltwater</i>				
5	Ad flew away		F/NB	231291
	Ad disappeared			060192
6	4120967	F	EGG	231291
	4156807	?	EGG	060192
<i>Nest destroyed by meltwater</i>				
7	4120968	M	EGG	231291
	4156808	?	EGG	060192
<i>Nest destroyed by meltwater</i>				
8	Ad flew away		F/NB	231291
	Ad disappeared			060192
9	4120969	F	EGG	231291
	4156809	?	EGG	060192
<i>Nest destroyed by meltwater</i>				
10	Ad flew away		F/NB	231291
	Ad disappeared			060192
11	4120970	F	EGG	231291
	4156810	?	EGG	060192
<i>Nest destroyed by meltwater</i>				



Demography field no. 4

Plot E2

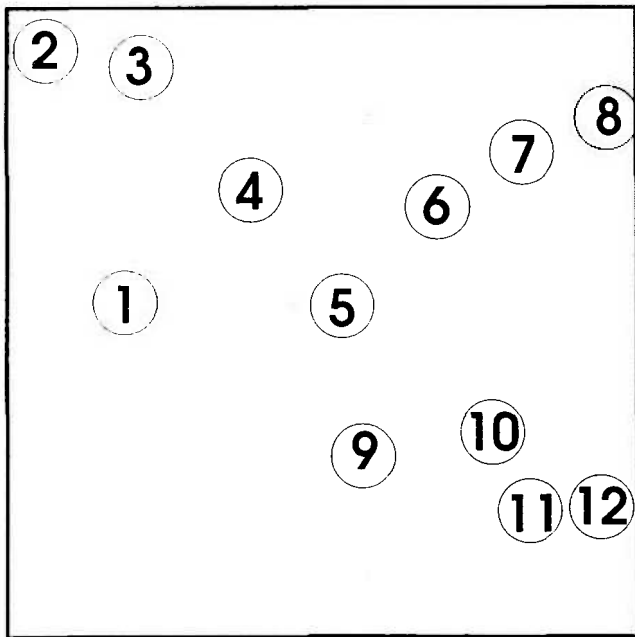
Demography field no. 4, plot E2

Nest no.	Ring no.	Sex	Nest content	Date
1	4120952	?	EGG	231291
	Ad and egg disappeared			120192
2	4120953	?	EGG ^a	231291
	4156799	?	EGG ^a	060192
3	4120954	F?	F/NB	231291
	Ad disappeared			060192
4	4120955	?	EGG	231291
	4156801	?	EGG	060192
	4127318		PULL	100292
5	Ad flew away		F/NB	231291
	Ad disappeared			060192
6	Ad flew away		F/NB	231291
	Ad disappeared			060192
7	4120956	M?	EGG	231291
	4156802	?	EGG	060192
	4127319		PULL	100292
8	4120957	M	EGG	231291
	4156803	?	EGG	060192
	4127320		PULL	100292
9	4120960	?	F/NB	231291
	Ad disappeared			060192
10	4156800	?	EGG	060192

a. Egg broken

F3

F4



E3

E4

Demography field no. 4

Plot E3

Demography field no. 4, plot E3

Nest no.	Ring no.	Sex	Nest content	Date
1	4120945	F	EGG	231291
			Nest destroyed by landslide	120192
2	Ad flew away		F/NB	231291
3	4120946 ^a	F	EGG	231291
			4156794	? EGG
	Nest destroyed by landslide			100292
4	Ad flew away	?	F/NB	231291
			4156795	? EGG
	Nest destroyed by landslide			100292
5	4120947	M?	F/NB	231291
			Ad disappeared	
6	4120948	M	EGG	231291
			4156796	? EGG
			F	100292
7	4120961 ^a	F?	F/NB	231291
			Ad disappeared	
8	4120949	?	EGG	231291
			4156932	? CHICK
	4127315		PULL	100292
9	4120958	M	F/NB	231291
			4120959	F F/NB
	Ad disappeared			060192
10	Ad flew away		F/NB	231291
			Ad disappeared	
11	4120950	F	EGG	231291
			4156797	? EGG
	4127316		PULL	100292
12	4120951	F	EGG	231291
			4156798	? EGG
	4127317		PULL	100292

^a. Bird killed by landslide between 060192 and 120192

nina
oppdrags-
melding

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