

Preliminary report of ecological study of
Highland pheasants in Nepal - March to April 1980

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Introduction

This report briefly summarizes the observations made of pheasants during:

1. The trek in the Solu Khumbu, Everest National Park, 12 - 19 March 1980, for which the Principal Investigator was Tour Leader.
2. The study of pheasants in the Tiper area of the Annapurna Himal, north of Pokhara, West-Central Nepal from 5 April - 3 May 1980.
3. The expedition to locate Sheer Pheasant Streptopelia to the west of the Tiper area and to try to find the easternmost limits of its range, 4 May - 25 May 1980.

This is not a scientific report; scientific results will, together with those of 1979, be written up fully as a thesis at the University of Warwick to be submitted for an M.Sc. degree later this year (1980). A copy of this thesis will be presented to .

11. The world pheasant association track, from 14 - 15 March, started from the airstrip at Tachik (2700m) up into the forest national park as far as Hyangboche monastery, and returned to Tachik.

Pheasants were first encountered on the trail between Tachik and Huanji Temple on 14 March. Single birds and groups of up to five Japanese Pheasant (Lophura s. japonica) were seen and heard above and below the trail between 3200m and 4000m; no females were observed. Near Huanji Temple, a covey of 6 local pheasant (Phasianus versicolor), 1 male, 1 female, were seen feeding in Birch/Betula forest at 3250m.

On 15 March no pheasants were seen on the trail up to or around the Hyangboche monastery where much unsightly rubbish was in evidence in the surrounding woodland. Returning through Birch/Betula woodland to Huanji Temple, a covey of 5 female Japanese Pheasant were seen feeding in Betula, in addition to a female Bush Warbler (Parus sibilans).

On 16 March we covered the hamlet of Hyangjima (3400m) between Huanji Temple and Huanjima, and this was clearly the best area for pheasant observations. Single male Japanese Pheasants were seen feeding in Betula woodland and scrub throughout the day. A covey of 14 Japanese Pheasants (approx. 7 males, 7 females) was also seen feeding in the same woodland. From 1600 hours onwards, Japanese Pheasants were very much in evidence feeding in the terraced fields. A total of 15 - 20 were observed until dusk, mostly feeding singly or in loose single sex groups of up to 5 birds. The relative tameness of these birds and the ease of observation was striking in contrast to their behaviour elsewhere in Nepal (Bellieott 1980) or indeed in their range (J. Watson pers. comm.). A large number of photographs were taken by members of the group.

17 March: Was going from Hyangjima through Huanjima and Huanji Temple, 3 miles

Himalayan pheasants were sighted in addition to 2 Tibetan snowcock
Tetraoallus tibetanus at 3750m.

18 March: Lucked Satyr Tragopan Tragopan satyra feathers were found at
our lunch site by the Luchosi river near landing at approx. 2600m.
The bird is thought to have been trapped by local people or porters
and indicates that this species exists close to, if not actually within
the lower limits of the Everest National Park. At Lucha in the
afternoon, 3 members of the group found 2 Kalij pheasants Lophura
leucosticta, 1 female Satyr Tragopan, and 1 Serow (Capricornis
sumatraensis) in an area of scrub close to the trail behind Lucha at
2300m. 3 Kalij pheasants were seen in the same area on the following
morning.

The trek was very successful from every point of view and 4 species
of pheasant were seen, some at very close range, in addition to
snowcock, Himalayan Satyr Caprimulgus jerdoni, mus deer, serow,
and many other species.

4. Four weeks were spent in the Niyar area (26° 25' N, 83° 57' E)
north of Pokhara continuing the study of 4 Himalayan pheasant species
started in 1973. The area has been described in Helliott (1973, 1980).
This year it was intended to execute a full habitat survey, but since
no other fieldworkers were able to join the T, this was not possible.
In the study, observations were made from hides and by direct encounter
as in 1973. Full details will be reported in the M. Sc. thesis.
The birds studied were Blood pheasant, Satyr Tragopan, Himalayan pheasant,
and Golden pheasant Lophura macrolopha. In addition, observations
were also made of common Hill partridge Arborophila torquata, Kalij
pheasant, and Snow partridge Perdix lerwa, which will be reported
briefly.

Season counts of Tragopan and Golden pheasant were made during the month of
fieldwork. In all, 1000 birds of 6 different species were

heard over an area of approx. 2.4 km² giving an average density of 2.9 pairs per square kilometre of suitable habitat (assuming monogamy). This compares with a density of 4.6 pairs over the same area on 29/82 (as 1971) suggesting a decrease in population. However, the different dates on which the surveys were carried out may account for some of the discrepancy. Other unknown factors may also be involved.

In 1972 were counted on 1 May 1972 revealing a total of 7 collared males in 2.4 km² giving a density of 2.9 pairs per square km. of suitable habitat (assuming monogamy). Again, this is down on the 1970 density (4.2 pairs) which was estimated on 21/22 May 1970.

Since this type of census is only a relative count of the number of birds in a given area, and the surveys were executed on different dates over the 2 years (but with very similar weather conditions) we should not immediately assume that the population is in decline. Instead, further surveys should be conducted in future years (if possible by local personnel) to document fluctuations. Also, further research should be undertaken, both in the field and in captivity, to determine the collared patterns of these species.

Some photography of Black-throated, Doty's, and others on all territory was carried out in addition to recording of collared movements. Incidental observations of the activity of the local people visiting the area were also made. In doing however, the villager rarely venture to this height except for shikaris (hunters, who are more interested in deer than chassants).

In regard to the setting up of a possible game reserve in the area, there are a number of factors that need to be taken into consideration:

1. The area obviously needs to be large enough to maintain a viable population of all 4 species (5 including Salig) within it. Keeping the size of each population is bound to be arbitrary, but the alternative sizes of reserves as described below should be reasonably large.

2. The "game reserve" should be situated in the basin of the river, where there is of considerable beauty and a tourist

trek. It has been proposed (Jays, 1977) that this should be designated as a 'recreation area' which would give some degree of protection to the wildlife and forests within it. There is however, very little chance of including the tiger area within such a 'recreation area' since the Annamurra Sanctuary lies 15km to the north-east and has natural boundaries - the inclusion of tiger would appear awkward.

3. Access to much of the tiger reserve will be very difficult due to the steep slopes and thick forest; all 3 alternatives suggested refer to areas of unexplored steep dense forest which would however, be beneficial to the wildlife.

4. Tiger has the advantage that it is relatively close (20 km direct - approx. 3 days walk) to Kothara, the main development point, with fairly easy access to the main camp site.

5. Presently, tiger supports good populations of 4 species of tigers in the area; it is one of the few areas known where these species occur and is a key area altitudinal range and may well be unique in this respect. The leopard is here near the western end of its range and the dhole is at the eastern limit of its range.

6. Whether the reserve is established or not, concerted effort should be made to educate the local people in conservation. If a trapping of elephants is carried out at all times of the year, emphasis should initially be placed on a closed season from April to September to allow breeding to take place undisturbed.

7. The eastern boundary of the reserve will almost certainly have to be the Kottahole (river) since there is no really practical alternative (but see Appendix alternative c) below). This means that the eastern limit of the reserve will descend to approx. 1500m, thus being in the habitat of wild boar.

Point 7. means that 5 of the 6 known species of elephants would be included within the proposed reserve. The species not included, the Asian elephant Elephas maximus is known to occur approx. 65 km to the east, or possibly closer (see section 3).

... settlements, are included in any of the alternative sizes of the proposed reserve, except for ... village, in the extreme south-eastern corner. ... settlements (...), ... cattle herds and ... throughout the ... but should in any way be discouraged since the grazing, etc. risk of disturbance at present levels bear no threat to wildlife.

The following are 3 alternative proposals for the lower rim of the suggested reserve (see also the accompanying map):

(a) Eastern limit following the ... from the ... junction (...) southwards to ... junction (...) at ... village.

Southern limit from ... junction (...) south-west to ... junction (...) at ... junction with ...

Western limit from ... junction (...) north-west to ... junction (...) at ... junction with ...

Northern limit from ... junction (...) north-east to ... junction with ...

This alternative traces in the ... of the study area of ... , ... to the east, ... to the north, and an area of ... dense forest on the east slope of the ... valley, through which the ... pass.

(b) Eastern limit as for (a).

Southern limit from ... junction (...) north-west to ... junction with the ... junction (...). North-westwards to ... junction (...) south of the ... to the ridge ... (...) south of ...

Western limit from ... junction (...) north-east, following the ... ridge over ... , ... then north-eastwards to a point at 14,000' (...) (...).

Northern limit from ... junction (...) south-east to ... junction (...) and then eastwards down upper ... junction with ... junction (...).

This alternative includes all of (a), and in addition, the eastern part of the Hupaudi hole, a small part of which (Hupaudi-Graben ridge) was visited in Oct/Nov 1970.

(c) Eastern and southern limits are the 7000' (2133m) contour from its junction with the Hupaudi hole at (503904) southwards to its junction with the Hupaudi hole at (566958).

Eastern limit from the junction of the 7000' (2133m) contour and the Hupaudi hole (503904), northwards to the Hupaudi hole and its branch to the north-east at (519971); thence northwards to the north-east of the ridge at 13500' (3963m) (587712).

Western limit from flat ridge top at (57712), northwards to the upper Hupaudi hole and then southwards down the Hupaudi hole to the 7000' (2133m) contour (503904).

This alternative includes Hupaudi, Hupaudi, and part of the Hupaudi Graben up to the southern limit. In terms of boundary identification in the field this alternative would present problems as well marked, but being the smallest area, it is certainly the most manageable.

Summary of areas of alternatives:

- (a) 24 km²
- (b) 50 km²
- (c) 11 km²

4. The position to locate the Sheer Shear at Antarctica to the east of the Hupaudi hole was based on evidence in 1970 regarding the Hupaudi valley immediately to the east, interviews with local Hupaudi, and the experiences of the Sheer Shear in 1970 in several years for Sheer in previous years. Due to the limited amount of time available, searching had to be concentrated in the Hupaudi hole and consequently no search was conducted west of the Hupaudi valley since Sheer was not believed to occur there. Instead, a trap was made east of the Hupaudi hole through the Hupaudi hole to the Hupaudi hole, rather than to the Hupaudi hole, and a trapping via

... along, ... to ... in the ... valley.
... to suitable ... habitat ... days, after which we ...
... 10 - 13 ... above ... village (near ...) in a ... where ...
... heard ... in 1977. Although the villagers of ...
... confirmed that ... occurred there, ... were seen.
On 14 ... we crossed the top of the ridge over to the ... above ...
village and at 09.15 hours we heard 4 individual ... calling
at 7300' (2250) in .../... cliffs. ...
... crossing a steep grassy slope to woodland. ... in this
... for 3 ... and heard ... calling each morning from cliffs and
woodland. In contrast to ... heard in the ...
(... 1930), which can be heard as frequently (...
in the evening as in the early morning, the birds we heard called by
little in the morning and were not heard at all during the rest of the
day. Their occurrence was very localized, with ... heard on the
... side of the hill above ..., and none on the southern side,
above ... The birds observed certainly occurred very close to ...
village, cultivated fields, etc., and were subject to considerable
human disturbance including livestock grazing, ... collection
and burning of ... of birds was not in evidence,
but in August 1977 ... of ... above ...
... via ..., ..., and
..., no ... were encountered.

On this ... (the ... there is ...
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... of the ... would ...
... of this species, which is ...
... of ... have been ...
(...), it ... to ...
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..., which is ... the best

Mick Tutton }
Graham Spaight }
Gary Robson }
Mike Barr }
Steve Whitehouse }
Toby Stark }
Greg Bughtard. }
Dave Farrow
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Mike Preston
Collin Welland
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Rickard Fairbank.