Most of the controls were ringed by Norwegian ringers locally earlier in the summer. موسيدتها الموريا وا

The majority of the waders ringed were juveniles-of the 1850 Dunlin ringed only 17 were adults. The main adult passage was very concentrated - 1000 to 2000 adults were on the beach for only 24 hours on the 22-23 July. Compared with this the juvenile passage was leisurely and extended throughout Lugust. . preliminary analysis of the Dunlin biometrics is presented below.

Mean wing length : adults 118.1 mm juvs 120.6 mm (range 112-130 mm) mean bill lengths: adults 32.7 mm juvs 32.1 mm (range 22-40 mm) (the significance of these has not been tested) Some of the juvenile birds had probably not completed growth.

Of the 17 adults, 6 were not moulting, 9 were in active moult, and 2 were in arrested moult (one of which had also arrested moult of the inner and outer secondaries).

Passage juveniles were retrapped up to 28 days after ringing, and 7 controls with Russian rings indicated the probable origin of the birds. There were weight gains of up to 2 gm/day and one juvenile weighed 70 gms.

Ringed Plover biometrics:

mean wing length : adults 132.0 mm (range 127-135 mm) sample size 11 juvs 129.0 mm (range 115-133 mm) sample size 33 The juvenile with wing length 115 mm still had down on the neck

The only species of which we caught a greater number of adults than juveniles was Purple Sandpiper. All 15 birds were adults, and 11 of them were in moult. Comparing Dunlin and Purple sandpiper moult, Purple Sandpiper had an average of 4 growing feathers among the birds in active moult (maximum 6), and Dunlin an average of 1.1 growing feathers among the birds in active moult (maximum 2). Purple Sandpiper is the only species which winters in the Varangerfjord area which probably explains the presence of adults (but not the absence of juveniles) and also the more normal rate of moult compared with the slow moult of the Dunlin.

## AGEING THE JACK SNIPE, LYMNOCRYPTES MINIMUS

وأرحمت والجارة فسجو سأأت المرادات أتأ

بالأبال فريع سيعاد والخار إنقار الأسطو فهدودها

الأشخصين والمتحد المتحد المتحد Alv Ottar Folkestad

84 individuals of the Jack Snipe caught at Ornithological Station Vigra, More & Romsdal Co., Western Norway, during autumn migration 1969-73 have been examined. Parallel to studying plumage characters, also other ageing characters have been noticed.

Remaining natal down on the oil gland feather-tuft is characteristic for juvenile waders of many species, especially during the first migration period. Of course, this character is lost rather soon and is therefore not useful for ageing throughout late autumn and winter. It has been used as a basis for controlling plumage characters. Likewise primary moult has been used as an ageing criterion for controlling plumage pattern in adults.

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· ·	- 10.	•
• •	- Juvenile	Adult
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rown-band	Black, more or less spotted brown.	Hardly with any brown
Pättern of back	Rich on contrast. Glossy green on inner web of scapulars patterned rufous brown. Outer web bright yellow.	Not so rich in contrasts. Hardly with any brown on inner web being paler than in juvenile.
le <b>rti</b> aries	Inner web greyish browh, cuter web having four less distinct oross-bars and two irregular longitudinal stripes.	Three distinct, longitudinal stripes along outer web, more or less continuing across inner web.
Rump feathers	Glossy purple black with a narrow, white edge <u>across</u> the tip.	Edged narrow white around the tip.
Middle pair of Rectrices	Pointed, exceptionally more rounded at the very tip. Black area along the feather shaft sharply pointed towards the tip, contrasting to rufous brown edges. 2-3 uncomplete cross-bars on outer web towards the middle of the feather.	Having broader and more rounded tips, though somewhat longated. The pattern being more irregular, the edges being broader and yellowish brown.
Commining Footrices	Mainly diffuse patterned greyish brown. The outer- most pair being lightest and most uniform in colour.	More rounded, darker and with more distinct pattern than in juveniles.
Primaries	Having diffuse, more or less whitish grey tips on inner six.	Sharply tipped white on the inner eight, broadest on the innermost.
Primary coverts	Narrow white edge on inner web, a square white spot on outer web of no. 7-9.	Tipped white, hardly with any differences from inner to outer web of no. 7-9.
lanks	Less markedly streaked	More markedly streaked.
egs	Yellowish grey, with or without dark spots around the intertarsal joint.	Yellowish grey.
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