

**Seabird counting during the arctic cruise of r/v "Dalnye
Zelentzy" from Murmansk to Franz Joseph Land (August 1993)
FJL'93**

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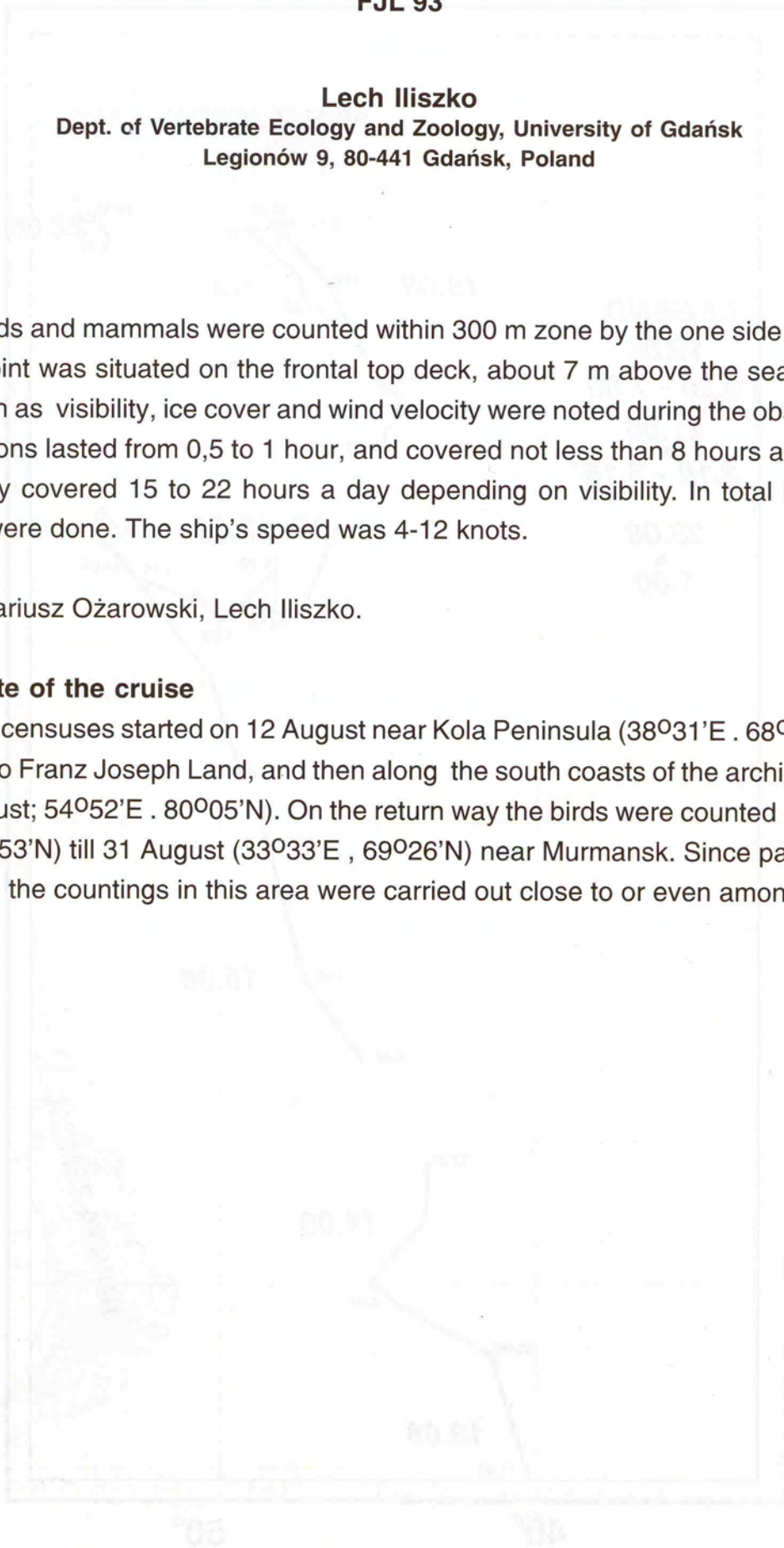
Methods

Sea birds and mammals were counted within 300 m zone by the one side of the ship. The observation point was situated on the frontal top deck, about 7 m above the sea level. Weather conditions such as visibility, ice cover and wind velocity were noted during the observations. The counting sessions lasted from 0,5 to 1 hour, and covered not less than 8 hours a day. During the back way they covered 15 to 22 hours a day depending on visibility. In total 93 hours of the observations were done. The ship's speed was 4-12 knots.

Observers: Dariusz Ożarowski, Lech Iliszko.

Time and route of the cruise

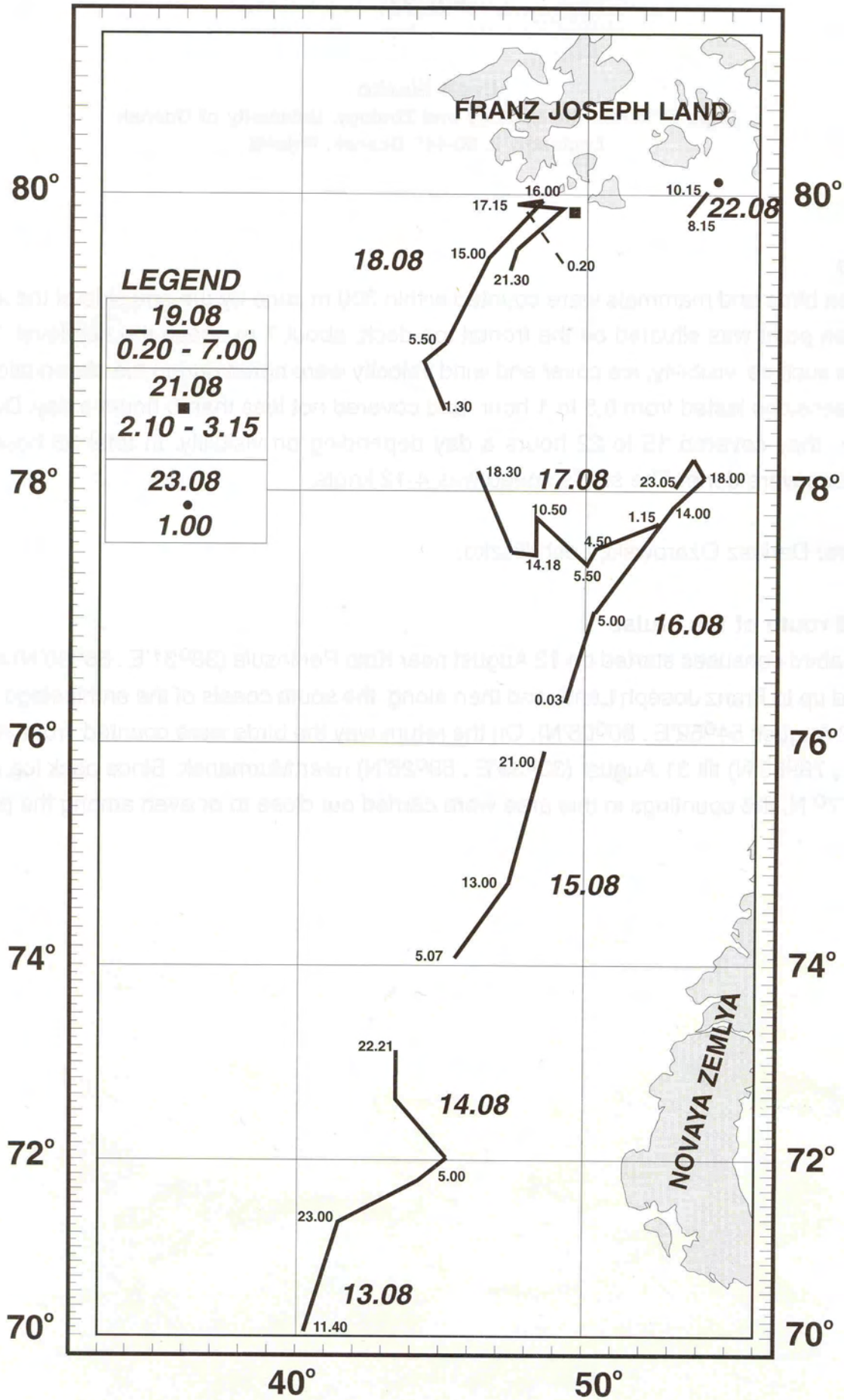
Seabird censuses started on 12 August near Kola Peninsula ($38^{\circ}31'E$. $68^{\circ}30'N$) and were conducted up to Franz Joseph Land, and then along the south coasts of the archipelago to Brady Island (22 August; $54^{\circ}52'E$. $80^{\circ}05'N$). On the return way the birds were counted from 28 August ($49^{\circ}09'E$, $78^{\circ}53'N$) till 31 August ($33^{\circ}33'E$, $69^{\circ}26'N$) near Murmansk. Since pack ice occurred north of $77^{\circ}N$, the countings in this area were carried out close to or even among the pack ice.



Route of r/v "Dalnye Zelency" during cruise from Murmansk to Franz Joseph Land 13-23.08. 1993

(birds counting area only)

40° 50°



Route of r/v "Dalnye Zelency" during cruise from Murmansk to Franz Joseph Land 28-31.08. 1993

(birds countings area only)

