

RACE/REFM Seminar

January 27, 2015, 10–11 a.m.

NMML Conference Room

Bldg 4, Rm 2039

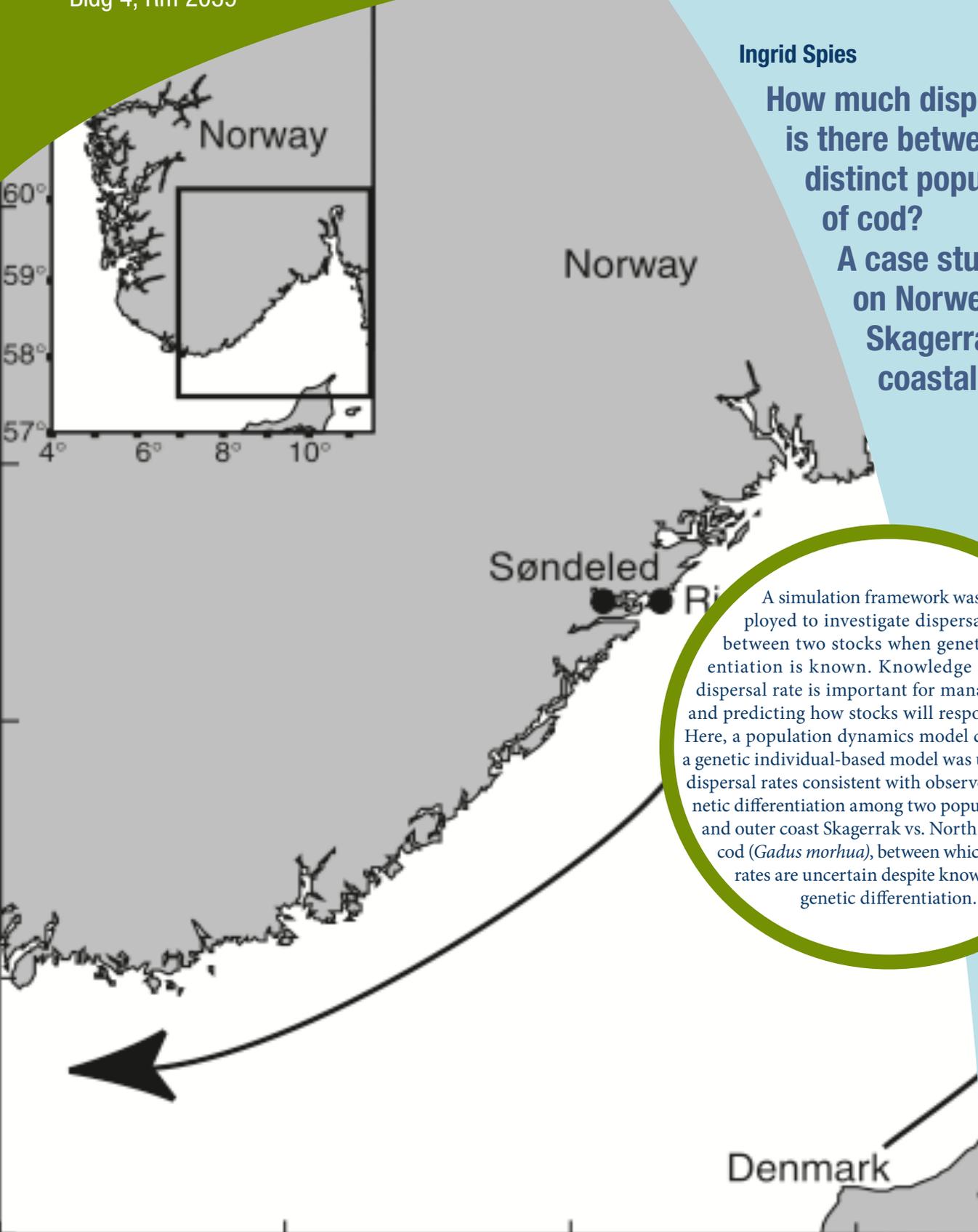


NOAA
FISHERIES

Ingrid Spies

**How much dispersal
is there between
distinct populations
of cod?**

**A case study based
on Norwegian
Skagerrak
coastal cod**



A simulation framework was employed to investigate dispersal rates between two stocks when genetic differentiation is known. Knowledge of the true dispersal rate is important for managing stocks, and predicting how stocks will respond to fishing. Here, a population dynamics model combined with a genetic individual-based model was used to explore dispersal rates consistent with observed levels of genetic differentiation among two populations; inner and outer coast Skagerrak vs. North Sea Atlantic cod (*Gadus morhua*), between which dispersal rates are uncertain despite knowledge of genetic differentiation.