Data needs for Brown Crab Assessments Dr Ewen Bell September 2017

NWWAC Brown Crab subgroup Dublin, Sept 2017

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Spatial scales



Data needed on a fine scale: Measuring local management effectiveness Vs Stock level dynamics Stock Assessment Boundaries









What are we missing?

Meaningful effort metrics.

- Pot numbers
- Soak time
- Pot type

Current growth rate.

- Have historic data
- Poor regional resolution
- Coordinated tagging program?

"Live" migration data.

- Have historic data
- Limited sex/area coverage

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Data volumes:

Catch 2016

- ~49,000 catch records per year
- ~45,000 voyages per year

Sampling (2016).

- ~34,000 crabs measured
- 313 samples
- 5 stocks
- 4 quarters
 - 20 strata
- Spread over 130 ports



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Potential data streams:

Self-sampling: Blue-tooth callipers & tablets now being tested by fishers

Grading machines:

Some investigations going on to use grading machine data in processors.

Auto-recognition

<u>cameras:</u> Under development: Low-cost camera with built in image regcognition





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