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| Parameter | Prior |
| Mean survival | φ ∼ Uniform(0,1) |
| Standard deviation survival | σφ ∼ Uniform (0.0001,1) |
| Number female fledging per pair | ρ ∼ Uniform(0,1) |
| Breeding dispersion from a colony | η ∼ Dirichlet(1,1,…,1) |
| Natal dispersion from a colony | ν ∼ Dirichlet(1,1,…,1) |
| Observation error - Method 1 | σobs,1 ∼ Uniform(0,0.15) |
| Observation error - Method 2 | σobs,2 ∼ Uniform(0,0.3) |