Snow crab fecundity data variables
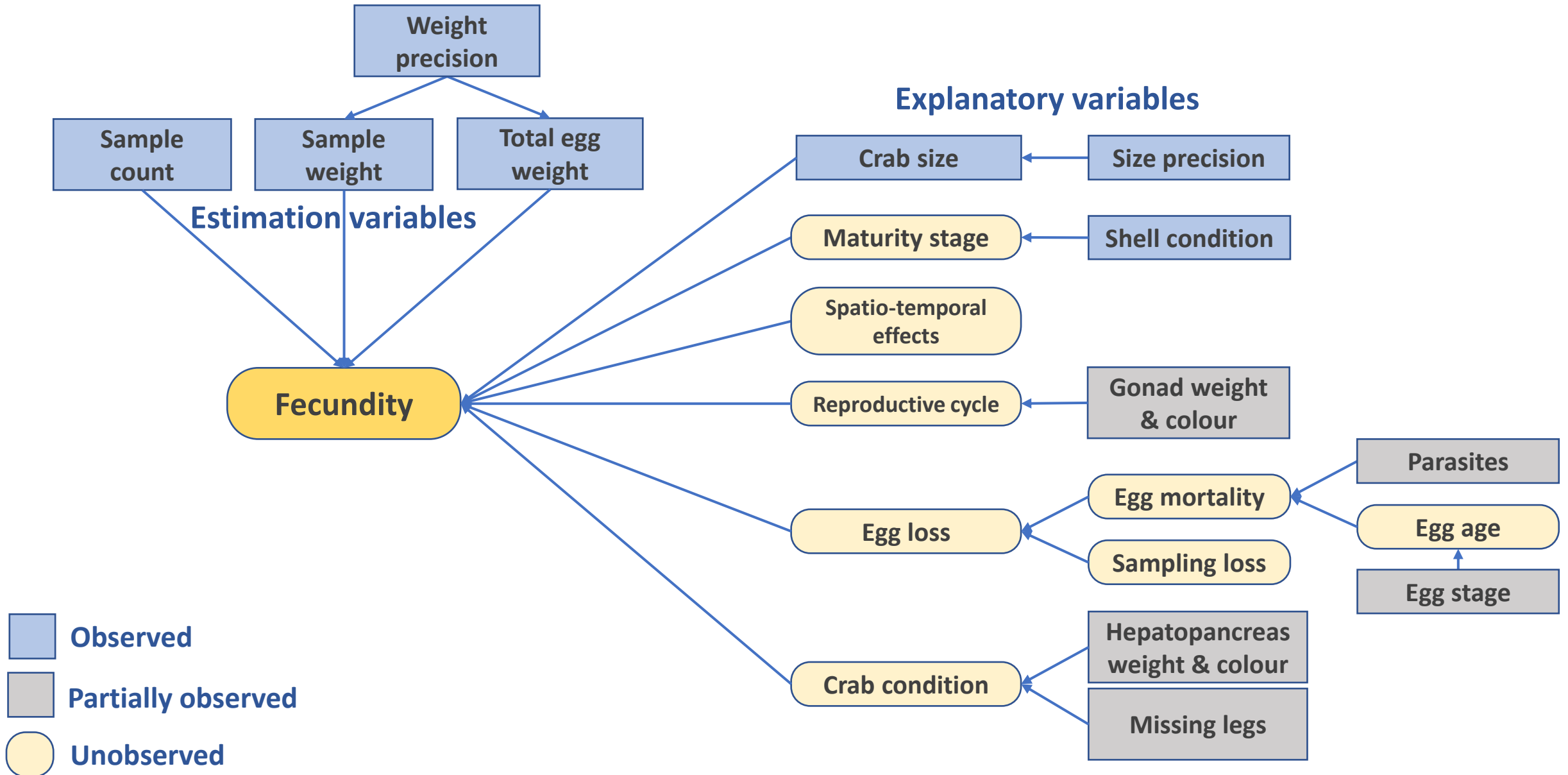

Estimation variables

- Weight precision
- Sample count
- Sample weight
- Total egg weight
- **Fecundity**

Explanatory variables

- Crab size
- Size precision
- Maturity stage
- Shell condition
- Spatio-temporal effects
- Reproductive cycle
- Gonad weight & colour
- Egg loss
- Egg mortality
- Parasites
- Sampling loss
- Egg age
- Egg stage
- Crab condition
- Hepatopancreas weight & colour
- Missing legs

Legend:
- Observed
- Partially observed
- Unobserved

Table of snow crab fecundity data variables:

Variable	Field name	Description	Units
Weight precision	weight.precision	Balance precision (e.g. +/- 0.1 mg).	g
Size precision	Size.precision	Vernier caliper precision (e.g. +/- 1 mm).	mm
Total egg weight	egg.weight.total	Weight of whole egg mass (dried and cleaned).	g
Sample weight	egg.weight.sample	Weight of sub-sample egg mass (dried and cleaned).	g
Sample count	egg.count.sample	Number of eggs in sub-sample (generally 500-1000).	
Crab size	carapace.width	Crab carapace width.	mm
Gonad weight	gonad.weight	Gonad weight (wet).	g
Shell condition	shell.condition	Carapace condition (e.g. new, medium, old).	
Missing legs	missing.legs	Missing / regenerated leg pattern (e.g. '1**2**11**').	
Gonad colour	gonad.colour	Qualitative colour or colorimeter measurement.	
Hepato weight	hepato.weight	Hepatopancreas weight (wet).	g
Hepato colour	hepato.colour	Qualitative colour or colorimter measurement.	
Parasites	parasite	Presence or absence of parasites in the egg mass.	
Egg stage	egg.stage	Egg development stage.	1-12
Fecundity	fecundity	Estimated number of eggs in total egg mass.	
Maturity stage	maturity.stage	Maturity stage (e.g. primiparous, multiparous, senile).	
Reproductive cycle		Type of reproductive cycle (1 or 2-year).	
Crab condition		Index of crab health (e.g. energy reserves).	
Egg loss		Fraction or number of eggs lost since extrusion.	
Egg age		Elapsed time since extrusion.	
Sampling loss		Fraction or number of eggs lost due to sampling.	
Egg mortality		Fraction or number of eggs lost due to mortality (e.g. due to parasites).	

Legend:
- Observed
- Partially observed
- Unobserved

Snow crab fecundity DAG (Bayesian statistical analysis):