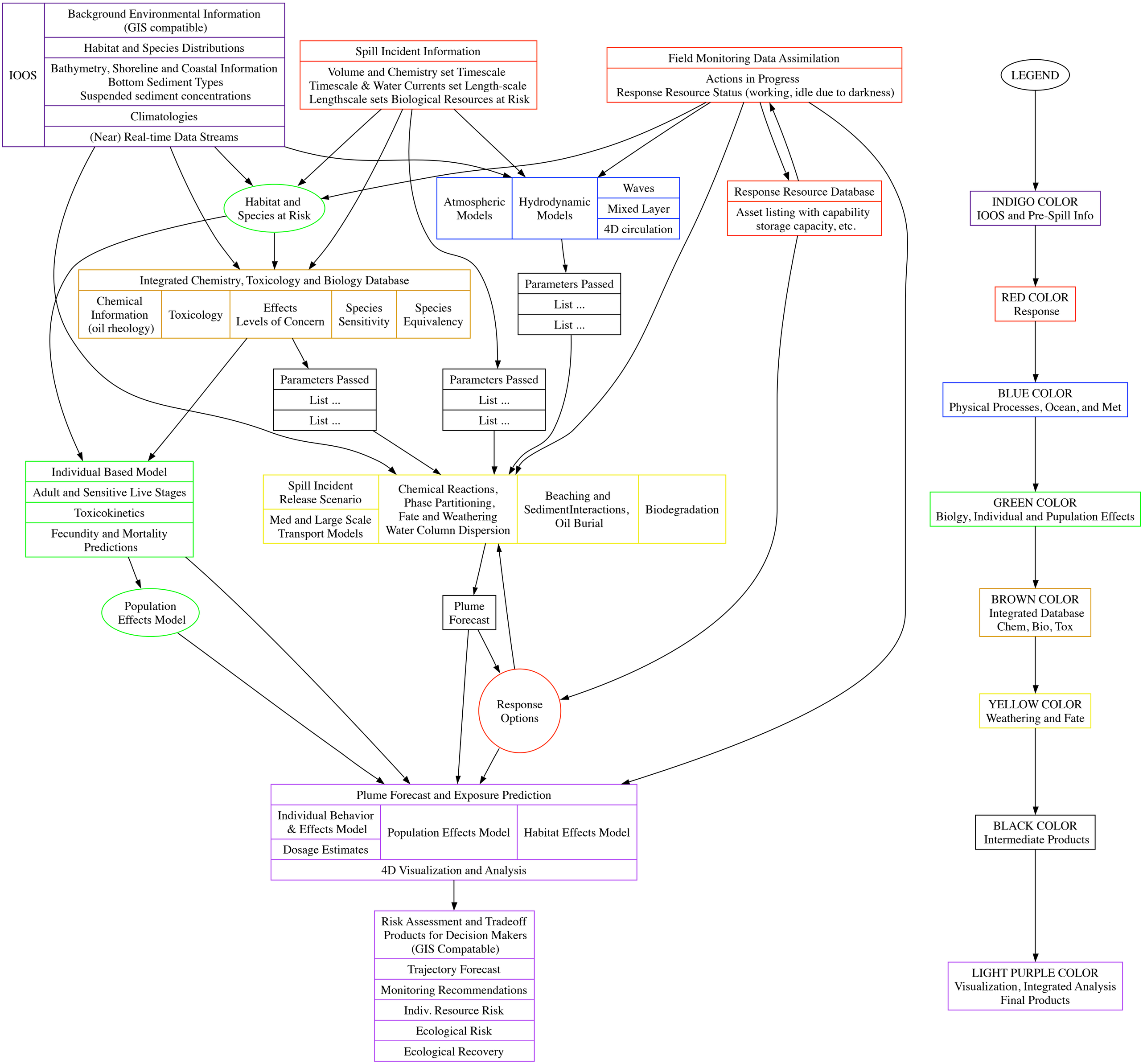
IOOS
Background Environmental Information (GIS compatible)
Habitat and Species Distributions
Bathymetry, Shoreline and Coastal Information Bottom Sediment Types Suspended sediment concentrations
Climatologies
(Near) Real-time Data Streams
Spill Incident Information
Volume and Chemistry set Timescale Timescale & Water Currents set Length-scale Lengthscale sets Biological Resources at Risk
Field Monitoring Data Assimilation
Actions in Progress Response Resource Status (working, idle due to darkness)
Habitat and Species at Risk
Atmospheric Models
Hydrodynamic Models
Waves
Mixed Layer
4D circulation
Response Resource Database
Asset listing with capability storage capacity, etc.
Integrated Chemistry, Toxicology and Biology Database
Chemical Information (oil rheology)
Toxicology
Effects Levels of Concern
Species Sensitivity
Species Equivalency
Parameters Passed
List ...
List ...
Parameters Passed
List ...
List ...
Parameters Passed
List ...
List ...
Individual Based Model
Adult and Sensitive Live Stages
Toxicokinetics
Fecundity and Mortality Predictions
Spill Incident Release Scenario
Med and Large Scale Transport Models
Chemical Reactions, Phase Partitioning, Fate and Weathering Water Column Dispersion
Beaching and SedimentInteractions, Oil Burial
Biodegradation
Population Effects Model
Plume Forecast
Response Options
Plume Forecast and Exposure Prediction
Individual Behavior & Effects Model
Dosage Estimates
Population Effects Model
Habitat Effects Model
4D Visualization and Analysis
Risk Assessment and Tradeoff Products for Decision Makers (GIS Compatable)
Trajectory Forecast
Monitoring Recommendations
Indiv. Resource Risk
Ecological Risk
Ecological Recovery
LEGEND
INDIGO COLOR IOOS and Pre-Spill Info
RED COLOR Response
BLUE COLOR Physical Processes, Ocean, and Met
GREEN COLOR Biolgy, Individual and Pupulation Effects
BROWN COLOR Integrated Database Chem, Bio, Tox
YELLOW COLOR Weathering and Fate
BLACK COLOR Intermediate Products
LIGHT PURPLE COLOR Visualization, Integrated Analysis Final Products