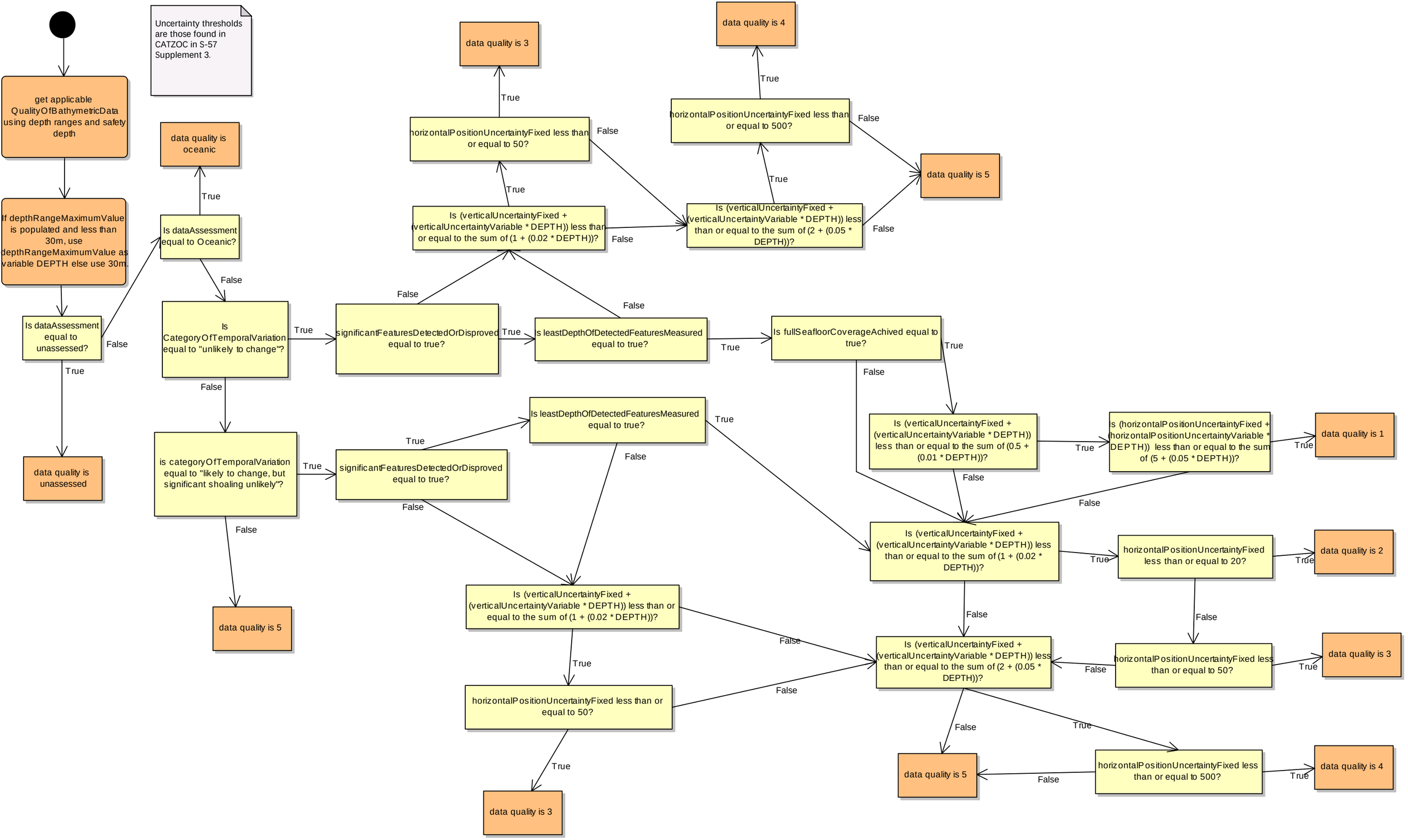
Uncertainty thresholds are those found in CATZOC in S-57 Supplement 3.
get applicable QualityOfBathymetricData using depth ranges and safety depth
If depthRangeMaximumValue is populated and less than 30m, use depthRangeMaximumValue as variable DEPTH else use 30m.
Is dataAssessment equal to unassessed?
False
True
data quality is unassessed
Is dataAssessment equal to Oceanic?
True
data quality is oceanic
False
Is CategoryOfTemporalVariation equal to "unlikely to change"?
True
significantFeaturesDetectedOrDisproved equal to true?
True
Is leastDepthOfDetectedFeaturesMeasured equal to true?
True
Is fullSeafloorCoverageAchived equal to true?
True
False
Is (verticalUncertaintyFixed + (verticalUncertaintyVariable * DEPTH)) less than or equal to the sum of (1 + (0.02 * DEPTH))?
False
True
horizontalPositionUncertaintyFixed less than or equal to 50?
False
True
data quality is 3
Is (verticalUncertaintyFixed + (verticalUncertaintyVariable * DEPTH)) less than or equal to the sum of (2 + (0.05 * DEPTH))?
False
True
horizontalPositionUncertaintyFixed less than or equal to 500?
False
True
data quality is 4
data quality is 5
False
is categoryOfTemporalVariation equal to "likely to change, but significant shoaling unlikely"?
True
significantFeaturesDetectedOrDisproved equal to true?
True
Is leastDepthOfDetectedFeaturesMeasured equal to true?
True
False
False
False
data quality is 5
Is (verticalUncertaintyFixed + (verticalUncertaintyVariable * DEPTH)) less than or equal to the sum of (1 + (0.02 * DEPTH))?
False
True
horizontalPositionUncertaintyFixed less than or equal to 50?
False
True
data quality is 3
Is (verticalUncertaintyFixed + (verticalUncertaintyVariable * DEPTH)) less than or equal to the sum of (0.5 + (0.01 * DEPTH))?
True
s (horizontalPositionUncertaintyFixed + horizontalPositionUncertaintyVariable * DEPTH)) less than or equal to the sum of (5 + (0.05 * DEPTH))?
True
data quality is 1
False
False
Is (verticalUncertaintyFixed + (verticalUncertaintyVariable * DEPTH)) less than or equal to the sum of (1 + (0.02 * DEPTH))?
True
horizontalPositionUncertaintyFixed less than or equal to 20?
True
data quality is 2
False
False
Is (verticalUncertaintyFixed + (verticalUncertaintyVariable * DEPTH)) less than or equal to the sum of (2 + (0.05 * DEPTH))?
False
horizontalPositionUncertaintyFixed less than or equal to 50?
True
data quality is 3
False
True
data quality is 5
False
horizontalPositionUncertaintyFixed less than or equal to 500?
True
data quality is 4