# \_result.xml file

The “Planner Result File” has 3 main tags. The 1st is called BOXES and is based on *all* of particles. The 2nd is called SELECTED\_PARTICLES\_ONLY and is based only on those particles that “pass the landed/adrift test” and be “seen by at least one SRU.” The 3rd main tag is called LANDED\_ADRIFT and is based only on those particles that “pass the landed/adrift test.”

Each main tag has a “main-global tag” and a tag for each SRU.

# Left-hand-side

The numbers in the top left of Figure A are from the SELECTED\_PARTICLES\_ONLY’s SRU tags and are the POS values.

The number to the left of the “Update POS” button is SELECTED\_PARTICLES\_ONLY’s main-global tag and is the POS value.

The number to the right of the “Update POS” button is SELECTED\_PARTICLES\_ONLY’s main-global tag and is the deltaPOS value.

# Upper Right-hand-side

The table of the upper right-hand-side is based on the LANDED\_ADRIFT tag.

## Yellow Line

The “yellow lines” in the top part are for SRUs; there is one yellow line for each SRU. Consider the yellow line for “SRU sru-1.” In “sru-1’s yellow line,” we have:

### Track Spacing

The track spacing comes from the solution; if a box is given, the track spacing is given there. If no box is given (as in the case of a pattern being given without a box), there is no available number.

### Area

This is simply length times width if there is a box, and undefined otherwise.

### The Conditional POS and Object Probability

Both are meaningless. Leave Conditional POS blank and simply use 100% for Object Probability.

### Joint POS

Use sru-1’s POS value. In other words, use LANDED\_ADRIFT’s sub-tag that corresponds to sru-1 and get the POS value from that.

## White Line

Staying in the top part of the right-hand-side, we now consider the white lines. These combine an SRU with a search object type.

Note that under each SRU tag, there are SEARCH\_OBJECT\_TYPE sections. Assume that we’re interested in Search Object Type “ot-a.” So our current assumption is that we are looking at SRU sru-1, and Search Object Type ot-a.

### Sweep Width

This is found in LANDED\_ADRIFT:sru-1:ot-a if sr-1 “can see” ot-a, and 0 otherwise.

### Coverage

Coverage is given in LANDED\_ADRIFT:sru-1:ot-a.

### Conditional POS and Joint POS

Both given in LANDED\_ADRIFT:sru-1:ot-a.

### Object Probability

Given as “initialProbability” in LANDED\_ADRIFT:ot-a tag. Note that this has nothing to do with SRUs, and hence I would recommend that we remove this column. These numbers appear in the lower table anyway.

## Green Line

The only entry is the sum of the areas.

# Lower Right-hand-side

The table of the lower right-hand-side is based on the LANDED\_ADRIFT main-global tag. These pertain only to the search object type.

Note that LANDED\_ADRIFT’s tag has a sub-tag for each Search Object Type.

## White Line

### Conditional POS and Joint POS

LANDED-ADRIFT:ot-a has attributes with these names. Use them.

### Object Probability

Get this from LANDED-ADRIFT:ot-a’s attribute called “initialProbability.”

### Remaining Probability

Object Probability minus Joint POS.

## Green Line

These are simply sums of the white lines.