

Malaysia Airlines MH370



March 8

March 18

Present Day



<http://www.news.com.au/world/missing-malaysia-airlines-mh370-a-media-challenge/story-fndir2ev-1226859718262>

Plane Goes Missing



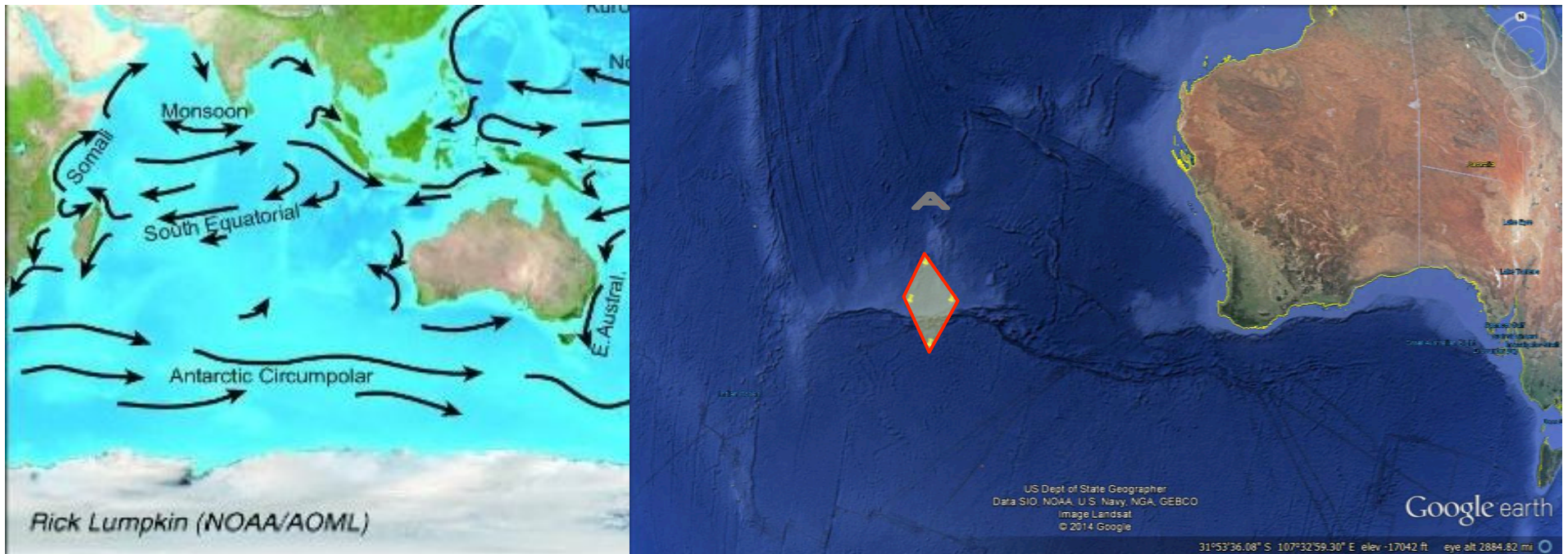
<http://cdn.wonderfulengineering.com/wp-content/uploads/2014/03/MH370-search.jpg>

Search Begins



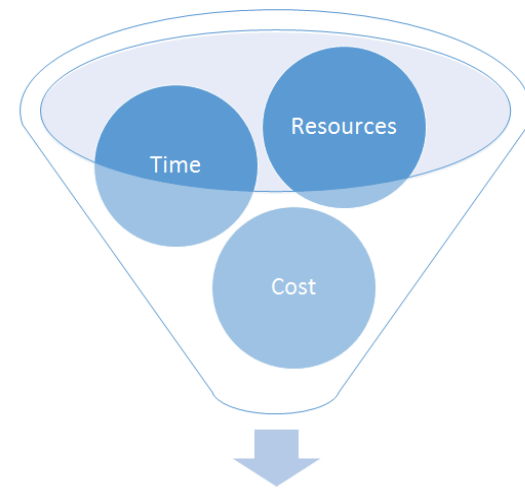
<http://thumbs.dreamstime.com/t/missing-airplane-magnifying-glass-plane-question-mark-flying-above-gps-type-land-map-magnified-depicting-42861345.jpg>

Still not found



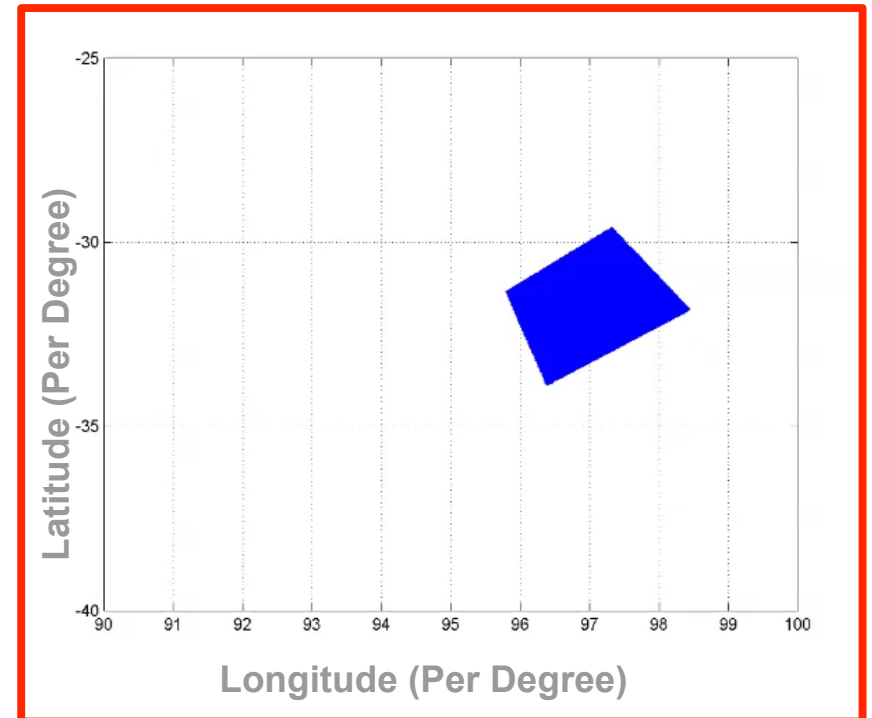
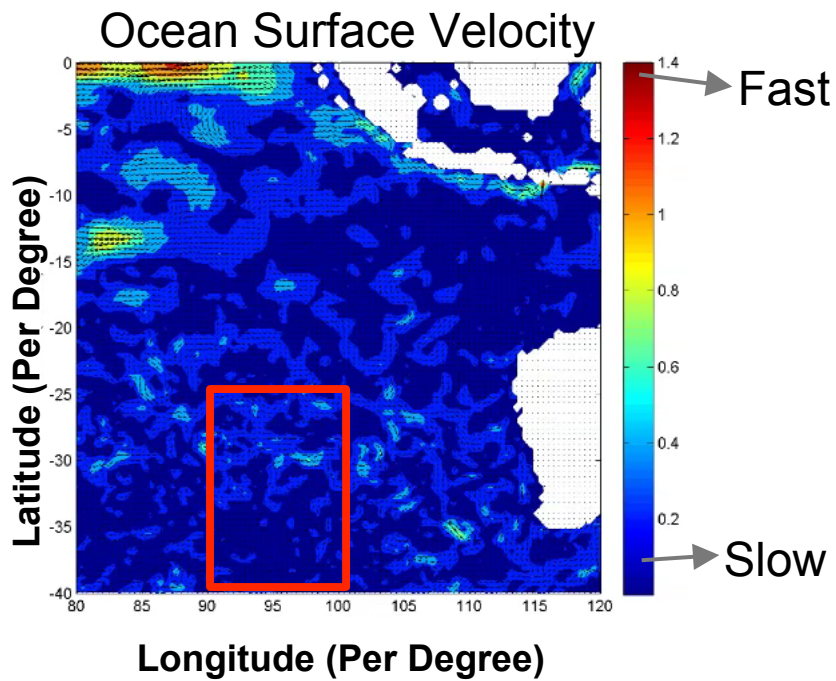
How Will Area A Be Reshaped and Relocated Over Time?

How Should We Go About
the Search?



Efficient Algorithm

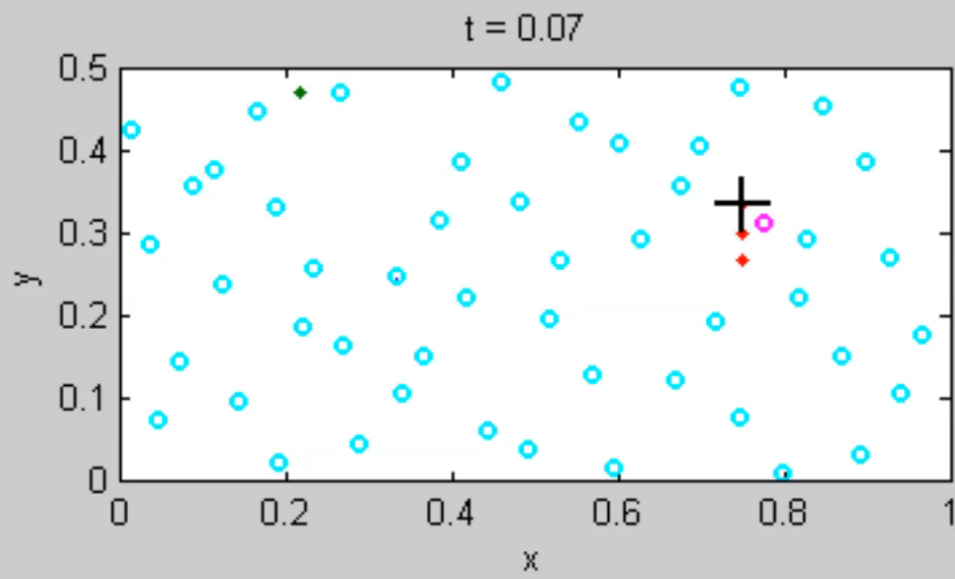
Advection, the “Drifting” Effect



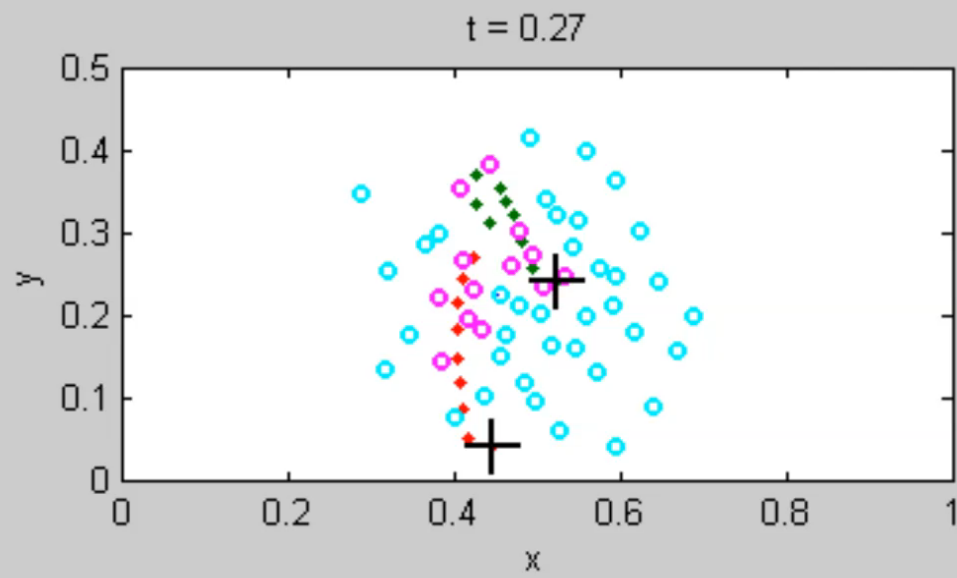
What makes a good algorithm?

1. Probability distribution
2. Coverage distribution

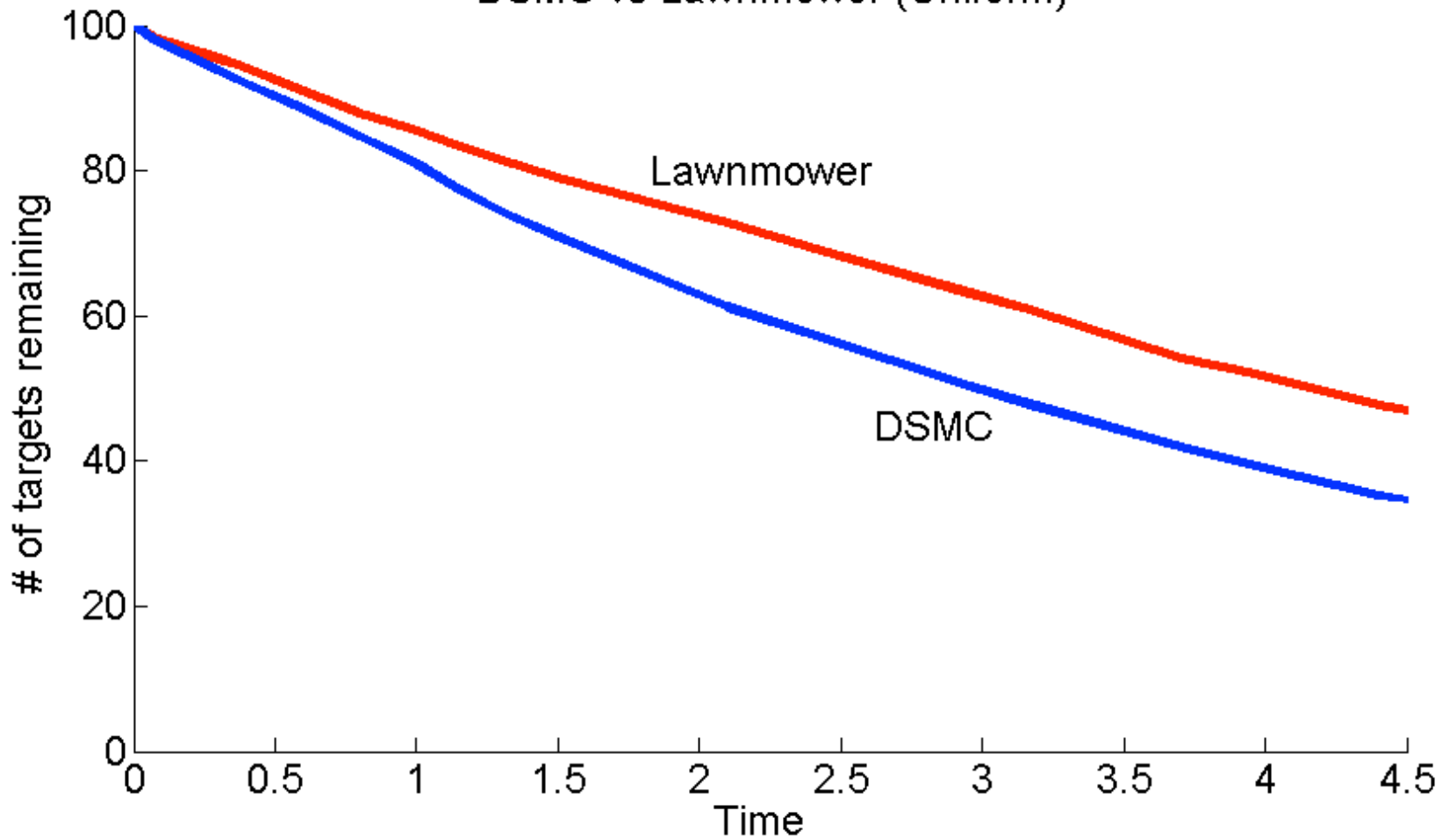
Lawnmower Method Simulation



DSMC Simulation



DSMC vs Lawnmower (Uniform)



DSMC vs Lawnmower (Gaussian)

