  

y = 3 6 9

A grey circle with blue and green squares

Description automatically generated

**Why use the same model for all 9 boxes?**

Clouds look pretty similar whether they’re at y = 3, 6, 9 or x = 0, 1, 2, though they can appear more blended farther from the center. Here’s why I stick to a single model:

* **Reduce computation time**: One model for all boxes is way faster than running 9 different models.
* **Increase training data**: Combining all the labels gives 9x the amount of training data, improving performance.
* **Accuracy trade-off**: Using multiple models might increase accuracy, but having less training data per model could decrease overall accuracy. Is it worth it?
* **Possible compromise**: I could try using two models, one for the center boxes and another for the top/flipped bottom boxes.

Big waves misidentified as clouds:

I added Dallin’s labeling for orbit 1 to the training dataset, giving it a higher weight by keeping ¼ of the clear images instead of 1/20. Misclassification has decreased quite a bit, but it’s still a bit high. Left is the new, right is the old (orbit 1, frame 310). I’ll add more labels and try some different approaches to see if we can improve it. The goal is to avoid misclassifying these nice waves as clouds, while also not missing big clouds.

