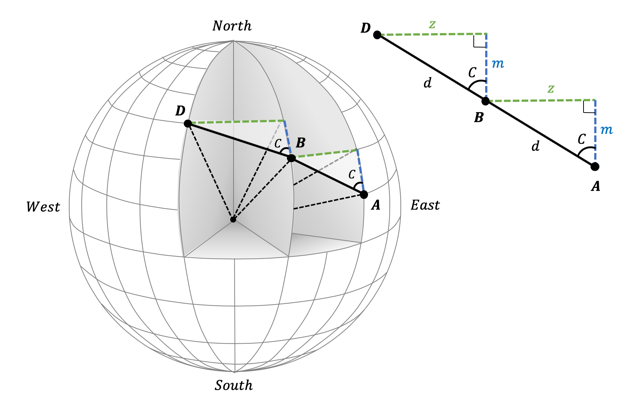
**3.1 Worksheet**: **Hindcasting**

In the following exercise, students will use their knowledge and resources from modules 1 and 2 of the lesson to forecast where a specified buoy (ID: 300234061872720) will drift over a day in the past (hence hindcasting) given two known locations of the buoy. Shown in the figure below, students will use their forecast to estimate location D based off of given locations A and B.

|  |  |  |
| --- | --- | --- |
| Day of Forecast | (Latitude, Longitude) | Student(s) Assigned |
| 350 | A: ()  B: () |  |
| 352 | A: ()  B: () |  |
| 354 | A: ()  B: () |  |
| 356 | A: ()  B: () |  |
| 358 | A: ()  B: () |  |
| 360 | A: ()  B: () |  |
| 362 | A: ()  B: () |  |
| 364 | A: ()  B: () |  |
| 1 | A: ()  B: () |  |



Assign at least one student to each forecast task below. Coordinates at locations A and B are provided. Each student will calculate the coordinates of location D, the location of the buoy on the listed day of forecast (locations A and B are reached two days and one day before location D, respectively.