

Marine acquisition mask (simultaneous long offset)

Acquisition information

Acquire multi-azimuth data on 12 x 12 km model grid

Simultaneous long offset (SLO) acquisition simulated on the BG Compass model

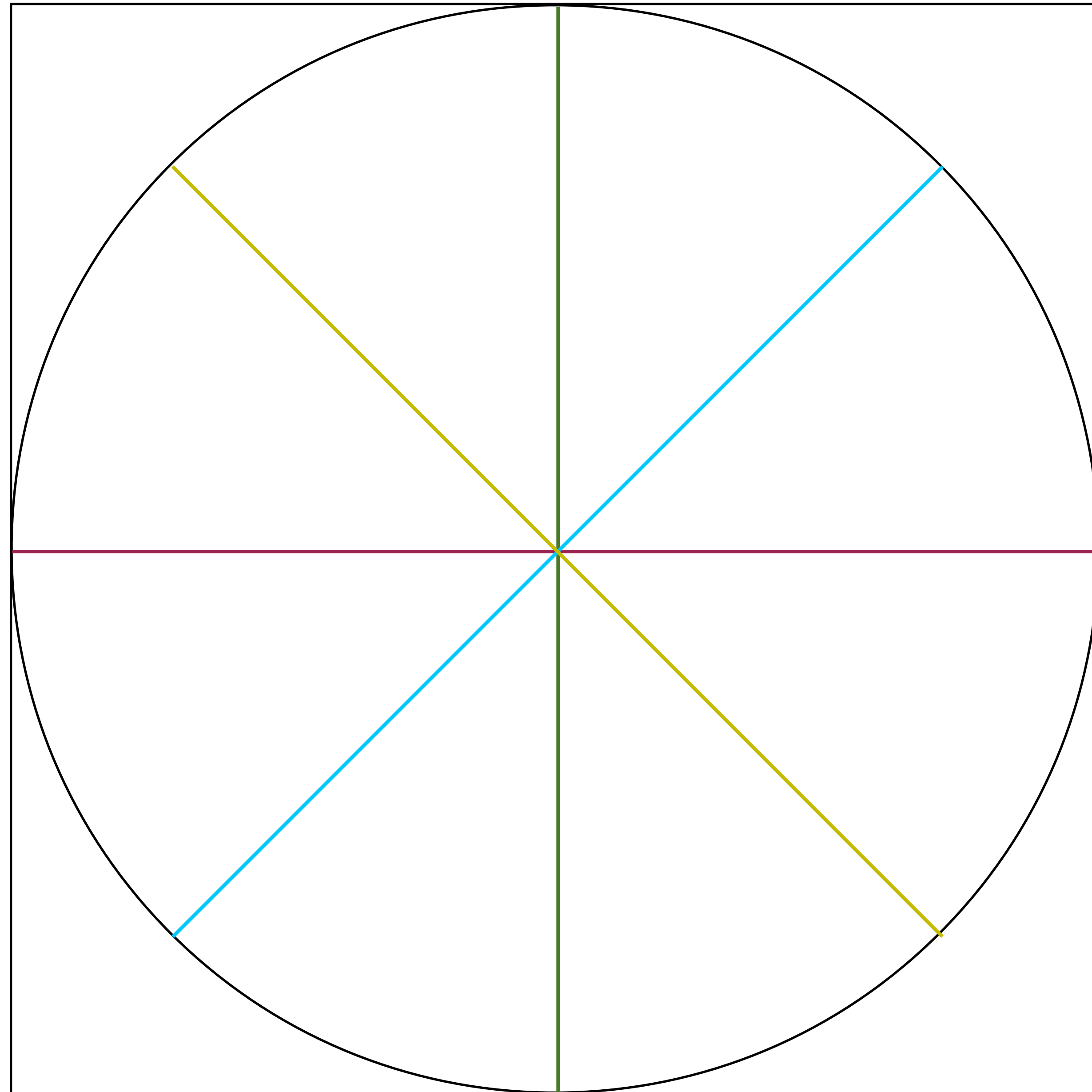
- distance between two source vessels: 4 km
- streamer length: 4 km
- number of streamers: 12
- distance between each streamer: 100 m
- receiver sampling (within each streamer): 25 m
- dual-source array fires at 25 m flip-flop jittered locations
- number of azimuths: 8 => (0, 45, 90, 135, 180, 225, 270, 325) degree
- source vessels move in forward and reverse directions (see schematic on next slide)
- sail-line interval: 200 m along any azimuthal direction

30% of total (conventional) data volume acquired is used to perform source separation and interpolation

8 km

8 km

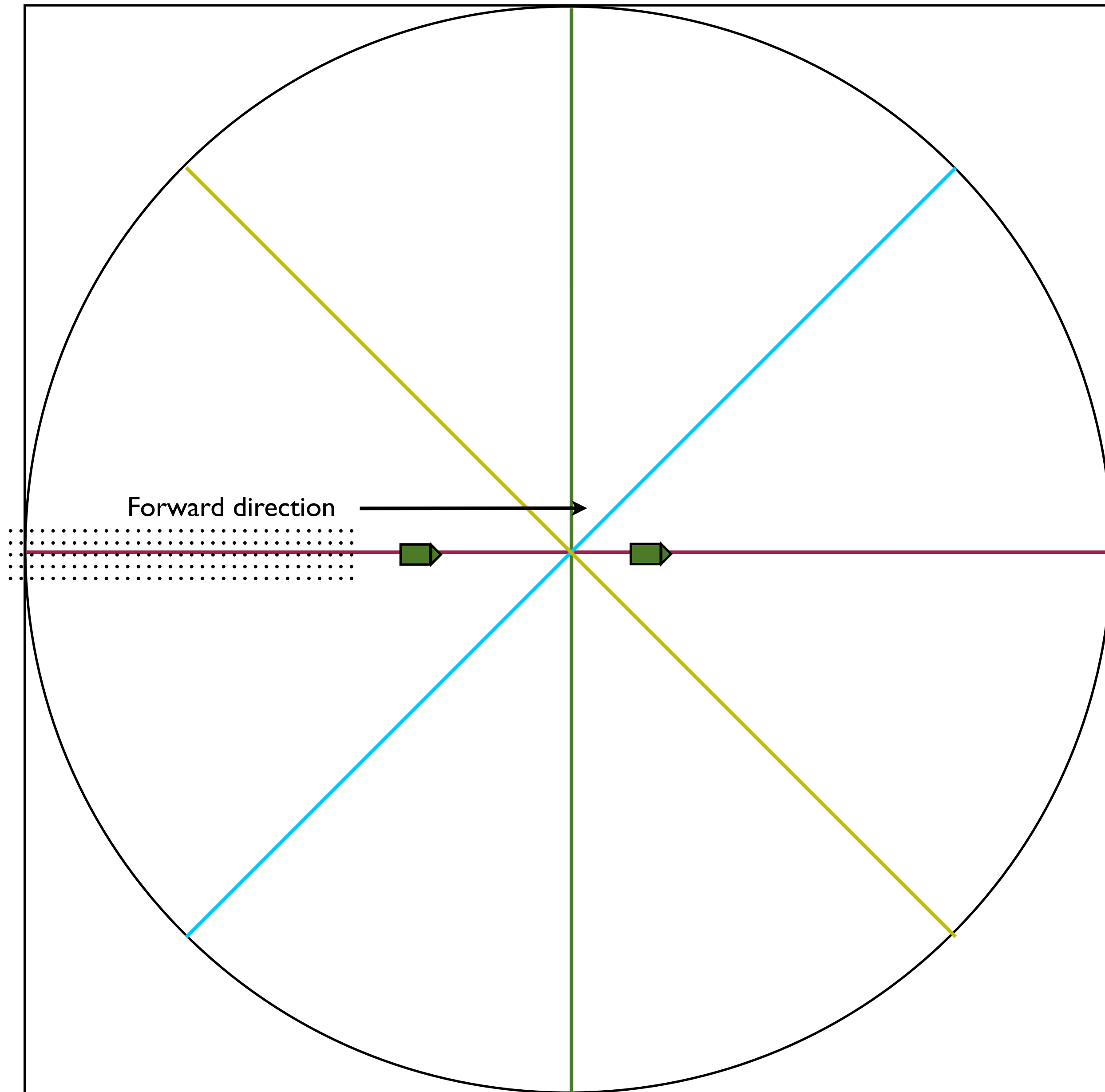
Forward-Reverse Acquisition



8 km

8 km

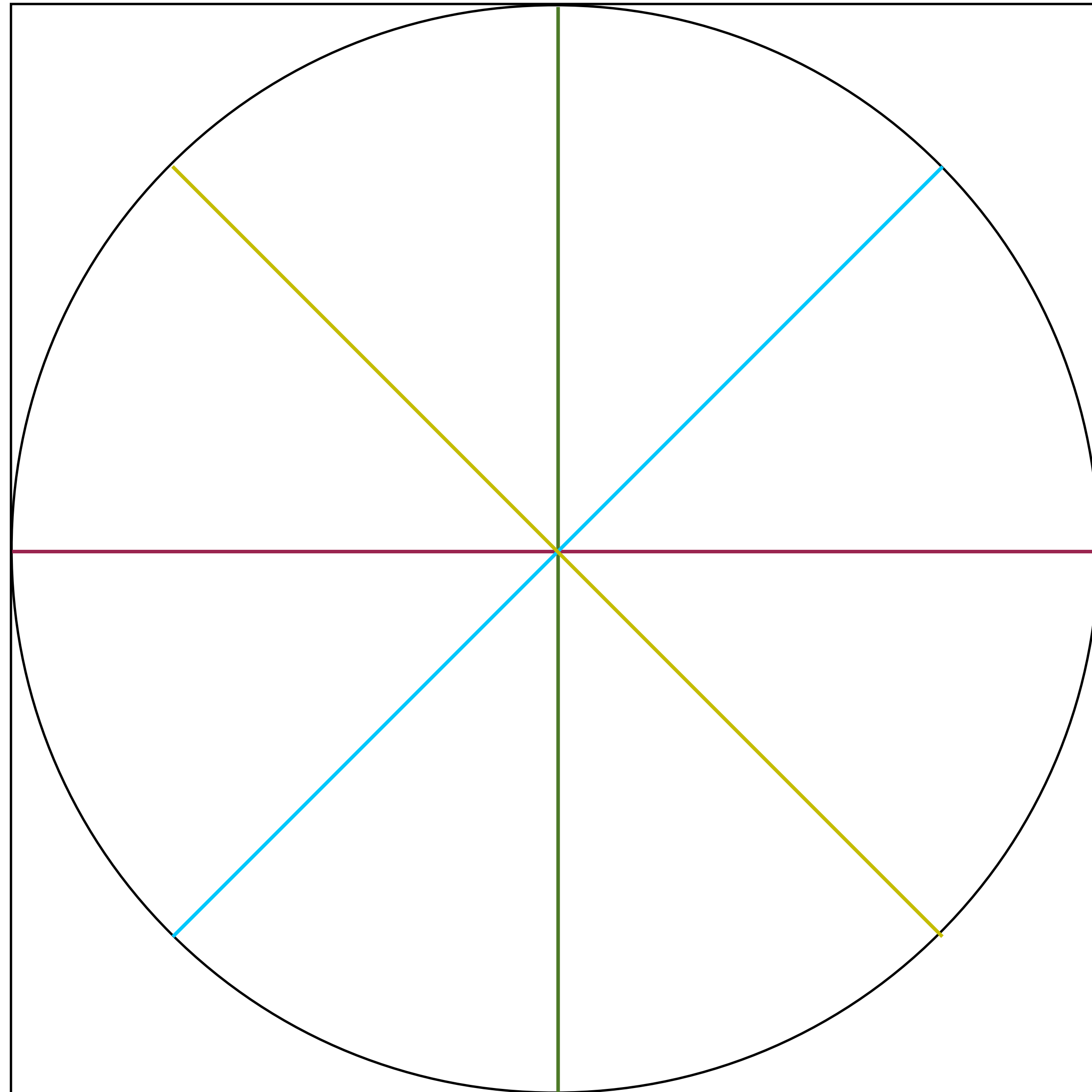
Forward-Reverse Acquisition



8 km

8 km

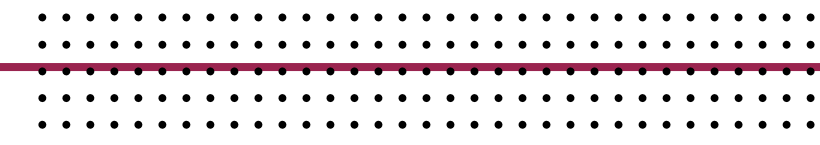
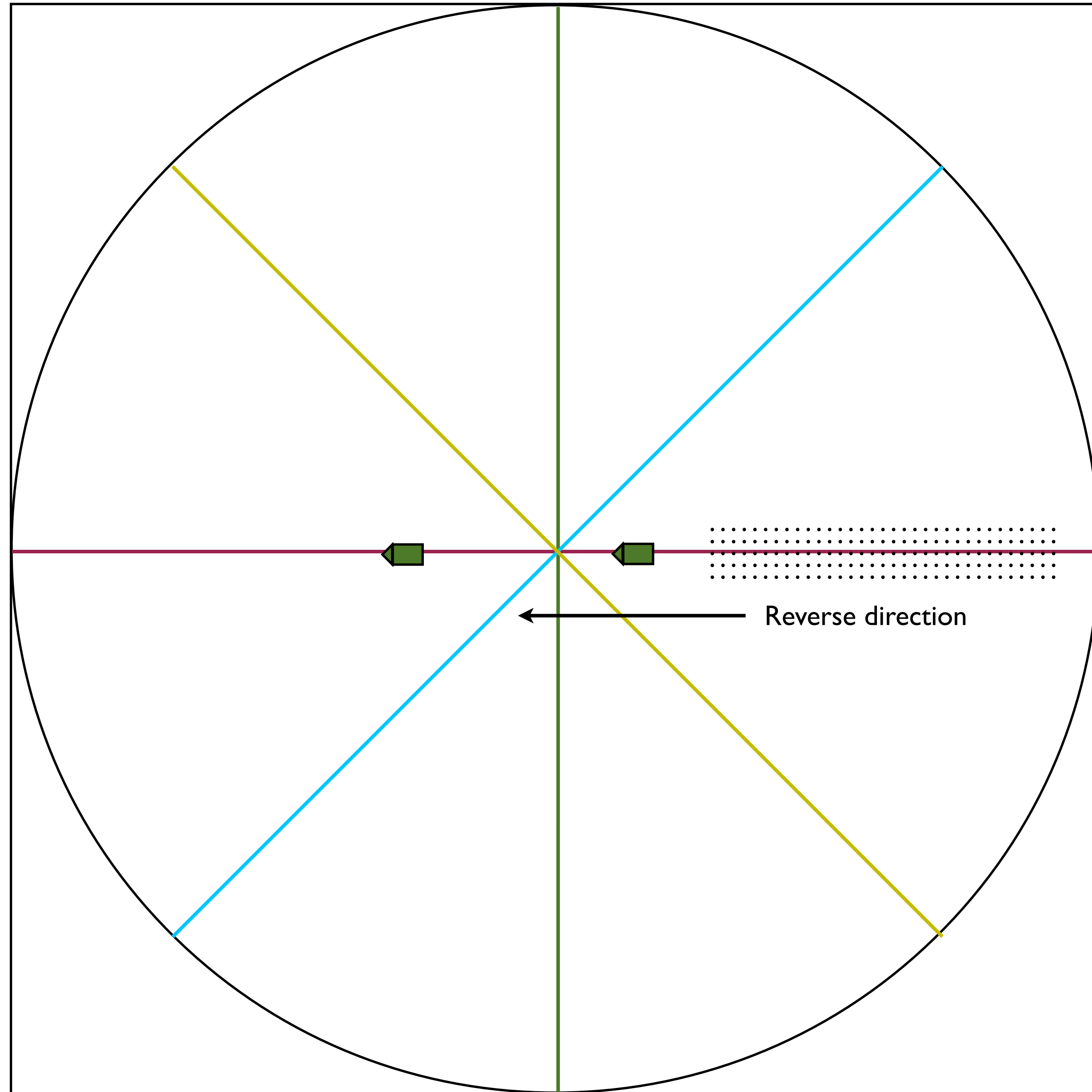
Forward-Reverse Acquisition



8 km

8 km

Forward-Reverse Acquisition

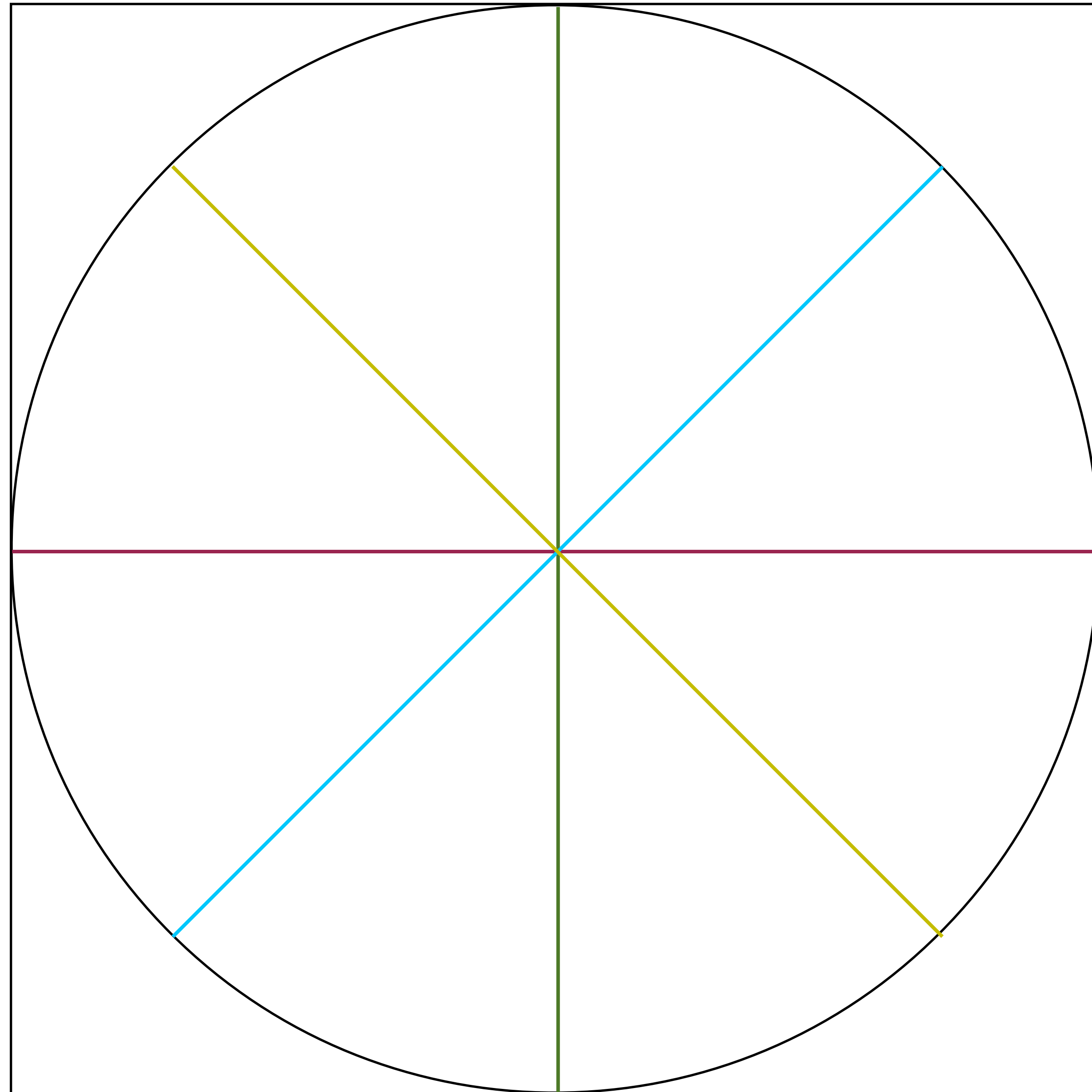


Reverse direction

8 km

8 km

Forward-Reverse Acquisition

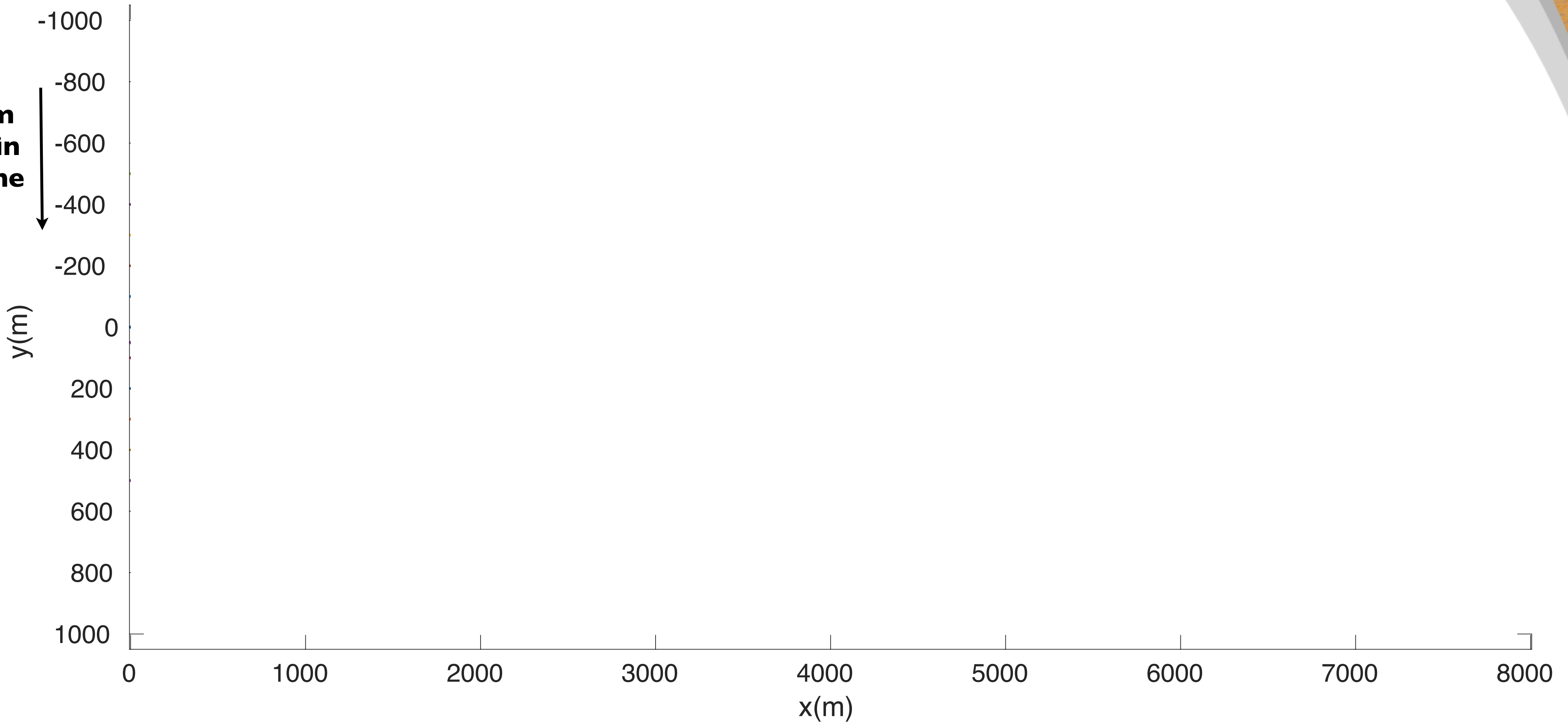


Source trajectory : 0 degree azimuth

Forward direction 

12 km 

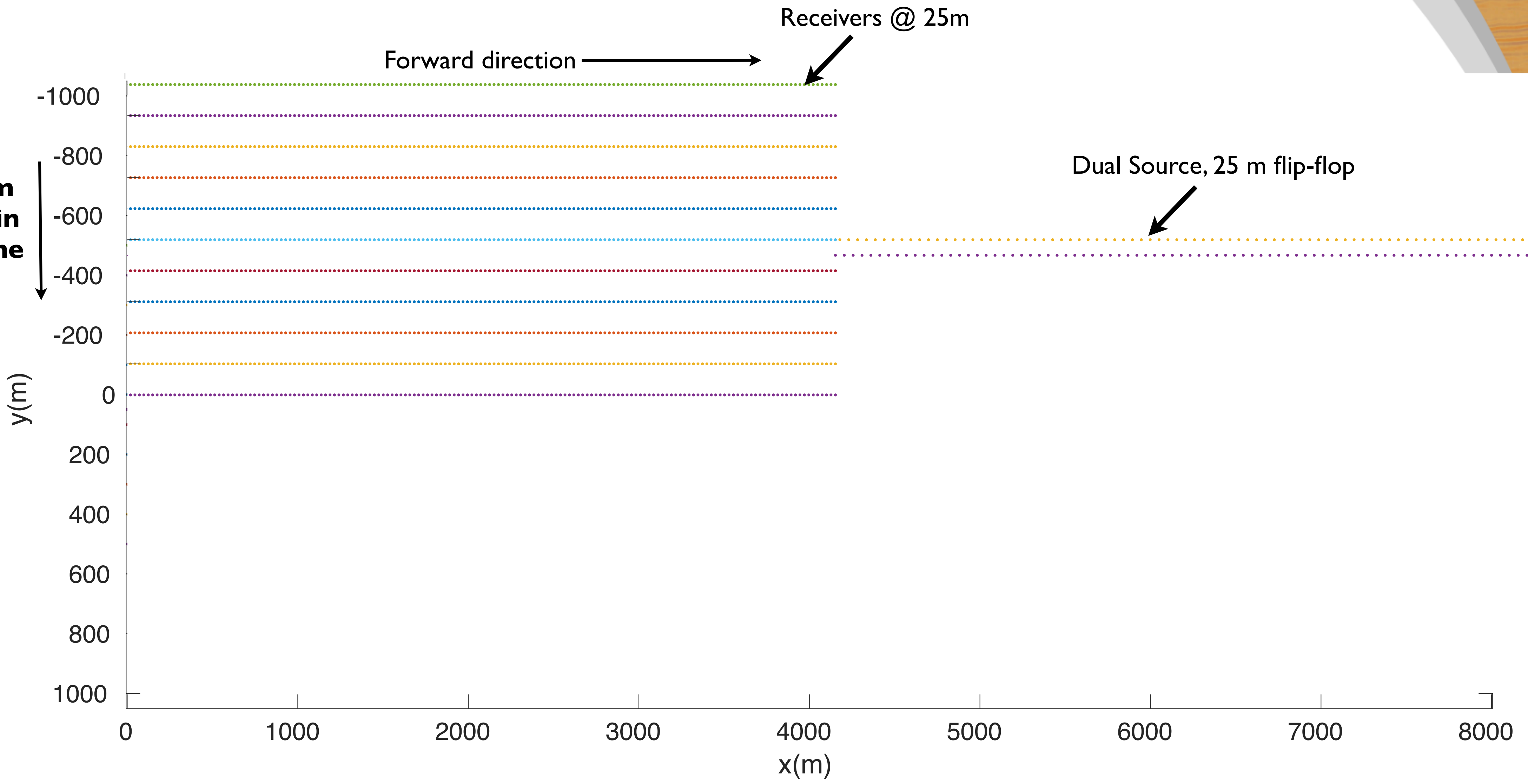
200 m
shift in
sail line 



Source trajectory : 0 degree azimuth

12 km

200 m
shift in
sail line

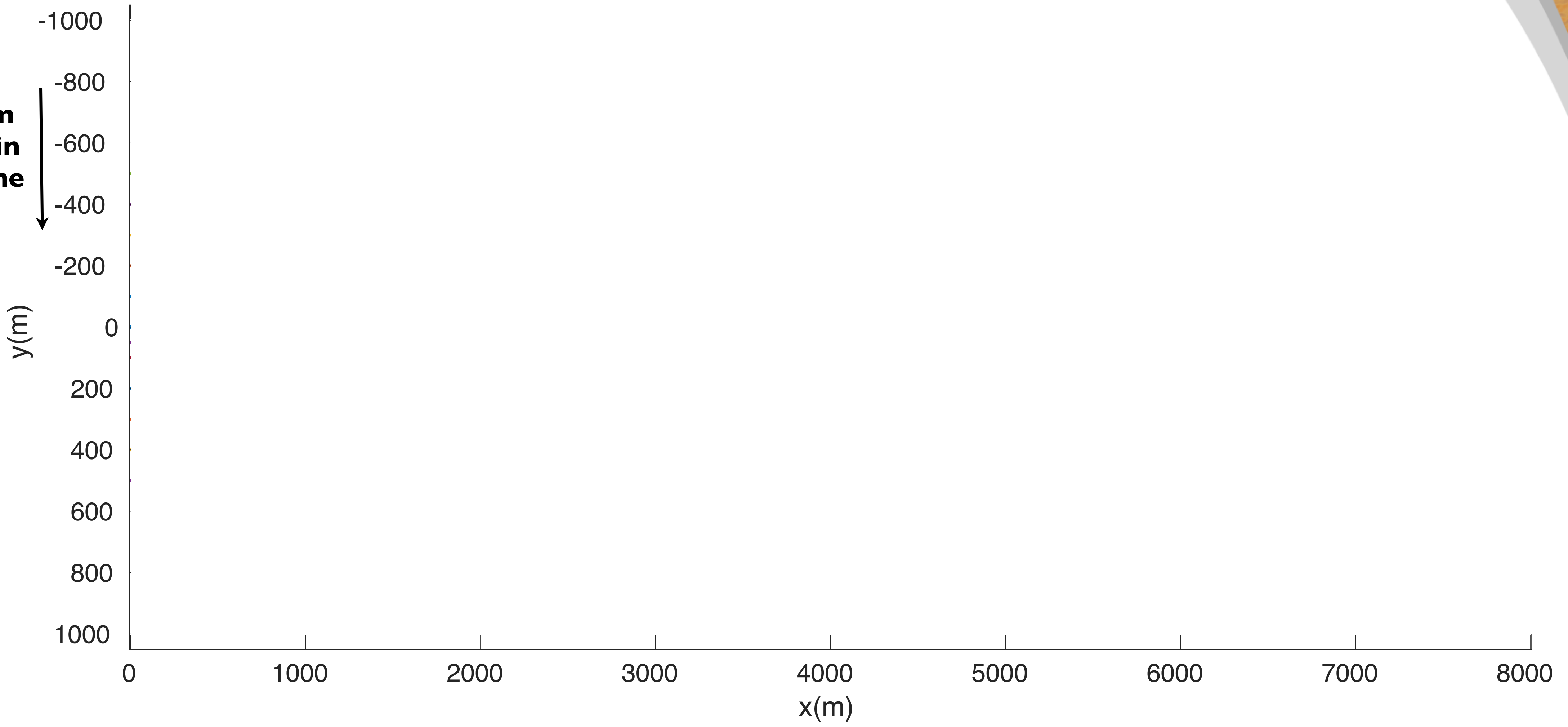


Source trajectory : 0 degree azimuth

Forward direction 

12 km 

200 m
shift in
sail line 

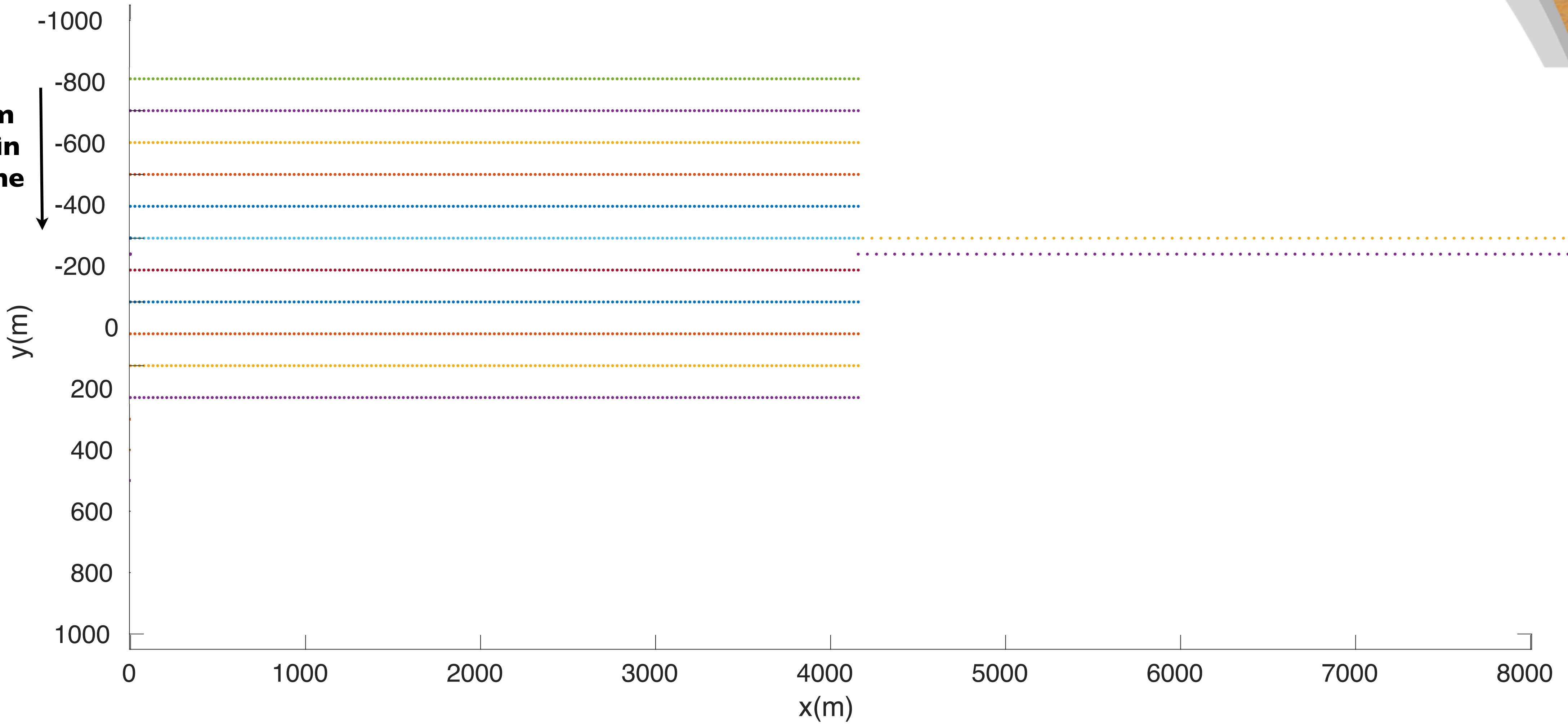


Source trajectory : 0 degree azimuth

12 km

200 m
shift in
sail line

Forward direction 

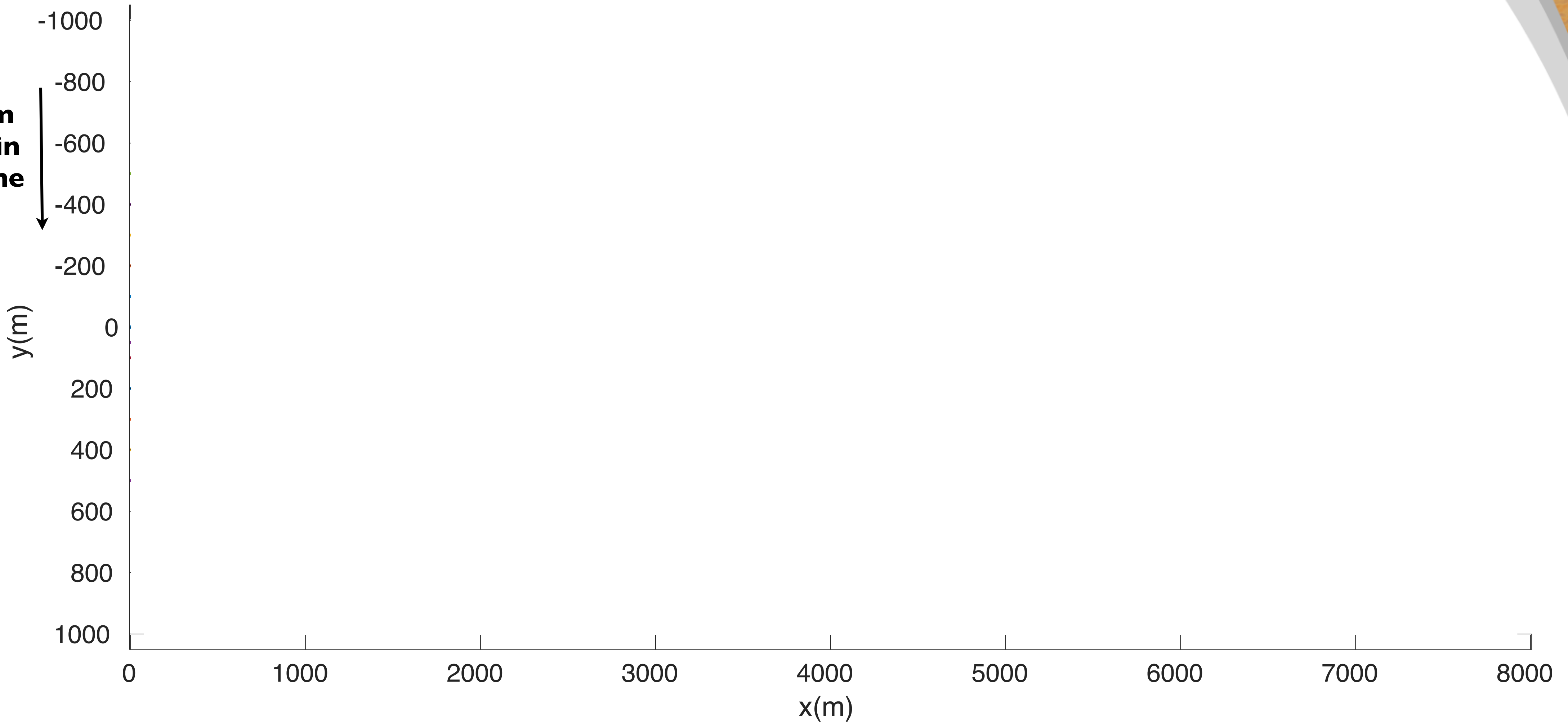


Source trajectory : 0 degree azimuth

Forward direction 

12 km 

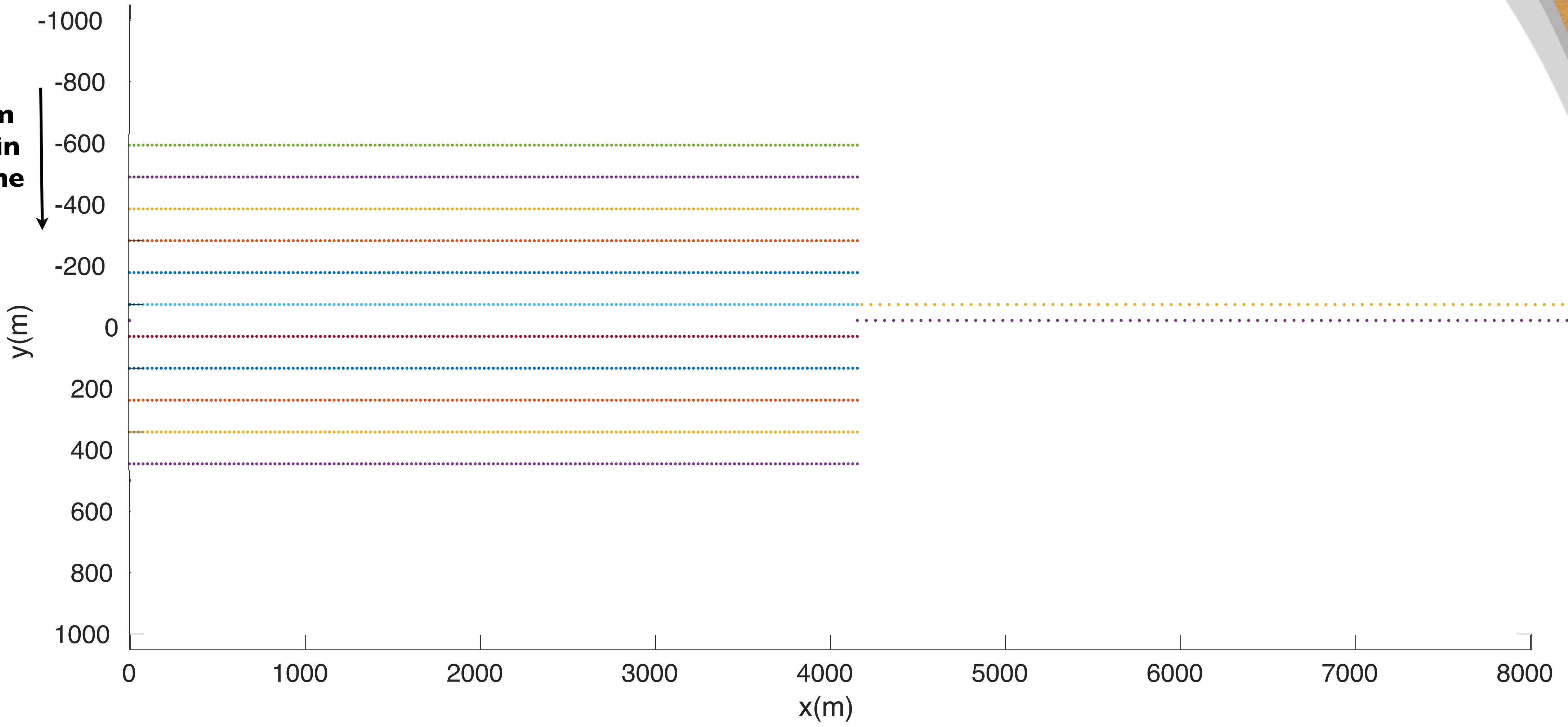


200 m
shift in
sail line 



Source trajectory : 0 degree azimuth

Forward direction 

12 km
200 m
shift in
sail line

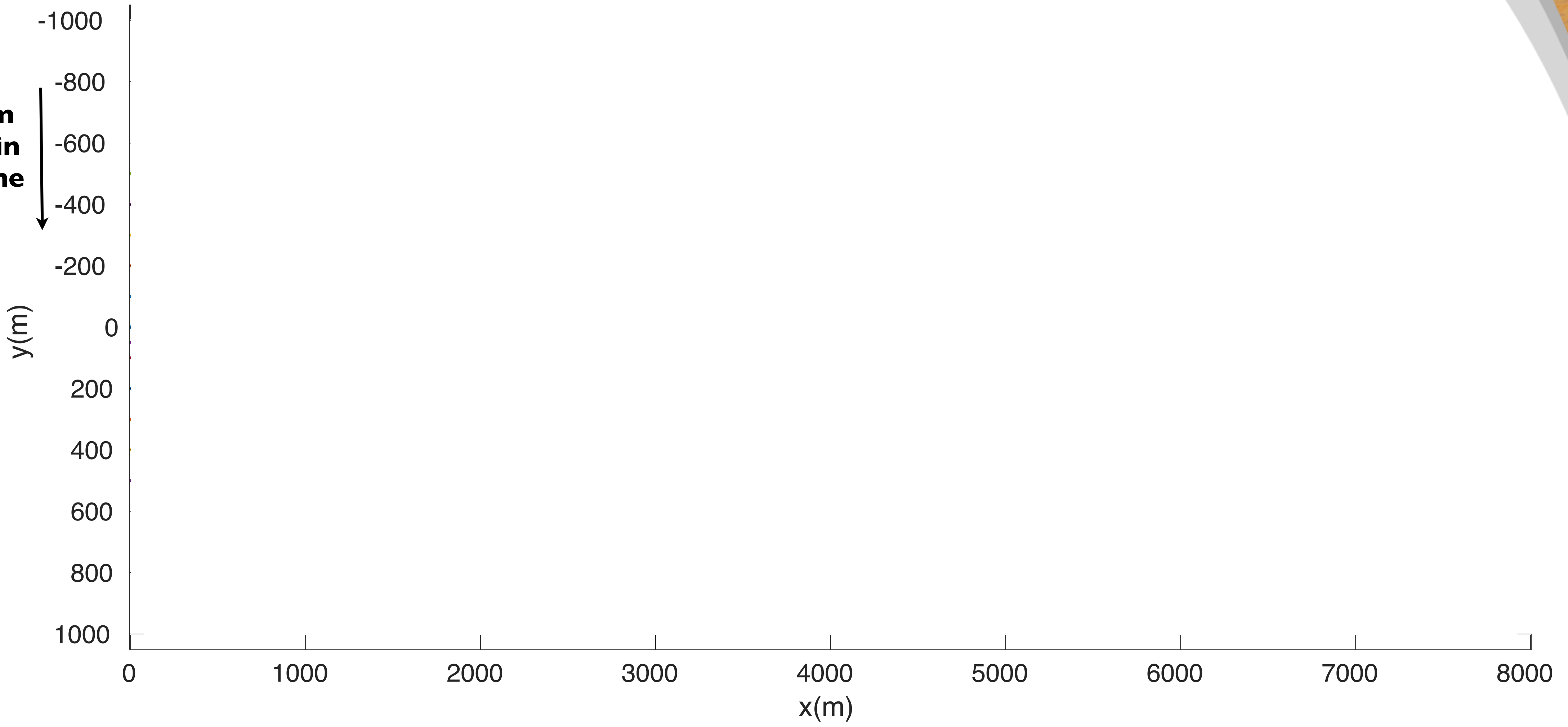


Source trajectory : 0 degree azimuth

Forward direction 

12 km 


200 m
shift in
sail line 



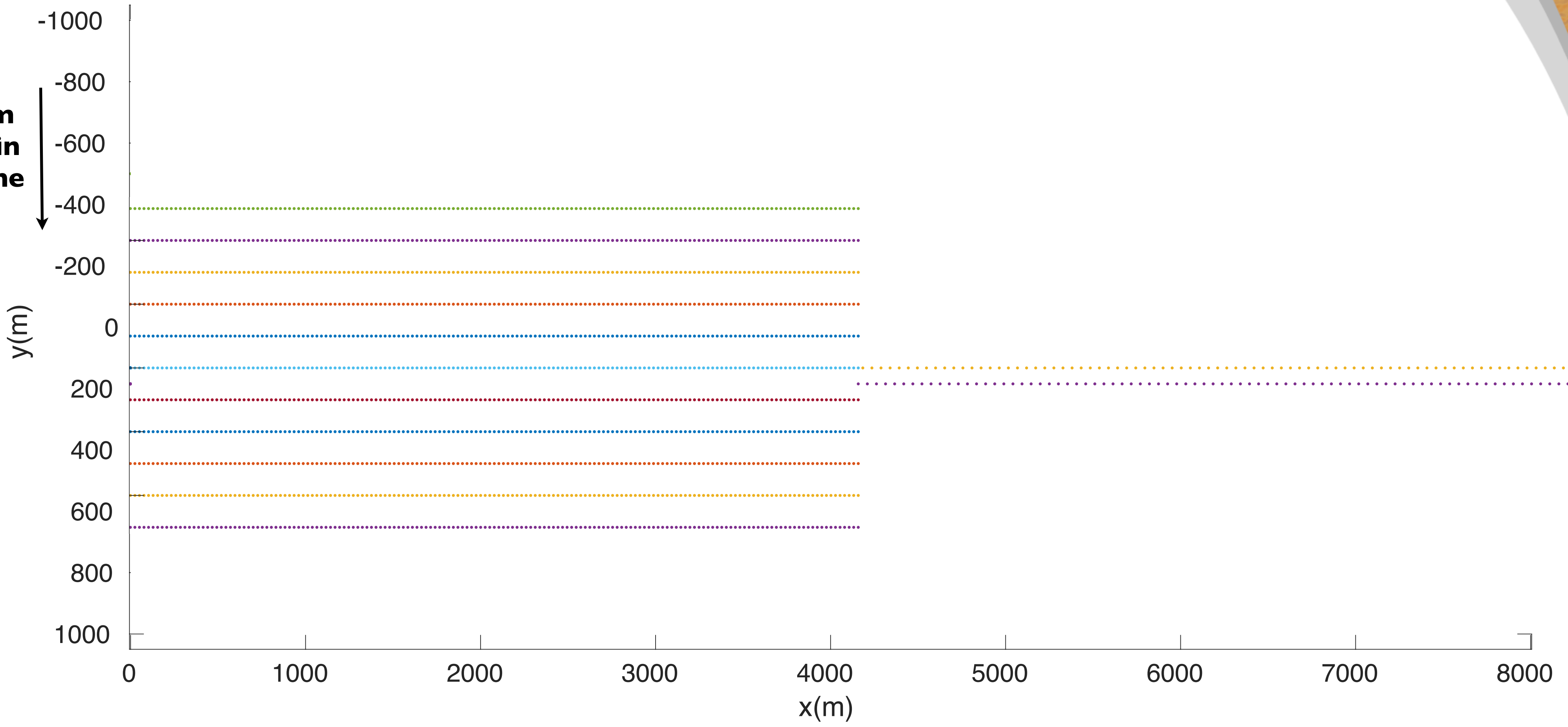

Source trajectory : 0 degree azimuth

Forward direction 

12 km



200 m shift in sail line

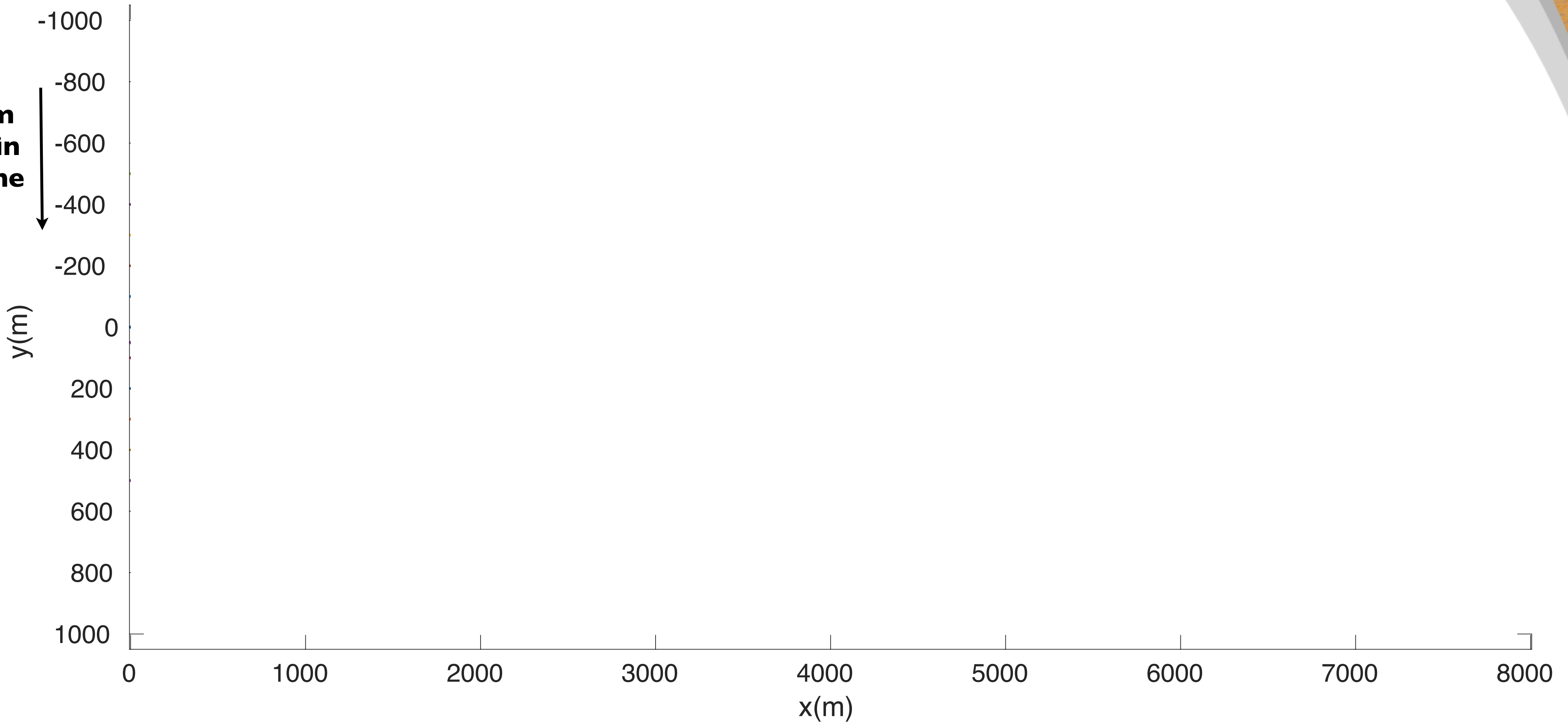


Source trajectory : 0 degree azimuth

Forward direction 

12 km 


200 m
shift in
sail line 



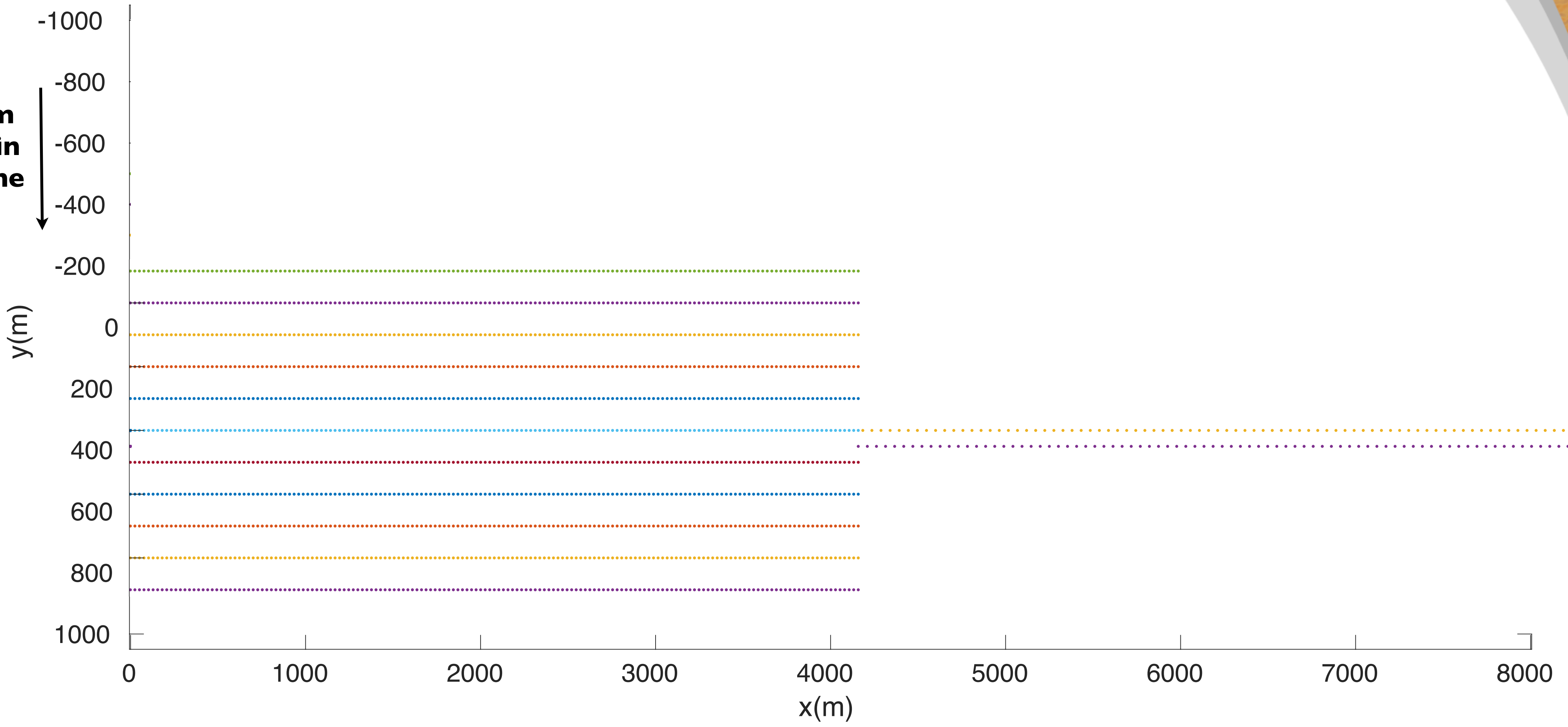

Source trajectory : 0 degree azimuth

Forward direction 

12 km



200 m shift in sail line

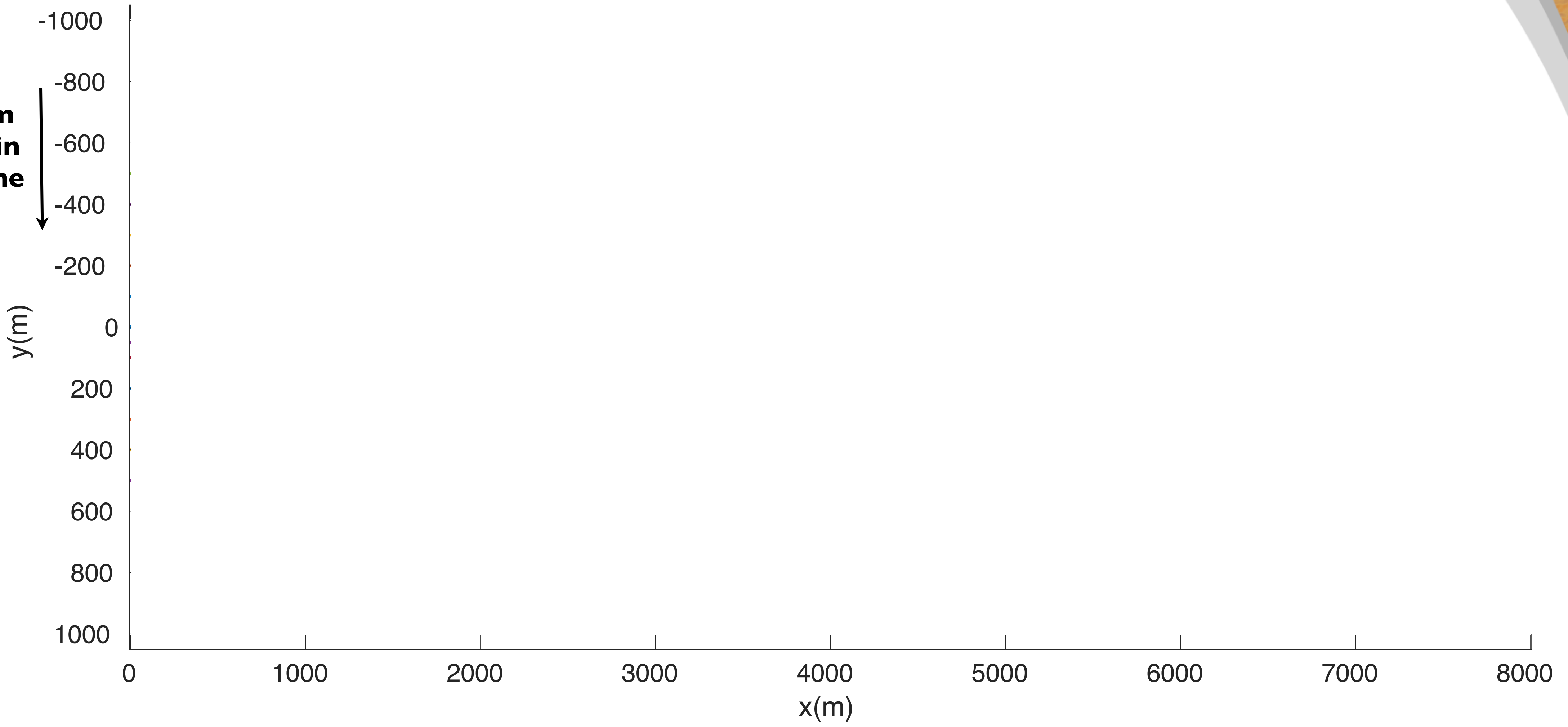


Source trajectory : 0 degree azimuth

Forward direction 

12 km 

200 m
shift in
sail line 

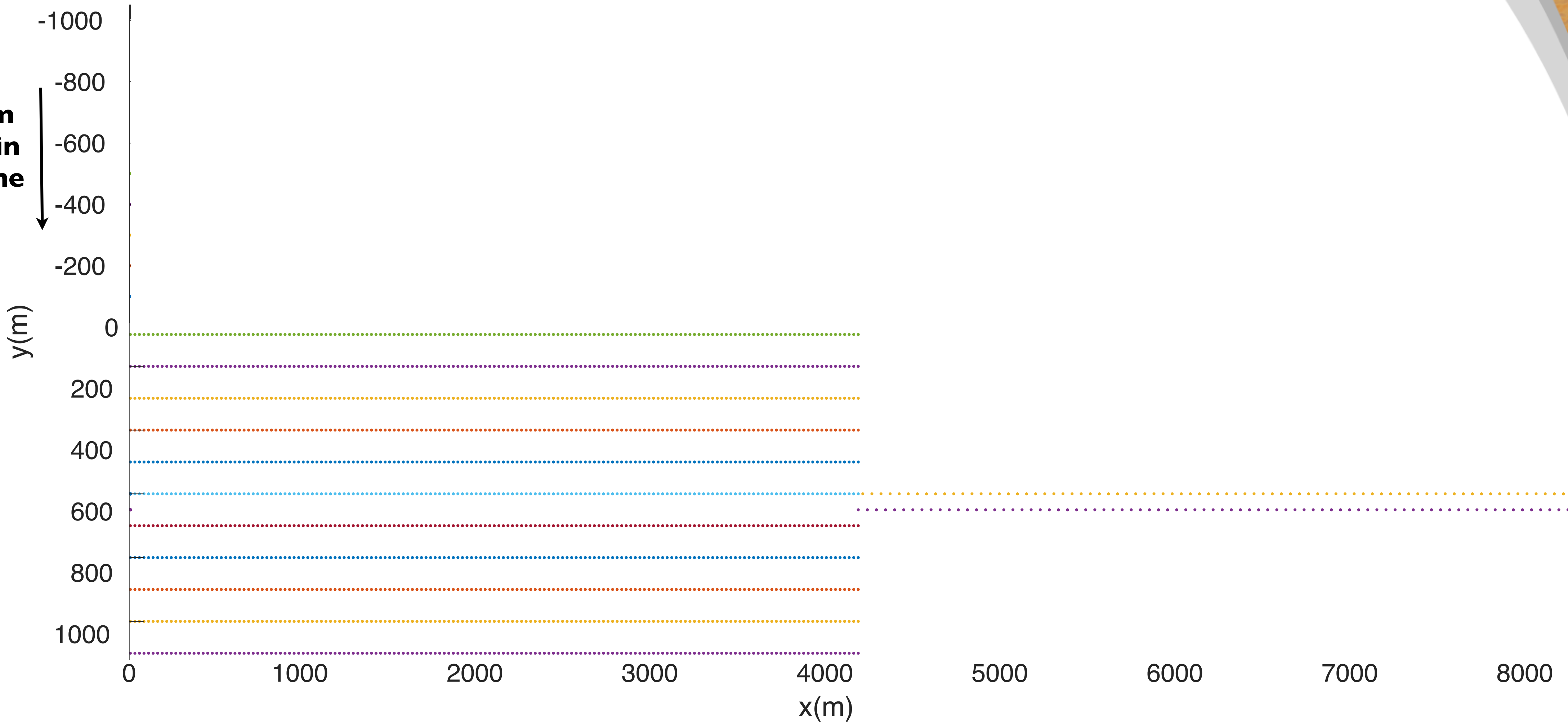


Source trajectory : 0 degree azimuth

12 km

Forward direction 

200 m
shift in
sail line



Source trajectory : 0 degree azimuth

Forward direction 

12 km 

200 m
shift in
sail line 

