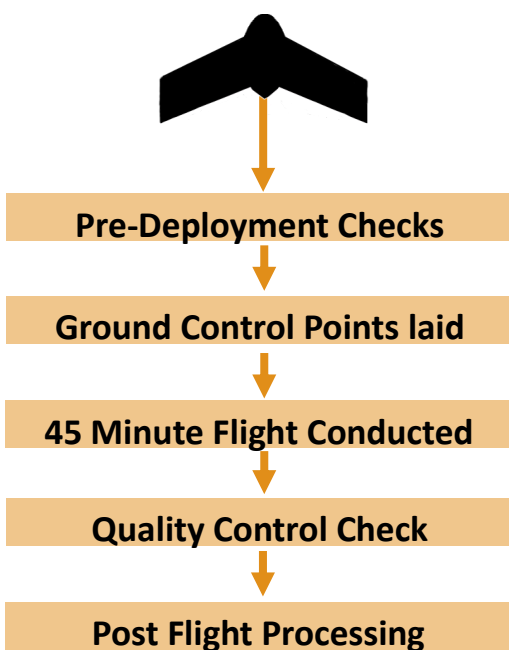
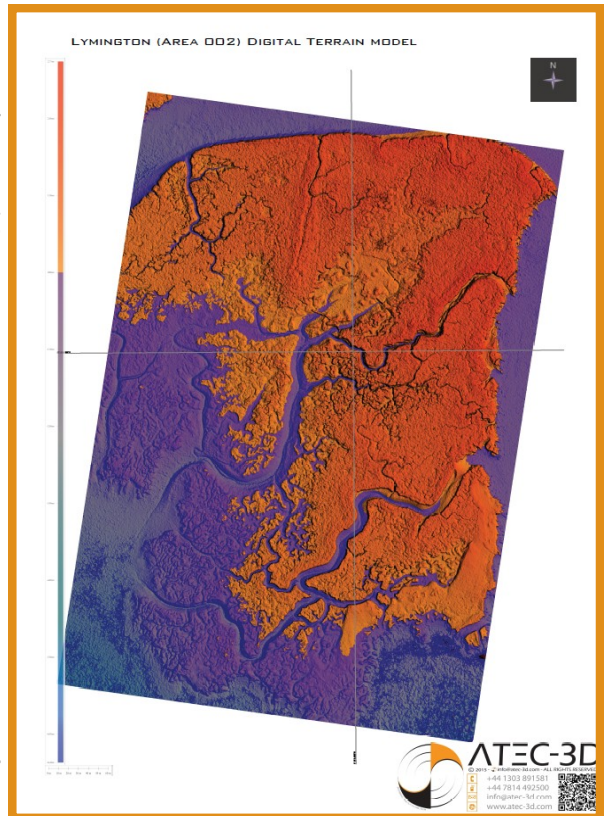


LYMINGTON SALT MARSHES

Lymington is located in the South of the UK, roughly 20 KM South-West of Southampton. To the South of the coastline lie a number of separate salt marshes that are revealed at low tide. These are environmentally fragile areas as they are home to a number of different wildlife habitats dependant on precise levels of salinity to be maintained. This means that constant monitoring and surveying of the area is crucial in understanding the development of the region over time.

A TEC-3D were tasked to use aerial surveying methods to generate geo-rectified surface maps from aerial imagery taken on site. This was for the National Oceanography centre based at the University of Southampton and was a UAV trial to see how useful this method of surveying is. Using GCPs supplied by a team from the NOC and LiDAR data from a previous study ATEC were able to correlate the two data sets within each area of surveying to provide a base map that at best was within $\pm 200\text{mm}$ and in areas where there was less imagery (corners) or fewer GCPs were within $\pm 500\text{mm}$. Conclusions were drawn that for higher accuracy, more than 3 GCPs will be needed and a wider range of locations would help.



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