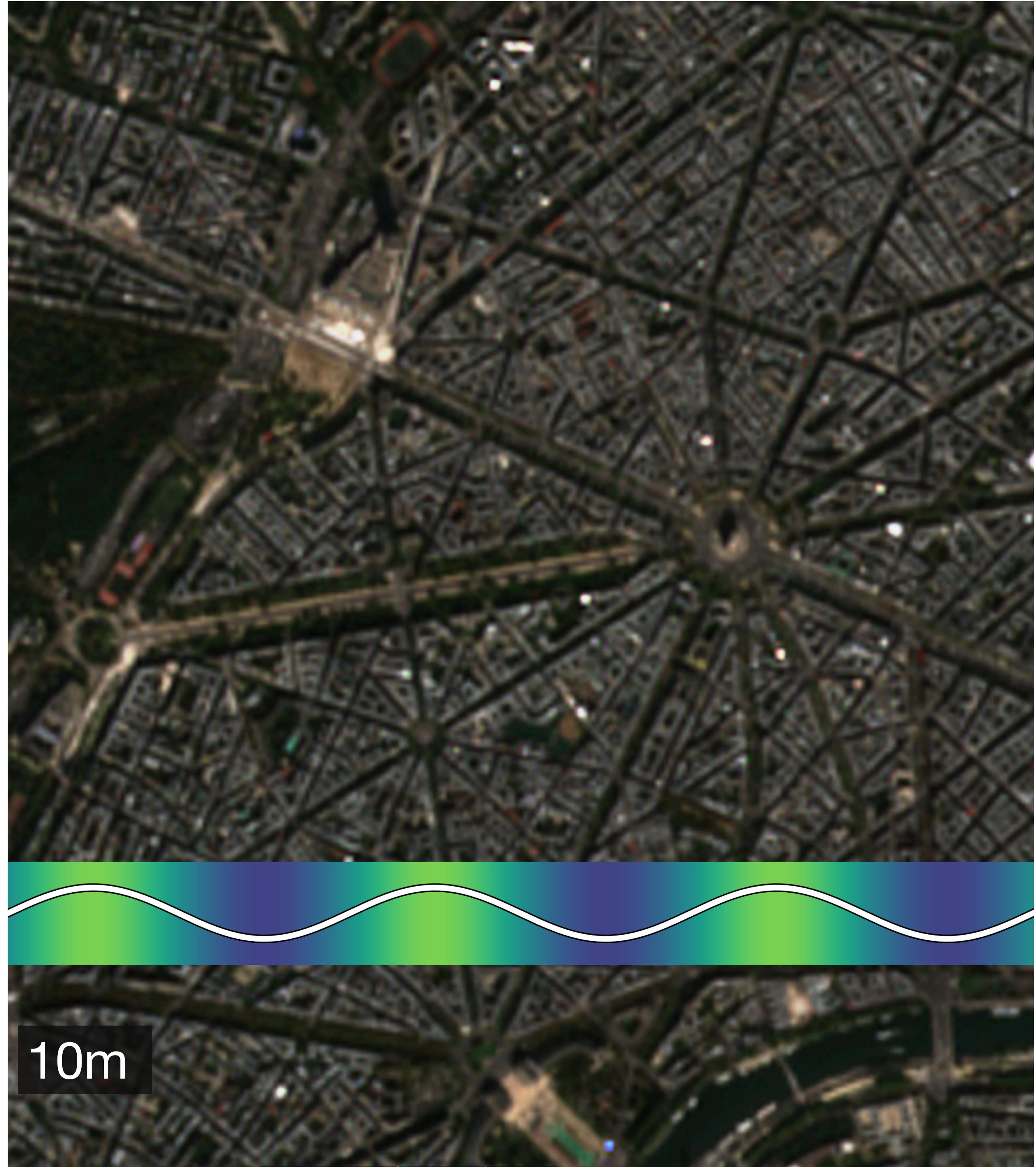
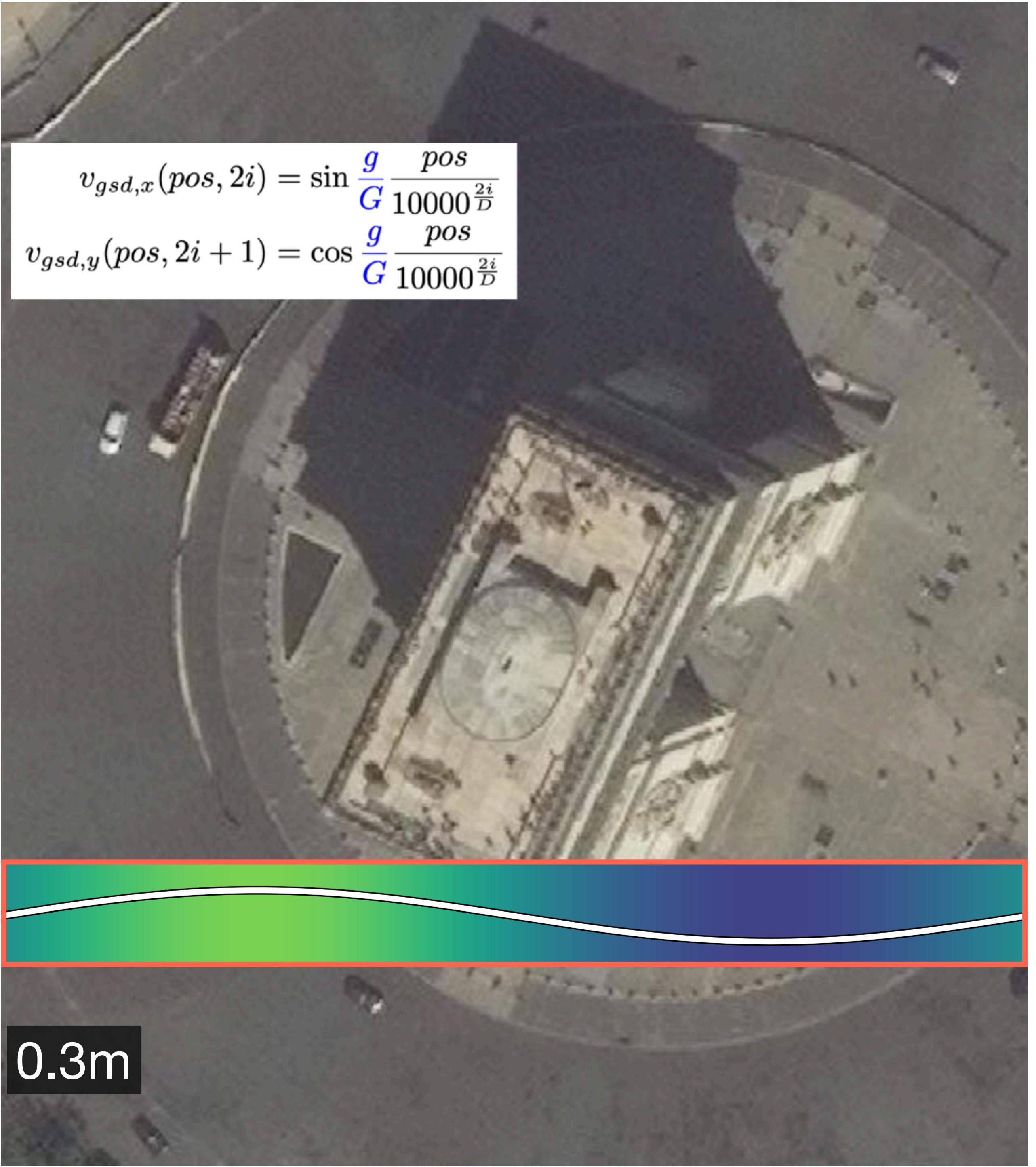
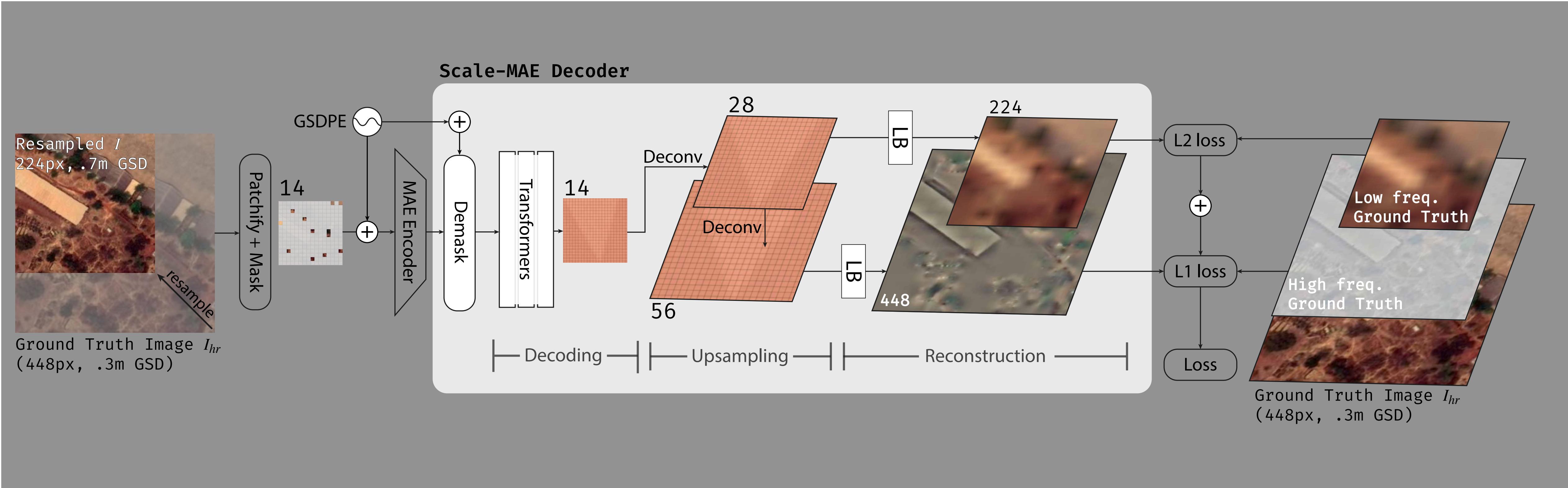


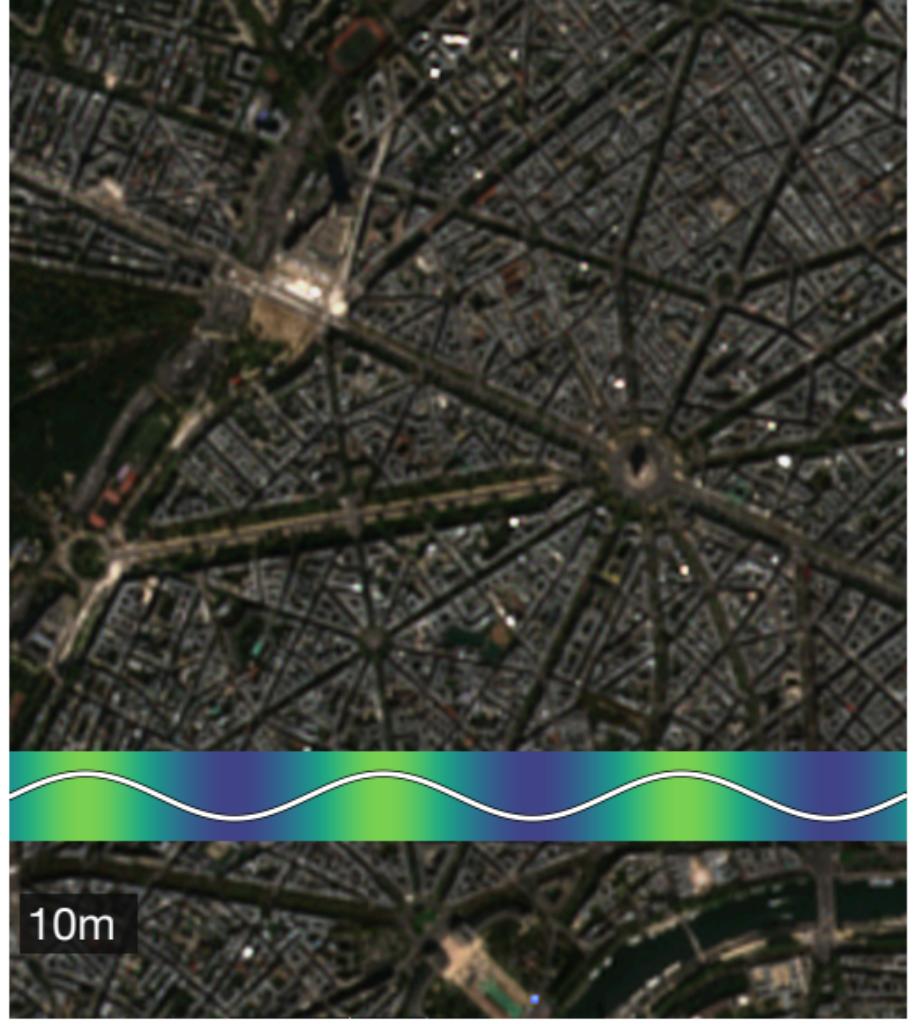
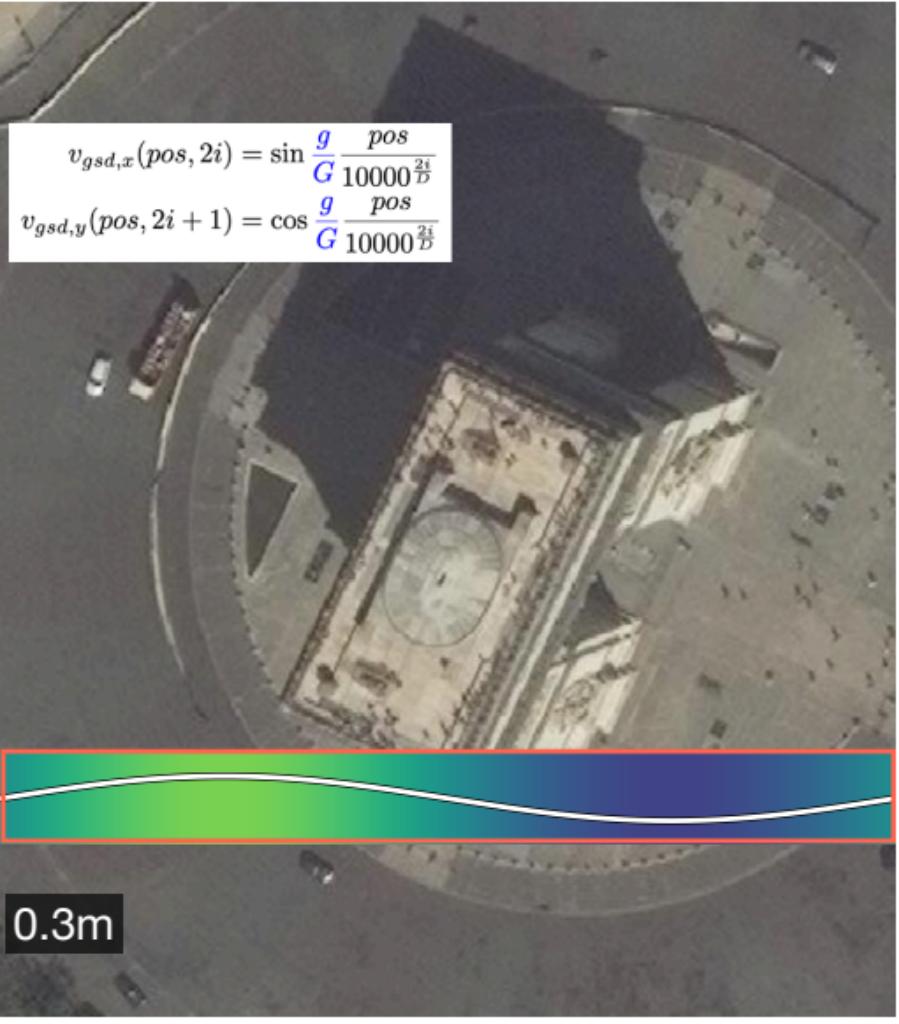
$$v_{gsd,x}(pos, 2i) = \sin \frac{g}{G} \frac{pos}{10000^{\frac{2i}{D}}}$$
$$v_{gsd,y}(pos, 2i + 1) = \cos \frac{g}{G} \frac{pos}{10000^{\frac{2i}{D}}}$$

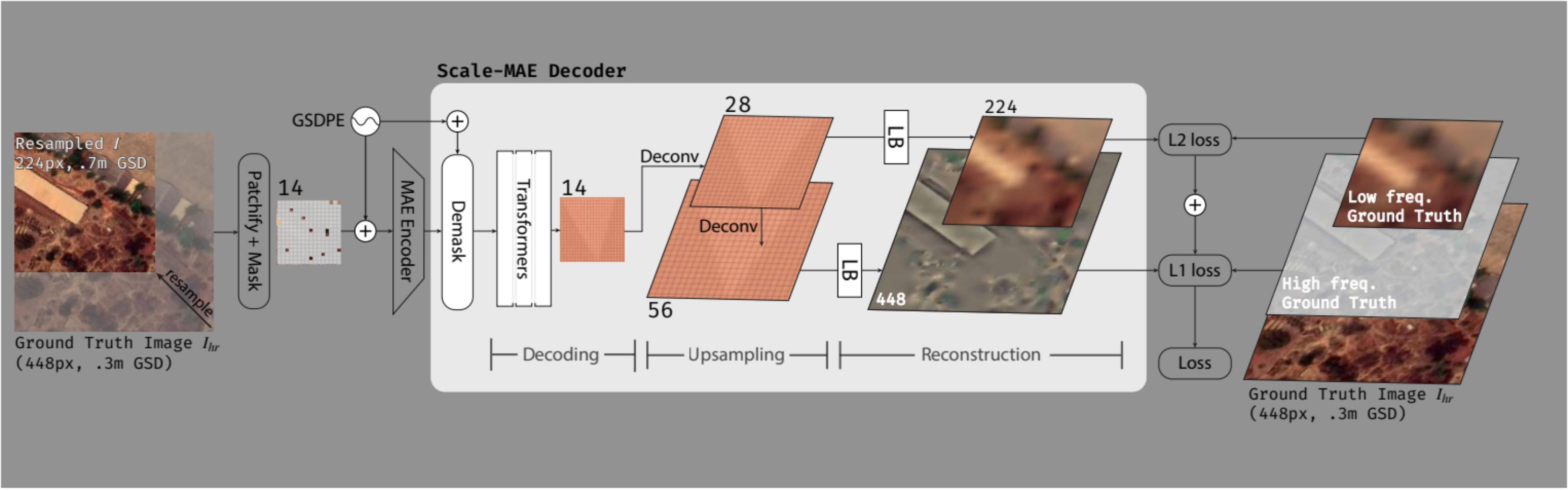




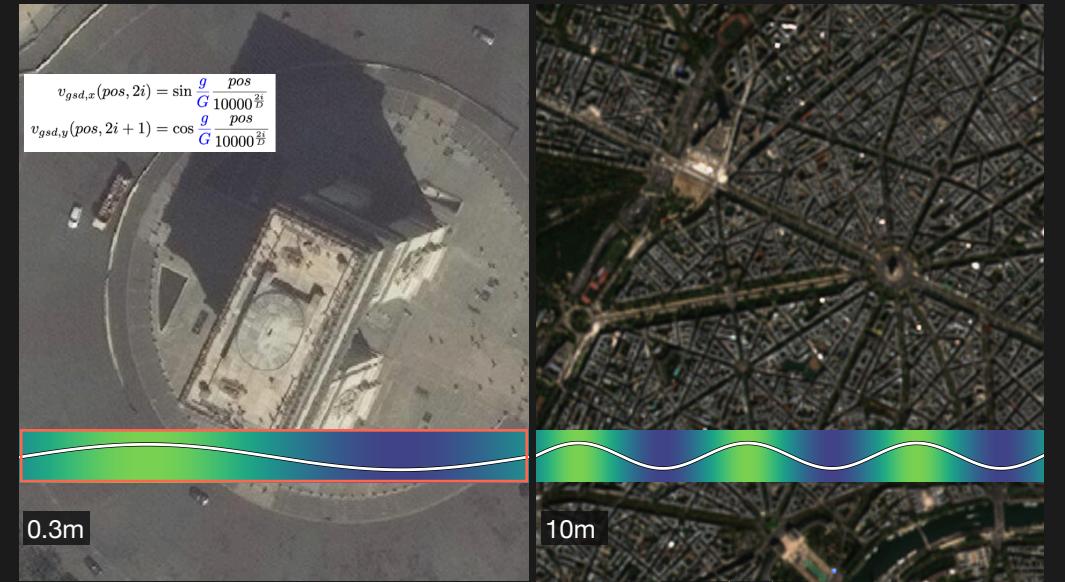






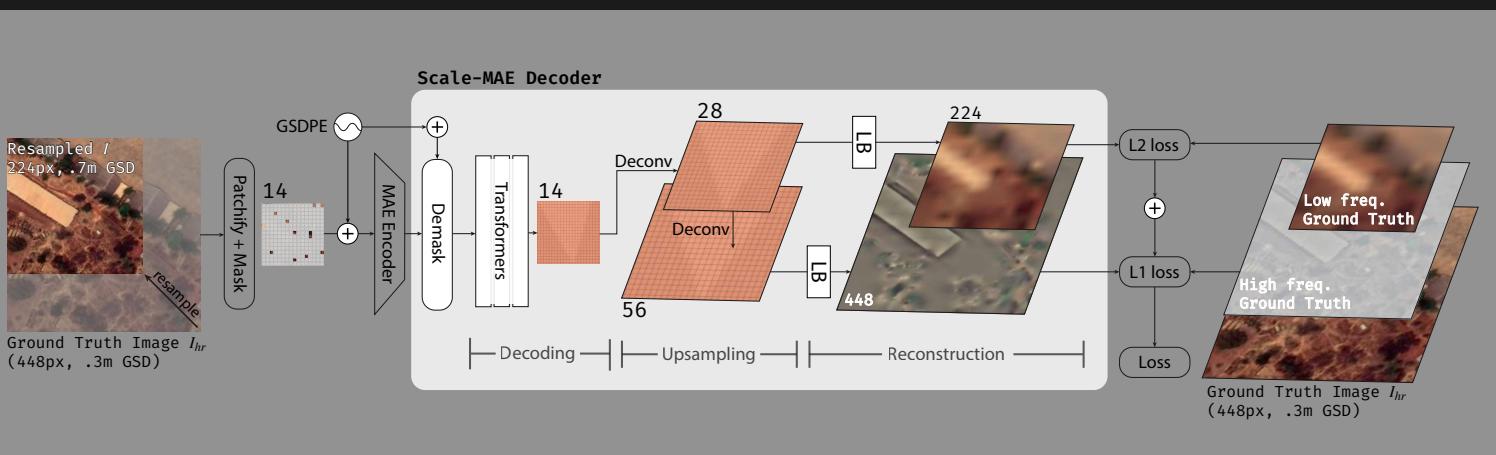


Takeaways



GSDPE

+



=

Progressive Laplacian
Decoding



- An average increase of 5.6% kNN accuracy across multiple GSDs compared to current SOTA.
- 0.9 - 1.7 mIoU improvement over current SOTA on SpaceNet 1/2 semantic segmentation.



Scale-MAE

A Scale-Aware Masked Autoencoder for Multiscale Geospatial Representation Learning

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