

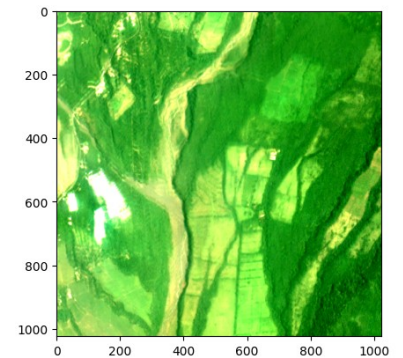
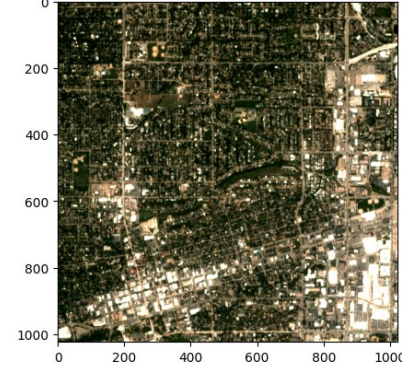
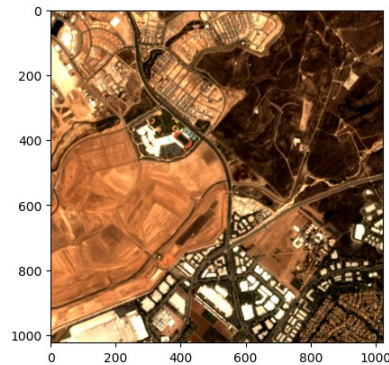
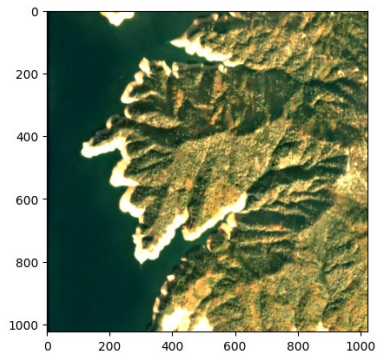
Implementazione

Il dataset utilizzato è DynamicEarthNet, composto da immagini satellitari rappresentate in 4 bande: Blue, Green, Red, Near-Infrared.

La label del dataset ha 7 layer:

- 0 - impervious surface1 - agriculture
- 2 - forest & other vegetation
- 3 - wetlands
- 4 - soil
- 5 - water
- 6 - snow & ice

Nell'implementazione ho ignorato la classe n°6 snow&ice perchè presente in sole due aree.



Risultati

Numero di epoche: 30

Learning rate: $10e-4$

Batch size= 8

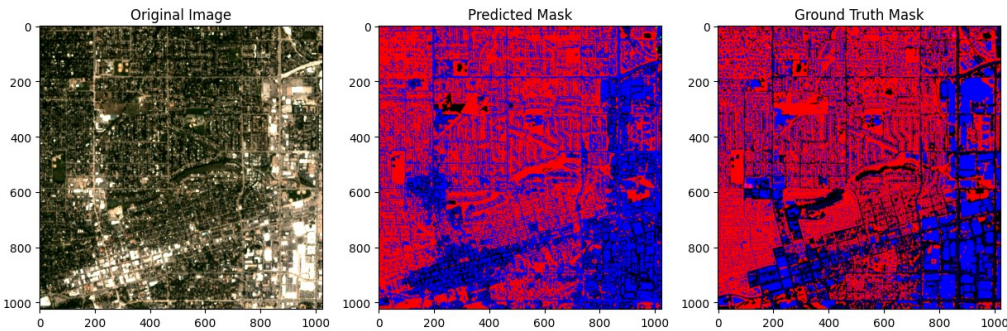
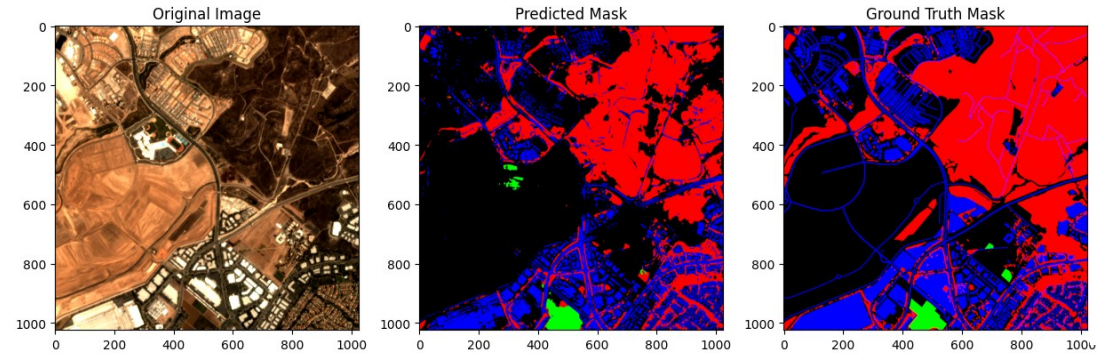
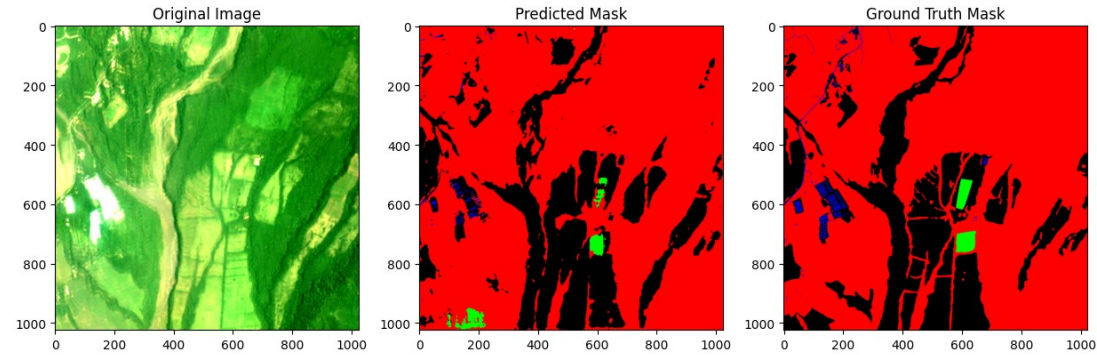
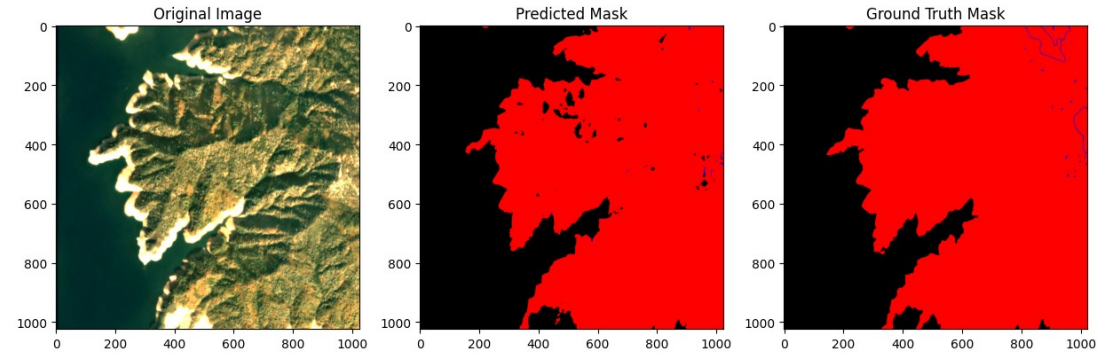
Num workers=2

Crossentropyloss con pesi calcolati con
($1.0/\text{torch.sqrt}(\text{frequencies}+1e-8)$)

On test set:

Mean AP 0.527

Accuracy 68.14



Risultati

Grafici dei parametri training loss e mean AP durante l'addestramento

