** Architecture of FASTER-RCNN with ResNet-50 Backbone and Region Proposal Network (RPN) CONVI (7x7,64 filters) CONV2 (3 Bottlenecks) (onv3 (4 Botheneck) (onv4 (6 Botheneck) (onv5 (3 Botheneck) Sliding Window + 160nv. layer Objectness Score 2 layer Con V5 multi Image (7X7) (3×3) RGB classclassi-Connected fication Manpooling Bounding Manpooling Bon Input Regnesor Image Convolution for each cratal locator map chartim) classification layers Region object Proposal classify Network CONV

Box 9 Regressor