

Table A1: Summary of results (instance). The best test results are highlighted in **blue**.[‡] input size = 320×320; [§] Input size = 640×640.

| Model | P | R | mAP _{0.5} | mAP _{0.5-0.95} |
|--------------------------|--------------|--------------|--------------------|-------------------------|
| #Test set1 | | | | |
| FaciesSAM-s [‡] | 0.783 | 0.807 | 0.82 | 0.595 |
| FaciesSAM-s [§] | 0.808 | 0.789 | 0.832 | 0.63 |
| FaciesSAM-x [‡] | 0.836 | 0.804 | 0.841 | 0.622 |
| FaciesSAM-x [§] | 0.85 | 0.794 | 0.836 | 0.644 |
| #Test set2 | | | | |
| FaciesSAM-s [‡] | 0.753 | 0.721 | 0.75 | 0.542 |
| FaciesSAM-s [§] | 0.741 | 0.690 | 0.734 | 0.553 |
| FaciesSAM-x [‡] | 0.774 | 0.731 | 0.770 | 0.561 |
| FaciesSAM-x [§] | 0.768 | 0.699 | 0.743 | 0.554 |

Table A2: Summary of results (semantic). The best test results are highlighted in **blue**.[‡] input size = 320×320; [§] Input size = 640×640.

| Model | mIU | PA | Class Accuracy | | | | | | MCA | FWIU |
|--------------------------|------------|-------|----------------|--------|--------------------|---------------|---------------|--------------|-------|-------|
| | | | Zechstein | Scruff | Rijnland/ Chalk | Lower N.S. | Middle N.S | Upper N.S | | |
| | #Test set1 | | | | | | | | | |
| FaciesSAM-s [‡] | 0.708 | 0.90 | 0.692 | 0.710 | 0.846 | 0.792 | 0.886 | 0.975 | 0.817 | 0.763 |
| FaciesSAM-s [§] | 0.727 | 0.890 | 0.715 | 0.801 | 0.887 | 0.748 | 0.838 | 0.976 | 0.828 | 0.768 |
| FaciesSAM-x [‡] | 0.716 | 0.888 | 0.723 | 0.784 | 0.884 | 0.681 | 0.931 | 0.984 | 0.831 | 0.720 |
| FaciesSAM-x [§] | 0.771 | 0.936 | 0.753 | 0.802 | 0.925 | 0.882 | 0.918 | 0.977 | 0.876 | 0.838 |
| | #Test set2 | | | | | | | | | |
| FaciesSAM-s [‡] | 0.686 | 0.909 | 0.905 | 0.559 | 0.703 | 0.892 | 0.836 | 0.916 | 0.802 | 0.856 |
| FaciesSAM-s [§] | 0.700 | 0.917 | 0.936 | 0.376 | 0.748 | 0.900 | 0.820 | 0.947 | 0.788 | 0.857 |
| FaciesSAM-x [‡] | 0.723 | 0.940 | 0.913 | 0.500 | 0.809 | 0.911 | 0.900 | 0.960 | 0.832 | 0.890 |
| FaciesSAM-x [§] | 0.719 | 0.937 | 0.940 | 0.388 | 0.796 | 0.953 | 0.890 | 0.951 | 0.819 | 0.890 |