### Supplementary Table 6

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **pH1N1** | | | | | |  | **sH3N2** | | | | | |
|  |  | **Precision** | **Recall** | **F-score** | **Accuracy** | **Stability** | **Average** |  | **Precision** | **Recall** | **F-score** | **Accuracy** | **Stability** | **Average** |
| **PB2** | 1. | 0.89865 | 0.93489 | 0.91641 | 0.99938 | 1 | 1.79617 | 1. | 0.73694 | 0.88764 | 0.8053 | 0.99897 | 1 | 1.1482 |
| 2. | 0.90602 | 0.94085 | 0.9231 | 0.99943 | 1 | 1.20104 | 2. | 0.80449 | 0.90809 | 0.85315 | 0.99924 | 1 | 1.21464 |
| 3. | 0.7655 | 0.90618 | 0.82992 | 0.9991 | 1 | 1.17321 | 3. | 0.72584 | 0.9141 | 0.80916 | 0.99895 | 1 | 1.58804 |
| 4. | 0.76449 | 0.90487 | 0.82877 | 0.99909 | 1 | 1.91548 | 4. | 1 | 0.89276 | 0.94334 | 0.99878 | 1 | 0.98501 |
| 5. | 0.76293 | 0.90597 | 0.82832 | 0.99909 | 1 | 1.59852 | 5. | 0.80653 | 0.90255 | 0.85184 | 0.99924 | 1 | 2.31392 |
| 6. | 0.78481 | 0.91676 | 0.84567 | 0.99918 | 1 | 1.07023 | 6. | 0.82359 | 0.91068 | 0.86495 | 0.9993 | 1 | 1.05223 |
| 7. | 0.77196 | 0.90919 | 0.83498 | 0.99912 | 1 | 0.72867 |  | | | | | |
| 8. | 0.74455 | 0.89222 | 0.81173 | 0.999 | 0.99136 | 0.92995 |
| 9. | 0.77124 | 0.90969 | 0.83477 | 0.99912 | 1 | 0.73048 |
| 10. | 0.7507 | 0.9 | 0.8186 | 0.99904 | 1 | 1.09755 |
| 11. | 0.73232 | 0.88789 | 0.80263 | 0.99895 | 1 | 1.05043 |
| 12. | 0.89515 | 0.92904 | 0.91178 | 0.99934 | 1 | 1.54116 |
| 13. | 0.75593 | 0.89884 | 0.82121 | 0.99905 | 1 | 0.70233 |
| 14. | 0.89947 | 0.93168 | 0.91529 | 0.99937 | 1 | 0.91775 |
| 15. | 0.73451 | 0.89063 | 0.80507 | 0.99897 | 1 | 4.04162 |
| 16. | 0.74642 | 0.89878 | 0.81554 | 0.99902 | 1 | 1.38535 |
| 17. | 0.98371 | 0.96928 | 0.97644 | 0.99977 | 1 | 1.10768 |
| **PB1** | 1. | 0.819 | 0.90447 | 0.85962 | 0.99928 | 1 | 1.46251 | 1. | 0.79183 | 0.89176 | 0.83883 | 0.99918 | 1 | 2.71937 |
| 2. | 0.795 | 0.89176 | 0.8406 | 0.99919 | 1 | 2.07695 | 2. | 0.79582 | 0.89324 | 0.84172 | 0.99919 | 1 | 1.17066 |
| 3. | 0.607 | 0.67821 | 0.64063 | 0.99816 | 0.75686 | 0.56816 | 3. | 0.78486 | 0.87604 | 0.82795 | 0.99912 | 0.97164 | 1.347 |
| 4. | 0.803 | 0.89521 | 0.8466 | 0.99922 | 1 | 2.33944 | 4. | 0.98152 | 0.59828 | 0.74341 | 0.99743 | 1.99346 | 1.78638 |
| 5. | 0.817 | 0.90376 | 0.85819 | 0.99927 | 1 | 1.20138 |  | | | | | |
| 6. | 0.90325 | 0.91508 | 0.90912 | 0.99933 | 1 | 0.9506 |
| 7. | 0.783 | 0.88027 | 0.82879 | 0.99913 | 1 | 1.64516 |
| **PA** | 1. | 0.8056 | 0.89456 | 0.84775 | 0.99918 | 1 | 1.29466 | 1. | 0.61646 | 0.93557 | 0.74321 | 0.99835 | 1 | 0.94922 |
| 2. | 0.84558 | 0.92007 | 0.88125 | 0.99935 | 1 | 0.73796 | 2. | 0.7854 | 0.89539 | 0.83679 | 0.99911 | 1 | 1.59671 |
| 3. | 0.81159 | 0.90272 | 0.85474 | 0.99921 | 1 | 1.35054 | 3. | 0.62174 | 0.9416 | 0.74895 | 0.99838 | 1 | 0.88074 |
| 4. | 0.8046 | 0.89694 | 0.84826 | 0.99918 | 1 | 1.4778 | 4. | 0.89505 | 0.65918 | 0.75922 | 0.99837 | 1 | 1.05252 |
| 5. | 0.97066 | 0.98548 | 0.97802 | 0.99983 | 1 | 1.29668 | 5. | 0.81995 | 0.90829 | 0.86186 | 0.99925 | 1 | 0.60085 |
| 6. | 0.89225 | 0.9011 | 0.89665 | 0.99919 | 1 | 0.57344 | 6. | 0.80758 | 0.899 | 0.85084 | 0.99919 | 1 | 1.50513 |
| 7. | 0.97588 | 0.95062 | 0.96308 | 0.99932 | 1 | 1.04651 | 7. | 0.40107 | 0.99945 | 0.57242 | 0.99616 | 1 | 0.8206 |
| 8. | 0.803 | 0.89571 | 0.84682 | 0.99917 | 1 | 0.76832 |  | | | | | |
| 9. | 0.841 | 0.91562 | 0.87673 | 0.99933 | 1 | 1.33694 |
| 10. | 0.92322 | 0.93484 | 0.92899 | 0.99945 | 1 | 1.95201 |
| 11. | 0.99614 | 0.99641 | 0.99628 | 0.99996 | 1 | 1.7039 |
| 12. | 0.797 | 0.8945 | 0.84294 | 0.99915 | 1 | 0.79982 |
| **HA1** | 1. | 0.68887 | 0.88763 | 0.77572 | 0.99715 | 1 | 1.09228 | 1. | 0.99328 | 0.95434 | 0.97342 | 0.99926 | 1 | 0.88453 |
| 2. | 0.99257 | 0.99421 | 0.99339 | 0.99985 | 1 | 1.59415 | 2. | 0.82742 | 0.92073 | 0.87159 | 0.99771 | 1 | 1.21967 |
| 3. | 0.7831 | 0.90859 | 0.84119 | 0.99806 | 1 | 0.74958 | 3. | 0.68574 | 0.91079 | 0.7824 | 0.99715 | 1 | 1.11964 |
| 4. | 0.98538 | 0.86113 | 0.91908 | 0.99645 | 1.02148 | 1.06979 | 4. | 0.72724 | 0.83498 | 0.7774 | 0.99593 | 0.88579 | 0.74254 |
| 5. | 0.75755 | 0.89471 | 0.82043 | 0.9978 | 1 | 2.15426 | 5. | 0.99642 | 0.99917 | 0.99779 | 0.99995 | 1 | 1.23302 |
| 6. | 0.96973 | 0.98811 | 0.97883 | 0.99964 | 1 | 3.14461 | 6. | 0.99775 | 0.98032 | 0.98896 | 0.99962 | 1 | 0.91345 |
| 7. | 0.76574 | 0.90139 | 0.82805 | 0.9979 | 1 | 4.48946 | 7. | 0.32865 | 0.5948 | 0.42337 | 0.99091 | 0.62621 | 0.69681 |
| 8. | 0.99136 | 0.9209 | 0.95483 | 0.99875 | 1 | 2.31625 | 8. | 1 | 0.88764 | 0.94048 | 0.99601 | 1 | 1.33813 |
| 9. | 0.99904 | 0.86652 | 0.92807 | 0.99684 | 1.00924 | 1.27182 | 9. | 0.65854 | 0.89158 | 0.75754 | 0.99678 | 0.98301 | 2.92006 |
| 10. | 1 | 0.94825 | 0.97344 | 0.99847 | 1 | 1.00421 | 10. | 0.83859 | 0.92624 | 0.88024 | 0.99787 | 1 | 2.13886 |
| 11. | 0.98451 | 0.94756 | 0.96568 | 0.99923 | 1 | 2.19452 | 11. | 0.98462 | 0.94567 | 0.96475 | 0.9986 | 1 | 1.18845 |
| 12. | 0.75775 | 0.89766 | 0.82179 | 0.99781 | 1 | 2.22453 | 12. | 0.65286 | 0.89832 | 0.75617 | 0.99678 | 1 | 0.89678 |
|  | | | | | | 13. | 0.66394 | 0.90183 | 0.76482 | 0.99689 | 1 | 0.73665 |
| **HA2** |  |  | | | | | | 1. |  |  |  |  |  |  |
| **NP** | 1. | 0.89932 | 0.93353 | 0.91611 | 0.99901 | 1 | 0.92948 | 1. | 1 | 0.93461 | 0.9662 | 0.99962 | 1 | 1.71105 |
| 2. | 0.88013 | 0.91879 | 0.89904 | 0.9988 | 1 | 1.88129 |  | | | | | |
| 3. | 0.71474 | 0.88539 | 0.79097 | 0.99822 | 0.99873 | 0.92798 |
| 4. | 0.96381 | 0.98411 | 0.97385 | 0.99969 | 0.99728 | 0.70311 |
| 5. | 0.99357 | 0.98395 | 0.98874 | 0.99982 | 1 | 1.02285 |
| 6. | 0.75756 | 0.90394 | 0.8243 | 0.99852 | 1 | 1.85452 |
| 7. | 0.76345 | 0.9148 | 0.8323 | 0.99856 | 1 | 0.98319 |
| **NA** | 1. | 0.97728 | 0.98998 | 0.98359 | 0.99976 | 1 | 0.94483 | 1. | 0.9594 | 0.98852 | 0.97374 | 0.99962 | 1 | 0.86846 |
| 2. | 0.76328 | 0.90298 | 0.82727 | 0.9982 | 1 | 1.23092 | 2. | 0.9884 | 0.99279 | 0.99059 | 0.99982 | 1 | 2.93439 |
| 3. | 0.96974 | 0.95065 | 0.9601 | 0.99924 | 0.99544 | 0.81095 | 3. | 0.96802 | 0.9885 | 0.97815 | 0.99969 | 1 | 0.73076 |
| 4. | 0.70769 | 0.95267 | 0.8121 | 0.99789 | 1 | 0.86562 | 4. | 1 | 0.91162 | 0.95377 | 0.99758 | 1 | 1.30683 |
| 5. | 0.73895 | 0.89213 | 0.80835 | 0.99801 | 1 | 1.68588 | 5. | 0.75186 | 0.89789 | 0.81841 | 0.99812 | 0.99753 | 0.76207 |
| 6. | 0.99955 | 0.99866 | 0.99911 | 0.99998 | 1 | 0.96226 | 6. | 0.75105 | 0.89816 | 0.81804 | 0.99812 | 1 | 1.89124 |
| 7. | 0.75303 | 0.90028 | 0.8201 | 0.99813 | 1 | 3.80419 | 7. | 0.99597 | 0.98429 | 0.99009 | 0.99976 | 1 | 0.67372 |
| 8. | 0.87081 | 0.91592 | 0.89279 | 0.99844 | 0.99157 | 1.25152 | 8. | 0.97104 | 0.94528 | 0.95799 | 0.99879 | 1 | 2.15367 |
| 9. | 0.67306 | 0.92936 | 0.78071 | 0.99751 | 0.99878 | 0.75984 |  | | | | | |
| 10. | 0.74231 | 0.90568 | 0.8159 | 0.99805 | 1 | 2.10581 |
| 11. | 0.55908 | 0.70719 | 0.62448 | 0.99598 | 0.79151 | 2.28639 |
| 12. | 0.75012 | 0.89321 | 0.81544 | 0.99808 | 1 | 2.8016 |
| 13. | 0.98963 | 0.97461 | 0.98207 | 0.99966 | 1 | 1.15015 |
| 14. | 0.98198 | 0.94913 | 0.96527 | 0.99934 | 1 | 1.70656 |
| 15. | 0.97456 | 0.9904 | 0.98242 | 0.99975 | 1 | 0.8061 |
| **M1** | 1. | 0.82067 | 0.76863 | 0.7938 | 0.99534 | 0.85414 | 1.25181 |  |  | | | | | |
|  | 2. | 0.81235 | 0.76297 | 0.78689 | 0.99519 | 0.85393 | 2.20936 |  |
| **M2** | 1. | 0.66056 | 0.97479 | 0.78749 | 0.96726 | 0.97724 | 1.11922 | 1. | 0.84851 | 0.98954 | 0.91362 | 0.98408 | 1 | 1.24919 |
| 2. | 0.79189 | 0.96334 | 0.86924 | 0.95693 | 1 | 1.55141 | 2. | 0.9532 | 0.88313 | 0.91683 | 0.97572 | 1 | 1.8053 |
| 3. | 0.33604 | 0.90235 | 0.48971 | 0.92226 | 0.98922 | 1.36896 |  | | | | | |
| **NS1** | 1. | 0.99723 | 0.99917 | 0.9982 | 0.99994 | 1 | 1.0147 | 1. | 0.96081 | 0.99191 | 0.97611 | 0.99941 | 1 | 1.42656 |
| 2. | 0.98196 | 0.9975 | 0.98967 | 0.99965 | 1 | 1.39652 | 2. | 0.75012 | 0.90055 | 0.81848 | 0.9968 | 1 | 1.15162 |
| 3. | 0.86623 | 0.93089 | 0.8974 | 0.9973 | 1 | 1.8717 | 3. | 0.99824 | 0.85413 | 0.92058 | 0.99125 | 1.00844 | 1.152 |
| 4. | 0.99633 | 0.93063 | 0.96236 | 0.99713 | 1 | 1.25332 | 4. | 0.9955 | 0.85718 | 0.92118 | 0.99512 | 1.08145 | 1.20051 |
| 5. | 0.9681 | 0.99083 | 0.97933 | 0.99947 | 1 | 1.16333 | 5. | 0.57138 | 0.8852 | 0.69448 | 0.99385 | 0.99873 | 1.2421 |
| 6. | 0.65033 | 0.91204 | 0.75927 | 0.99512 | 1 | 1.60585 | 6. | 0.73052 | 0.87679 | 0.797 | 0.99641 | 0.96024 | 2.02527 |
| 7. | 0.61437 | 0.82074 | 0.70272 | 0.99415 | 0.90732 | 2.26452 | 7. | 0.98704 | 0.86791 | 0.92365 | 0.99151 | 1 | 1.25578 |
| 8. | 0.98586 | 0.98668 | 0.98627 | 0.99953 | 1 | 1.10176 | 8. | 0.61473 | 0.79867 | 0.69473 | 0.99438 | 0.88049 | 0.69069 |
| 9. | 0.98833 | 0.84102 | 0.90874 | 0.98474 | 1 | 1.96486 | 9. | 0.99044 | 0.98198 | 0.98619 | 0.99932 | 1 | 2.99836 |
| 10. | 0.99812 | 0.92083 | 0.95792 | 0.99754 | 1 | 2.5686 |  | | | | | |
| 11. | 0.71206 | 0.90819 | 0.79825 | 0.99614 | 1 | 2.15917 |

Table S6: Overview of all quality measurements per patch.

This is a detailed overview providing the precision, recall, F-score, stability and the averageof all patches.