**Appendix 2 (edited)**

**2.1 Input variables**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variable Name | Definition | Unit | Data source | Historical Range | SSP1 RCP2.6 Range | SSP2 RCP4.5 Range | SSP3 RCP7.0 Range | SSP5 RCP8.5 Range |
| Tave\_sp | Spring (March to May) mean temperature. | °C | AdaptWest bioclimatic dataset | (-33.5999984741211, 32) | (-31.3999996185303, 33.2999992370605) | (-29.7000007629395, 34.2999992370605) | (-28, 35.5) | (-26.7000007629395, 36.2000007629395) |
| Tave\_sm | Summer (June to August) mean temperature. | °C | AdaptWest bioclimatic dataset | (-15.8000001907349, 37.2999992370605) | (-13.6999998092651, 38.7000007629395) | (-12.8000001907349, 39.9000015258789) | (-11.8999996185303, 41.0999984741211) | (-11.1999998092651, 42) |
| Tave\_at | Autumn (September to November) mean temperature. | °C | AdaptWest bioclimatic dataset | (-27.5, 30.2999992370605) | (-23.8999996185303, 31.2000007629395) | (-21.3999996185303, 32.0999984741211) | (-19, 33.0999984741211) | (-17.5, 33.7000007629395) |
| Tave\_wt | Winter (December to February) mean temperature. | °C | AdaptWest bioclimatic dataset | (-42.2999992370605, 28.6000003814697) | (-39.4000015258789, 29.8999996185303) | (-36.7000007629395, 30.7999992370605) | (-33.7999992370605, 31.7000007629395) | (-31.6000003814697, 32.2999992370605) |
| MAT | Mean annual temperature. | °C | AdaptWest bioclimatic dataset | (-27.2999992370605, 30.3999996185303) | (-24.7000007629395, 31.3999996185303) | (-22.7999992370605, 32.4000015258789) | (-20.7999992370605, 33.5) | (-19.2999992370605, 34.0999984741211) |
| MCMT | Mean temperature of the coldest month. | °C | AdaptWest bioclimatic dataset | (-45.0999984741211, 28.3999996185303) | (-42, 29.7000007629395) | (-39.7999992370605, 30.6000003814697) | (-37.7000007629395, 31.5) | (-36.4000015258789, 32.0999984741211) |
| MWMT | Mean temperature of the warmest month. | °C | AdaptWest bioclimatic dataset | (-14.6999998092651, 38.7999992370605) | (-12.6000003814697, 40.4000015258789) | (-11.6000003814697, 41.5) | (-10.6999998092651, 42.5) | (-9.89999961853027, 43.4000015258789) |
| TD | Difference between MCMT and MWMT, as a measure of continentality. | °C | AdaptWest bioclimatic dataset | (1.20000004768372, 46.0999984741211) | (1.29999995231628, 46.2000007629395) | (1.29999995231628, 45.0999984741211) | (1.20000004768372, 44.0999984741211) | (1.20000004768372, 43.2000007629395) |
| EMT | Extreme minimum temperature over 30 years. | °C | AdaptWest bioclimatic dataset | (-67.9000015258789, 27.8999996185303) | (-63.0999984741211, 30) | (-60.0999984741211, 31.8999996185303) | (-60, 34.5) | (-58.7000007629395, 35.9000015258789) |
| EXT | Extreme maximum temperature over 30 years. | °C | AdaptWest bioclimatic dataset | (4.69999980926514, 53.7999992370605) | (7, 53.7000007629395) | (7.90000009536743, 55) | (8.89999961853027, 56.2999992370605) | (9.69999980926514, 57.0999984741211) |
| DD\_0 | Degree-days below 0 °C (chilling degree days). | - | AdaptWest bioclimatic dataset | (0, 9706) | (0, 8865) | (0, 8220) | (0, 7546) | (0, 7044) |
| DD5 | Degree-days above 5 °C (growing degree days). | - | AdaptWest bioclimatic dataset | (0, 9202) | (0, 9573) | (1, 9925) | (1, 10310) | (1, 10552) |
| DD\_18 | Degree-days below 18 °C (growing degree days). | - | AdaptWest bioclimatic dataset | (14, 16479) | (10, 15525) | (7, 14824) | (5, 14104) | (4, 13558) |
| DD18 | Degree-days above 18 °C (growing degree days). | - | AdaptWest bioclimatic dataset | (0, 4264) | (0, 4543) | (0, 4824) | (0, 5134) | (0, 5326) |
| DD1040 | (10<DD<40) degree-days above 10 °C and below 40 °C. | - | AdaptWest bioclimatic dataset | (0, 7323) | (0, 7697) | (0, 8049) | (0, 8433) | (0, 8676) |
| FFP | Frost-free period. | - | AdaptWest bioclimatic dataset | (0, 365) | (0, 365) | (0, 365) | (0, 365) | (0, 365) |
| bFFP | The Julian date on which the frost-free period begins. | - | AdaptWest bioclimatic dataset | (0, 291) | (0, 275) | (0, 261) | (0, 251) | (0, 242) |
| eFFP | the julian date on which the frost-free period ends |  | AdaptWest bioclimatic dataset | (190, 365) | (191, 365) | (190, 365) | (188, 365) | (188, 365) |
| PAS | Precipitation as snow. | mm | AdaptWest bioclimatic dataset | (0, 10813) | (0, 12851) | (0, 12935) | (0, 12972) | (0, 13334) |
| NFFD | The number of frost-free days. | - | AdaptWest bioclimatic dataset | (0, 365) | (0, 365) | (0, 365) | (0, 365) | (0, 365) |
| Eref | Hargreave’s reference evaporation. | mm/day | AdaptWest bioclimatic dataset | (0, 2465) | (0, 2456) | (0, 2510) | (0, 2583) | (0, 2643) |
| CMD | Hargreave’s climatic moisture index. | - | AdaptWest bioclimatic dataset | (0, 2185) | (0, 2264) | (0, 2317) | (0, 2410) | (0, 2494) |
| CMI | Hogg’s climate moisture index. | mm | AdaptWest bioclimatic dataset | (-246.020004272461, 1246.21997070312) | (-253.820007324219, 1428.97998046875) | (-268.890014648438, 1459.93005371094) | (-281.239990234375, 1486.34997558594) | (-298.059997558594, 1546.94995117188) |
| AHM | Annual heat moisture index, calculated as (MAT+10)/(MAP/1000). | - | AdaptWest bioclimatic dataset | (-141.100006103516, 1021.20001220703) | (-97.8000030517578, 996.900024414062) | (-60.7999992370605, 1152.30004882812) | (-34.4000015258789, 1244.5) | (-22.6000003814697, 1309.30004882812) |
| SHM | Summer heat moisture index, calculated as MWMT/MSP(1000). | - | AdaptWest bioclimatic dataset | (-29.5, 10063.7001953125) | (-21.7000007629395, 10030.2998046875) | (-16.7000007629395, 11896.5) | (-11.8999996185303, 11271.599609375) | (-7.30000019073486, 11650.7998046875) |
| PPT\_sp | Spring (March to May) precipitation. | mm | AdaptWest bioclimatic dataset | (0, 2247) | (0, 2826) | (0, 2964) | (0, 2969) | (0, 3138) |
| PPT\_sm | Summer (June to August) precipitation. | mm | AdaptWest bioclimatic dataset | (0, 5283) | (0, 5510) | (0, 5280) | (0, 4526) | (0, 4351) |
| PPT\_at | Autumn (September to November) precipitation. | mm | AdaptWest bioclimatic dataset | (0, 5741) | (0, 5926) | (0, 5848) | (0, 5717) | (0, 5888) |
| PPT\_wt | Winter (December to February) precipitation. | mm | AdaptWest bioclimatic dataset | (0, 3380) | (0, 3979) | (0, 3986) | (0, 4046) | (0, 4194) |
| RH | Mean annual relative humidity. | % | AdaptWest bioclimatic dataset | (36, 96) | (35, 96) | (35, 96) | (36, 97) | (36, 97) |
| MAP | Mean annual precipitation. | mm | AdaptWest bioclimatic dataset | (32, 13441) | (33, 14675) | (30, 14797) | (28, 15089) | (27, 15718) |
| MSP | Mean summer precipitation (May to September). | mm | AdaptWest bioclimatic dataset | (2, 8902) | (3, 9602) | (2, 9197) | (2, 8079) | (2, 7928) |
| Barren | Barren as land cover type, binary encoded. |  | Global 7-land-types LULC projection dataset under SSPs-RCPs | (0, 1) | (0, 1) | (0, 1) | (0, 1) | (0, 1) |
| cropland | Cropland as land cover type, binary encoded. | - | Global 7-land-types LULC projection dataset under SSPs-RCPs | (0, 1) | (0, 1) | (0, 1) | (0, 1) | (0, 1) |
| forest | Forest as land cover type, binary encoded. | - | Global 7-land-types LULC projection dataset under SSPs-RCPs | (0, 1) | (0, 1) | (0, 1) | (0, 1) | (0, 1) |
| grassland | Grassland as land cover type, binary encoded. | - | Global 7-land-types LULC projection dataset under SSPs-RCPs | (0, 1) | (0, 1) | (0, 1) | (0, 1) | (0, 1) |
| permanent snow and ice | Permanent snow and ice as land cover type, binary encoded. | - | Global 7-land-types LULC projection dataset under SSPs-RCPs | (0, 1) | (0, 1) | (0, 1) | (0, 1) | (0, 1) |
| urban | Urban as land cover type, binary encoded. | - | Global 7-land-types LULC projection dataset under SSPs-RCPs | (0, 1) | (0, 1) | (0, 1) | (0, 1) | (0, 1) |
| water | Water as land cover type, binary encoded. | - | Global 7-land-types LULC projection dataset under SSPs-RCPs | (0, 1) | (0, 1) | (0, 1) | (0, 1) | (0, 1) |
| MAR\* | Mean annual solar radiation (Excludes areas south of US and south high-latitude areas). | MJ·m−2·d−1 | AdaptWest bioclimatic dataset  It is provided by AdaptWest but not used in this study because it does not cover the whole region. | | | | | |

**2.2 Evaluation Metrics of MaxEnt for all the 8 cases**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| auc\_mean | auc\_std | mae\_mean | mae\_std | bias\_mean | bias\_std | tss\_mean | tss\_std | tss\_threshold\_mean | tss\_threshold\_std | species | method\_name |
| 0.976091195890319 | 0.004635777512833810 | 0.11126806941202100 | 0.005293365712147620 | 0.015894343400938300 | 0.006858220858306500 | 0.8876234976179980 | 0.014978329897154400 | 0.25132986000000000 | 0.015701275636394600 | San | pixel\_nobuffer\_off |
| 0.9725129642645730 | 0.006529037760314180 | 0.11615211688944900 | 0.007163466227165570 | 0.00798966966287865 | 0.005269180185411570 | 0.8820879409155640 | 0.020537258393451200 | 0.265218187 | 0.020326824018916500 | San | pixel\_nobuffer\_on |
| 0.9956765330480220 | 0.001047062622679140 | 0.04365604054007810 | 0.002650968942091180 | 0.01430954153333880 | 0.0025363906923794900 | 0.9536071571533500 | 0.01028420652880210 | 0.160742861 | 0.01745172075616350 | San | pixel\_buffer\_off |
| 0.993838718413975 | 0.0022377694963756500 | 0.04653312935722580 | 0.00346138284962194 | 0.00955395563187173 | 0.003220203778213280 | 0.9474495600637760 | 0.013547856361289400 | 0.14400458300000000 | 0.02105191714383040 | San | pixel\_buffer\_on |
| 0.9765065217391310 | 0.0039041511279976700 | 0.07572983934283410 | 0.003536763147231660 | -0.01600042796961060 | 0.0034110862032525400 | 0.8874130434782610 | 0.01846267629242910 | 0.201506998 | 0.02475146277042830 | San | grid\_nobuffer\_off |
| 0.9698576086956520 | 0.0031588776167701300 | 0.0853070333074828 | 0.003841302839127410 | -0.028201087845858400 | 0.0036643484145904500 | 0.8802347826086960 | 0.018097762240388900 | 0.173366746 | 0.012804355029979600 | San | grid\_nobuffer\_on |
| 0.9961 | 0.000925852184979458 | 0.04318367632168900 | 0.0009945877211732270 | 0.015063586659008800 | 0.0021598375540057300 | 0.9496478260869560 | 0.007370647605520480 | 0.157357138 | 0.037111780107458500 | San | grid\_buffer\_off |
| 0.9924152173913040 | 0.0017034367018922400 | 0.047761938321295700 | 0.0016172870848458600 | 0.00889407344035811 | 0.0019680777607096000 | 0.9499695652173910 | 0.014615824476976300 | 0.129305988 | 0.009411992733762390 | San | grid\_buffer\_on |
| 0.9949899136211710 | 0.003439466025471380 | 0.05682016407370710 | 0.006057269420384960 | 0.032226726569237800 | 0.0052545720516659800 | 0.9627835847927140 | 0.018558729663826700 | 0.287604481 | 0.0337722494803439 | Dim | pixel\_nobuffer\_off |
| 0.9920123434037660 | 0.0022630777026518900 | 0.060034025479706100 | 0.0029648789347543700 | 0.026911616105578100 | 0.0033918233460197100 | 0.9543840749665330 | 0.014967434926686600 | 0.161824857 | 0.032967596034681400 | Dim | pixel\_nobuffer\_on |
| 0.9988684212707070 | 0.0009171289713754210 | 0.024235748489332300 | 0.0012504105036437400 | 0.015531149587530700 | 0.0018317333227712400 | 0.9806709374115820 | 0.011442616239351200 | 0.157601914 | 0.024776428956216500 | Dim | pixel\_buffer\_off |
| 0.9975423154100920 | 0.001060637887341290 | 0.026515026760236100 | 0.0012033001216732900 | 0.01209001020152760 | 0.0019399592308878700 | 0.9700000000000000 | 0.011139519239576200 | 0.068778556 | 0.029445233264776200 | Dim | pixel\_buffer\_on |
| 0.9955726027664140 | 0.001000278114774410 | 0.03172865051390230 | 0.00179643774117119 | 0.0081514093579903 | 0.002051068105723030 | 0.9676809468147280 | 0.0115156208740397 | 0.15498715900000000 | 0.01610973234550500 | Dim | grid\_nobuffer\_off |
| 0.9920836723163840 | 0.001994833818081320 | 0.03467872413775250 | 0.002039710247424780 | 0.00430993647861634 | 0.001742730226435940 | 0.9611000000000000 | 0.007401276166235670 | 0.07130222 | 0.005879559932663330 | Dim | grid\_nobuffer\_on |
| 0.9985824858757060 | 0.0007799779712741430 | 0.02428345675391670 | 0.001506187090888850 | 0.015739339741651700 | 0.0011907734310973600 | 0.9785152542372880 | 0.014275894164716100 | 0.21806581500000000 | 0.03529325655818440 | Dim | grid\_buffer\_off |
| 0.997819943502825 | 0.0010962677143220900 | 0.02615189620038030 | 0.0016324389909087600 | 0.01284719790491900 | 0.0016512747956571000 | 0.9744435028248590 | 0.009061697880446730 | 0.06217332400000000 | 0.0033748793241483500 | Dim | grid\_buffer\_on |
| 0.9916415946521080 | 0.005027393844143470 | 0.06241347937739770 | 0.008059140205833950 | 0.020310180751021700 | 0.004972649785105060 | 0.9316939851786250 | 0.03302980578543210 | 0.187491991 | 0.008661914216002660 | Ger | pixel\_nobuffer\_off |
| 0.985798579716113 | 0.004473439948435350 | 0.07621641377358140 | 0.003508896189164940 | 0.0033858878629241400 | 0.004123513284672260 | 0.9040522941656590 | 0.024193330449146100 | 0.230294439 | 0.024056345170740500 | Ger | pixel\_nobuffer\_on |
| 0.9983621963308960 | 0.0011487029649509300 | 0.024746400680140700 | 0.0007609571147342090 | 0.01132778595088030 | 0.0026624789683901900 | 0.952517059994362 | 0.021701868034840800 | 0.08832732600000000 | 0.0173332167437139 | Ger | pixel\_buffer\_off |
| 0.9942977272727270 | 0.001944895467627080 | 0.0349247396652341 | 0.002196930665641100 | -0.00077722619298879 | 0.0016082412323923900 | 0.9193740259740260 | 0.01922295863389880 | 0.137699978 | 0.01476490668222720 | Ger | pixel\_buffer\_on |
| 0.9913967857142860 | 0.001954535651968960 | 0.03719658824571080 | 0.002623077524471110 | -0.0003172982674502 | 0.003994484550546020 | 0.9315519480519480 | 0.014922181060532300 | 0.11385759700000000 | 0.013972541663820500 | Ger | grid\_nobuffer\_off |
| 0.9890247727272730 | 0.00380825146792009 | 0.04427333854939710 | 0.0032979174547569000 | -0.01020802527067190 | 0.003909507310626730 | 0.9125142857142860 | 0.024832187801730300 | 0.146012019 | 0.022723921638537900 | Ger | grid\_nobuffer\_on |
| 0.9983240584415590 | 0.0007241694058906870 | 0.025080087719215600 | 0.0010159139696695900 | 0.01102135653719330 | 0.001750358207849700 | 0.9555909090909090 | 0.020125102284121900 | 0.09274629100000000 | 0.00818959375561261 | Ger | grid\_buffer\_off |
| 0.9950248701298700 | 0.0017768345644206100 | 0.03435020620869070 | 0.0012821095547759700 | -0.0001519060364375300 | 0.003918390411242190 | 0.9245766233766230 | 0.026981649030069500 | 0.153524214 | 0.010921093887829400 | Ger | grid\_buffer\_on |
| 0.9839478051877170 | 0.0037115522381315600 | 0.06985853000625510 | 0.006239520798155800 | -0.00417203485904229 | 0.005972326807722750 | 0.8832774491213440 | 0.023193384185667800 | 0.232443161 | 0.027678196469330300 | Pro | pixel\_nobuffer\_off |
| 0.9800016671964690 | 0.005295578753194400 | 0.07891267644480400 | 0.005826935378767120 | -0.01589382937561070 | 0.00666579411591995 | 0.8665537730479180 | 0.04459659827071410 | 0.244439244 | 0.02827809117773870 | Pro | pixel\_nobuffer\_on |
| 0.992957382995755 | 0.0012299428626232800 | 0.03158977343275280 | 0.0018847936913389300 | -0.00333800750951532 | 0.0018411544608621800 | 0.9128047527163810 | 0.01514374660975070 | 0.134974801 | 0.01315108106913910 | Pro | pixel\_buffer\_off |
| 0.9895443899124130 | 0.004112403789626890 | 0.03917503760601440 | 0.0018594921384044000 | -0.012219304088477600 | 0.0038886773322630100 | 0.9042731903755160 | 0.025241885531741100 | 0.18485585000000000 | 0.017434458967105300 | Pro | pixel\_buffer\_on |
| 0.98291396858955 | 0.004285104936247820 | 0.04783916075169840 | 0.002685719339230280 | -0.01845887324517950 | 0.0034313794495321700 | 0.8694963757173060 | 0.02923266364014160 | 0.17415586700000000 | 0.02797667292395470 | Pro | grid\_nobuffer\_off |
| 0.9789166742172560 | 0.006532910068611070 | 0.05778257557677800 | 0.004618124358005330 | -0.03031033310546660 | 0.003397225630181000 | 0.8731740159065740 | 0.031526485811600000 | 0.179913512 | 0.01725242510933050 | Pro | grid\_nobuffer\_on |
| 0.9928335095137420 | 0.002700766510059530 | 0.0322146645008098 | 0.002722618666848870 | -0.0037987212366831600 | 0.0015398024841616100 | 0.919228370079533 | 0.028752340398460800 | 0.14117256900000000 | 0.019675249947251700 | Pro | grid\_buffer\_off |
| 0.9889052476593180 | 0.004142257021254600 | 0.0393817729869254 | 0.003843704478698560 | -0.01226287228028080 | 0.002685462088275920 | 0.9025516258934870 | 0.03580591202563020 | 0.144844405 | 0.011058989958195300 | Pro | grid\_buffer\_on |
| 0.997372221506968 | 0.0014806883567672200 | 0.02723071810584490 | 0.0030086478414584100 | 0.009779677930947560 | 0.0036433762566678800 | 0.9626013395921200 | 0.03076934533880580 | 0.207214932 | 0.02678448333410510 | Lon | pixel\_nobuffer\_off |
| 0.9949743464642420 | 0.0027913964643479400 | 0.03167333787613440 | 0.003820292744817160 | 0.0043702829923024000 | 0.002931218373281580 | 0.9674174313286590 | 0.017378946612311700 | 0.18147577300000000 | 0.008445402628717050 | Lon | pixel\_nobuffer\_on |
| 0.9996692673549070 | 0.00023610959257687100 | 0.01050795370233000 | 0.001096085052154800 | 0.005167509112326700 | 0.0008744449065488940 | 0.9851878737878740 | 0.017263988781662700 | 0.13537828400000000 | 0.015461816712797500 | Lon | pixel\_buffer\_off |
| 0.9975931653491440 | 0.0013384259219129300 | 0.014781224556357000 | 0.0015705111710531200 | 6.665388953982E-05 | 0.0010335399167758300 | 0.9771878787878790 | 0.016717151087905900 | 0.15556028500000000 | 0.03178490883595870 | Lon | pixel\_buffer\_on |
| 0.9977035737812910 | 0.0008267342436110100 | 0.01369812211536160 | 0.0008402595696451880 | 0.0023203005752976000 | 0.000909913259751375 | 0.9564110671936760 | 0.03390876117094060 | 0.107948819 | 0.016873172176900500 | Lon | grid\_nobuffer\_off |
| 0.9955028562017690 | 0.0020118721353979400 | 0.01871747462283180 | 0.002372005532675950 | -0.0035965537083832300 | 0.0023772935724752000 | 0.9595376811594200 | 0.02656480502063760 | 0.10974356600000000 | 0.02417803396159130 | Lon | grid\_nobuffer\_on |
| 0.9993869400527010 | 0.0004410861353566090 | 0.010919642102583100 | 0.0014578023823399000 | 0.00472626273626438 | 0.0010427176444067400 | 0.9773333333333330 | 0.03422150071389480 | 0.15056775500000000 | 0.014561804276805300 | Lon | grid\_buffer\_off |
| 0.997588059947299 | 0.001264324452897640 | 0.014756479498211100 | 0.001357894951797370 | 0.0002293044977071110 | 0.0016727667881901800 | 0.9770545454545460 | 0.013470825531342300 | 0.101046831 | 0.014325264963221100 | Lon | grid\_buffer\_on |
| 0.9884180408622260 | 0.0025468636240445800 | 0.04265468127340810 | 0.0034040586696710100 | -0.00648543370905284 | 0.004298928192825240 | 0.909968560267782 | 0.015267846613125100 | 0.129995122 | 0.02392527619533650 | Rub | pixel\_nobuffer\_off |
| 0.9801812423363480 | 0.003775924320791060 | 0.05854267570401840 | 0.0039287470907154700 | -0.025225743861798300 | 0.007271704809116110 | 0.893631903014491 | 0.02947788434163250 | 0.171197375 | 0.031255532115116000 | Rub | pixel\_nobuffer\_on |
| 0.9950222530069860 | 0.0028576059387990600 | 0.016872297274853300 | 0.0024126716269316000 | -0.0022772476446258300 | 0.0021441136606986000 | 0.9268053995880080 | 0.04520551541060910 | 0.14454106700000000 | 0.029194866955518400 | Rub | pixel\_buffer\_off |
| 0.9895311053077360 | 0.002932366812590160 | 0.029583442186686200 | 0.0017898308703526700 | -0.015942216085694700 | 0.001726979058482490 | 0.9165182006399400 | 0.03311227377866440 | 0.095518433 | 0.01745263548935870 | Rub | pixel\_buffer\_on |
| 0.9890019965179750 | 0.0027636878968643700 | 0.029537281559699400 | 0.002667141789815350 | -0.014107538279088200 | 0.0031129047488953600 | 0.9023656126482220 | 0.03698788880781630 | 0.151296335 | 0.02345939677372850 | Rub | grid\_nobuffer\_off |
| 0.9795501915113870 | 0.004876826077488960 | 0.04482007867396970 | 0.003131198370077620 | -0.030404965525953600 | 0.0035391786200103300 | 0.8976186335403730 | 0.03349223292742950 | 0.17404315000000000 | 0.027226853684522900 | Rub | grid\_nobuffer\_on |
| 0.9951015029173720 | 0.0030831304550884400 | 0.017897771240739700 | 0.002928063900184430 | -0.00341093160703011 | 0.0026221970764116400 | 0.923321739130435 | 0.045369877501477200 | 0.129122714 | 0.018060872246915000 | Rub | grid\_buffer\_off |
| 0.9906698451910410 | 0.003098859250988750 | 0.028206373163308100 | 0.0014190327353788500 | -0.014548565637518200 | 0.002439692997709080 | 0.9157344438170530 | 0.04079609567834280 | 0.126186922 | 0.01604944425508550 | Rub | grid\_buffer\_on |
| 0.9980136151356800 | 0.0012385801071550100 | 0.02457907124525120 | 0.0024588757744806300 | 0.01100514520602200 | 0.0035926856739762000 | 0.9704852470874480 | 0.019310875282860600 | 0.191506026 | 0.03320565496060130 | Pal | pixel\_nobuffer\_off |
| 0.9975408971890720 | 0.0012758319067064300 | 0.026260818231164400 | 0.002103083694107380 | 0.008264929479642 | 0.0017600409770533700 | 0.9718728884480680 | 0.016975231739161500 | 0.161869501 | 0.00952569552098686 | Pal | pixel\_nobuffer\_on |
| 0.9995423390436340 | 0.00045802632622295600 | 0.00946655767429228 | 0.0007771677053715380 | 0.00536194395589538 | 0.0008689985512505310 | 0.978195294057354 | 0.02143130813936560 | 0.13108640000000000 | 0.019516089681627800 | Pal | pixel\_buffer\_off |
| 0.9993992047807270 | 0.0007676541683648920 | 0.01067802331713600 | 0.0014654520774000400 | 0.0036239530204388500 | 0.001143386764666770 | 0.9792588932806330 | 0.020609626255007700 | 0.138916867 | 0.012329287252778300 | Pal | pixel\_buffer\_on |
| 0.9981626115189160 | 0.0013358935587186200 | 0.01261312266950940 | 0.0016812668784468200 | 0.0027043285708087700 | 0.0022779200614115200 | 0.9677703557312250 | 0.04162224802956570 | 0.14710969300000000 | 0.024062544732006200 | Pal | grid\_nobuffer\_off |
| 0.9978700898738940 | 0.001490283757331940 | 0.01370249905136290 | 0.002282835400361900 | 0.0008138173585353690 | 0.0017341279284976000 | 0.9620974025974030 | 0.03680945773907320 | 0.10545882600000000 | 0.006461222256895670 | Pal | grid\_nobuffer\_on |
| 0.9995568812347070 | 0.0005146760300596160 | 0.009603970054129730 | 0.0008453246709314780 | 0.005319767217199400 | 0.0013775812356047600 | 0.9823043478260870 | 0.01995028793420890 | 0.133681934 | 0.028747898973617900 | Pal | grid\_buffer\_off |
| 0.9992610695463960 | 0.0008028780243122400 | 0.011262661357296900 | 0.001280710419581550 | 0.0029277864382622200 | 0.0007529799606069440 | 0.9726424242424240 | 0.02639339595168200 | 0.097947812 | 0.04965063637958650 | Pal | grid\_buffer\_on |
| 0.9959985793129810 | 0.001418945987216640 | 0.02502022851284380 | 0.002398047577602070 | 0.0074017094868637400 | 0.003831770571181740 | 0.9647510729868620 | 0.02287539360777170 | 0.21948756200000000 | 0.027516314798531000 | Bar | pixel\_nobuffer\_off |
| 0.9957166274875730 | 0.0018386366439015700 | 0.02633144543829380 | 0.0027088009304260300 | 0.004700577811830930 | 0.0034128391583930100 | 0.9730582422643720 | 0.022288574631260900 | 0.253533283 | 0.03178509239705090 | Bar | pixel\_nobuffer\_on |
| 0.9994095243579450 | 0.00040300165307415900 | 0.00928496361153243 | 0.0012028479518224500 | 0.00413669740791493 | 0.0009321209940344840 | 0.97453643890486 | 0.025233642380228400 | 0.16872461700000000 | 0.056972535134124200 | Bar | pixel\_buffer\_off |
| 0.9994726315789480 | 0.0002725970309343190 | 0.01017349120037210 | 0.0011581779339906300 | 0.00247593905413035 | 0.0012781781459551300 | 0.9806368421052630 | 0.02042463953848400 | 0.138599809 | 0.051310801272884300 | Bar | pixel\_buffer\_on |
| 0.997607105263158 | 0.0014872039848389100 | 0.01251819132502540 | 0.0019964668756085600 | 0.0011457719687060400 | 0.0019530271916215100 | 0.9729736842105260 | 0.021615056438046900 | 0.15242373800000000 | 0.04235519360021620 | Bar | grid\_nobuffer\_off |
| 0.9967136842105260 | 0.0012105719671025100 | 0.01448401083508190 | 0.0023357191220402600 | -0.00135919728559106 | 0.0019745993474819200 | 0.9725368421052630 | 0.02326696563264510 | 0.22608848300000000 | 0.027783812316628200 | Bar | grid\_nobuffer\_on |
| 0.9995959442724460 | 0.00035480041495405800 | 0.00895245679652476 | 0.001105329840272130 | 0.004426456279796330 | 0.0009616622383558840 | 0.9896000000000000 | 0.014967965793654100 | 0.134116408 | 0.014469442059843800 | Bar | grid\_buffer\_off |
| 0.9997094736842110 | 0.00015597606180419100 | 0.009790889235435610 | 0.0009975453955013780 | 0.00284906071830799 | 0.0008221275645812410 | 0.9802 | 0.02292509541964880 | 0.22824124900000000 | 0.040877343676884500 | Bar | grid\_buffer\_on |
| 0.9991547412697970 | 0.0007090283840642180 | 0.01622327951302950 | 0.0021161072318118200 | 0.006244474955144120 | 0.00283897333178973 | 0.9767805594980750 | 0.035637113278788500 | 0.133659856 | 0.05402532779378950 | Mex | pixel\_nobuffer\_off |
| 0.9964617729152120 | 0.0018512524137378600 | 0.023492611919834800 | 0.0036345529053513200 | -0.0026821701996949300 | 0.004750768740325160 | 0.9584118387579010 | 0.03480997078615750 | 0.26060650000000000 | 0.0495357530498118 | Mex | pixel\_nobuffer\_on |
| 0.9995764346864350 | 0.0006014540898233330 | 0.00679019250451113 | 0.001046098247766150 | 0.00231374413205976 | 0.0013167686029133500 | 0.9818992966992970 | 0.03614202329847450 | 0.161887761 | 0.11124597928240600 | Mex | pixel\_buffer\_off |
| 0.9968351190476190 | 0.0018640373204317500 | 0.013536642145705700 | 0.0015696126343720000 | -0.00509976745465812 | 0.0019664798622891100 | 0.9615648351648350 | 0.028317177784202200 | 0.110797899 | 0.04145910026546050 | Mex | pixel\_buffer\_on |
| 0.9983083699633700 | 0.0010923542100896200 | 0.008832977584121950 | 0.0011141432418066800 | 0.00047426251257677 | 0.0015619685125224000 | 0.9576315018315020 | 0.04457831887483060 | 0.192333292 | 0.025527074951023200 | Mex | grid\_nobuffer\_off |
| 0.9973526831501830 | 0.0009425555568187020 | 0.012535324461933500 | 0.0014170035059083300 | -0.004412437974674510 | 0.0016383883949905800 | 0.9635071428571430 | 0.024319607651574600 | 0.085206826 | 0.020395808303390800 | Mex | grid\_nobuffer\_on |
| 0.9997124175824180 | 0.0005330052841780710 | 0.0064502681464481600 | 0.0005630069193389430 | 0.00255590048639425 | 0.0009393705162969210 | 0.9630153846153850 | 0.04611882745572420 | 0.27765847600000000 | 0.08250039883905260 | Mex | grid\_buffer\_off |
| 0.9982872435897440 | 0.0008886085769477050 | 0.010675172269565000 | 0.0010754863645583000 | -0.0025451821084018100 | 0.0016448920228733800 | 0.9699648351648350 | 0.026788798041705000 | 0.130869135 | 0.055066020927965000 | Mex | grid\_buffer\_on |
| 0.9830195380921170 | 0.007041860736572790 | 0.03292130685376440 | 0.005923336279471210 | -0.01650263516256040 | 0.008709410332031460 | 0.8400851744868820 | 0.0858930914392173 | 0.12000479500000000 | 0.011605606857517800 | Lec | pixel\_nobuffer\_off |
| 0.9798668604444260 | 0.008315064345055350 | 0.043425745886259300 | 0.003911424748575990 | -0.028739284539836400 | 0.004769296775110750 | 0.8554512392937210 | 0.07481258507660260 | 0.136689712 | 0.02374689463664240 | Lec | pixel\_nobuffer\_on |
| 0.9858529378074830 | 0.011627075650634700 | 0.014754230300010700 | 0.0015304052875019900 | -0.00833777790520149 | 0.00279205185665447 | 0.8532408872408870 | 0.09682194226218960 | 0.074769442 | 0.031121303563198900 | Lec | pixel\_buffer\_off |
| 0.9785742424242420 | 0.022935809589912900 | 0.02322991545330860 | 0.0015275424194400300 | -0.017403291505695400 | 0.001730050497944570 | 0.8413959595959600 | 0.04782331607332300 | 0.039673823000000000 | 0.00628483562693576 | Lec | pixel\_buffer\_on |
| 0.9795994949494950 | 0.012866877933291700 | 0.024399481259437700 | 0.001774103075942820 | -0.01676949387361160 | 0.0015945400929644300 | 0.8281777777777780 | 0.08212575722634160 | 0.086020821 | 0.03138111877587940 | Lec | grid\_nobuffer\_off |
| 0.9763566666666660 | 0.019092766600083400 | 0.03933804368209460 | 0.003744435172645490 | -0.03339188623591590 | 0.005366637111044940 | 0.7843828282828280 | 0.11118650081953900 | 0.162881076 | 0.11102163741942500 | Lec | grid\_nobuffer\_on |
| 0.9876484848484850 | 0.008856082988396050 | 0.01398273265610090 | 0.0016322071391324300 | -0.00707243824568068 | 0.0018470180137806300 | 0.8543878787878790 | 0.06073398841876010 | 0.087804314 | 0.027849012486302700 | Lec | grid\_buffer\_off |
| 0.9819885858585860 | 0.01862269783258650 | 0.021810223812150500 | 0.002312672932436060 | -0.016067883532006800 | 0.003279838532484450 | 0.810651515151515 | 0.09992765082522970 | 0.145232885 | 0.09422845411693910 | Lec | grid\_buffer\_on |
| 0.9899692947538450 | 0.007223530640303620 | 0.020797821191016900 | 0.004090347689187690 | -0.00934093408951539 | 0.004383512785222290 | 0.8347510864844010 | 0.1158968539602060 | 0.31130911 | 0.060589184515958300 | Rec | pixel\_nobuffer\_off |
| 0.9737729361832240 | 0.01396510895815940 | 0.05304046085127460 | 0.005625860769915340 | -0.04223133666673130 | 0.006955701582698400 | 0.8605475053983410 | 0.06781545689075690 | 0.213822665 | 0.023812290121786400 | Rec | pixel\_nobuffer\_on |
| 0.9929153658528660 | 0.0062266024845487500 | 0.010926795259623700 | 0.0015087129013370800 | -0.006526853131513890 | 0.0018587316479258000 | 0.8874759810759810 | 0.08287355077840500 | 0.14142222500000000 | 0.030627376980413500 | Rec | pixel\_buffer\_off |
| 0.9820291666666670 | 0.009977864691456880 | 0.03664883245127070 | 0.0034047264326756800 | -0.0322305863585767 | 0.004827268052111320 | 0.8708285714285710 | 0.08466321756325630 | 0.197406125 | 0.037569338463002800 | Rec | pixel\_buffer\_on |
| 0.9894190476190480 | 0.009330516232409910 | 0.016694288135773800 | 0.002832712801066210 | -0.01236118383158070 | 0.00331353605992232 | 0.8730714285714290 | 0.11982826571934600 | 0.220070699 | 0.026042478215895400 | Rec | grid\_nobuffer\_off |
| 0.9750714285714290 | 0.011271678219115700 | 0.04634372149101820 | 0.003631863262036400 | -0.04207590923542740 | 0.003114082178973890 | 0.8810619047619050 | 0.07279515897412430 | 0.228556078 | 0.06867302571140640 | Rec | grid\_nobuffer\_on |
| 0.992217857142857 | 0.005035301401513230 | 0.01179684739387340 | 0.0012897013477167400 | -0.00762075179237587 | 0.0017131732949704300 | 0.8944714285714280 | 0.06359977056819100 | 0.12166727 | 0.056285412241991600 | Rec | grid\_buffer\_off |
| 0.9788040476190480 | 0.00887973321135048 | 0.0420592920712676 | 0.001990037427591270 | -0.03786203236549750 | 0.0018989017718048300 | 0.8571142857142860 | 0.08698310415341170 | 0.28155793000000000 | 0.03550995443826000 | Rec | grid\_buffer\_on |
| 0.9968734330665000 | 0.0039126129863619600 | 0.011768898866186600 | 0.0038537117317044300 | 0.00062664862586763 | 0.0024264281485503300 | 0.9211859085651570 | 0.13128090598527500 | 0.151195876 | 0.02124981556987030 | Maz | pixel\_nobuffer\_off |
| 0.9965518436889470 | 0.0021839100430378700 | 0.01456407391663820 | 0.0027460380185601400 | -0.0038445720378402400 | 0.0031823925231843300 | 0.9613004318672580 | 0.05253664044254370 | 0.275315716 | 0.03875116515119800 | Maz | pixel\_nobuffer\_on |
| 0.9986194136569140 | 0.0020163307434358700 | 0.00511320173386556 | 0.0014525557718615100 | -9.00276852747675E-05 | 0.0011563978734134900 | 0.9283433546433550 | 0.0938818185420516 | 0.197006558 | 0.03841628976190900 | Maz | pixel\_buffer\_off |
| 0.9980494047619050 | 0.0010595908552890600 | 0.007882925264118650 | 0.0011020138100107300 | -0.0036124195685799100 | 0.0011411000260516400 | 0.9777000000000000 | 0.03666619696668850 | 0.17236247 | 0.041467416472520000 | Maz | pixel\_buffer\_on |
| 0.9981797619047620 | 0.0016821428571429300 | 0.0060568457725921 | 0.00183361486691626 | -0.0012134574886296200 | 0.00201259058825969 | 0.9359571428571430 | 0.11439642940767200 | 0.14524036200000000 | 0.03252144492551210 | Maz | grid\_nobuffer\_off |
| 0.9964785714285710 | 0.0015105243041637800 | 0.011267987712607500 | 0.0020605076971390000 | -0.007092679347343720 | 0.002088199677609240 | 0.97 | 0.035527454172794300 | 0.149139555 | 0.03908458025532810 | Maz | grid\_nobuffer\_on |
| 0.9992392857142860 | 0.0007421012637869950 | 0.0049794464843029 | 0.0012562500812182100 | -0.00033973968338238 | 0.0016226794256593000 | 0.9440000000000000 | 0.08131543518914480 | 0.17055502400000000 | 0.06050781334368480 | Maz | grid\_buffer\_off |
| 0.998347619047619 | 0.0008618595423548540 | 0.00812806002970238 | 0.0015062266227263900 | -0.00422640078476177 | 0.001385973441419890 | 0.9760142857142860 | 0.04274979174075070 | 0.17785751300000000 | 0.02678422899050190 | Maz | grid\_buffer\_on |
| 0.9774387293923060 | 0.00856887876707297 | 0.03888666162016470 | 0.004166888629339460 | -0.02723520527357930 | 0.006461413693003090 | 0.7924646307000810 | 0.1535978794922300 | 0.213153565 | 0.039673882307338200 | Hir | pixel\_nobuffer\_off |
| 0.9598856979148060 | 0.017142761330717800 | 0.06539374023389630 | 0.00713902537715695 | -0.05447492952967560 | 0.006904138800926080 | 0.7949380611433120 | 0.13487515293411200 | 0.197741923 | 0.0328172284168758 | Hir | pixel\_nobuffer\_on |
| 0.9852665902794470 | 0.011176297538254700 | 0.020772808428856700 | 0.0020457363689276000 | -0.0159558156239483 | 0.0028177103157126 | 0.8580970152970150 | 0.11941680440285200 | 0.068667896 | 0.028507738115407600 | Hir | pixel\_buffer\_off |
| 0.9712505952380950 | 0.014328708331195800 | 0.04036046051033640 | 0.003342150019145530 | -0.03598583856043850 | 0.003583429639594420 | 0.8170285714285710 | 0.12461347259032800 | 0.143109456 | 0.014100536257943000 | Hir | pixel\_buffer\_on |
| 0.9804648809523810 | 0.011767961825413000 | 0.0278020842808873 | 0.002737634656582900 | -0.02295709128636240 | 0.003043533959853400 | 0.7990666666666670 | 0.15702093278710700 | 0.15206451300000000 | 0.03945124813444030 | Hir | grid\_nobuffer\_off |
| 0.9722855952380950 | 0.011120269389003700 | 0.051424770254898100 | 0.0031409058559086300 | -0.04721219205350030 | 0.003770675309837180 | 0.8191619047619050 | 0.12081135798296100 | 0.193450944 | 0.04697152613596950 | Hir | grid\_nobuffer\_on |
| 0.9852000000000000 | 0.008265507654103640 | 0.02264130917633930 | 0.0022540261659308100 | -0.017817835906777200 | 0.0024304573140683100 | 0.8409761904761900 | 0.09451856348642540 | 0.11394825400000000 | 0.01914885005408330 | Hir | grid\_buffer\_off |
| 0.9758029761904760 | 0.014288715074219200 | 0.04408242358059090 | 0.003233093936295100 | -0.03975307126245160 | 0.004706175571278190 | 0.8209761904761910 | 0.16078223078736500 | 0.188731691 | 0.025969878677505000 | Hir | grid\_buffer\_on |
| 0.9833776433242930 | 0.022605062072099700 | 0.022982263824709400 | 0.003981331112767970 | -0.01507763178062490 | 0.0044840059976938200 | 0.900932933698199 | 0.10218395474244000 | 0.165747261 | 0.06007728562727000 | Ind | pixel\_nobuffer\_off |
| 0.9609541898700610 | 0.06482321328014960 | 0.05301923715625930 | 0.005908798255666830 | -0.046338769361931700 | 0.007815892378095550 | 0.8313899306739410 | 0.1875173796713980 | 0.296724139 | 0.0693780522111759 | Ind | pixel\_nobuffer\_on |
| 0.9862633604619180 | 0.018987823858768000 | 0.01543559579909750 | 0.003563713724221670 | -0.01218983014937090 | 0.004459108067213610 | 0.8931022686812260 | 0.10380836976708000 | 0.08270465500000000 | 0.026175917252364000 | Ind | pixel\_buffer\_off |
| 0.96678 | 0.059520471174957000 | 0.03912175722949640 | 0.005157102036260460 | -0.036470441634567900 | 0.0063957842314889900 | 0.8746 | 0.10141222805953900 | 0.211938803 | 0.03745608400758180 | Ind | pixel\_buffer\_on |
| 0.98552 | 0.013981062191407300 | 0.01802223577376520 | 0.0019652784270150700 | -0.01458052087299460 | 0.0017858832603835700 | 0.8438000000000000 | 0.16379059802076600 | 0.18360464 | 0.0809322839398181 | Ind | grid\_nobuffer\_off |
| 0.9581116666666670 | 0.07156749341627730 | 0.04446252899216550 | 0.004300954741160280 | -0.041778796469723100 | 0.004560019918225400 | 0.8691666666666670 | 0.10570895578584300 | 0.192332407 | 0.09127678709761440 | Ind | grid\_nobuffer\_on |
| 0.9897483333333330 | 0.010988737795276300 | 0.012624845445936200 | 0.0018833455567978700 | -0.00936170084097257 | 0.0023720549081322200 | 0.8782333333333330 | 0.13573021034390200 | 0.146845155 | 0.032463667405331800 | Ind | grid\_buffer\_off |
| 0.9694550000000000 | 0.05653879987819570 | 0.03622552774044090 | 0.00367469954742479 | -0.03369782880889280 | 0.004326318002923200 | 0.9005000000000000 | 0.08429383132827690 | 0.18986022500000000 | 0.03927095033346590 | Ind | grid\_buffer\_on |

**2.3 Evaluation Metrics of Downsample Random Forest**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| auc\_mean | auc\_std | mae\_mean | mae\_std | bias\_mean | bias\_std | tss\_mean | tss\_std | tss\_threshold\_mean | tss\_threshold\_std | species | method\_name |
| 0.9970529024813080 | 0.0013089742434356100 | 0.03433562476161310 | 0.004058149814626280 | -0.026309263576799300 | 0.004189213118290700 | 0.9497671159710040 | 0.011592362597400500 | 0.6383000000000000 | 0.01751113931187800 | San | pixel\_buffer\_off |
| 0.9994405462296180 | 0.00025444595798791900 | 0.015529504903282600 | 0.0024846736731700700 | -0.01305291171365540 | 0.0032154743979135400 | 0.9784797352122900 | 0.011847302452678600 | 0.6961000000000000 | 0.011452510641776300 | Dim | pixel\_buffer\_off |
| 0.9988998765499120 | 0.0006141907445223470 | 0.03088506978859920 | 0.0019772345947726100 | -0.0265668175813338 | 0.003007826074869960 | 0.950659089436687 | 0.019820679543291400 | 0.6967000000000000 | 0.010067770358922600 | Ger | pixel\_buffer\_off |
| 0.992728191884772 | 0.001172989779291790 | 0.057211264608964000 | 0.00397333177690435 | -0.04990387755019880 | 0.004569914460541150 | 0.8955648468183350 | 0.030920573914427400 | 0.6770000000000000 | 0.02284928882919550 | Pro | pixel\_buffer\_off |
| 0.9993152005937250 | 0.0005520467281219170 | 0.02112840376035950 | 0.004672632837407810 | -0.01975236334227320 | 0.004496413785861790 | 0.9718062138670830 | 0.02789192030850750 | 0.6950000000000000 | 0.04176948647038890 | Lon | pixel\_buffer\_off |
| 0.9945187380897360 | 0.002833085017509960 | 0.04792170637027280 | 0.005470745902416540 | -0.044859082907901800 | 0.005279927623416680 | 0.922501852906201 | 0.03924580021547890 | 0.6801 | 0.029393196491705300 | Rub | pixel\_buffer\_off |
| 0.9995659808189380 | 0.00034211414940534500 | 0.0179195329112252 | 0.0022543124245775500 | -0.01695482818900290 | 0.002492843165274290 | 0.9746465688683010 | 0.02239031951740580 | 0.715221 | 0.03542433300712940 | Pal | pixel\_buffer\_off |
| 0.9993682758209080 | 0.0004928919991738570 | 0.020573533438749400 | 0.0016689372288310300 | -0.019395675192577600 | 0.001405740587856270 | 0.9590366383050590 | 0.023901459273882200 | 0.7297 | 0.014427751037497200 | Bar | pixel\_buffer\_off |
| 0.9993918481380390 | 0.0005500535398395500 | 0.025257918941922500 | 0.0025112105329175200 | -0.024597929087780800 | 0.0024563956508714000 | 0.9622145322645320 | 0.04411154097384550 | 0.8123000000000000 | 0.011993331480451900 | Mex | pixel\_buffer\_off |
| 0.9902289353385310 | 0.009009384479253500 | 0.07854774693742090 | 0.0042709621432828500 | -0.07642904070292600 | 0.004596968948385160 | 0.8703116079116080 | 0.10045054296209800 | 0.6733 | 0.012427389106324800 | Lec | pixel\_buffer\_off |
| 0.9899353720764440 | 0.007471650873072870 | 0.07445331137146250 | 0.005995950872557440 | -0.07307947729928470 | 0.006632481494524030 | 0.8362907602907600 | 0.11092143655343800 | 0.7842 | 0.024409219569662600 | Rec | pixel\_buffer\_off |
| 0.9983531322070010 | 0.0015427888635129300 | 0.030564054845193400 | 0.003702301493307770 | -0.03004809500440350 | 0.004029193163407250 | 0.9237432523432520 | 0.10876569453573200 | 0.8615000000000000 | 0.02238392280186830 | Maz | pixel\_buffer\_off |
| 0.9833771659194870 | 0.006146297560849560 | 0.08685932075797510 | 0.0029213350249534700 | -0.0853353178906906 | 0.002903137834060790 | 0.8211367807367810 | 0.12850211095323100 | 0.7664 | 0.030375154320595600 | Hir | pixel\_buffer\_off |
| 0.9870340656582240 | 0.009098099171015280 | 0.08275472463224320 | 0.008617228131500950 | -0.08169070096307980 | 0.00876387132955947 | 0.73900188569407 | 0.17818430293422700 | 0.7888144 | 0.026358276617411800 | Ind | pixel\_buffer\_off |