

**Anhang F**

**Koordinatenlisten**  
**(LV03 / LV95)**

**Anhang F1**

**Koordinatenliste TSP**  
(LV03<sub>original</sub> / LV95<sub>gemessen</sub>)

# LISTE DES POINTS

| Punktnummer Kanton FR | Punktnummer CH | LV03 - Ausgangskordinaten |             |                      | LV95 - Koordinaten |               | Weitere Höhenangaben<br>"gemessen"<br>(Nicht verwenden in<br>der AV) |                        | Herkunft<br>der LV95<br>(Mess-<br>methode) |          |              |            |                               | Bemerkungen | Herkunft der Messungen | Qualitätsstandard<br>(Reihenfolge<br>Verwendung) | LFP2 |
|-----------------------|----------------|---------------------------|-------------|----------------------|--------------------|---------------|--|------------------------|--|----------|--------------|------------|-------------------------------|-------------|------------------------|--|------|
|                       |                | Y_03                      | X_03        | alt. usuelle<br>H_02 | Y_95               | X_95          | Landeshöhen -<br>CHGeo2004<br>H_LHN95                                | Ellips. Höhe<br>H_LV95 | SR ... X                                   | RX ... X | Swipos ... X | Kombiniert | Swiestopo                     |             |                        |  |      |
| 201211640607          | 11646070       | 562'995.440               | 197'378.360 | 430.770              | 2'562'995.420      | 1'197'378.551 | 430.730  | 430.012                | x  |          |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 228111650220          | 11652200       | 571'692.580               | 199'376.180 | 492.480              | 2'571'692.557      | 1'199'376.369 | 492.428  | 491.719                | x  |          | x            |            |                               |             | PAT_FR                 | 2.1  | x    |
| 227511650430          | 11654300       | 576'843.690               | 198'064.360 | 515.498              | 2'576'843.689      | 1'198'064.502 | 515.452  | 514.717                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 227511650432          | 11654320       | 575'406.940               | 197'851.370 | 431.190              | 2'575'406.935      | 1'197'851.518 | 431.101  | 430.356                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 225911650518          | 11655180       | 577'178.690               | 200'733.230 | 432.660              | 2'577'178.723      | 1'200'733.415 | 432.559  | 431.865                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 227711650545          | 11655450       | 578'144.510               | 196'425.300 | 579.619              | 2'578'144.443      | 1'196'425.465 | 579.555  | 578.815                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 224411656256          | 11656256       | 580'703.910               | 199'734.500 | 544.400              | 2'580'703.951      | 1'199'734.677 | 544.326  | 543.627                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 225811650706          | 11657060       | 582'656.980               | 204'890.350 | 492.910              | 2'582'657.077      | 1'204'890.592 | 492.835  | 492.234                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 227811650746          | 11657460       | 581'209.850               | 197'382.160 | 547.620              | 2'581'209.863      | 1'197'382.354 | 547.623  | 546.902                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 200811843112          | 11841123       | 553'343.000               | 186'663.590 | 593.100              | 2'553'342.659      | 1'186'663.837 | 593.573  | 592.673                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 201511840206          | 11842060       | 554'116.600               | 189'224.530 | 430.790              | 2'554'116.308      | 1'189'224.861 | 430.754  | 429.899                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 203511840254          | 11842540       | 554'377.700               | 182'614.780 | 656.080              | 2'554'377.408      | 1'182'615.005 | 656.077  | 655.107                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 202011840326          | 11843260       | 556'368.570               | 186'560.880 | 507.310              | 2'556'368.281      | 1'186'561.079 | 507.282  | 506.351                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 201111840443          | 11844430       | 559'211.130               | 184'421.190 | 519.960              | 2'559'210.857      | 1'184'421.373 | 519.937  | 518.963                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 201411840725          | 11847250       | 565'065.150               | 188'666.600 | 468.390              | 2'565'065.069      | 1'188'666.908 | 468.340  | 467.430                | x  | x        |              |            | Punkt gemittelt mit VD +-1mm  |             | PAT_FR                 | 2.1  | x    |
| 202611840755          | 11847550       | 564'441.000               | 183'137.612 | 657.049              | 2'564'440.772      | 1'183'137.767 | 656.933  | 656.000                | x  | x        |              |            | MN03 (Noréaz)                 |             | PAT_FR                 | 2.1  | x    |
| 201311840806          | 11848060       | 566'202.260               | 191'915.520 | 439.100              | 2'566'202.170      | 1'191'915.782 | 439.020  | 438.157                | x  | x        |              |            | Punkt gemittelt mit VD +-4mm  |             | PAT_FR                 | 2.1  | x    |
| 202811840828          | 11848280       | 566'468.300               | 185'679.820 | 611.880              | 2'566'468.163      | 1'185'679.961 | 611.838  | 610.929                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 201311852014          | 11850142       | 567'669.510               | 190'653.610 | 441.510              | 2'567'669.377      | 1'190'653.904 | 441.467  | 440.596                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 221311850038          | 11850380       | 568'299.049               | 183'673.462 | 667.243              | 2'568'298.846      | 1'183'673.612 | 667.133  | 666.254                | x  | x        |              |            | MN03 (Noréaz)                 |             | PAT_FR                 | 2.1  | x    |
| 224911850134          | 11851340       | 570'851.870               | 187'920.900 | 627.380              | 2'570'851.776      | 1'187'921.064 | 627.318  | 626.474                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 217211850247          | 11852470       | 572'202.437               | 184'749.470 | 692.288              | 2'572'202.234      | 1'184'749.606 | 692.177  | 691.355                | x  | x        |              |            | MN03 (Noréaz)                 |             | PAT_FR                 | 2.1  | x    |
| 218311850345          | 11853450       | 574'882.710               | 184'808.550 | 647.340              | 2'574'882.562      | 1'184'808.691 | 647.292  | 646.504                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 225111850406          | 11854060       | 575'618.946               | 193'448.483 | 606.810              | 2'575'618.885      | 1'193'448.697 | 606.849  | 606.071                |  |          |              |            | LN02 Verschiebung             |             | PAT_FR                 | 2.1  | x    |
| 218011850444          | 11854440       | 575'113.619               | 187'809.862 | 681.098              | 2'575'113.492      | 1'187'810.054 | 681.112  | 680.321                | x  | x        |              |            | LN02 Verschiebung             |             | PAT_FR                 | 2.1  | x    |
| 219811850456          | 11854560       | 576'928.980               | 186'137.570 | 625.926              | 2'576'928.851      | 1'186'137.707 | 625.862  | 625.094                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 224311850525          | 11855250       | 577'299.360               | 189'930.030 | 667.620              | 2'577'299.231      | 1'189'930.155 | 667.564  | 666.794                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 219611856557          | 11855576       | 577'780.890               | 184'015.380 | 677.190              | 2'577'780.738      | 1'184'015.507 | 677.100  | 676.359                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 224311850612          | 11856120       | 579'510.068               | 191'982.368 | 615.713              | 2'579'509.992      | 1'191'982.506 | 615.753  | 615.001                | x  | x        |              |            | LN02 Verschiebung             |             | PAT_FR                 | 2.1  | x    |
| 219611850658          | 11856580       | 579'774.130               | 184'679.290 | 637.560              | 2'579'773.962      | 1'184'679.437 | 637.478  | 636.764                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 230411850671          | 11856710       | 580'364.145               | 182'169.440 | 750.419              | 2'580'363.995      | 1'182'169.628 | 750.361  | 749.694                | x  | x        |              |            | LN02 Verschiebung             |             | PAT_FR                 | 2.1  | x    |
| 229311850741          | 11857410       | 581'135.244               | 187'086.359 | 668.803              | 2'581'135.147      | 1'187'086.472 | 668.741  | 668.028                | x  | x        |              |            | LN02 Verschiebung             |             | PAT_FR                 | 2.1  | x    |
| 229311850749          | 11857490       | 581'046.180               | 185'540.230 | 702.535              | 2'581'046.039      | 1'185'540.359 | 702.506  | 701.807                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 229511850807          | 11858070       | 584'705.850               | 193'128.076 | 584.954              | 2'584'705.838      | 1'193'128.200 | 584.992  | 584.279                | x  | x        |              |            | LN02 Verschiebung             |             | PAT_FR                 | 2.1  | x    |
| 230511856831          | 11858316       | 584'553.730               | 188'942.540 | 710.630              | 2'584'553.710      | 1'188'942.621 | 710.617  | 709.936                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 230511860845          | 11868450       | 585'126.036               | 186'462.022 | 734.763              | 2'585'126.006      | 1'186'462.105 | 734.745  | 734.104                | x  | x        |              |            | LN02 Verschiebung (Neues Kart |             | PAT_FR                 | 2.1  | x    |
| 229111856859          | 11858596       | 583'639.960               | 184'354.750 | 767.446              | 2'583'639.878      | 1'184'354.805 | 767.408  | 766.773                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 229511860016          | 11860160       | 585'647.940               | 191'463.240 | 658.850              | 2'585'647.946      | 1'191'463.350 | 658.820  | 658.128                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |
| 230911860105          | 11861050       | 588'601.400               | 192'930.740 | 616.350              | 2'588'601.423      | 1'192'930.851 | 616.276  | 615.600                | x  | x        |              |            |                               |             | PAT_FR                 | 2.1  | x    |

LISTE DES POINTS

| Punktnummer Kanton FR | Punktnummer CH | LV03 - Ausgangskordinaten |             |                      | LV95 - Koordinaten |               | Weitere Höhenangaben<br>"gemessen"<br>(Nicht verwenden in<br>der AV) |                        | Herkunft<br>der LV95<br>(Mess-<br>methode) |          |              |            |           | Bemerkungen                      | Herkunft der Messungen | Qualitätsstandard<br>(Reihenfolge<br>Verwendung) | LFP2 |
|-----------------------|----------------|---------------------------|-------------|----------------------|--------------------|---------------|--|------------------------|--|----------|--------------|------------|-----------|----------------------------------|------------------------|--|------|
|                       |                | Y_03                      | X_03        | alt. usuelle<br>H_02 | Y_95               | X_95          | Landeshöhen -<br>CHGeo2004<br>H_LHN95                                | Ellips. Höhe<br>H_LV95 | SR ... X                                   | RX ... X | Swipos ... X | kombiniert | Swisstopo |                                  |                        |  |      |
| 229611860131          | 11861310       | 588'482.860               | 188'024.202 | 745.586              | 2'588'482.839      | 1'188'024.266 | 745.548  | 744.930                | x  |          |              |            |           | LN02 Verschiebung                | PAT_FR                 | 2.1  | x    |
| 229111860153          | 11861530       | 587'574.751               | 182'974.514 | 821.537              | 2'587'574.730      | 1'182'974.576 | 821.537  | 821.012                | x  |          |              |            |           | LN02 Verschiebung                | PAT_FR                 | 2.1  | x    |
| 230811860326          | 11863260       | 591'893.695               | 189'592.577 | 813.566              | 2'591'893.768      | 1'189'592.646 | 813.510  | 812.910                | x  |          |              |            |           | LN02 Verschiebung                | PAT_FR                 | 2.1  | x    |
| 204412040223          | 12042230       | 555'556.830               | 177'995.890 | 663.820              | 2'555'556.579      | 1'177'996.149 | 663.796  | 662.768                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 203712040235          | 12042350       | 554'525.910               | 175'638.500 | 676.540              | 2'554'525.656      | 1'175'638.805 | 676.466  | 675.420                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 206312040359          | 12043590       | 556'956.510               | 170'624.120 | 809.610              | 2'556'956.199      | 1'170'624.383 | 809.598  | 808.587                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 208312040540          | 12045400       | 561'562.678               | 174'018.333 | 770.791              | 2'561'562.410      | 1'174'018.512 | 770.756  | 769.818                | x  |          |              |            |           | LN02 Verschiebung                | PAT_FR                 | 2.1  | x    |
| 209612042560          | 12045602       | 560'032.570               | 171'387.300 | 766.020              | 2'560'032.255      | 1'171'387.508 | 766.010  | 765.055                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 208812040610          | 12046100       | 562'935.970               | 179'871.380 | 731.920              | 2'562'935.706      | 1'179'871.487 | "k.A."   | "k.A."                 | x  |          |              |            |           | auf exz. Gemessen                | PAT_FR                 | 2.1  | x    |
| 210912042628          | 12046282       | 563'685.676               | 176'486.587 | 764.200              | 2'563'685.425      | 1'176'486.717 | 764.143  | 763.228                | x  |          |              |            |           | LN02 Verschiebung                | PAT_FR                 | 2.1  | x    |
| 211112040635          | 12046350       | 563'115.830               | 175'089.820 | 747.420              | 2'563'115.585      | 1'175'090.000 | 747.388  | 746.471                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 206212040657          | 12046570       | 562'463.124               | 171'045.311 | 843.592              | 2'562'462.817      | 1'171'045.533 | 843.546  | 842.647                | x  |          |              |            |           | LN02 Verschiebung                | PAT_FR                 | 2.1  | x    |
| 217312050020          | 12050200       | 568'208.880               | 176'980.530 | 745.172              | 2'568'208.589      | 1'176'980.634 | 745.160  | 744.315                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 223112050151          | 12051510       | 570'122.020               | 171'442.920 | 1'119.987            | 2'570'121.726      | 1'171'443.068 | 1'169.992  | 1'169.283              | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 217412050201          | 12052010       | 571'736.562               | 181'675.128 | 712.955              | 2'571'736.364      | 1'181'675.258 | 712.850  | 712.029                | x  |          |              |            |           | MN03 (Noréaz)                    | PAT_FR                 | 2.1  | x    |
| 219312050230          | 12052300       | 571'693.547               | 175'729.906 | 740.296              | 2'571'693.276      | 1'175'730.022 | 740.292  | 739.528                | x  |          |              |            |           | LN02 Verschiebung                | PAT_FR                 | 2.1  | x    |
| 221912050315          | 12053150       | 573'582.460               | 179'095.330 | 687.318              | 2'573'582.259      | 1'179'095.442 | 687.335  | 686.563                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 218412050326          | 12053260       | 574'312.200               | 176'819.820 | 698.852              | 2'574'311.977      | 1'176'819.921 | 698.821  | 698.100                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 222612050432          | 12054320       | 576'977.478               | 175'614.703 | 833.167              | 2'576'977.255      | 1'175'614.768 | 833.181  | 832.570                | x  |          |              |            |           | LN02 Verschiebung                | PAT_FR                 | 2.1  | x    |
| 214712050452          | 12054520       | 575'632.840               | 171'914.420 | 877.575              | 2'575'632.558      | 1'171'914.523 | 877.550  | 876.982                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 220612050510          | 12055100       | 577'488.960               | 180'836.670 | 619.430              | 2'577'488.781      | 1'180'836.759 | 619.335  | 618.622                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 222012050623          | 12056230       | 580'033.900               | 178'203.150 | 790.827              | 2'580'033.685      | 1'178'203.234 | 790.816  | 790.226                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 222012050728          | 12057280       | 581'069.970               | 176'318.690 | 869.417              | 2'581'069.773      | 1'176'318.767 | 869.442  | 868.946                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 230112050807          | 12058070       | 584'656.670               | 179'958.080 | 916.733              | 2'584'656.529      | 1'179'958.139 | 916.720  | 916.214                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 230012060031          | 12060310       | 586'278.860               | 175'813.520 | 936.340              | 2'586'278.679      | 1'175'813.576 | 936.370  | 936.064                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 229112060113          | 12061130       | 588'243.110               | 179'368.960 | 871.460              | 2'588'243.104      | 1'179'368.998 | 871.439  | 871.044                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 229912060139          | 12061390       | 587'138.290               | 172'163.440 | 1'644.790            | 2'587'138.134      | 1'172'163.469 | 1'644.885  | 1'644.794              | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 229912060343          | 12063430       | 591'467.000               | 170'856.680 | 1'604.500            | 2'591'466.786      | 1'170'856.733 | 1'604.493  | 1'604.591              | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 210212240124          | 12241240       | 553'146.730               | 164'561.590 | 696.220              | 2'553'146.347      | 1'164'561.915 | 696.283  | 695.202                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 209912240212          | 12242120       | 555'510.200               | 167'251.090 | 854.558              | 2'555'509.815      | 1'167'251.401 | 854.588  | 853.564                | 2x   |          |              |            |           | gemittelt VD / LN02 Verschiebung | PAT_FR                 | 2.1  | x    |
| 206412240219          | 12242190       | 555'734.490               | 165'136.600 | 861.810              | 2'555'734.154      | 1'165'136.923 | 861.838  | 860.827                | 2x   |          |              |            |           | gemittelt VD                     | PAT_FR                 | 2.1  | x    |
| 209112240231          | 12242310       | 554'943.110               | 162'157.630 | 829.480              | 2'554'942.715      | 1'162'157.940 | 829.534  | 828.510                | x  |          |              |            |           | gemittelt VD                     | PAT_FR                 | 2.1  | x    |
| 232212240351          | 12243510       | 556'241.780               | 159'474.650 | 882.560              | 2'556'241.401      | 1'159'474.930 | 882.508  | 881.543                | 2x   |          |              |            |           | gemittelt VD                     | PAT_FR                 | 2.1  | x    |
| 209912240405          | 12244050       | 558'109.560               | 168'731.310 | 790.140              | 2'558'109.243      | 1'168'731.525 | 790.155  | 789.176                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 210012240427          | 12244270       | 559'731.040               | 165'043.510 | 936.800              | 2'559'730.668      | 1'165'043.755 | 936.833  | 935.932                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 232712240445          | 12244450       | 558'247.230               | 160'394.900 | 922.430              | 2'558'246.859      | 1'160'395.154 | 922.402  | 921.505                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 233512240458          | 12244580       | 558'223.740               | 158'006.620 | 867.980              | 2'558'223.357      | 1'158'006.883 | 867.949  | 867.076                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 215112240614          | 12246140       | 563'626.060               | 167'631.620 | 946.005              | 2'563'625.711      | 1'167'631.837 | 945.994  | 945.166                | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |
| 215212240634          | 12246340       | 563'350.251               | 163'357.594 | 862.092              | 2'563'349.891      | 1'163'357.801 | 862.008  | 861.232                | x  |          |              |            |           | LN02 Verschiebung                | PAT_FR                 | 2.1  | x    |
| 233612240751          | 12247510       | 564'330.230               | 158'842.210 | 1'412.666            | 2'564'329.795      | 1'158'842.444 | 1'412.630  | 1'412.027              | x  |          |              |            |           |                                  | PAT_FR                 | 2.1  | x    |

LISTE DES POINTS

| Punktnummer Kanton FR | Punktnummer CH | LV03 - Ausgangskordinaten |             |                      | LV95 - Koordinaten |               | Weitere Höhenangaben<br>"gemessen"<br>(Nicht verwenden in<br>der AV) |                        | Herkunft<br>der LV95<br>(Mess-<br>methode) |          |              |            |           | Bemerkungen                   | Herkunft der Messungen | Qualitätsstandard<br>(Reihenfolge<br>Verwendung) | LFP2 |
|-----------------------|----------------|---------------------------|-------------|----------------------|--------------------|---------------|--|------------------------|--|----------|--------------|------------|-----------|-------------------------------|------------------------|--|------|
|                       |                | Y_03                      | X_03        | alt. usuelle<br>H_02 | Y_95               | X_95          | Landeshöhen -<br>CHGeo2004<br>H_LHN95                                | Ellips. Höhe<br>H_LV95 | SR ... X                                   | RX ... X | Swipos ... X | Kombiniert | Swisstopo |                               |                        |  |      |
| 206712240801          | 12248010       | 566'893.405               | 169'853.790 | 1'034.531            | 2'566'893.065      | 1'169'854.015 | 1'034.464  | 1'033.704              | x  |          |              |            |           | LN02 Verschiebung             | PAT_FR                 | 2.1  | x    |
| 215512240818          | 12248180       | 566'956.313               | 164'761.775 | 951.585              | 2'566'955.944      | 1'164'761.943 | 951.585  | 950.890                | x  |          |              |            |           | LN02 Verschiebung             | PAT_FR                 | 2.1  | x    |
| 216012250021          | 12250210       | 568'974.220               | 162'491.990 | 822.610              | 2'568'973.865      | 1'162'492.134 | 822.621  | 822.024                | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 213512250033          | 12250330       | 568'424.860               | 159'463.260 | 1'309.014            | 2'568'424.514      | 1'159'463.511 | 1'308.905  | 1'308.409              | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 214012250117          | 12251170       | 569'714.670               | 166'958.690 | 910.322              | 2'569'714.297      | 1'166'958.820 | 910.308  | 909.649                | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 215312250209          | 12252090       | 571'995.070               | 168'715.380 | 737.980              | 2'571'994.755      | 1'168'715.515 | 737.952  | 737.320                | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 212512250231          | 12252310       | 571'864.420               | 164'588.570 | 762.940              | 2'571'864.056      | 1'164'588.682 | 762.915  | 762.353                | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 213512250251          | 12252510       | 571'823.400               | 158'653.040 | 790.149              | 2'571'823.019      | 1'158'653.143 | 790.180  | 789.807                | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 213712250404          | 12254040       | 576'205.170               | 169'584.230 | 933.519              | 2'576'204.864      | 1'169'584.317 | 933.599  | 933.124                | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 212812250437          | 12254370       | 575'936.420               | 162'299.730 | 860.110              | 2'575'936.116      | 1'162'299.844 | 860.217  | 859.923                | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 212412250449          | 12254490       | 576'174.020               | 159'746.940 | 1'829.060            | 2'576'173.637      | 1'159'747.096 | 1'829.081  | 1'828.917              | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 212712250718          | 12257180       | 581'680.420               | 165'053.560 | 1'498.157            | 2'581'680.112      | 1'165'053.610 | 1'498.259  | 1'498.207              | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 212712250734          | 12257340       | 581'893.930               | 161'250.350 | 893.854              | 2'581'893.655      | 1'161'250.449 | 893.976  | 894.051                | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 229912260105          | 12261050       | 588'456.550               | 168'831.350 | 1'046.681            | 2'588'456.364      | 1'168'831.355 | 1'046.636  | 1'046.729              | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 213812260137          | 12261370       | 588'228.690               | 161'847.040 | 1'093.850            | 2'588'228.443      | 1'161'847.040 | 1'093.893  | 1'094.215              | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 232112440233          | 12442330       | 555'197.640               | 151'646.110 | 821.830              | 2'555'197.265      | 1'151'646.475 | 821.794  | 820.827                | 5x   |          | 2x           |            |           | gemittelt VD                  | PAT_FR                 | 2.1  | x    |
| 232512440421          | 12444210       | 558'069.720               | 154'267.070 | 875.480              | 2'558'069.349      | 1'154'267.361 | 875.529  | 874.691                | 4x   |          | 2x           |            |           | gemittelt VD                  | PAT_FR                 | 2.1  | x    |
| 232512440539          | 12445390       | 561'340.440               | 151'326.360 | 1'399.660            | 2'561'339.978      | 1'151'326.665 | 1'399.708  | 1'399.113              | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 232512440615          | 12446150       | 562'288.900               | 155'031.070 | 1'493.520            | 2'562'288.435      | 1'155'031.312 | 1'493.554  | 1'492.958              | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 214212454043          | 12450434       | 568'199.860               | 147'739.960 | 1'108.819            | 2'568'199.419      | 1'147'740.115 | 1'108.853  | 1'108.658              | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 213912450136          | 12451360       | 570'921.960               | 149'983.020 | 873.556              | 2'570'921.610      | 1'149'983.180 | 873.650  | 873.524                | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 213412450215          | 12452150       | 572'201.140               | 154'553.590 | 772.679              | 2'572'200.798      | 1'154'553.696 | 772.738  | 772.538                | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 213312452305          | 12453052       | 574'221.970               | 156'870.850 | 777.580              | 2'574'221.678      | 1'156'870.992 | 777.616  | 777.437                | x  |          |              |            |           |                               | PAT_FR                 | 2.1  | x    |
| 213412459517          | 12455179       | 577'728.130               | 153'060.080 | 2'388.900            | 2'577'727.773      | 1'153'060.294 | 2'132.809  | 2'133.233              |  |          |              |            | x         | Vanil Noir (déjà FPDS) - alte | PAT_FR                 | 2.1  | x    |
| 212712460004          | 12460040       | 586'283.390               | 156'918.550 | 2'132.810            | 2'586'283.030      | 1'156'918.660 | 2'132.809  | 2'133.233              | x  |          |              |            |           | Wandfluh_48 (gem. -21/-7)     | PAT_FR                 | 2.1  | x    |
| 201211640611          | 11646110       | 563'385.920               | 196'354.580 | 465.340              | 2'563'385.891      | 1'196'354.753 | 465.337  | 464.588                |  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |
| 204111640823          | 11648230       | 566'282.010               | 194'160.580 | 435.400              | 2'566'281.935      | 1'194'160.737 | 435.332  | 434.514                |  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |
| 227511652330          | 11653302       | 574'241.960               | 196'562.090 | 442.300              | 2'574'241.924      | 1'196'562.282 | 442.191  | 441.425                | x  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |
| 225711650562          | 11655620       | 577'623.590               | 194'424.130 | 576.010              | 2'577'623.512      | 1'194'424.240 | 575.959  | 575.200                | x  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |
| 226211650640          | 11656400       | 580'250.100               | 194'367.570 | 540.700              | 2'580'250.032      | 1'194'367.684 | 540.556  | 539.812                | x  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |
| 203411840018          | 11840180       | 551'586.300               | 183'780.980 | 652.620              | 2'551'586.013      | 1'183'781.229 | 652.582  | 651.644                | x  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |
| 204211840228          | 11842280       | 554'268.270               | 185'112.950 | 624.410              | 2'554'267.977      | 1'185'113.191 | 624.341  | 623.407                | x  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |
| 205211840410          | 11844100       | 559'774.320               | 191'574.450 | 497.880              | 2'559'774.204      | 1'191'574.729 | 497.851  | 497.002                | x  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |
| 200411842428          | 11844282       | 558'064.710               | 187'160.960 | 466.100              | 2'558'064.442      | 1'187'161.205 | 466.028  | 465.096                |  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |
| 200411840430          | 11844300       | 559'404.900               | 187'119.920 | 445.090              | 2'559'404.700      | 1'187'120.182 | 515.452  | 514.717                | x  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |
| 204511840607          | 11846070       | 563'251.450               | 192'222.660 | 468.280              | 2'563'251.404      | 1'192'222.910 | 468.213  | 467.360                |  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |
| 204111842703          | 11847032       | 565'098.370               | 193'257.880 | 468.780              | 2'565'098.279      | 1'193'258.060 | 468.630  | 467.796                |  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |
| 204111840803          | 11848030       | 567'285.570               | 193'190.370 | 435.670              | 2'567'285.506      | 1'193'190.612 | "k.A."   | "k.A."                 |  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |
| 201000540264          | 11849540       | 550'124.195               | 185'250.047 | 432.817              | 2'550'123.810      | 1'185'250.377 | 432.775  | 431.867                | x  |          |              |            |           |                               | PC_FR                  | 2.2  | x    |

LISTE DES POINTS

| Punktnummer Kanton FR | Punktnummer CH | LV03 - Ausgangskordinaten |             |                      | LV95 - Koordinaten |               | Weitere Höhenangaben<br>"gemessen"<br>(Nicht verwenden in<br>der AV) |                        | Herkunft<br>der LV95<br>(Mess-<br>methode) |           |              |            |           | Bemerkungen                  | Herkunft der Messungen | Qualitätsstandard<br>(Reihenfolge<br>Verwendung) | LFP2 |
|-----------------------|----------------|---------------------------|-------------|----------------------|--------------------|---------------|--|------------------------|--|-----------|--------------|------------|-----------|------------------------------|------------------------|--|------|
|                       |                | Y_03                      | X_03        | alt. usuelle<br>H_02 | Y_95               | X_95          | Landeshöhen -<br>CHGeo2004<br>H_LHN95                                | Ellips. Höhe<br>H_LV95 | SR ... X                                   | RXZ ... X | Swipos ... X | Kombiniert | Swisstopo |                              |                        |  |      |
| 201600980049          | 11849980       | 559'658.847               | 182'677.881 | 460.506              | 2'559'658.579      | 1'182'677.979 | "k.A."   | "k.A."                 |  |           |              |            |           |                              | Z3                     | 2.2  | x    |
| 220011850237          | 11852370       | 571'591.570               | 187'219.030 | 625.280              | 2'571'591.433      | 1'187'219.242 | 625.211  | 624.377                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 227911850307          | 11853070       | 573'435.990               | 192'143.210 | 518.390              | 2'573'435.932      | 1'192'143.369 | 518.294  | 517.487                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 226311850413          | 11854130       | 576'094.500               | 192'474.520 | 550.990              | 2'576'094.424      | 1'192'474.650 | "k.A."   | "k.A."                 |  |           | x            |            |           |                              | PC_FR                  | 2.2  | x    |
| 224311850440          | 11854400       | 576'447.740               | 188'283.920 | 630.830              | 2'576'447.596      | 1'188'284.094 | 630.779  | 630.000                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 219811850543          | 11855430       | 577'618.800               | 186'356.880 | 613.660              | 2'577'618.660      | 1'186'357.023 | 613.588  | 612.826                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 219811850548          | 11855480       | 578'628.920               | 185'616.620 | 612.760              | 2'578'628.773      | 1'185'616.749 | 612.655  | 611.913                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 229311850644          | 11856440       | 579'990.580               | 186'802.840 | 628.030              | 2'579'990.477      | 1'186'802.986 | 627.959  | 627.230                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 229111850868          | 11858680       | 584'817.570               | 183'052.700 | 722.480              | 2'584'817.518      | 1'183'052.811 | 722.449  | 721.863                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 204912030827          | 12038270       | 549'233.650               | 177'921.000 | 681.120              | 2'549'233.393      | 1'177'921.416 | 681.036  | 680.018                |  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 203812040034          | 12040340       | 551'847.890               | 176'017.310 | 689.600              | 2'551'847.658      | 1'176'017.678 | 689.588  | 688.546                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 203812042038          | 12040382       | 550'694.640               | 175'434.220 | 691.380              | 2'550'694.442      | 1'175'434.604 | 691.374  | 690.328                |  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 200912040126          | 12041260       | 553'119.410               | 177'127.040 | 606.510              | 2'553'119.170      | 1'177'127.369 | 606.492  | 605.458                |  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 202712040307          | 12043070       | 557'512.720               | 180'987.120 | 502.070              | 2'557'512.462      | 1'180'987.314 | 502.006  | 501.003                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 220212040716          | 12047160       | 565'634.320               | 179'045.480 | 694.720              | 2'565'634.080      | 1'179'045.541 | 694.632  | 693.733                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 220412040806          | 12048060       | 567'484.130               | 180'274.780 | 773.000              | 2'567'483.860      | 1'180'274.850 | "k.A."   | "k.A."                 |  |           | x            |            |           |                              | PC_FR                  | 2.2  | x    |
| 217712040821          | 12048210       | 566'724.690               | 176'131.480 | 681.400              | 2'566'724.434      | 1'176'131.627 | 681.359  | 680.493                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 206800470177          | 12049470       | 563'302.484               | 178'136.411 | 689.463              | 2'563'302.278      | 1'178'136.600 | "k.A."   | "k.A."                 |  |           | x            |            |           | LFP3 (563302.487/178136.409) | PAT_Chât               | 2.3  | x    |
| 206800470129          | 12049471       | 563'298.728               | 177'593.097 | 707.874              | 2'563'298.514      | 1'177'593.286 | "k.A."   | "k.A."                 |  |           | x            |            |           | LFP3 (563298.729/177593.095) | PAT_Chât               | 2.3  | x    |
| 206800470230          | 12049472       | 561'380.587               | 178'753.291 | 658.501              | 2'561'380.335      | 1'178'753.499 | "k.A."   | "k.A."                 |  |           | x            |            |           | LFP3                         | PAT_Chât               | 2.3  | x    |
| 206800470005          | 12049473       | 561'716.939               | 178'162.240 | 688.512              | 2'561'716.702      | 1'178'162.434 | "k.A."   | "k.A."                 |  |           | x            |            |           | LFP3 (561716.940/178162.239) | PAT_Chât               | 2.3  | x    |
| 206800470197          | 12049474       | 562'626.174               | 177'852.530 | 707.994              | 2'562'625.959      | 1'177'852.703 | "k.A."   | "k.A."                 |  |           | x            |            |           | LFP3 (562626.176/177852.529) | PAT_Chât               | 2.3  | x    |
| 206800470096          | 12049475       | 561'836.175               | 176'052.836 | 779.040              | 2'561'835.920      | 1'176'053.004 | "k.A."   | "k.A."                 |  |           | x            |            |           | LFP3 (561836.172/176052.839) | PAT_Chât               | 2.3  | x    |
| 206800470107          | 12049476       | 562'368.742               | 176'892.415 | 738.130              | 2'562'368.504      | 1'176'892.592 | "k.A."   | "k.A."                 |  |           | x            |            |           | LFP3 (562368.739/176892.416) | PAT_Chât               | 2.3  | x    |
| 206800470156          | 12049477       | 560'477.211               | 178'790.405 | 591.623              | 2'560'476.912      | 1'178'790.626 | "k.A."   | "k.A."                 |  |           | x            |            |           | LFP3 (560477.212/178790.406) | PAT_Chât               | 2.3  | x    |
| 206800470140          | 12049478       | 561'241.726               | 179'371.662 | 626.757              | 2'561'241.468      | 1'179'371.886 | "k.A."   | "k.A."                 |  |           | x            |            |           | LFP3                         | PAT_Chât               | 2.3  | x    |
| 206800470214          | 12049479       | 562'336.295               | 178'722.486 | 716.670              | 2'562'336.072      | 1'178'722.680 | "k.A."   | "k.A."                 |  |           | x            |            |           | LFP3 (562336.299/178722.486) | PAT_Chât               | 2.3  | x    |
| 221512050105          | 12051050       | 569'451.400               | 181'070.440 | 705.110              | 2'569'451.217      | 1'181'070.576 | 705.021  | 704.170                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 217300120047          | 12059120       | 568'163.495               | 176'348.671 | 695.214              | 2'568'163.197      | 1'176'348.857 | "k.A."   | "k.A."                 |  |           | x            |            |           |                              | PC_Z2                  | 2.2  | x    |
| 221101850061          | 12059185       | 570'906.684               | 179'319.363 | 722.556              | 2'570'906.457      | 1'179'319.503 | "k.A."   | "k.A."                 |  |           | x            |            |           |                              | PC_Z2                  | 2.2  | x    |
| 230412060003          | 12060030       | 586'608.030               | 181'457.130 | 764.610              | 2'586'607.977      | 1'181'457.254 | 764.554  | 764.049                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 231002830144          | 12069283       | 588'890.821               | 178'315.591 | 852.605              | 2'588'890.810      | 1'178'315.580 | "k.A."   | "k.A."                 |  |           | x            |            |           |                              | PC_Z2                  | 2.2  | x    |
| 211212240115          | 12241150       | 552'439.610               | 166'601.000 | 719.054              | 2'552'439.251      | 1'166'601.368 | "k.A."   | "k.A."                 |  |           | x            |            |           | Point situé sur la limite    | PC_FR                  | 2.2  | x    |
| 232412240338          | 12243380       | 557'264.370               | 162'217.910 | 867.900              | 2'557'264.038      | 1'162'218.237 | 867.985  | 867.038                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 206912240416          | 12244160       | 558'749.450               | 167'008.440 | 779.400              | 2'558'749.082      | 1'167'008.702 | 779.450  | 778.499                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 215002180007          | 12249218       | 564'487.310               | 166'406.250 | 879.960              | 2'564'486.967      | 1'166'406.446 | "k.A."   | "k.A."                 |  |           | x            |            |           |                              | PC_Z2                  | 2.2  | x    |
| 201600980049          | 12249890       | 554'339.279               | 165'733.509 | 826.570              | 2'554'338.800      | 1'165'733.814 | "k.A."   | "k.A."                 | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 214812250125          | 12251250       | 570'105.840               | 165'137.810 | 743.810              | 2'570'105.512      | 1'165'137.958 | 743.817  | 743.191                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |
| 213712252304          | 12253042       | 574'184.420               | 168'853.960 | 708.570              | 2'574'184.092      | 1'168'854.069 | 708.529  | 707.969                | x  | x         |              |            |           |                              | PC_Zusatz              | 2.2  | x    |
| 212412250341          | 12253410       | 574'306.500               | 160'983.450 | 720.390              | 2'574'306.179      | 1'160'983.602 | 720.448  | 720.105                | x  | x         |              |            |           |                              | PC_FR                  | 2.2  | x    |

### LISTE DES POINTS

| Punktnummer Kanton FR | Punktnummer CH | LV03 - Ausgangskordinaten |             |                      | LV95 - Koordinaten |               | Weitere Höhenangaben<br>"gemessen"<br>(Nicht verwenden in<br>der AV) |                        | Herkunft<br>der LV95<br>(Mess-<br>methode) |          |              |            |           | Bemerkungen | Herkunft der Messungen        | Qualitätsstandard<br>(Reihenfolge<br>Verwendung) | LFP2 |   |
|-----------------------|----------------|---------------------------|-------------|----------------------|--------------------|---------------|--|------------------------|--|----------|--------------|------------|-----------|-------------|-------------------------------|--|------|---|
|                       |                | Y_03                      | X_03        | alt. usuelle<br>H_02 | Y_95               | X_95          | Landeshöhen -<br>CHGeo2004<br>H_LHN95                                | Ellips. Höhe<br>H_LV95 | SR ... X                                   | RX ... X | Swipos ... X | Kombiniert | Swisstopo |             |                               |  |      |   |
| 214912250602          | 12256020       | 580'516.400               | 169'450.100 | 1'719.440            | 2'580'516.070      | 1'169'450.180 | "k.A."   | "k.A."                 |  |          |              |            |           |             | PC_FR                         | 2.2  | x    |   |
| 212700420247          | 12259420       | 578'734.285               | 163'099.950 | 879.770              | 2'578'733.981      | 1'163'099.987 | "k.A."   | "k.A."                 |  |          |              |            |           |             | PC_Z2                         | 2.2  | x    |   |
| 232512440332          | 12443320       | 557'972.990               | 152'222.340 | 879.700              | 2'557'972.596      | 1'152'222.646 | 879.716  | 878.891                | x  | x        |              |            |           |             | PC_FR                         | 2.2  | x    |   |
| 233612440503          | 12445030       | 560'116.740               | 157'726.320 | 831.210              | 2'560'116.372      | 1'157'726.555 | 831.228  | 830.445                | x  | x        |              |            |           |             | PC_FR                         | 2.2  | x    |   |
| 232512440526          | 12445260       | 560'064.320               | 153'437.300 | 922.290              | 2'560'063.932      | 1'153'437.582 | 922.294  | 921.582                | x  | x        |              |            |           |             | PC_FR                         | 2.2  | x    |   |
| 212112450127          | 12451270       | 570'110.460               | 151'819.410 | 864.690              | 2'570'110.129      | 1'151'819.575 | 864.712  | 864.510                | x  | x        |              |            |           |             | PC_FR                         | 2.2  | x    |   |
| 214212450143          | 12451430       | 569'737.880               | 148'875.910 | 857.400              | 2'569'737.507      | 1'148'876.116 | 857.442  | 857.283                | x  | x        |              |            |           |             | PC_FR                         | 2.2  | x    |   |
| 213212450203          | 12452030       | 572'227.930               | 157'317.690 | 809.660              | 2'572'227.600      | 1'157'317.832 | "k.A."   | "k.A."                 |  |          |              |            |           |             | PC_Z2                         | 2.2  | x    |   |
| 213912450246          | 12452460       | 571'701.290               | 148'476.340 | 1'713.000            | 2'571'700.880      | 1'148'476.544 | "k.A."   | "k.A."                 |  |          |              |            |           |             | PC_FR                         | 2.2  | x    |   |
| 227511659020          | 11659020       | 577'863.250               | 198'632.017 | "null"               | 2'577'863.230      | 1'198'632.208 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 226511659030          | 11659030       | 581'585.789               | 201'978.624 | "null"               | 2'581'585.873      | 1'201'978.895 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 201511849010          | 11849010       | 555'305.835               | 188'666.540 | "null"               | 2'555'305.526      | 1'188'666.835 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 222811850575          | 11855750       | 577'085.930               | 182'439.120 | 684.790              | 2'577'085.725      | 1'182'439.208 | 684.760  | 684.022                | x  | x        |              |            |           |             | Détruit (non matérialisé)     | PAT_FR   | 3.1  | x |
| 222811859010          | 11859010       | 576'174.734               | 183'169.672 | "null"               | 2'576'174.502      | 1'183'169.807 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 222811859020          | 11859020       | 577'096.118               | 183'625.719 | "null"               | 2'577'095.988      | 1'183'625.875 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 221711859030          | 11859030       | 569'536.265               | 185'370.895 | "null"               | 2'569'536.163      | 1'185'371.194 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 230211860146          | 11861460       | 587'264.130               | 185'244.910 | 835.623              | 2'587'264.125      | 1'185'245.020 | 835.537  | 834.954                | x  | x        |              |            |           |             | nur Bodenplatte vorhanden     | PC_FR  | 3.1  | x |
| 208812049020          | 12049010       | 563'304.567               | 181'520.933 | "null"               | 2'563'304.263      | 1'181'521.027 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 218612050119          | 12051190       | 569'348.600               | 178'164.490 | 749.150              | 2'569'348.315      | 1'178'164.631 | 749.138  | 748.304                | x  | x        |              |            |           |             | Zerstört (Abbruch Reservoir)  | PC_FR  | 3.1  | x |
| 230712059010          | 12059010       | 581'469.274               | 179'964.641 | "null"               | 2'581'469.100      | 1'179'964.700 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 220612059020          | 12059020       | 579'297.025               | 180'444.355 | "null"               | 2'579'296.822      | 1'180'444.439 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 220612059030          | 12059030       | 578'731.372               | 180'305.198 | "null"               | 2'578'731.147      | 1'180'305.324 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 219612059040          | 12059040       | 578'710.745               | 181'963.650 | "null"               | 2'578'710.624      | 1'181'963.790 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 220612059050          | 12059050       | 577'829.150               | 181'422.200 | "null"               | 2'577'828.925      | 1'181'422.306 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 229912069030          | 12069030       | 595'038.950               | 171'048.910 | "null"               | 2'595'038.782      | 1'171'048.921 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 210312249010          | 12249010       | 554'832.591               | 163'576.255 | "null"               | 2'554'832.130      | 1'163'576.592 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 209912249020          | 12249020       | 557'052.559               | 167'625.313 | "null"               | 2'557'052.249      | 1'167'625.587 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 232212249030          | 12249030       | 557'263.223               | 160'494.610 | "null"               | 2'557'262.899      | 1'160'494.843 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 215212249040          | 12249040       | 564'358.101               | 164'995.083 | "null"               | 2'564'357.816      | 1'164'995.285 | "null"   | "null"                 |  |          |              |            |           |             | Point virtuel                 | PAT_Virtuell                                     | 3.1  | x |
| 204111640623          | 11646230       | 563'533.600               | 194'044.950 | 525.260              | 2'563'533.430      | 1'194'045.160 | 525.211  | 524.403                |  |          |              |            |           |             | St.Aubin                      | PAT_CH   | 1.2  |   |
| 220412040806          | 12048060       | 567'484.130               | 180'274.780 | 773.000              | 2'567'483.860      | 1'180'274.850 | "k.A."   | "k.A."                 |  |          |              |            |           |             | x Lovens38                    | PAT_CH   | 1.2  |   |
| 213512450010          | 12450100       | 567'670.020               | 155'365.330 | 2'002.350            | 2'567'669.550      | 1'155'365.570 | "k.A."   | "k.A."                 |  |          |              |            |           |             | x Moleson64 (=12450107)       | PAT_CH   | 1.2  |   |
| 228011650300          | 11653000       | 573'815.790               | 201'435.530 | 649.600              | 2'573'815.770      | 1'201'435.730 | 649.532  | 648.867                |  |          |              |            |           |             | x Vully                       | LV95   | 1.1  |   |
| 205211840300          | 11843000       | 557'520.260               | 191'462.200 | 468.550              | 2'557'520.150      | 1'191'462.530 | 468.427  | 467.593                |  |          |              |            |           |             | x Forel                       | LV95   | 1.1  |   |
| 219811850500          | 11855000       | 577'712.260               | 185'115.600 | 681.950              | 2'577'712.120      | 1'185'115.720 | 681.902  | 681.152                |  |          |              |            |           |             | x Fribourg                    | LV95   | 1.1  |   |
| 222912040840          | 12048400       | 567'236.236               | 173'668.690 | 742.954              | 2'567'235.950      | 1'173'668.860 | 742.964  | 742.140                |  |          |              |            |           |             | x Villarsel-le-Gibloux        | LV95   | 1.1  |   |
| 215412250200          | 12252000       | 571'572.847               | 161'970.386 | 748.470              | 2'571'572.460      | 1'161'970.570 | 748.475  | 747.970                |  |          |              |            |           |             | x La Tour-de-Trême (lv03 neu) | LV95   | 1.1  |   |

### LISTE DES POINTS

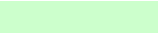

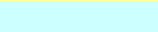
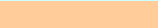
| Punktnummer Kanton FR | Punktnummer CH | LV03 - Ausgangskordinaten |      |                      | LV95 - Koordinaten |      | Weitere Höhenangaben<br>"gemessen"<br>(Nicht verwenden in<br>der AV) |                        | Herkunft<br>der LV95<br>(Mess-<br>methode) |           |              |            | Bemerkungen | Herkunft der Messungen | Quittatsstandard<br>(Reihenfolge<br>Verwendung) | LFP2 |
|-----------------------|----------------|---------------------------|------|----------------------|--------------------|------|--|------------------------|--|-----------|--------------|------------|-------------|------------------------|---|------|
|                       |                | Y_03                      | X_03 | alt. usuelle<br>H_02 | Y_95               | X_95 | Landeshöhen -<br>CHGeo2004<br>H_LHN95                                | Ellips. Höhe<br>H_LV95 | SR ... X                                   | RTK ... X | Swipos ... X | Kombiniert |             |                        |   |      |
|                       |                |                           |      |                      |                    |      |  |                        |  |           |              |            |             |                        |   |      |



**Bemerkung zur Höhenangaben der LV95-Punkte:**

LV95\* = mit Kappenbolzen gemessen (+16cm)!

**Legende zur Einfärbung:**

 = Anschlusspunkte Berechnung LTOP  
 = Keine Angaben "k.A." oder "null" (virtuell)  
 = Nivellierter Punkt (LN02)  
 = Nur zur Information! Nicht verwenden !!!

**Bemerkung zum Rang (Reihenfolge der Verwendung):**

Bei einem neuen LFP-Netz sollte die Rang-Reihenfolge berücksichtigt werden (~ "besseren" Punkte)!

**Rang:**

| <i>Zuständigkeit</i> |     |                                     | <i>Vergleich zur alter Ordnung</i> | <i>Anschlusspunkt LFP-Netz</i>                           |
|----------------------|-----|-------------------------------------|------------------------------------|--|
| Bund                 | 1.1 | LV95                                | ~1. Ordnung                        | Ja (Bestmöglicher Anschlusspunkt - Achtung Kappenbolzen) |
| "                    | 1.2 | PAT1                                | ~2. Ordnung                        | Ja (jedoch z.T. Hochpunkte)                              |
| Kanton               | 2.1 | PAT1                                | ~3. Ordnung                        | ja (Guter Anschlusspunkt Kanton)                         |
| "                    | 2.2 | PAT2                                | ~4. Ordnung                        | Ja (jedoch nicht ohne PAT1 verwenden)                    |
| "                    | 2.3 | LFP3(95)                            | ~5. Ordnung                        | nein (Ja, wenn keine Zwängung < 2cm))                    |
| "                    | 3.1 | Nicht stationierbar (z.B. virtuell) |                                    | nein   |

**Anhang F2**

# **Koordinatenliste KP**

**(LV03<sub>orig</sub> / LV03<sub>transf.</sub> / LV95<sub>gem</sub>)**

























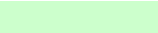

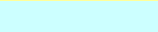
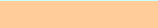
LISTE DES POINTS

| Alte Punktnummer LFP<br>Kt. FR (inkl. Gemde) | Punktnummer CH | LV03 - Ausgangskordinaten |             |                      | LV95 - Koordinaten |               | Weitere Höhenangaben<br>(Nicht verwenden in<br>der AV) |                        | Herkunft<br>der LV95<br>(Mess-<br>methode) |           |              |               | Bemerkungen | Herkunft der Messungen    | Qualitätsstandard<br>(Reihenfolge Verwendung)<br>LFP2 | LV03 - REFRAME<br>(von LV95 gemessen zu LV03 <sub>transf.</sub> ) |                         | D(MN03 <sub>ORIGINAL</sub> *MN03 <sub>REFRAME</sub> ) |        |        |       |
|--|----------------|---------------------------|-------------|----------------------|--------------------|---------------|--|------------------------|--|-----------|--------------|---------------|-------------|---------------------------|---|---|-------------------------|---|--------|--------|-------|
|  |                | Y_03                      | X_03        | alt. usuelle<br>H_02 | Y_95               | X_95          | Landeshöhen -<br>CH95=2004<br>H_LHN95                  | Ellips. Höhe<br>H_LV95 | BR ... X                                   | BAK ... X | Bwipos ... X | Methode comb. |             |                           |   | SWISSCOP  | Y_03 <sub>transf.</sub> | X_03 <sub>transf.</sub>                               | dY     | dX     | fs    |
| 11853845                                     | 11858453       | 584'943.540               | 186'292.180 | 758.584              | 2'584'943.510      | 1'186'292.264 | 758.567  | 757.925                | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 584'943.546             | 186'292.182   | -0.006 | -0.002 | 0.006 |
| 11863131                                     | 11861313       | 588'356.770               | 188'076.910 | 750.529              | 2'588'356.749      | 1'188'076.975 | 750.490  | 749.870                | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 588'356.770             | 188'076.910   | 0.000  | 0.000  | 0.000 |
| 11863153                                     | 11861533       | 587'557.960               | 182'992.100 | 824.254              | 2'587'557.939      | 1'182'992.162 | 824.254  | 823.729                | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 587'557.960             | 182'992.098   | 0.000  | 0.002  | 0.002 |
| 11863326                                     | 11863263       | 591'898.190               | 189'580.640 | 813.785              | 2'591'898.263      | 1'189'580.709 | 813.730  | 813.129                | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 591'898.190             | 189'580.640   | 0.000  | 0.000  | 0.000 |
| 12043540                                     | 12045403       | 561'574.150               | 174'004.130 | 770.928              | 2'561'573.881      | 1'174'004.309 | 770.893  | 769.956                | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 561'574.149             | 174'004.130   | 0.001  | 0.000  | 0.001 |
| 12043628                                     | 12046283       | 563'843.080               | 176'568.890 | 763.054              | 2'563'842.829      | 1'176'569.020 | 762.998  | 762.085                | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 563'843.081             | 176'568.893   | -0.001 | -0.003 | 0.003 |
| 12043657                                     | 12046573       | 562'478.590               | 171'049.830 | 840.646              | 2'562'478.283      | 1'171'050.052 | 840.600  | 839.702                | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 562'478.590             | 171'049.830   | 0.000  | 0.000  | 0.000 |
| 217312050026                                 | 12050260       | 568'177.700               | 175'570.840 | 656.770              | 2'568'177.448      | 1'175'571.010 | 656.794  | 655.961                | x  | x         |              |               |             | Zerstört, nur Bodenplatte | PC_FR   | 3.1   | 568'177.741             | 175'570.831   | -0.041 | 0.009  | 0.042 |
| 12053201                                     | 12052013       | 571'718.270               | 181'684.590 | 713.130              | 2'571'718.077      | 1'181'684.706 | 713.007  | 712.186                | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 571'718.275             | 181'684.576   | -0.005 | 0.014  | 0.015 |
| 12053230                                     | 12052303       | 571'661.060               | 175'734.390 | 740.420              | 2'571'660.789      | 1'175'734.506 | 740.415  | 739.650                | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 571'661.060             | 175'734.389   | 0.000  | 0.001  | 0.001 |
| 12053432                                     | 12054323       | 576'838.930               | 175'596.650 | 831.420              | 2'576'838.707      | 1'175'596.715 | 831.434  | 830.818                | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 576'838.931             | 175'596.648   | -0.001 | 0.002  | 0.002 |
| 229912060131                                 | 12061310       | 588'442.430               | 174'592.100 | 987.570              | 2'588'442.344      | 1'174'592.130 | 987.589  | 987.408                | x  | x         |              |               |             | supprimé                  | PC_FR   | 3.1   | 588'442.466             | 174'592.087   | -0.036 | 0.013  | 0.038 |
| 12243212                                     | 12242123       | 555'436.470               | 167'180.360 | 858.198              | 2'555'436.080      | 1'167'180.673 | 858.219  | 857.194                | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 555'436.469             | 167'180.362   | 0.001  | -0.002 | 0.002 |
| 12243634                                     | 12246343       | 563'333.360               | 163'292.390 | 862.291              | 2'563'333.001      | 1'163'292.596 | 862.206  | 861.431                | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 563'333.362             | 163'292.388   | -0.002 | 0.002  | 0.003 |
| 12243801                                     | 12248013       | 566'713.500               | 169'744.750 | 1'026.346            | 2'566'713.161      | 1'169'744.974 | 1'026.279  | 1'025.516              | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 566'713.501             | 169'744.749   | -0.001 | 0.001  | 0.001 |
| 12243818                                     | 12248183       | 566'951.310               | 164'803.970 | 957.790              | 2'566'950.941      | 1'164'804.138 | 957.790  | 957.095                | x  | x         |              |               |             | (Bodenplatte)             | PAT_FR(B)   | 3.1   | 566'951.310             | 164'803.970   | 0.000  | 0.000  | 0.000 |

**Bemerkung zur Höhenangaben der LV95-Punkte:**

LV95\* = mit Kappenbolzen gemessen (+16cm)!

**Legende zur Einfärbung:**

 = Anschlusspunkte Berechnung LTOP  
 = Keine Angaben "k.A." oder "null" (virtuell)  
 = Nivellierter Punkt (LN02)  
 = Nur zur Information! Nicht verwenden !!!

**Bemerkung zum Rang (Reihenfolge der Verwendung):**

Bei einem neuen LFP-Netz sollte die Rang-Reihenfolge berücksichtigt werden (~ "besseren" Punkte)!

**Rang:**

| <i>Zuständigkeit</i> |     |                                     | <i>Vergleich zur alter Ordnung</i> | <i>Anschlusspunkt LFP-Netz</i>                           |
|----------------------|-----|-------------------------------------|------------------------------------|--|
| Bund                 | 1.1 | LV95                                | ~1. Ordnung                        | Ja (Bestmöglicher Anschlusspunkt - Achtung Kappenbolzen) |
| "                    | 1.2 | PAT1                                | ~2. Ordnung                        | Ja (jedoch z.T. Hochpunkte)                              |
| Kanton               | 2.1 | PAT1                                | ~3. Ordnung                        | ja (Guter Anschlusspunkt Kanton)                         |
| "                    | 2.2 | PAT2                                | ~4. Ordnung                        | Ja (jedoch nicht ohne PAT1 verwenden)                    |
| "                    | 2.3 | LFP3(95)                            | ~5. Ordnung                        | nein (Ja, wenn keine Zwängung < 2cm))                    |
| "                    | 3.1 | Nicht stationierbar (z.B. virtuell) |                                    | nein   |