(a) C++ interface

```
1   #include <xtensor/xtensor.hpp>
2   #include <evalhyd/evalp.hpp>
3
4   xt::xtensor<double, 2> obs =
5       {{4.7, 4.3, 5.5, 2.7, 4.1}};
6   xt::xtensor<double, 4> prd =
7       {{{{5.3, 4.2, 5.7, 2.3, 3.1},
8          {4.3, 4.2, 4.7, 4.3, 3.3},
9          {5.3, 5.2, 5.7, 2.3, 3.9}}}};
10  xt::xtensor<double, 2> thr = {{4., 5.}};

11  auto res = (
12      evalhyd::evalp(obs, prd, {"BS"}, thr, "high")
13  );
```

(b) Python interface

```
1   import numpy
2   import evalhyd
3
4   obs = numpy.array([[4.7, 4.3, 5.5, 2.7, 4.1]])
5   prd = numpy.array([[[[5.3, 4.2, 5.7, 2.3, 3.1],
6                        [4.3, 4.2, 4.7, 4.3, 3.3],
7                        [5.3, 5.2, 5.7, 2.3, 3.9]]]])
8   thr = numpy.array([[4., 5.]]

9   res = (
10      evalhyd.evalp(obs, prd, ["BS"], thr, "high")
11  )
```

(c) R interface

```
1   library(evalhyd)
2
3   obs ← rbind(c(4.7, 4.3, 5.5, 2.7, 4.1))
4   prd ← array(
5       rbind(c(5.3, 4.2, 5.7, 2.3, 3.1),
6             c(4.3, 4.2, 4.7, 4.3, 3.3),
7             c(5.3, 5.2, 5.7, 2.3, 3.9)),
8       dim=c(1, 1, 3, 5)
9   )
10  thr ← rbind(c(4., 5.))

11  res ← (
12      evalhyd::evalp(obs, prd, c("BS"), thr, "high")
13  )
```

(d) Command line interface

```
1   cat "./obs/site_a.csv"
    4.7,4.3,5.5,2.7,4.1
2   cat "./prd/leadtime_1/site_a.csv"
    5.3,4.2,5.7,2.3,3.1
    4.3,4.2,4.7,4.3,3.3
    5.3,5.2,5.7,2.3,3.9
3   cat "./thr/site_a.csv"
    4.,5.

4   res=$(evalhyd evalp \
5       "./obs/" "./prd/" "BS" \
6       --q_thr "./thr/" --events "high")
```