

Bottomfish

There are several key things to look out for when telling the difference between Opakapaka and Kalekale:

1. Horizontal Line Across Fish



Opakapaka



Kalekale

When drawing a horizontal line from the front of the upper lip to the fork of the tail of each fish, the line goes **beneath the eye for Opakapaka and **through the eye** for Kalekale.**

2. Fin Coloration



Opakapaka

Kalekale

Opakapaka

Tail Fin

There is a visible orange edging along the tail fin of Opakapaka that is not visible on Kalekale



Opakapaka

Kalekale

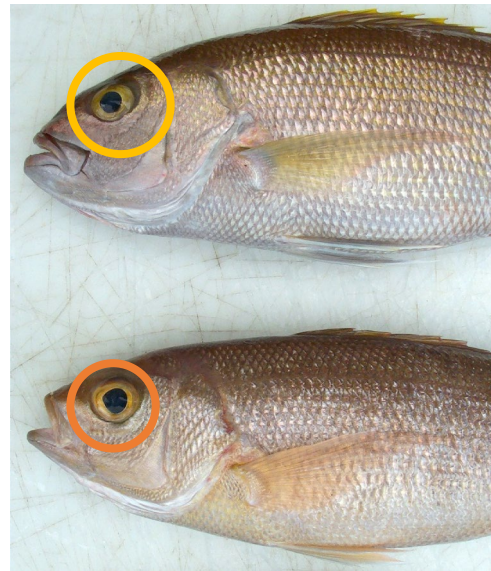
Pectoral Fin

The pectoral fin of Opakapaka is **yellow or brown in color, while the pectoral fin of Kalekale is more **orange** in color**

Bottomfish

3. Eye coloration

Similar to the pectoral fin color difference between the two species (see part 2 on the previous page), the eye of Opakapaka is more yellow in color, while the eye of Kalekale is more orange in color.

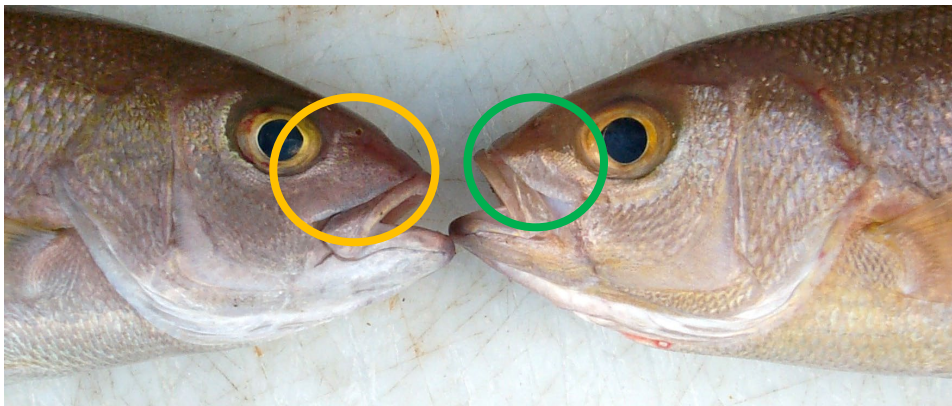


Opakapaka

Kalekale

1

4. Snout countershading



The dark brown coloration on the snout of Opakapaka fades gradually down beneath the eye of the fish; this same dark brown coloration on the snout of Kalekale changes color abruptly.

2

Opakapaka

Kalekale

5. Eye-to-body ratio



3

Opakapaka



4

Kalekale

Kalekale has a larger eye for the size of its body compared to Opakapaka