# Supplemental Information- Data S1

*Example of application of the indicators IO, IT, It*

As a better understanding of the methods, an example of applications of the indicators is given. Given an individual capture-recapture history *i,* with five sampling occasions (*T*) and a non-constant sampling period of eight days (*F*):

$$\begin{matrix}t\left(days\right)&0&2&5&6&8\\sampling occasion j&1&2&3&4&5\\captured individual i&0&1&1&0&1\end{matrix}$$

Then *IO, IT* and *It* are calculated as

$$IO\_{i}=\frac{\sum\_{j=1}^{T}c\_{ij}-1}{\left(T-1\right)}=\frac{3-1}{\left(5-1\right)}=\frac{2}{4}=0.5$$

$$IT\_{i}=\frac{F\_{i} }{F }=\frac{8-2}{8 }=\frac{6}{8 }=0.75$$

$It\_{i}=\left(\frac{F\_{i}}{\sum\_{j=1}^{T}c\_{ij}-1}\right)^{-1}=$ $\left(\frac{6}{2}\right)^{-1}=\left(\frac{6}{2}\right)^{-1}=0.\hat{3}$