

Project Update: April 2010

We have carried out complete population counting of *N. clipeata* from 28 February 2010 to 9 March 2010 on Mt. Kelam, West Kalimantan. We also collected data on distribution of *N. clipeata* on cliff faces, substrate and flower status. GPS Coordinates and altitudes of individuals were recorded using GPS unit (Garmin 76 CSX). Five substrate samples were collected for analysis of pH, total carbon, nitrogen, phosphorus and potassium. The substrate samples were analysed at Soil Laboratory of the University of Tanjungpura, West Kalimantan.

The census showed that there are XXX plants dispersed in XX coordinates (number of coordinates removed). The figure is higher than previous estimation by M. Jebb mentioning that there were only 15 plants left on Mt Kelam in 1995. Most plants encountered during the census are unreachable plants and found at the altitude ranging from xxx to xxx above sea level (altitudes removed).

Based on our field observation, *N. clipeata* was found at the altitude ranging from 749 to 874 above sea level. We also observed that several plants produce flowers, and most of them are male. We only found one coordinate where both male and female plants grow together.

Analysis of substrate samples displayed that *N. clipeata* plants grow on substrate with pH ranging from 3.98 to 4.67 (mean = 4.4, n = 5). Total carbon, nitrogen, phosphorus and potassium on substrate samples are presented in Table 1.

Table 1. Total carbon, nitrogen, phosphorus and potassium on substrate samples where *N. clipeata* plants were found on Mt. Kelam. Total C and N is expressed in %, and ppm is for P and K.

Sample	Total			
	C	N	P	K
1	21.76	1.28	120.81	397.33
2	23.64	1.27	119.82	203.83
3	27.92	1.30	280.04	390.38
4	52.58	1.71	75.10	321.24
5	21.41	1.28	154.51	342.86
Mean	29.46	1.37	150.06	331.13

Moreover, we are currently producing campaign materials (e.g. key rings and t-shirt). The campaign materials will be distributed during village meetings and school visits, and disseminated to several target groups (e.g. mountain climbing clubs, conservation clubs, government officials).