



ARDB 2019. AFRICAN RAPTOR DATABANK:
 a secure, live data observatory for the
 distribution and movements of African raptors.
 Habitat Info Ltd, Solva, UK.
 www.habitainfo.com/ardb_observatory/
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270 Crowned Eagle

Stephanoaetus coronatus IUCN Status *Near Threatened*
 IUCN (2019-2)

male mass = 3350 g
 female mass = 4000 g
 mean mass = 3800 g

area requirement (of pair/2.2 individuals) = 80.4 km²

from Newton (1979) figure 10: $area\ km^2 = 0.4 + (0.02 * female\ mass\ g)$
 replaced by direct measurement of field density where we have data

this figure is used for estimating density of breeding individuals and offspring in good habitat
 we assume twice the area requirement in suboptimal habitat
 and half the area requirement in optimal habitat
 breeding population estimates represent theoretical maxima where habitat is saturated
 nest-site limitation and the floating / non-breeding population are not yet fully accounted for

HABITAT SPACE ANALYSIS

	extent (km ²)	individuals	pairs
suboptimal 25-50% suitable	2800522	38316	17416
good habitat 50-70% suitable	568482	15555	7070
optimal habitat 70-100% suitable	95857	5246	2385
total habitat 25-100% suitable	3464861	59117	22169

reporting rate from mobile app survey data

2014 (26724 km) : 0.011226 birds per 100 km
 2015 (87188 km) : 0.013763 birds per 100 km
 2016 (81150 km) : 0.022181 birds per 100 km
 2017 (57721 km) : 0.015592 birds per 100 km
 2018 (19798 km) : birds per 100 km

