



Tiffany Jones, Fort Wayne Children's Zoo

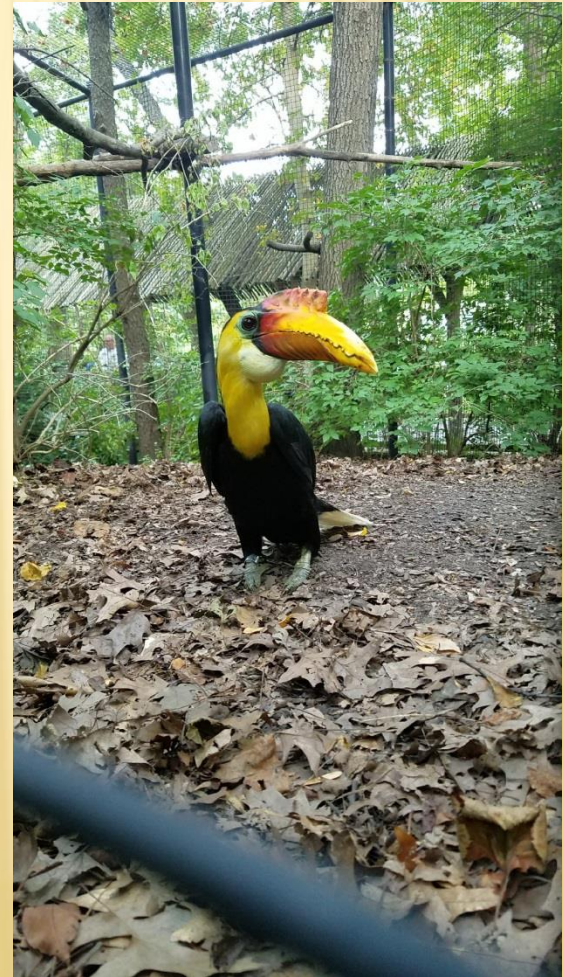
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THE SUCCESSFUL BREEDING OF WRINKLED HORNIBILLS AT THE FORT WAYNE CHILDREN'S ZOO DESPITE UNIQUE CHALLENGES

FWCZ WRINKLED HORNBILLS

✕ Bayu

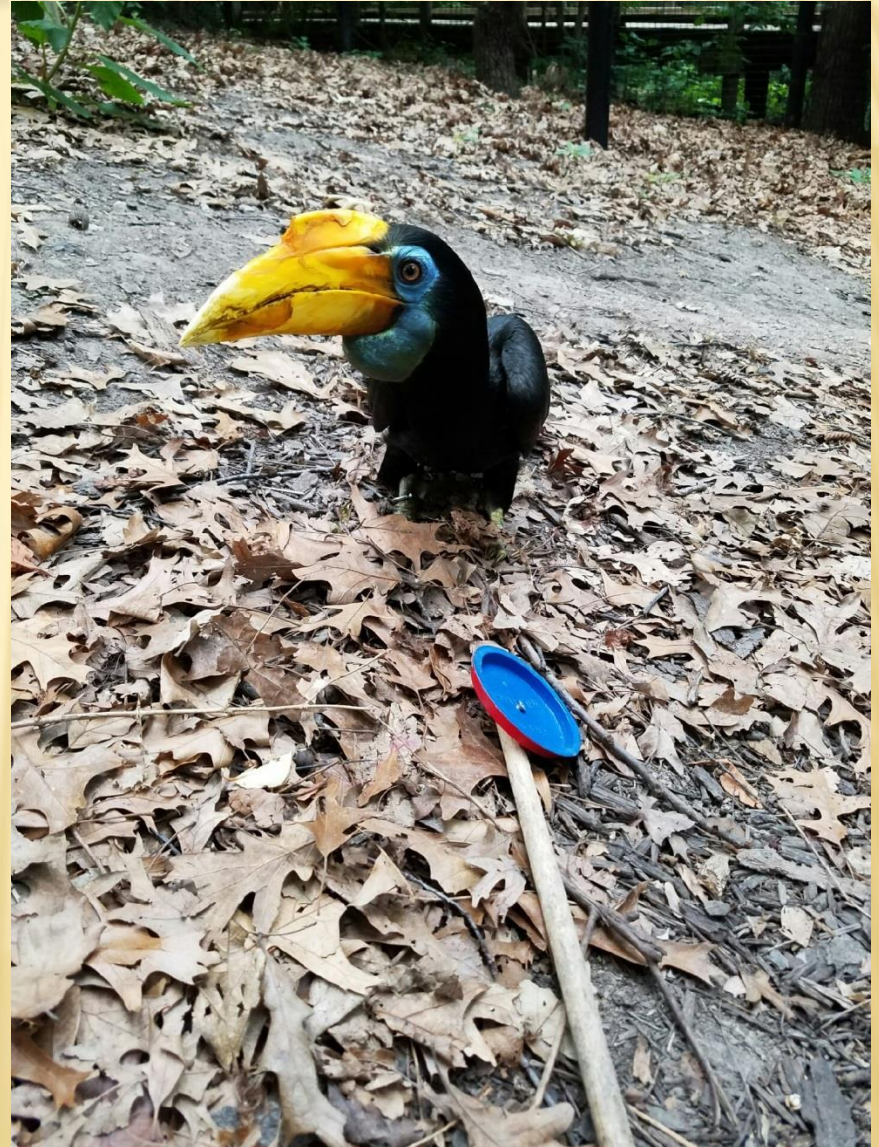
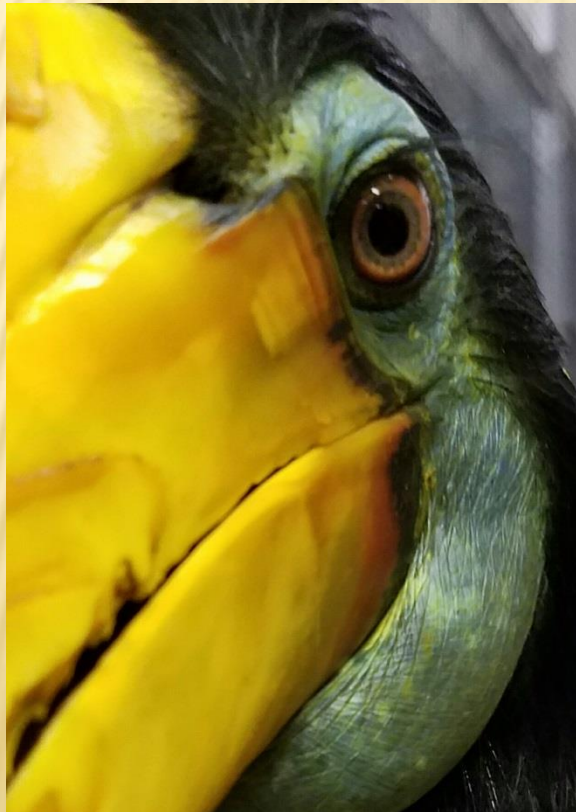
+ 16 years old



FWCZ WRINKLED HORNBILLS

✕ Ayu

+ 13 years old



NESTING PROCESS

- ✘ Lay 2-3 eggs in the cavity of a tree
- ✘ Incubation time: 30 days
- ✘ Chick/s fledge around 60-80 days



NESTING PROCESS

- ✘ Food, feces, and wood shavings use to seal herself into the nesting cavity.
- ✘ Male feeds her the duration of the incubation.
- ✘ Once chick is strong enough, both will emerge from nesting cavity.



FWCZ HORNBILL NESTING

× Timeline:

- + July 16th – Ayu stopped coming out of nest box
- + Aug 24 – faint chick vocalizations heard
- + Oct 25 – brought nest box in
- + Nov 16 – helped break female and chick out
- + Nov 30 – first physical
- + Dec 12 – It's a girl!

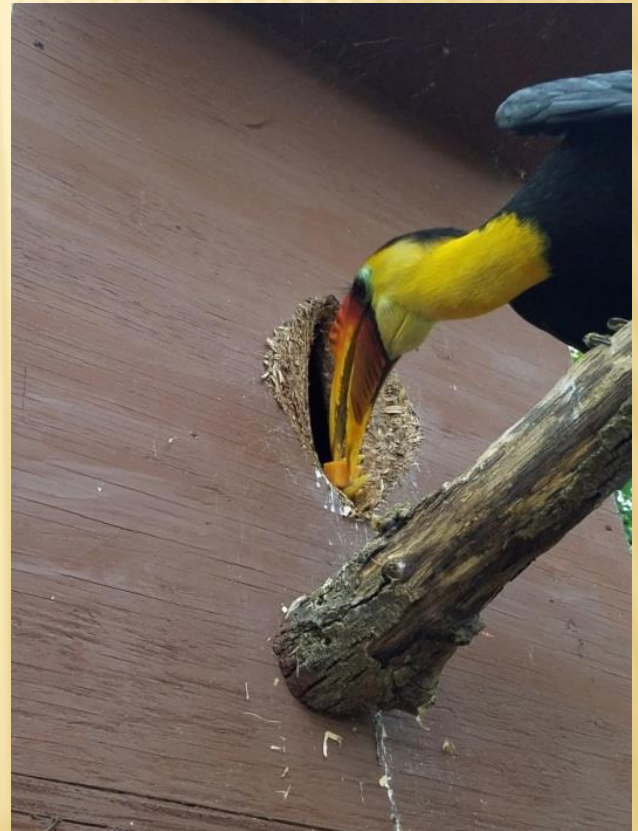
CHALLENGE 1

- ✘ Challenge 1: These are tropical birds living in Indiana. What happens when it gets too cold for them to be outside?



CHALLENGE 1 RESOLUTION

- ✘ Tarps and heat lamps?
- ✘ Break them out?
- ✘ Move nest box inside which weighs 200 lbs?



CHALLENGE 1 RESOLUTION

- ✘ Nest box was brought indoors with Ayu and chick still inside
- ✘ It took 53 minutes altogether..... And lots of planning!



CHALLENGE 1 RESOLUTION



CHALLENGE 1 RESOLUTION



CHALLENGE 1 RESOLUTION



CHALLENGE 1 RESOLUTION



CHALLENGE 2

- ✘ Why are they not emerging?



CHALLENGE 2 RESOLUTION

- ✘ Ayu's behavior had become abnormal.
- ✘ AZA colleagues and SSP coordinator were contacted.
- ✘ Hornbills were inside for 122 days before we decided to intervene.



CHALLENGE 2 RESOLUTION



CHALLENGE 2 RESOLUTION



CHALLENGE 2 RESOLUTION

- ✘ Keepers broke the seal on the nest box.
- ✘ Ayu came out first, chick followed within 10-15 minutes.



CHALLENGE 2 RESOLUTION

- ✘ Ayu's body condition looked good. She had been in the nest box for 123 days (4 months exactly).
- ✘ Chick quickly learned how to reach perches.



HAPPY HORNBILL FAMILY



SURPRISE CHALLENGE!

- ✘ Bayu started being aggressive with Ayu.
- ✘ Eventually we separated him out the day Ayu and chick emerged from the nest box.



CURRENT UPDATE

- ✘ Nuri is 7 months old!
- ✘ She is engaging in enrichment and started eating on her own at the beginning of January.
- ✘ Bayu is still separated from Ayu and Nuri.
- ✘ Nuri is becoming curious about keepers.
- ✘ In March, Nuri was separated from Ayu.

AYU AND NURI



NURI

