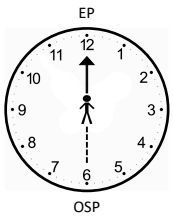
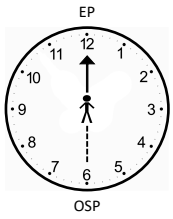
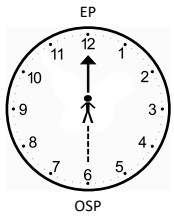
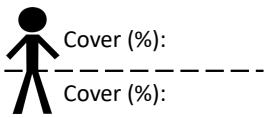
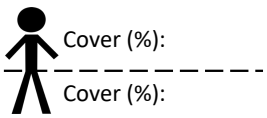
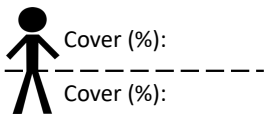
Supplementary Presentation 2

Field data form for experimental human approach trials on wild, GPS-collared wolves

Eriksen A, Versluijs E, Fuchs B, Zimmermann B, Wabakken P, Ordiz A, Sunde P, Wikenros C, Sand H, Gillich B, Michler F, Nordli K, Carricondo-Sanchez D, Gorini L and Rieger S (2022). A Standardized Method for Experimental Human Approach Trials on Wild Wolves. Front. Ecol. Evol. 10:793307. doi: 10.3389/fevo.2022.793307

Date	**Wolf ID(s)**	**Wolf sex**	**Observer 1**	☐ Walking ☐ Jogging ☐ Skiing ☐ With dog ☐ Other ……
ApproachID	**Territory**	**Wolf age**	**Observer 2**	
Track ID		**Other disturbance**		
Wolf social status Single vagrant / Single stationary / Pair / Family group of …….. individuals (parent / offspring)				

	Waypoint #	**UTM_E**	**UTM_N**	**Time**
Estimated wolf start position WSP				
Observer start position OSP				
Passing position PP				
Observer end position OEP				

	Observer start position OSP	**Passing position PP**	**Observer end position OEP**
Air temperature			
Wind strength	Weak Medium Strong	Weak Medium Strong	Weak Medium Strong
Wind direction	 **Variable** Yes No	 **Variable** Yes No	 **Variable** Yes No
Precipitation	0 1 2 3 4 5	0 1 2 3 4 5	0 1 2 3 4 5
Vegetation cover			
Noise level	Silent Medium Noisy	Silent Medium Noisy	Silent Medium Noisy
Habitat type			

Wolf detected No Yes	**Category** Seen HeardVocal HeardMove	**Number of wolves**
Time	**UTM/Waypoint**	**Video footage** No Yes
Shortest distance	**Direction (obs. clock)**	**Visibility** P R G VG
Direct encounter No Yes	**Flight distance**	**Flight time**
Observer response before flight 1 2 3	**Did observer feel threatened**	
Description if heard		
Behavior if seen		
Comments:		

Waypoint list for observations of interest

UTM or Waypoint	Time	Description (use observer clock for direction relative to observer)

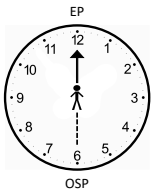
Post-trial concealment measurements (max. distance at which cover cylinder can be seen)

		UTM_E	UTM_N	North:	East:	South:	West:	Bed?
Flight init.	**Wolf 1**							
	Wolf 2							
Reset.	**Wolf 1**							
	Wolf 2							

Comments:

Notes to the data form:

Approach ID: Format yyyy-mm-dd_Territory. **Track ID:** Name of observer track log. **Observers 1 and 2:** Name of person(s) conducting the approach. **Other disturbance:** Other activity going on in the area that may affect the wolf behavior before or during trial, e.g. forestry workers, hunters, berry pickers; or background noise that may affect detectability. **Wolf social status:** Mark the category/categories that apply. If a family group, indicate the number of individuals and whether focal wolf is the parent or offspring. **Wind strength:** Based on Beaufort scale, measured with anemometer or using the following criteria: Calm (0-1): wind not felt on face. Leaves and twigs not moving. Weak (2-3): wind felt on face. Leaves and/or small twigs moving. Medium (4-5): Raises dust. Small branches and/or small trees in leaf move. Strong (6+): Large branches and/or whole trees in motion. **Wind direction:** Direction wind is blowing from based on the observer clock (see below), and whether direction was constant or variable. **Precipitation:** 0: no precipitation, 1. fog/dusty precipitation (damp conditions but without clothes getting wet), 2. light precipitation (clothes wet within 15-30 minutes), 3: medium precipitation (clothes wet within 5-14 minutes), 4: heavy precipitation (clothes wet within 5 minutes), 5: very heavy precipitation (clothes wet within 1 minute). **Vegetation cover:** For ground-waist and waist-top of head, estimate horizontal cover to the nearest 10%. **Noise level:** Level of noise created by moving through the vegetation. **Wolf detected:** Whether wolves were detected during the trial, how (seen, heard vocalization, heard movement), and the number of individuals. **Video footage:** Whether video camera was used. **Min. distance:** Estimated shortest distance between wolf and observer. **Direction:** Based on the "observer clock" (see below). **Visibility:** Visibility when wolf was detected. Poor, Restricted, Good, Very Good. **Direct encounter:** Whether all criteria to switch to direct encounter protocol were met: Visual observation of wolf ahead of the observer when observer is facing OEP, wolf is aware of the observer, the observer would notice the wolf in a non-trial situation, and wolf does not leave immediately. **Flight distance:** Distance between observer and wolf when wolf moved away. **Flight time:** Time between encounter and flight. **Observer response before flight:** In sequence according to protocol. 1: stop and wait for one min, 2: count to ten loudly, 3: wave arms and shout loudly. **Waypoint list (p. 2):** For observations of interest (wolf seen or heard, wolf tracks, territory markings etc.). Coordinates or waypoint registered in handheld GPS, time and description of observation. **Post-trial concealment measurements:** Place cover cylinder (60 cm tall and 30 cm diameter) at the coordinate of flight initiation/resettling. In the four cardinal directions, measure maximum distance at which the cylinder can be seen.



Observer clock: Direction indicator for wind, and wolf (or other) observations. Use the number matching the direction relative to the observer when the observer is walking in a line from the observer start position to the end position.