Conservation Planning for Hoverflies







Ann-Katrine Garn

Copenhagen Zoo IUCN_SSC CPSG Europe



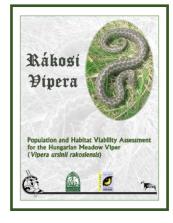






CPSG is committed to moving more threatened species, more quickly, from assessing, through conservation planning, and into effective action.

Moving from "single-species planning"...

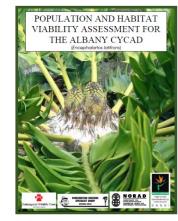






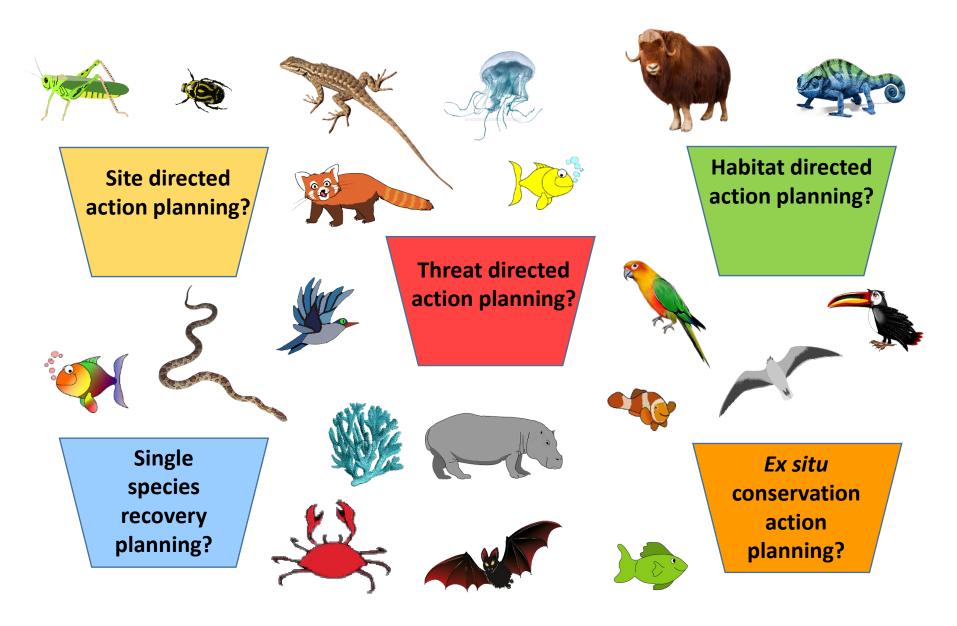


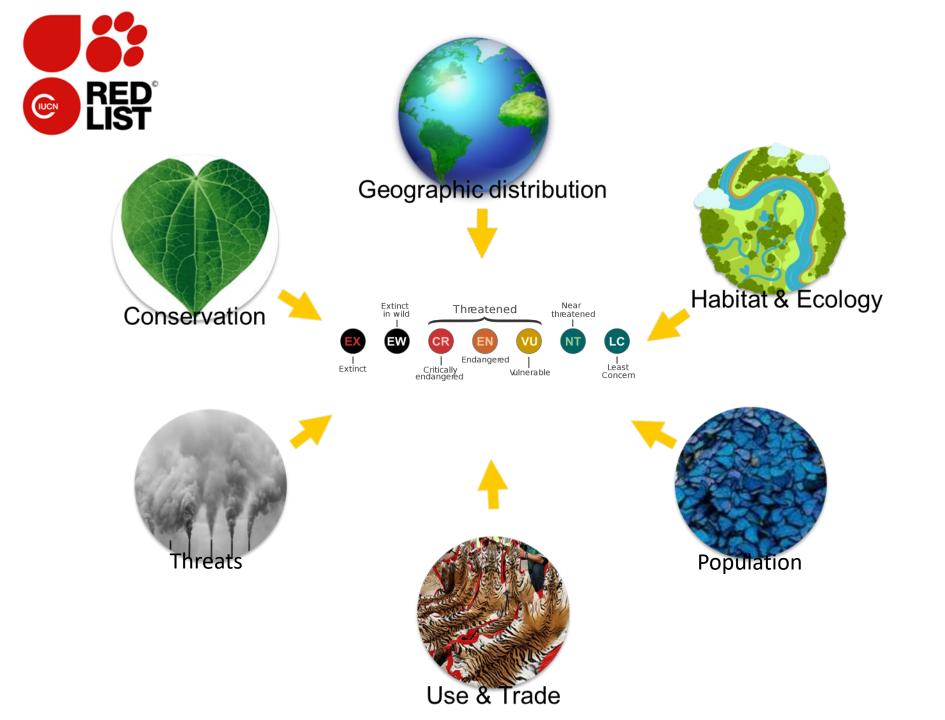






...to "multi-species planning".





Geographic distribution

	(VU)	Countries LME FAO						
Status: I	Draft	Countries of Occurrence						
Region(s):	English	Ŷ	When using Quick-Add, ple	ease ensure you also select	t the appropriate country-lev	vel for each subcountry unit.		
	10 Jan 2019, 3:58 AM UTC+13 by Daniel						÷	
I	Lumbantobing	Selections for Countries of Occurrence			View/Edit Quick Add			
			Presence	Origin	Seasonality			
I Previo	Ne	Indonesia	Extant	Native	Resident			
All Fields Viev	v	Indonesia -> Kalimantan	Extant	Native	Resident			
Distribution								
Occurrence								
Population								
Habitats and I								
Use and Trad	e							

Sundadanio reliarius		INCW								C ODIOIS				_
					······			······						-
(VU)	Geographic Range	A00	EOO	Locations	Very restricted	Elevation/Depth	Map Status	Biogeographic Realms	Hotspot and UN MD	G				
Status: Draft	Geographic Range Info	rmation											灓	
Region(s): Global	В	I		Ū	X ₂	X		1=	E	<u>eə</u>	<u>69</u>	<u>T_x</u>		
Language: English Last 10 Jan 2019, 3:58 AM	Background V													
Modified: UTC+13 by Daniel Lumbantobing	Indonesian Borr occurence (EOC	neo (Con D) is esti	nway <i>et d</i> imated at	<i>al.</i> 2011) t 51,3981	as well as fro km ² (based or	m blackwater ha 1 total area withi	ibitats of the n a minimur	of the southern par Barito basin of sou n convex polygon a hin this EOO (area	itheastern Borneo fround sites where	(D. Lumbantobi the species has	ing pers. obs 2013 been recorded an	3). Its extent of d where the	,	
Previo Ne	km ² ; the upper 1	limit of .	AOO ba	sed on a l	2x2 km ² grid	overlay on the ra	ange map, w	hile the upper limit	based on the area	of degraded pea	atland according t	o Giam <i>et</i>		
All Fields View	al. (2012). It is estimated that the species has possibly been experiencing continuing decline in AOO and EOO due to the fact that peat swamp forests in Southeast Asia have already been lost more than 60% by 2010 (Miettinen <i>et al.</i> 2012). Across the species range in southern Kalimantan, there are likely more than 10 patches of													
Distribution														
Occurrence							lependently	by the major threat	to this species (ha	bitat loss of deg	radation). Therefo	ore, the		
Population	population is lik	tely to o	occur in n	nore than	1 10 locations.									
Habitats and Ecology														
Use and Trade														
Threats														
Conservation														
Ecosystem Services														
Red List Assessment														



Habitat information

	Working Sets Filter			List			Filter		Assessments	
			•				Fillet	•		Draft Assessments (1)
	Subscribed Working Sets		Paral	kysis anomalopteryx	Nev	w Gen	eral Habitat Information			Dian Assessments (1)
Claudine Gibson	Eels_for_2015.4_Red_List via Caroline Pollock		Paral	kysis grandis	80	elect:				
	Freshwater_Fishes_Sundaic_1_All via Catherine Sayer		Paral	kysis hystriculus						
IUCN SSC Freshwater Fish Specialist Group	Freshwater_Fishes_Sundaic_1_Workshop_A_Tim Lyons via Catheri	ne Sayer	Paral	xysis longirostris			3.5. Shrubland -> Shrubland - Subtropical/Tropical Dry 3.6. Shrubland -> Shrubland - Subtropical/Tropical Moist			
19 A .	Freshwater_Fishes_Sundaic_1_Workshop_B_Catherine Sayer via C	atherine Sayer	Paral	vysis notialis		Suit	3.7. Shrubland -> Shrubland - Subtropical/Tropical High Alti	tude		
😳 🏠 🚺	Freshwater_Fishes_Sundaic_1_Workshop_C_Claudine Gibson via 0	atherine Sayer	+ Paral	ysis verrucosus			3.8. Shrubland -> Shrubland - Mediterranean-type Shrubby		ion	
Parakysis longirostris	📮 Read Only Mode 📑 New 🔚 Save 🔞 Attachments (I) 🗸 📄 Referenc	es 🗸 🕕 🕕	Criteria Calculator 👻	<i>🆑</i> то		4.1. Grassland -> Grassland - Tundra			
(DD)	Calculated Category & Criteria: DD						4.2. Grassland -> Grassland - Subarctic			
(Singapore Little Warty	Y Y				-		4.3. Grassland -> Grassland - Subantarctic			
Catfish)	Documentation Coded Habitats Hab. Decline/ESH Lan	Cover Life His	tory Mov	vement Patterns Sys	stems		4.4. Grassland -> Grassland - Temperate 4.5. Grassland -> Grassland - Subtropical/Tropical Drv			
	IUCN Habitats Classification Scheme						4.5. Grassland -> Grassland - Subtropical/Tropical Div	lly Wet/f	Flooded	
Status: Draft Region(s): Global							4.7. Grassland -> Grassland - Subtropical/Tropical High Altit	lude		
Language: English							5.1. Wetlands (inland) -> Wetlands (inland) - Permanent Riv			
Last 24 May 2019, 3:48 AM	Selections for General Habitat Information		View/	/Edit Quick Add			5.2. Wetlands (inland) -> Wetlands (inland) - Seasonal/Inter			
Modified: UTC+12 by Amy Palmer-Newton		Season	Suitability	Major			5.3. Wetlands (inland) -> Wetlands (inland) - Shrub Dominal 5.4. Wetlands (inland) -> Wetlands (inland) - Bogs, Marshes			
		Season	Suitability	Importance?			5.5 Wetlands (inland) -> Wetlands (inland) - Dogs, Maisnes			-
I Previo Ne	5.1. Wetlands (inland) -> Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls)	Resident	Suitable	Yes						
All Fields View	5.4. Wetlands (inland) -> Wetlands (inland) - Bogs, Marshes, Swamps, Fens, Peatlands	Resident	Suitable	Yes						
Distribution Occurrence										
Population										
Habitats and Ecology										
Use and Trade										
Threats										
Conservation										
Ecosystem Services							Sav	e Selecti	ion Cancel	
Red List Assessment Text Accounts										
Text Accounts										

HA	BITAT, THREATS & CONSERVATION MATRIX: NEG	ROS - PANAY FAUNA						
	1. Forest	1.6 Subtropical / tropical moist lowland	Suitable	Х	X	X	X	X
	1. Polest	1.9 Subtropical / tropical moist montane	Suitable	X	X	X	X	
	3. Shrubland	3.6 Subtropical / tropical Moist	Suitable		Х			
		4.5. Subtropical / tropical dry	Marginal			Х		
	4. Grassland	4.6 Subtropical / tropical seasonally wet / flooded	Marginal	X	X			
		4.7 Subtropical / tropical high altitude	Marginal	X				
	14. Artificial / Terrestrial	14.6. Subtropical / tropical heavily degraded former forest	Marginal	Х				



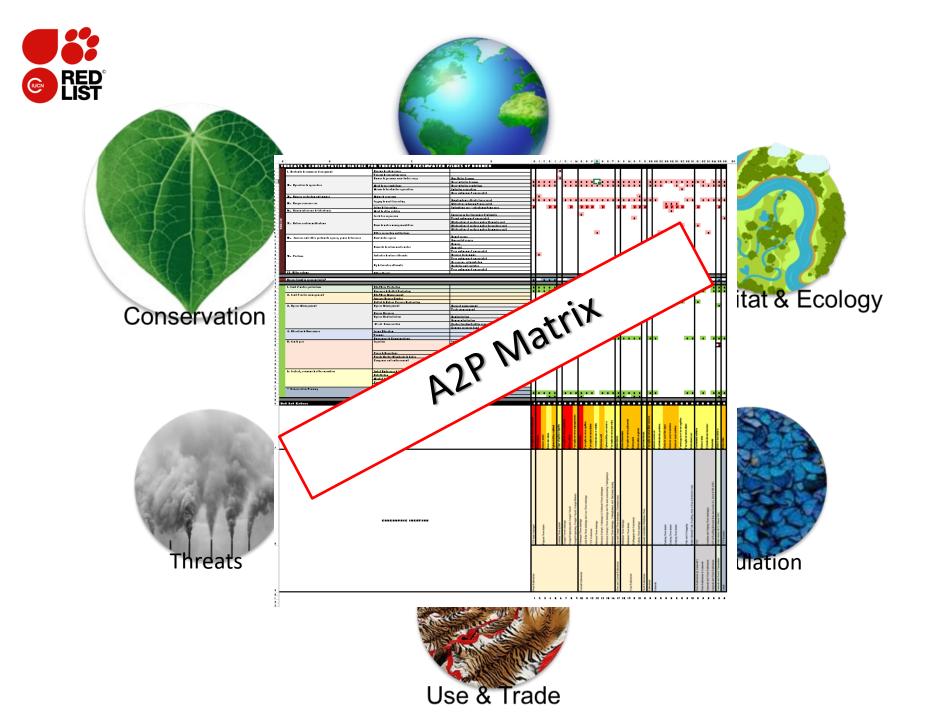
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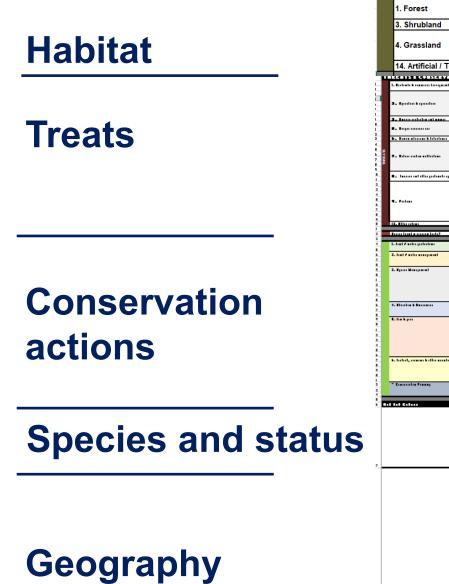
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Sclaudine Gibson	Freshwater_Fishes_Sundaic_1_Worksh		Sundadanio ma	rgarition									
IUCN SSC Freshwater Fish Specialist Group	Freshwater_Fishes_Sundaic_1_Worksh	nop_C_Claudine Gibson v	Sundadanio reti	arius									
A A TA	Freshwater_Fishes_Sundaic_1_Worksh	nop_D_Amy Palmer-Newt	Sundadanio rub	ellus									
	Freshwater Fishes Sundaic 1 Worksh	nop E Clay Meredith via	Systomus rubrip	binnis			•	•					
Sundadanio retiarius	🖀 Read Only Mo 📄 New 🛛 🔚 Sar	ve 🔟 Attachments 🕶 📄	References -	🕕 Summary 🔹	🌽 Tools 🔻	\land Manage Cre	edits 👻 Auto-Sa	ave Options -					
(VU)	Documentation Coded Threats												
Status: Draft	Threats Classification Scheme												
Region(s): Global Language: English Last 10 Jan 2019, 3:58 AM	No past, ongoing, or future threats exist	to this species.				The threats to this	species are unkno	wn.					÷
Modified: UTC+13 by Daniel Lumbantobing													÷
	Selections for Threats					View/Edit	t Quick Add						
Previo Net			Timing	Scope	Severity	Impact Score	No. of Stresses						
All Fields View	2.1.3. Agriculture & aquaculture -> Ann crops -> Agro-industry farming	ual & perennial non-timber	Ongoing	Majority (50- 90%)	Rapid Declines	Medium Impact: 7	4						
Distribution Occurrence Population	5.4.1. Biological resource use -> Fishin resources -> Intentional use: (subsister		Ongoing	Unknown	Slow, Significant Declines	Unknown	3						
Habitats and Ecology Use and Trade	7.2.3. Natural system modifications -> I management/use -> Abstraction of surf		Ongoing	Majority (50- 90%)	Very Rapid Declines	High Impact: 8	4						
Threats Conservation Ecosystem Services Red List Assessment Text Accounts													
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IUCN Species Information Service	X M Inbox (7) - cgibson.nz@gmail.cor X +	1.1. Site/area protection	- 0 ×
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ACCIC	Working Sets Filter 3 3 9 🗣 Taxon List Betta macro	s 2.1. Site/area management	
1 0	Freshwater_Fishes_Sundaic_1_All via Catherine Sayer ^ Betta macrostoma	2.2. Invasive/problematic species control	
R Claudine Gibson	Indo-Burma_freshvater_fishes_all via David Allen	2.3. Habitat & natural process restoration	
IUCN SSC Freshwater Fish	New_Zealand_FW_Piants via Caroline Pollock	Image: Provide the management (4)	
Specialist Group	PUBLISHED_2013.1_New_Zealand_FW_Odonata via Caroline Pollock	Image: Second	
🔅 🛣 🊺	PUBLISHED_2013.2_Invertebrates_Molluscs_FW_New_Zealand via Caroline Pollock PUBLISHED_2014.3_New_Zealand_FW_Fishes via Caroline Pollock	3.1.1. Harvest management	
Betta macrostoma (EN)	🖹 Read Only Mode 🕐 New 🔚 Save 🕼 Attachments + 📓 References + 🕕 Summary + 🤌 Tools + 🍰 Manage Credits 🖌 Auto-Save Options +	3.1.2. Trade management	
(Brunei Beauty)	Documentation In-Place Conservation Needed Research Needed	 3.1.2. Hade management 3.1.3. Limiting population growth 	
Status: Draft	Important Conservation Actions Needed		
Region(s): Global	· · · · · · · · · · · · · · · · · · ·	3.2. Species recovery	
Language: English Last 12 Dec 2016, 2:48 PM		Image: Species re-introduction (2)	
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Administrator		3.3.2. Benign introduction	
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All Fields View	2.1. Land/water management -> Sterarea management 3.1.1. Species management -> Species management -> Harvest management	3.4.2. Genome resource bank	
Distribution	3.1.2. Species management -> Species management -> Trade management	Image: A state of the state	
Occurrence	3.4.1. Species management -> Ex-situ conservation -> Captive breeding/artificial propagation	4.1. Formal education	
Population Habitats and Ecology	4.3. Education & awareness -> Awareness & communications		
Use and Trade	5.1.2. Law & policy -> Legislation -> National level	4.2. Training	
Threats Conservation	5.1.3. Law & policy -> Legislation -> Sub-national level	4.3. Awareness & communications	
Ecosystem Services	5.2. Law & policy -> Policies and regulations	Image: Provide the second s	
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		5.3. Private sector standards & codes	
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		 Chief and an anti-order and anti-order anti-order and anti-order an	
		 6.1. Linked enterprises & livelihood alternatives 	
		6.2. Substitution	
		6.3. Market forces	
		6.4. Conservation payments	

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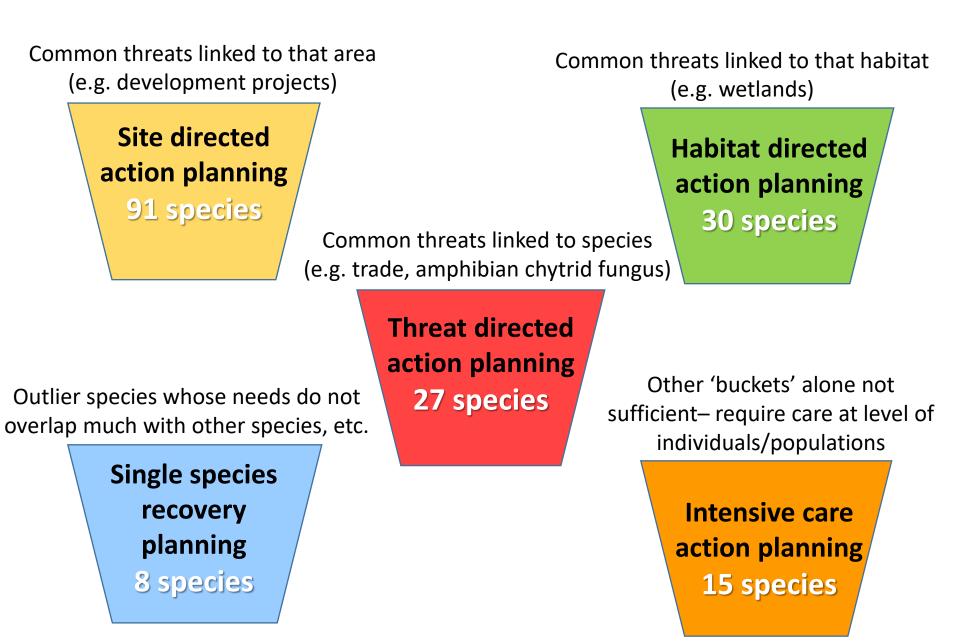
6.5. Non-monetary values





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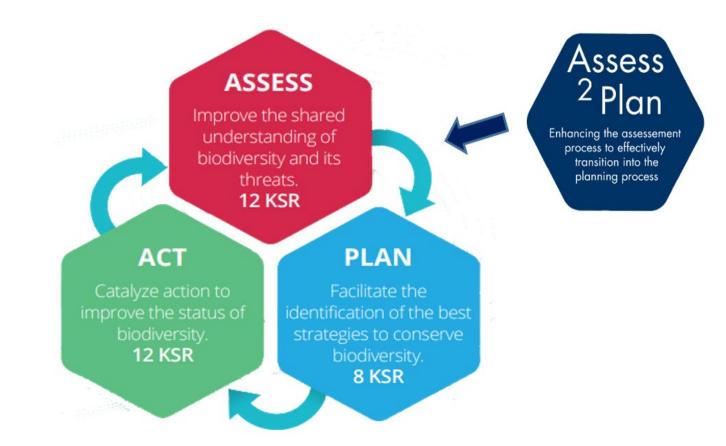
Conservation Action Planning Bundles





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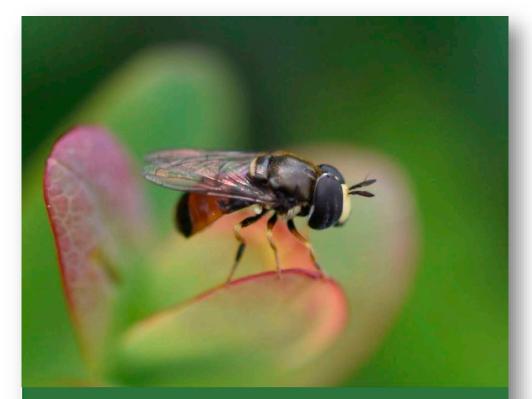






The identified goals for hoverfly conservation in Denmark

- **GOAL 1** Old and veteran trees, and their features, are valued and protected.
- **GOAL 2** Forest management supports hoverflies.
- **GOAL 3** There is a diverse herb layer in open areas as well as forests and ecotones between them.
- **GOAL 4** Dune systems are dynamic and biodiverse.
- **GOAL 5** Natural hydrology is protected or restored especially small water bodies and watersaturated ground.
- **GOAL 6** Pesticide use is rare and carefully targeted.
- **GOAL 7** Any commercial beekeeping practices in Denmark are compatible with hoverfly conservation efforts.
- **GOAL 8** There are sufficient tools, data, databases and experts for effective hoverfly monitoring and conservation in Denmark.
- **GOAL 9** Relevant sectors of society know what hoverflies are and are aware of their ecological value, conservation needs, and what they can do to help conserve them.



MOVING FROM ASSESSMENT TO CONSERVATION PLANNING FOR HOVERFLIES IN DENMARK



Som et fel arbejdet med strategien har Mijisatyrvisen i aamzteigie med ULCN Conservation Iphannig Specializati Group (CPSG) Europe dravet CPSG-konceptet Asses to Tam (AZP), II brug for planlegning af forvathing af hele grupper af truede arter. Konceptet tager udgangpunkt i a same levisitemende data og udje no martemet bolder, judherdele, zivat II leviseteder, prestikatorer, overvågningsdata, raditislevuderinger samt nautriovathing i relation til arteme. Konceptet forustatter, at arbejdet sker i samattelige med lokale biologiske eksperter, represtanter for draveten myndigheted og reitersesinglengen som for eksemple lokalejere.

Projektet blev gennemført med fokus på danske svirrefluer, som repræsenterer en stor del af de vilde bestøvere i Danmark. Der findes ca. 300 arter af svirrefluer i Danmark, hvoraf 55 er rødilstede. Projektet blev gennemført som et pilotprojekt, hvor der ikke skulle tages hensyn til ressourcer eller ansvar for efferfølgende gennemførelse af indsatser.

Projekte bekrafteden, at der opräkt skot synnergi, här man samter mange fostskellige eksperter og interessenter om et fælles emme. Projektel viste, at det generetel at de samme preslaktorer og de samme virkender, som har stor behydning for stort set hele artsgruppen – og med stor sandsrighed for mange andre atter af vike bestøvrere. Det drejer sig primært om omfang og vaktet af ellvesteder og mikrochaltalter. Særdig hyston areater med mange bestøver i nærbeden af vetternatnære, dødt ved og vandhuller har stor behydning. Svirretlæver er generett nyttedyr, som ut over at biologie til bestøvning i mange tiltaktog spå har lærver, som for skørmel bisjøre bladus og rodus. En stor del af er virretlærnes laver lever i tilknytning til veterantnære og dødt ved, eller i vide bioper.

Som tiel i projektist blev der seit på en del af de eksisterende forvaltningsredskaber og på, om de virker hensigtsmæssige i forhold til at skabe bedre vilkår for svirrefleur. Et viggte redskab til at skabe lysiben utatur med nange biomster er eksterniv græsning, som samkligt bidrager med afføring, der også er viggtig for mange insekter og dense larver. Beskyttelse af veterantræer i skovene og det biske landskab er ligteldese et viggtig tredskab.







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