

AMPHIBIAN MITIGATION MEASURES IN CENTRAL-EUROPE

A L`CgDi`mflV`#ZU`.\$\$\$!`*!&+!`() \$&`ž9a UJ`. \+-`(- di`_4Y`U\i`Lž<i`b[UfJub`8Ubi`WY`FYgYUWV`
GhUjcb`cZ`h.Y`-bgj]h`hV`cZ9Vt`c[mUbx`6chUbricZ`h.Y`<i`b[UfJub`5VWXYa`mcZGVWbWgž`
&%`%;`"Xž>zj`cf`UG`i`"%%ž<i`b[Ufn

Abstract. Gh J'X'g žca`XJZZYfYbhVtbbhYbYhg`Uj`Y`dfcj`YX`Ua`d\J'Ubg'fc`VY`h.Y`a`cghZ'Yei`Ybhm`J`YX`j`YfH'VfU'Y'g'cb`
fcUXg`-b`7YbhfU'9i`fcdY`h.Y`f'fUhc`Jg`VYk`YYb`+\$`UbX` , `dYfWbH`@cW`dcddi`Uhcjbg`UfY`_bck`b`fc`VYVt'a`Y`Yi`hjbVt'cf`
[YbYh'W`m]gc`U'HX`UbX`Uj`cJ'U'W`Jg`U'gc`fVt[b]gYXZ`YgdYVWU`m'k`VfY`h.Y`fcUX`bYk`cf`_Jg`XYbgY`UbX`h.Y`f'fUWJg`
JbY'bgj]`Y`6YgJ'XYg`Vt'c[J'W`UbX`Vt'bgYfj`Uhcj`Vt'bgJ'XYfUhcjbgž`Ua`d\J'U'ub`fcUX`_J`U'gc`dfYgYbhU`U'U'fX`ž`f`a`c'f'f'g'g`
k`Y`b`Ua`d\J'U'ub`a`J`fU'Y`bi`a`VYf'g

A Jh[Uhcj`a`YUgi`fYg`ž`f`Ua`d\J'U'ub`g`Uj`Y`VYVb`Udd`J'X`g'lbW`h.Y`%`*`\$g`-b`7YbhfU'9i`fcdY`h.Y`UfghUa`d\J'U'ub`!`
fY`U'HX`W`j`Yfha`cX]UW'hjcb`cWV`fYX`UhdUfUggUddi`gnrUž<i`b[Ufnr]b`%` ,`*`5`bi`a`VYf`cZ`Ua`d\J'U'ub`cfj`YbH'YX`
a`Jh[Uhcj`a`YUgi`fYg`Uj`Y`VYVb`a`UXY`Jb`h.Y`fY[Jcb`i`bXYf`fcUXg`UbX`a`c'f'f'k`Ung`g'lbW`h.Y`bZ`YgdYVWU`m`UzYf`%`-`)"`
h.Y`Uja`cZ`h`Jg`dUdYf`Jg`fc`XYgW'VY`h.Y`a`Uj`b`Z`U'hi`fYg`cZ`h`YgY`Vt'bgf]i`Vt'cbgž`c`Yfj`Yk`h.Y`XJZZ`fYbhX'Yg]l`bgž`UbX`
a`U`_Y`gi`[[`Ygh'cbg`ž`f`h.Y`f'J`a`dfcj`Ya`YbhUg`k`Y`Ug`ž`f`ž`h`fY`Ua`d\J'U'ub`cfj`YbH'YX`a`Jh[Uhcj`a`YUgi`fYg`Jb`[YbYfU`"5`
h'U`cZ`%`fcUX`gYVt'cbg`k`Ug`a`cb]f'c'fYX`"6YgJ'XYg`Ua`d\J'U'ub`h`bbY`gž[Ua`Y`dUggU]`Yg`UbX`[Ua`Y`VfJX]`Yg`k`YfY`U'gc`
Jb]`Yg]l`U'HX`"6ch`h.Y`XYfUJ`YX`W`U'fUW'f'f'g`Uhcj`cZ`h.Y`h'V`b]J'W`gc`i`h'cbg`UbX`h.Y`gi`fj`YmcZ`Ua`d\J'U'ub`dcddi`Uhcjbg`
UbX`U'V`fU'g`k`YfY`JbW`XYX`Jb`h.Y`a`Y`h`c`X`c`[`f

h.Y`Jb]`Yg]l`Uhcj`cZ`h.Y`h`bbY`gnr]Y`a`g`g`k`YX`U`[`fY`U`H`X`j`Yf`g]h`m`Y`["ž`Jb`h`bbY`UbX`Z'bw`a`U'f'f'U`Z`h`Y`f`d'c'g]h`j`cb`
Jb`fY`Uhcj`b`h`h.Y`fcUXZ`UbX`Vt'bbY`Vt'cbg`VYk`YYb`h.Y`a`":`c`f`Vt'bc`a`J'W`fYU'g'cbg`Vt'bc`VYf'Y`h`bbY`g`k`YfY`h.Y`a`c'g'f`
Vt'a`a`cb`"6ch`W'f'W`U'f`UbX`gei`UfY`Vt'c'g'g'Y`Vt'cb`h`bbY`g`k`YfY`Jb`d`UW`"h.Y`UWV`gg]V`J`hmc`Z`h`Y`YbH'U'W`k`Ug`U`
dcgg]V`Y`dfcV`Ya`ž`YgdYVWU`m]b`UfYUg`k`VfY`Yf'c'g]cb`Jg`Vt'bgJ'XYfU'Y`"D`Ugh]W`a`Yg`UbX`Vt'bc`VYf'Y`Z'bw`g`k`YfY`Vch`
Udd`J'X`k`Jh`U`_Y`j]`V`h`U`V`h`U`j`b`[`VYk`YYb`(`)`UbX`+\$`Vt`"D`Ugh]W`Z'bw`g`UfY`i`gi`U`m`U`YX`fc`k`ccXYb`dc`Ygž`k`J'W`b`Y`YX`
h`c`VY`W`Y`W`YX`VY`ž`f`h.Y`a`J`fUhcj`b`dYf'cX`ghUf'g`<`ck`Yj`Yfž`h.Y`UXj`UbH`U`Y`cZ`g`W`Z'bw`Vt'cb`[`Jg`U'Y`J`J`h`k`_`J'W`a`U`_Y`g`
dcgg]V`YZY`["ž`h.Y`h`fb]b[`VUW`cZ]h`g`YbX`g`fc`dfYj`YbH`Ua`d\J'U'ub`g`žca`[`Y`h`j`b`[`cb`h.Y`fcUX`

Gca`Y`gnr]Y`a`g`X`J`b`ch`k`cf`_VYVW`i`g`Y`W`f`U`J`b`Y`Ya`Yb`h`g`f`i`gi`U`m`Z'bw`g`k`YfY`Jb`VUX`Vt'bc`X`h`j`cb`"9`gYk`VfY`UW`_cZ`
a`Uj`b`Y`b`UbW`fY`X`i`W`X`h.Y`YZW`Y`b`W`ic`Za`Jh[Uhcj`a`YUgi`fYg`"A`Jgg]b[`Y`Ya`Yb`h`g`k`ci`X`VY`fYd`UW`X`Ja`a`YX`J`U`Y`n`Y`j`Y`b`
J`Z`h`Y`Ua`d\J'U'ub`a`J`fUhcj`b`dYf'cX`Jg`c]`YfZ`VYVW`i`gY`c`h`Yf`U`b`Ja`U`g`ž`Y`["ž`ga`U`"a`Ua`a`U`g`ž`U`gc`i`gY`h`Y`gY`gnr]Y`a`g`"
h.Y`_c`k`Ygh`X`Jg`U`b`W`VYk`YYb`h`bbY`g`Jb`Ua`d\J'U'ub`a`Jh[Uhcj`gnr]Y`a`g`Jg`(\$`\$`a`Jb`h.Y`fY[Jcb`f`i`Xck`U`N`X`f`cZ`Dc`U`X`L`"
I`gi`U`m`Ua`d\J'U'ub`h`bbY`g`k`YfY`d`UW`X`)\$!%\$`\$a`žca`YUW`c`h`Yfž`k`_`J'W`Jg`Ub`UWV`d`U`V`Y`X`Jg`U`b`W`"b`Vt'gY`cZ`
UX`Yei`U'Y`Z'bw`Vt'cb`ž[Ua`Y`dUggU]`Yg`UbX`[Ua`Y`VfJX]`Yg`k`ci`X`U'gc`VY`Udd'f'c'f`J`U`Y`ž`f`h.Y`Vt'c'g]b[`cZ`Ua`d\J'U'ub`g`k`Y`"
Ug`f`d`h`Y`g`UbX`ga`U`"a`Ua`a`U`g`ž`g]a`J`U`f`fc`g]l`h`ma`cX]J`U`X`Yi`Jg]h`b[`W`j`Yf'g]i`b`XYf`_`J`[`fcUX`a`c`f`U`J`f`m`g`Y`Vt'cbgž`UbX`
h`h`Y`f`k`ci`X`V`Y`U`b`Y`X`ž`f`gi`W`Vt'bgYfj`Uhcj`Ja`dfcj`Ya`Yb`h`g`U`h`gY`YfU`g]h`Y`g`

5g`U`fY`gi`h`cZ`h`Jg`k`cf`_ž`gY`YfU`fYVt'a`a`YbX`Uhcjbg`cb`h.Y`a`Uj`b`Y`b`UbW`cZ`Ua`d\J'U'ub`h`bbY`g`UbX`Z'bw`g`k`YfY`
U'gc`XYj`Y`cdYX`":`i`f`h`Y`f`W`cdYfUhcj`b`Ua`cb[`XJZZ`fYbhU`Y`b`W`Y`g`UbX`cf[`Ub]g`Uhcjbg`k`Ugi`f[`YXž`b`Uhcj`b`U`m`U`k`Y`"U`
JbY`f`b`Uhcj`b`U`m`h`Y`Ja`dfcj`Ya`Yb`h`cZ`d`V`J`W`Y`Uhcj`b`U`m`j`J`Y`g`cb`Z`i`b`U`d`UggU]`Yg`U'gc`gY`Ya`g`fc`VY`b`Y`Y`X`ž`f`h`Y`
YZY`Vt'j`Y`dfch`Vt'cb`cZ`k`J`X`J`Z`cb`fcUXg`

Introduction
Effect of Road Kills on Amphibians

HfUbgdcf'fUhcj`b`JbZ`Ug'f]`Vt`fY`Ug`U`a`Ubntž`X`Ja`dUW'icb`h.Y`Y`b`J`f`c`ba`Y`b`H`F`c`U`X`_J`g`UfY`Ub`cVj`Jci`gYi`Ua`dY`
fYVt[`b]gYX`YUf`mcb`VYVW`i`gY`h`Y`m`U`gc`h`fY`U`h`b`h.Y`g`U`Z`Y`h`m`c`Z`a`c`f`c`f`g`h`g`"5a`d\J'U'ub`fcUX`_J`"Jg`U`k`cf`Xk`JXY`
d\Ybca`Ybcb`Xi`Y`fc`h.Y`V`J`d`Ug]W`Ua`d\J'U'ub`"JZ`Vt'W`UbX`h.Y`Vt'bgYei`Ybha`J`fUhcj`b`Ua`cb[`h.Y`XJZZ`fYb'r`
\U`j`h`h`m`d`Y`g`h`U`h`Ua`d\J'U'ub`g`i`gY`"6YVW`i`gY`cZ`Vt'bgf]i`Vt'cb`Vt'bgJ'XYfUhcjbgž`fcUXg`UfY`cZ`Y`b`g]h`U`HX`U`cb[`h.Y`
YX]`Y`cZ]`Yc[`f`Ud`_J'W`Z`U`h`fYg`h`U`h`d`f`c]`J`Y`XJZZ`fYbh`U`V`j`h`g`ž`f`Ua`d\J'U'ub`gž`Y`["ž`U`g`k`Jb`Y`f`_J`VYf`b`Uhcj`b`g]h`gž`
VfY`YX`Jb[`g]h`gž`c`f`gi`a`a`Yf`_U`V`j`h`g`"5g`U`Vt'bgYei`YbW`ž`U`gY`U`gc`b`U`a`J`fUhcj`b`d`U`h`Y`f`b`Jg`_L`Y`m`r`c`V`W`f`J`b`gi`W`
fcUX`gYVt'cbg`h`U`h`i`bžY`["ž`VYk`YYb`ž`c`h`J`"g`cZ`a`ci`b`U`J`b`g`UbX`U`c`X`d`U`J`b`gž`U`cb[`"Uf`[`Y`_U`Y`g`cf`fYgYfj`c]f'gž`
Y`h`V`f`f`n`U`W`j`%`-`-`)"`-`b`c`h`Y`f`W`U`g`ž`f`c`U`X`g`W`h`h`Y`g`Ua`Y`_U`V`j`h`U`ž`Y`["ž`k`Y`h`U`X`gž`]b`h`c`ga`U`Y`f`ž`U`[`a`Y`b`h`g`W`i`g]b[
fcUX`_J`"dfcV`Ya`g`fc`VY`dfYgYbhU`g`cb[`Ug`h`Y`Ub`Ja`U`g`UfY`U`m`j`Y`"h`ci`[`_`fcUX`f`f`U`Z`W`W`b`_U`j`Y`U`Vt'bgJ'XYfU'V`Y`
YZY`Vt'cb`X`Zca`XJZZ`fYbh`Vt'bbh`b`Yb`h`g`U`j`Y`dfcj`YX`Ua`d\J'U'ub`g`fc`VY`h`Y`a`cghZ`Yei`Ybhm`J`YX`j`YfH'VfU'Y`g'cb`
fcUXg`f`gY`5g`_Y`m`U`b`X`F`c`V`J`b`g`c`%`-`*`L`@`c`W`"dcddi`Uhcjbg`UfY`_bck`b`fc`VYVt'a`Y`Yi`hjbVt'f'c`c`_Y`%`-`-`)"`L`c`f`
[YbYh'W`m]gc`U'HX`f'f`Y`_`%`-`-`ž`J`cg`Y`h`U`"`&\$`\$`ž`U`b`X`U`j`c`J`U`b`W`Jg`U'gc`fVt[b]gYX`f`i`U`f`j[`Y`h`U`"`%`-`-`)"`ž`J`cg`
/`_`7`U`f`X`cb`%`-`-` ,`ž`YgdYVWU`m`k`VfY`h`Y`fcUX`b`Y`k`cf`_Jg`XYbgY`UbX`h.Y`f'fU`Z`W`Jg`JbY'bgj]`Y`"6YgJ'XYg`Vt'c[J'W`
UbX`Vt'bgYfj`Uhcj`Vt'bgJ'XYfUhcjbg`f]`YbYfU`_XYW`j`b`Y`cZ`Ua`d\J'U'ub`gž`dfch`Vt'cb`cZ`-b`h`f`b`Uhcj`b`U`f`YX`8`U`f`6`cc`_`

Ua d\JVJUb'gdYVWgZ'YH'WZ'jhiU'gc'a YubgU\UnUFX'Zc'fa chcfjgng'k\Yb'Ua d\JVJUb'g'a J[fUHY'Jb'Uf'Y'bi' a' VYfg" A JhJ[UHjcb'a YUgi fYg'Zc'f'Ua d\JVJUb'g'Uj'Y'VYyb'Udd'JYX'g]bW' h.Y.% * \$gz'Ufgh]b'K'Ygh'Yfb'9i' fcdY'" <ck'Yj'Yfz' Jb'Xj' Jxi' U' Vei' bff'Yg'Wb' [fYUhmX]ZZY'f'Ug'h'Y'Ufgh'Ua d\JVJUb' hi' bbY'g'k'YfY'WYUHYX'Jb' h.Y.% * \$g'Jb'Gk'JmYf'UbX' UbX'; Yfa' Ubrz'UbX'Jb' h.Y.'a' JX!%, \$g'Jb' h.Y.'? " "b' h.Y.'i' b]YX'GHUHY'g'h'Y'Ufgh'g'U'Ua' UbXY'f'hi' bbY'g'k'YfY'Vi' J]h]b' % , + fUW'gcb'UbX' h]b]b] % , - E

Geographical Extent of the Study

H.Y'dfYgYb'gh'i' X'mXYU'g'k'Jh'a' JhJ[UHjcb'a YUgi fYg'Jb'7Yb'fU'9i' fcdY'Z'k\JW'Jg'Ub'Ua' VJ[i'ci'g'm'Udd'JYX'h'Y'fa' Jb'dc'Jh'Vg'Z'V'Ve'bca' J'Vg'Z'YH'V'<YfY'Jh]g'i' gYX'U'W'Ve'fX]b['hc'h'Y'[Yc[fUd\mcZ'h'Y'Ve'b]b'Yb'h' h.Y.' [Yc[fUd\JW' W'b'f'Y'cZ'9i' fcdY'Jg'Jb' h.Y.'Hjgn'U'j'U'Y'm]b' h.Y.'dfYgYb'hi' _fUj'Y'c'fz'U'W'Ve'fX]b['hc'Ub'ch'Y'f'a' Y'h'cX'Z'Jb'Dc'UbX'Z'b'YU'f' 6]U'ng'hc_" _b]Y'g'hJ[UHjcb'g'dfYgYb'h'Y'Jb'h'Jg'd'Ud'Y'f'k'Y'f'Y'a' cgh'm'W'f'f'JYX'ci' h]b' h.Y.'k'Y'g'h'Y'f'b'd'U'f'hc'Z'h'Y'f'Y[Jcb'Z'U'g'c' W'Y'X'7Yb'fU'9i'U'g'h'Y'f'b'9i' fcdY'Z'V'Y'W'i' g'Y'Jb'Ve'i' bff'Y'g'k'Jh' U'Y'g'g'X'Y'Y'c'd'Y'X'V'Ve'bca' n'z'Y" 'Zl' _fUj'Y'Z'h'Y'f'Y'U'f'Y' bc'Ua' d\JVJUb'a' JhJ[UHjcb'a YUgi fYg'cb'fc'U'X'g'Xi' Y'hc'Ub'Ub'V'U' f'Y'U'g'c'g'f'f'Y'g'Y'm'c'Z'd'Y'f'g'W'e'a' a' ""&\$'\$' E" 'A' cgr' Yl'Ua' d'Y'g'Jb' h'Jg'U'f'h'W'U'f'Y' h'U'Y'b'Z'f'ca' <i' b[U'f'r'z'Dc'UbX'Z'UbX'G'c'j'Y'b]U" 'A' JhJ[UHjcb'a YUgi fYg'Jb'5i' gr'f'J'U'U'f'Y' b'c'l' X'l'd'W'c'd'Y'X'\Y'f'Y'

Knowledge of the Herpetofauna of Central-Europe

bXj] Jxi' U'7Yb'fU'9i' fcdY'Ub'Ve'i' bff'Y'g' [fYUhmX]ZZY'f'k'Jh' f'Y[U'f'X'hc'k' \U'h'Y'i' h'Y'b'h' h.Y.'X]g'h'Vi' h]cb'c'Z'c'W'U' \Y'f'd'Y'hc'Z'Ji' b'U'J'g' _b'c'k' b" h.Y.'7n'Y'W' f'Y'di' V'J'W'U'g' h.Y.'V'Y'g'h' _b'c'k' b' \Y'f'd'Y'hc'Z'Ji' b'U'J' b' h.Y.'f'Y[Jcb'Z'U'j' Jb['V'ch' J]hg' Ua' d\JVJUb' UbX'f'Y'd'h'Y' U'h'U'g'di' V'J'g'Y'X'f'A' c'f'U'j' Y'W'-% - (Z'A' _z'hc'j'z' Y'h'U'"&\$'\$'z'k'Jh' X'Y'U'J'Y'X'X'Y'g'W]d'h]c'g'cb' h.Y.' V'e'b'g'f'f' UHjcb'g'U'hi' g'Ub'X' h'f'Y'U'hg'c'Z'h'Y'g'd'Y'W'g'z'Jb'W' X]b['f'c'U'X'f'Y'U'f'X'J'g'g'i' Y'g'" b'c'h'Y'f'Ve'i' bff'Y'g'Z'c'k'Y'j'Y'f'z'gi' W' Jb'Z'c'fa' UHjcb'J'g'Y'g'g'X'Y'U'J'Y'X'Z'c'a' c'f'Y'g'W'U'h'Y'f'Y'X'Z'V'i' h'h'Y'f'Y'U'f'Y'J'a' d'c'f'U'b'h'b'Y'k' X'Y'Y'c'd'a' Y'b'hg'J'b'g'Y'Y'f'U'c'Z'h'Y'a' z' Y"l' "Z'h'Y' di' V'J'W'U'j'cb'c'Z'U'j' Y'f'm'X'Y'U'J'Y'X' UbX'k'Y"l'J'i' g'h'U'f'X'X'Y'h'Y'fa' Jb'U'f'h'c'b' _Y'm]b'G'c'j'Y'b]U'f'J'Y'Y'bj' J'h'U'b'X'?'i' g' J'Y'Y'bj' J'h'&\$'\$' E'

Importance of Amphibians in Vertebrate Road Kills in Central-Europe

I' b'f'Y'U'f'X'hc' h.Y.'U'V'i' U'g'U'hi' g'c'Z'Y'f'd'Y'hc'c'J' J'W' f'Y'g'Y'U'f'W' Jb' h.Y.'X'J'Z'Y'f'Y'b'h'Ve'i' bff'Y'g'z'f'c'U'X' _J'g' \U'j' Y'V'Y'Y'b'g'hi' X'J'Y'X' V'm'b'U'f'hc'g'n'k' J'm'i'f'-% - + E'Ub'X'K'c' _f'-% +, E]b'Dc'UbX'Z'8Y'b'U'W'f'&\$'\$' E]b'G'c'j'Y'b]U'z': Y'b'n]j'Y'g'f'-% , - E]b' <i' b[U'f'r'z' UbX'<c'J'g'c'z' UbX'CV'f'h'Y'f'-% , * E]b' h.Y.'7n'Y'W' f'Y'di' V'J'W'f'7n'Y'W'c'g'c'j' U' _J'U'U'h' h.Y.'h'j'a' Y'c'Z'di' V'J'W'U'j'cb'z'd'f'c'j' Jb[h.Y.'J'a' d'c'f'U'b'W'c'Z'h'Y' h'c'd'J'W' h.Y.'a' U'j'b' W'U'f'U'W'f'f'g'h'V'g'c'Z'h'Y'J'b]j' Y'g'hJ[UHjcb'g'U'f'Y' d'f'Y'g'Y'b'h'Y'X'J'b' h'U'V'Y' %' h.Y.'f'Y' U'f'Y' V'e'b'g'j'X'Y'f'U'Y'X'J'Z'Y'f'Y'b'W'g'V'Y'f'k'Y'Y'b' h.Y.'J'b]X'j' Jxi' U'k'c'f'g'8i' f'U'h]c'z'Z'c'f'Yl'Ua' d'Y'Z'j' U'f'Y'X'V'Y'f'k'Y'Y'b'c'b'Y'X'U'h' f'l'Y'b'n]j'Y'g'-% , - E'Ub'X' %\$' n'Y'U'f'g'f'k'c'J'g'c'z' UbX'CV'f'h'Y'f'-% , * E'" <ck'Y'j'Y'f'z'J'b'h'f'Y'g'h]b['m'Y'b'c'i' [\Z'a' c'f'Y'J'b]X'j' Jxi' U'g'k'Y'f'Y' f'Y'd'c'f' h'Y'Z'c'a' h.Y.'g]b['Y'X'U'm'g'hi' X'm'h'U'b'Z'f'ca' h.Y.'c'b] Y'g'h'c'V'g'f'f'j' UHjcb'Xi' Y'hc'X'f'j' Jb['g'd'Y'X'X'J'Z'Y'f'Y'b'W'g'z'd'U'f'hc'Z' h.Y.'X'U'm'g'hi' X'J'Y'X'Z'Ub'X'a' c'g'h'd'f'c'V'U'V'm'h'Y' W'U'f'U'W'f'f'g'h'V'g'c'Z'h'Y'U'f'Y'U'z'Ub'X'c'd'h'j'a' U'k'Y'U'h'Y'f'J'b' h.Y.'g]b['Y'X'U'm'g'hi' X'n' U'g'c'Yl' d'f'Y'g'g'Y'X'V'm'Z'U'f' h.Y.'\J[\Y'g'h'bi' a' V'Y'f'c'Z'U'j' Y'f'U['Y'f'c'U'X! _J'Y'X'J'b]X'j' Jxi' U'bi' a' V'Y'f'd'Y'f' _a' d'Y'f'g'i' f'j' Y'm'h' h.Y.'Y'b] h'c'Z'h'Y'a' c'b]h'c'f'Y'X'f'c'U'X'g'h'f'Y'W'k'U'g'V'Y'f'k'Y'Y'b' %%" 'Ub'X' %\$\$_a' f'b'U'f'hc'g'n'Y'k' J'm'i'-% - + Ub'X': Y'b'n]j'Y'g'-% , - z' f'Y'g'd'Y'V'W'j' Y'n'z'Ub'X' h.Y.'h'c'U'J'bi' a' V'Y'f'c'Z'f'c'U'X! _J'Y'X'Ub]a' U'g'k'U'g'V'Y'f'k'Y'Y'b' % + Ub'X'&Z\$() 'f'k'c' _% +, 'Ub'X'8Y'b'U'W' &\$'\$' z'f'Y'g'd'Y'V'W'j' Y'n'z'k' \J'Y' h.Y.'bi' a' V'Y'f'c'Z'f'V'e'f'X'Y'X'g'd'Y'W'g'c'f' [f'c'i' d'g'k'U'g'V'Y'f'k'Y'Y'b' &%Ub'X' +%f'l' Y'b'n]j'Y'g'-% , - Ub'X'8Y'b'U'W'&\$'\$' z'f'Y'g'd'Y'V'W'j' Y'n'z'

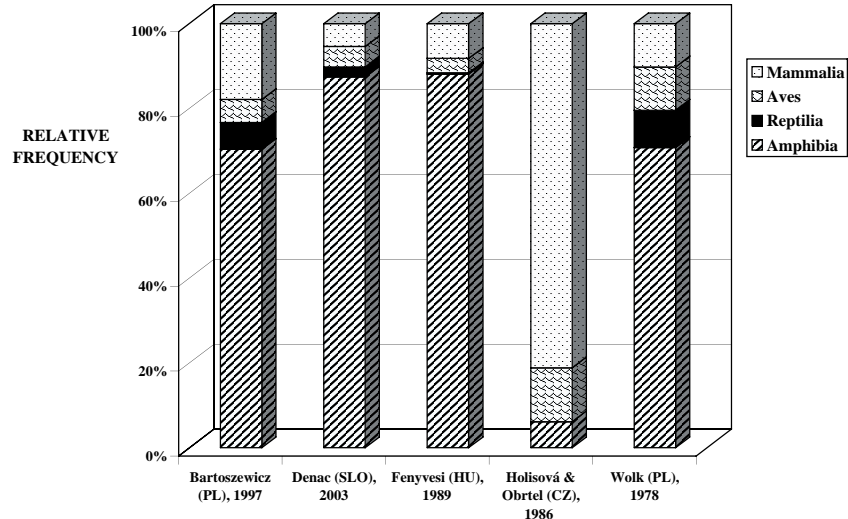
HUY'Y' %

A'U'J'b' W'U'f'U'W'f'f'g'h'V'g'c'Z'7Yb'fU'9i' fcdY'Ub'f'c'U'X' _J'g'i' f'j' Y'ng

	6U'f'hc'g'n'k' J'm'i' % - +	8Y'b'U'W' &\$'\$'	: Y'b'n]j'Y'g' % , -	<c'J'ac'i'z' / CV'f'h'Y'f'-% , *	K'c' % +,
F'Y[J'cb	K'Y'd'Y'f'b]Dc'Ub'X	7Y'b'f'U'G'c'i'Y'b]U	K'Y'g'Y'f'b]c'i' b[U'f'n	9U'g'h'Y'f'b]7n'Y'W' f'Y'di' V'J	B'c'f'h'Y'U'c'h'Y'f'b]Dc'Ub'X
G'f'Y	G'c'ba' B'U'h' f'Y'F'Y'g'f'f'Y	@'f'V'U'b'U'a' c'c'f	H'U'ba'X'U'bi' V'J'U	A'c'f'U'f'U	6'U'c'k'f'Y'n'J' B'U'h' f'Y'F'Y'g'f'f'Y
F'c'U'X' h'ad'Y	\J] \k'U'h	a'U'j'b' f'c'U'X'Z'c'k'Y'f'f'c'U'X	'c'k'Y'f'f'c'U'X'a	a'c'h'c'f'k'U'h' \J] \k'U'h'c'k'Y'f'f'c'U'X'g	'c'k'Y'f'f'c'U'X
@'b[h'c'Z'a' c'b]h'c'f'Y'X'f'c'U'X'g'Y'W'j'c'b'f'l'a' t	%@	&* %	%@	- *)	%-
A'Y'U'g'c'Z'h'U'g'd'c'f'f'	V'n]j'W'c'f'V'U'f'	V'n]j'W'c'f'V'U'f'	V'n]j'W'W	v'U'r	a'c'h'c'f'W'W'W
G'd'Y'X'f'l'a' #\f't	O(\$	O(\$	O &)) \$l+ \$	' \$
G'h' X'm'd'Y'f'j'c'X	, "% -) " ! , "% - - *	' \$, "" &\$'\$' ! &- " , "" &\$'\$' %	&@ , "% , +	* "% + * ! * "% + , &" % , \$! , "% ,)	% ") "% +) ! & (" - "% +)
Bi' a' V'Y'f'c'Z'g'i' f'j' Y'ng	- %	,)	%	2) , \$	%
H'c'U'J'bi' a' V'Y'f'c'Z'f'c'U'X! T'Y'X'U'bl'a' U'a' f'Y'W'f'X'Y'X	%Z' * +	&Z\$()	%@%+	&&*	% +
Bc" f'c'U'X! _J'Y'X'g'd'Y'W'g'c'f' [f'c'i' d'g'f') &	+ %	&%	&'	&'
5'U'f'U'j'Y'bi' a' V'Y'f'c'Z'f'c'U'X' _J'Y'X'U'bl'a' U'g' f'j'b]X'j' Jxi' U'bi' a' V'Y'f' _a' #g'i' f'j' Y'nt	% &-	\$- &%	%\$ %a (\$" \$S(\$'Y' &(

I' b'W'g'Y'X'Y'f'a' Jb'U'j'cb' h'c' h.Y.'g'd'Y'W'g'Y'j'Y'k'U'g'J'a' d'c'g'g]V'Y' \J[\Y'f'f'U' h'c'ba' J'm' W'W'Y' [c'f'j'g'f'g' U' m'U'k'Y'b'f'U'U'f'Y'J' J'Y'b'z'k' \J'W' a' U'nt'j' Y'f'U'd'k' J'h' J'g'h'X'g'd'Y'W'g'

H.fYy]bj Yghj[UhjcbgYI hYbXYX ZcF Uh`YUghcbY Vta d`YHY`nYUf`fUfhcgnYk]m% - +z8YbUW&\$\$' ž<c]gcj z`UbX CVfHY`% , * kždfcj]X]b[`cddcfh b]hYg`hc`UbUngY`gYUgcBU`WUUb[Yg`UbX`a`U`Y`a`cF`[YbYfU`Yghja`UH`g`A`cgt`dfcVUV`mXi`Y`hc`X]ZZfYbHgUa`d`]b[`grfUH`[Yg`V]UgY`hck`UfXg`Uf`Yf`U]b`a`U`g`]b`h`Y`7nYVW`gi`fj`YmXi`Y`hc`Z]JghY`Xfj`]b[`gd`YYXgž`h`Uhk`cf`_`fYdcfHY`a`Ua`a`U`g`hc`VY`h`Y`a`cghZ`Yei`Ybhm`_`YX`Ub]a`U`g`cb`fcUXg`"5`"ch`Yf`]bj`Yghj[Uhjcbg`Zci`bX`Ua`d`]V]Ubg`hc`X]Y`]b`h`Y`Uf`Y`ghbi`a`VYf`cb`fcUXg`k`]h`U`fY`Uhj`Y`Z`Yei`YbVhVY`h`YYb`+`\$`("UbX` , "%dYfWbh]b`Vta`dUf]gcb`k`]h`ch`Yf`j`YfHYVfUH`gž`Ug`XYa`cbgfhUH`X`]b`XYHJ`]b`U`i`fY`%"6YVW`i`gY`XYUX`Ua`d`]V]Ubg`Uj`Y`h`Y`[`fYUHYghW`UbW`hc`VY`a`]ggYX`Xi`f]b[`j`YfHYVfUH`Y`fcUX!`_`]`gi`fj`Yng`fP`]bY`UbX`Gk`Ub`%`-` , `k`UbX`h`Y`mdfYgi`a`UV`mU`gc`Uj`Y`U`g`c`f`Y`f`Xi`fU]hcb`cb`fcUXg`h`Ub`a`Ua`a`U`gž`ZcF`YI`Ua`d`Yžk`cgY`Z`ffmg`_`]b`UbX`i`gi`U`m`Uf`Yf`g]hY`a`U`Y`h`Ya`j`]g]V`Y`cb]`Yfž`h`Y`UW`U`fU]h`j`g`dfcVUV`ma`cF`g`]Z`YX`hck`UfXg`Ua`d`]V]Ubg`f`k`Y`g`UbX`6i`Wk`U`X`&\$\$%`B`Yk`hg`UbX`g`U`Ua`UbX`Yfg`YgdYVW`U`m`V`Ub`VY`cj`Yf`cc`_`YX`YUg`]m`Xi`Y`hc`h`Y`f`g]hY`UbX`g`UdY`]b`gd]h`c`Z`h`Y`f`Z`Yei`Yb`h`a`Ugg`a`]]`fU]hcb`UbX`fcUX`_`]`fBYbUW&\$\$' ž9j`Ubg`%` , -`ž`dYfg`"cVg`Z`



:]["%"`F`Uhj`c`zj`YfHYVfUH`Y`[`fci`dg`]b`fcUX`_`]`g`]b`X]ZZfYbH`7YbhfU`!`9i`fcdYUb`Vta`bhf]Yg`

Approaches to Lessen Amphibian Road Kill in Central-Europe

5a`d`]V]U`b`a`cftU`]mXi`Y`hc`h`U`Z`U`Wk`]X`Y`m`c`W`V`g`]b`7YbhfU`!`UbX`9UghYfb!`9i`fcdYž`bchc`b`mcb`di`V`]W`f`c`U`X`g`Vi`r`U`g`c`b`ck`h`U`Z`U`W`f`ci`h`g`"5`h`h`Y` ;`Ya`Yb`W`g`Y`V`]`cb`c`Z`h`Y`8`U`bi`VY`b`Y`U`f`G`n`Y`_`gr`z`f`X`U`b`Y`g`]a`UH`Y`%`\$`\$`\$`\$`↑`j`Y`b`]`Y`6i`Z`c`j`]f`]X`]g`k`Y`f`Y`_`]`Y`X`]b`gi`a`a`Y`f`%`-` , `k`_`]`Y`a`]]`fU]h`b`[`ci`h`Z`f`ca`h`Y`U`cc`X`d`U`]b`h`f`ci`[`_`U`%`\$`!`_`a`X`]`U`g`Y`V`]`cb`k`]h`U`h`U`Z`U`W`X`Y`b`g`]m`c`Z`Y`gg`h`U`b`U`j`Y`W`f`g`d`Y`f`_`ci`f`f`i`D`i`_`m`&`\$`\$`\$`"9j`Y`b`]b`Vta`bhf]Yg`k`_`Y`f`Y`Y`V`t`b`ca`]W`g`]h`Uhjcb`_`U`g`a`U`X`Y`h`Y`Vi`]X]b[`c`Z`U`a`d`]V]U`b`h`bb`Y`g`]a`dcgg]V`Y`gc`Z`]f`z`g`Y`Y`f`U`f`Y`dcf`h`g`UbX`U`f`h`W`g`X`Y`U`k`]h`h`g`]`ggj`Y`"`f`F`ca`U`b`]U`ž`Z`c`F`YI`Ua`d`Y`ž`H`f`_`f`%`-`*`ž`%`-` , `E`a`cb`]h`c`f`Y`X`g`Y`Y`f`U`fcUX`g`Y`V`]`cb`g`]b`8`c`V`f`c`[`Y`U`Ub`X`k`c`f`_`Y`X`ci`h`d`c`g`g`]V`Y`a`]h`]`Uhjcb`a`Y`U`gi`f`Y`g`Z`ca`h`Y`h`a`d`c`f`U`f`m`V`c`g`]b`[`c`Z`U`fcUX`hc`U`X`f`]`z`i`z`b`W`!`h`bb`Y`g`n`g`h`Y`a`"

6Yg]XyG`h`Y`k`cf`_`c`Z`f`Y`g`Y`U`W`Y`f`gž`j`c`i`b`h`Y`f`g`U`gc`a`U`Y`]a`d`c`f`U`b`h`V`b`h`f`]`Vi`h`j`cb`g`h`c`k`U`f`X`g`ci`f`_`b`ck`Y`X`[`Y`]b`h`]g`U`Y`X`"h`]g`U`W`]`j`]m`]g`V`Y`gh`i`h`]g`Y`X`]b`G`c`j`Y`b`]U`]b`h`Y`f`Y`[`]c`b`k`_`Y`f`Y`h`Y`7`Y`b`h`f`Z`c`F`A`U`d`d`]b`[` :`Ui`b`U`UbX` :`c`f`U`g`Y`h`i`d`U`X`U`h`U`U`g`Y`cb`Ua`d`]V]U`b`fcUX`a`cftU`]m`5`g`c`Z`h`Y`n`Y`U`f`&`\$`\$`\$`\$`-` , `]g`]h`g`_`U`j`Y`V`Y`b`]`]g`h`Y`X`Z`k`_`]W`W`Ub`VY`f`Y`U`W`Y`X`h`f`ci`[`_`h`Y`_`f`h`Y`f`b`Y`h`f`k`k`k`"W`Z`g`]`8j`c`7`Y`q`Y`#`X`i`c`V`W`q`Y`"h`a`E`"h`Y`a`d`c`f`U`f`m`d`f`c`h`Y`V`]`j`Y`a`Y`U`gi`f`Y`g`U`f`Y`]b`f`c`Xi`W`X`V`m`g`Y`Y`f`U`D`c`]g`]b`UhjcbU`d`U`f`_`gž`i`g`]b`[`grf`cb`[`d`U`g`]W`a`U`h`Y`f`U`UbX`a`Y`h`U`dc`Y`g`d`f`c`Xi`W`X`V`n`I`?`]b`[` :`fc`I`h`c`g`Y`h`i`d`U`Z`b`W`V`g`n`g`h`Y`a`f`k`]g`b`]Y`k`g`_`]`&`\$`\$`\$`\$`6i`W`Y`f`g`U`f`Y`Xi`[`]b`h`c`h`Y`gc`]`U`h`h`Y`Z`b`W`V`g`hc`h`U`d`Ua`d`]V]U`bgž`k`_`]W`U`f`Y`W`f`f`]Y`X`cj`Y`f`h`Y`fcUXg`a`U`bi`U`m`V`nj`c`i`b`h`Y`f`g`]b`h`Y`a`c`f`b`]b`[`UbX`Xi`f]b[`h`Y`b`]`h`i`_`f`<i`b`[`U`f`m`UbX`ch`Y`f`Vta`bhf]Yg`]b`h`Y`f`Y`[`]c`bž`h`Y`g`Ua`Y`h`m`Y`c`Z`U`W`]`j`]m`]g`c`f`[`U`b`]g`Y`X`]b`g`h`U`X`V`m`B` ;`C`gž`k`_`c`_`U`j`Y`d`U`f`c`_`Y`X`X`U`b`]`Y`f`ci`g`fcUX`g`Y`V`]`cb`g`k`]h`c`f`k`]h`ci`h`Z`b`W`]b`[`]g`]b`W`%` , +`f`i`D`i`_`m`Y`h`U`"%"`-`\$`E`

F`c`U`!`f`Y`U`h`Y`g`V`]`b`h`U`W`f`Y`g`Y`U`W`]b`h`Y`f`Y`[`]c`b`U`g`c`f`Y`gi`h`Y`X`]b`h`Y`Vi`]X]b[`c`Z`d`Y`fa`Ub`Y`b`h`a`]h`[`Uhjcb`a`Y`U`gi`f`Y`g`"f`%`-`+`U`b`Y`k`b`UhjcbU`d`f`c`[`f`Ua`a`Y`k`U`g`U`i`b`W`Y`X`]b`<i`b`[`U`f`m`r`c`a`U`Y`U`g`n`g`h`Y`a`Uh`W`gi`fj`Y`m`c`Z`Ua`d`]V]U`b`fcUX`a`cftU`]m`]b`h`Y`a`cgh]a`d`c`f`U`b`h`b`U`h`i`f`U`U`f`Y`U`g`UbX`Y`gg`Y`b`Ua`d`]V]U`b`fcUX!`_`]`d`f`c`V`Ya`g`h`Y`f`Y`f`G`]a`c`b`n`]`Y`h`U`"%"`-`-`E`":`]`j`Y`gi`fj`Y`ng`_`U`j`Y`V`Y`b`U`b`]g`_`Y`X`]b`h`Y`8`U`bi`VY`!`-`e`c`n`ž`?"`f`"g`!`A`U`f`c`gž`6`U`h`c`b`I`d`UbXg`UbX`6`_`B`U`h`j`cb`U`D`U`f`_`g`f`h`Y`U`h`Y`f`U`g`c`]b`W`i`X`Y`X`h`Y`A`z`h`f`U`UbX`h`Y`9`U`gh`Y`fb!`7`g`Y`f`z`h`i`@`UbXg`V`U`d`Y`D`f`c`h`V`]`cb`5`f`Y`U`g`k`UbX`]b`h`Y`N`Ya`d`f`b`@`UbXg`V`U`d`Y`D`f`c`h`V`]`cb`5`f`Y`U`"f`h`c`U`%`ž`_`\$`_`a`f`("`+`d`Y`f`W`b`h`c`Z`g`h`Y`!`a`UbU`Y`X`fcUXg`k`Y`f`Y`]b`j`Y`ghj[`UH`Y`X`Z`Y`U`W`g`Y`V`]`cb`Z`c`F`U`h`Y`U`gh`%)`n`Y`U`f`g`"9`U`W`Ua`d`]V]U`b`V`f`c`g`]b`[`d`c`]b`h`k`U`g`]`g`h`Y`X`UbX`W`U`h`[`c`f`]g`Y`X`"h`Y`Vta`ci`f`Vta`X`Y`Y`c`d`Y`X`hc`X`Y`g`V`]`V`Y`h`Y`]b`h`Y`b`g`]m`c`Z`h`Y`a`]]`fU]hcb`UbX`h`U`Z`U`W`]g`g`Y`b`]b`h`U`V`Y`&"`

HUVY&"

7c`ci f`VtXY XYj Y`cdYX`hc`XYgVjVY`Ua d`VjUj`fcUX`_j` V`UfUWVfjgVjVj

7c`ci f`VtXY	Bi a VYf`cZa]j[fUj]b[Ua d`VjUj`Ubg	fUjZUWXYbg]m	5a d`VjUj`fcUX`_j`	Bi a YfIWWtXY
fYX	\j[\	\j[\]fYUr	%
mY`ck	\j[\	a YXli a]fYUr	&'
i lc`Yf	`ck	ca U`	ca U`	' '
]fYn	`ck	\j[\	ca U`	('
]fYYb	\j[\	ca U`	j Yfmg a U`)'
V`i Y	a YXli a	a YXli a	a YXli a	**

5g`UfYgi`hcZ`hY`gi`fj`Yngz`bYk`Ua`d`VjUj`h`bbY`g`k`YfY`Vi`j`h`U`h`U`g]hY`bYUf`-`c`n`X`Ua`z`ngX`k`YfY`b`c`h`c`b`n`Ua`d`VjUj`Ubg`Vi`h`U`gc`]`fUgg`g`b`U`_`Y`f`B`U`f`j`]`b`U`f`j`]`z`U`Y`g`V`U`d`j`U`b`g`b`U`_`Y`f`U`d`Y``c`b`]`g`g`j`a`U`z`U`b`X`'`g`a`c`c`h`'`g`b`U`_`Y`f`f`c`f`c`b`Y``U`i`g`h`f`j`U`W`U`Z`f`Y`e`i`Y`b`h`m`V`f`c`g`g`h`Y`f`c`U`X`f`D`i`_`m`U`b`X`'`j`c`[`Y``&`\$`\$`\$`z`U`b`X`'`U`b`U`h`j`c`b`U`'`X`U`h`U`V`U`g`Y`'`k`U`g`'`X`Y`j`Y`'`c`d`Y`X`Z`c`f`U`a`d`VjUj`fcUX`_j`g`D`f`c`Z`g`g`j`c`b`U`'`Y`i`d`Y`f`h`g`Y`'`j`g`'`U`g`c`i`h`j`g`Y`X`'`j`b`D`c`'`U`b`X`z`k`'`Y`f`Y`X`Y`U`j`Y`X`'`U`V`j`h`U`h`g`i`f`j`Y`ng`j`k`Y`f`Y`W`f`f`j`Y`X`'`c`i`h`V`m`j`b`h`f`b`U`h`j`c`b`U`'`V`t`b`g`Y`f`j`U`h`j`c`b`j`g`g`h`c`'`X`Y`h`f`a`'`j`b`Y`'`h`Y`'`a`c`g`h`j`a`d`c`f`h`U`b`h`V`f`c`g`g`j`b`[`g`h`g`'`z`c`f`U`a`d`VjUj`Ubg`h`c`d`f`c`j`j`X`Y`'`U`f`a`'`g`V`Y`b`h`j`U`W`U`g`j`g`Z`c`f`V`i`'`j`X`j`b`[`'`a`'`j`h`[`U`h`j`c`b`'`a`Y`U`g`i`f`Y`g`c`b`'`j`U`'`6`U`h`j`V`z`g`V`X`Y`X`i`'`Y`X`Z`c`f`U`i`h`i`a`b`&`\$`\$`'`f`B`X`f`U`X`c`g`Y`h`U`'`&`\$`\$`&`E`

Aims of Study

5g`Ua`d`VjUj`fcUX`_j`'`j`g`Y`i`W`d`h`c`b`U`'`m`j`b`h`Y`b`g`j`Y`'`U`c`b`[`'`g`Y`'`Y`f`U`'`f`c`U`X`'`g`h`Y`h`X`Y`g`'`j`b`'`7`Y`b`f`U`!`9`i`f`c`d`Y`z`g`i`V`'`U`g`'`h`Y`'`'`'`%`'`f`c`U`X`'`U`h`h`Y`'`g`c`i`h`Y`f`b`'`g`'`c`f`Y`'`c`Z`@`U`_`Y`'`Y`f`h`'`#`B`Y`i`g`j`Y`X`'`Y`f`g`Y`z`k`'`Y`f`Y`'`a`c`f`Y`'`h`U`b`'`%`\$`\$`\$`\$`\$`U`a`d`VjUj`Ubg`V`f`c`g`g`f`c`U`X`g`Y`j`Y`f`m`Y`U`f`f`p`z`f`d`z`h`j`%`'`'`'`z`'`f`U`b`_`Y`h`U`'`%`'`-`&`z`a`'`j`h`[`U`h`j`c`b`'`a`Y`U`g`i`f`Y`g`k`Y`f`Y`'`U`g`c`U`d`d`'`j`Y`X`'`U`c`b`[`'`g`Y`'`Y`f`U`'`f`c`U`X`'`g`Y`V`f`c`b`g`'`j`b`'`h`Y`'`f`Y`[`'`j`c`b`'`h`Y`'`U`f`g`h`U`a`d`VjUj`Ubg`!`f`Y`U`h`Y`X`'`W`'`j`Y`f`h`a`c`X`j`U`W`h`j`c`b`'`c`V`W`'`f`f`Y`X`'`U`h`D`U`f`U`g`g`U`d`i`g`n`f`U`z`<`i`b`[`U`f`r`z`'`j`b`'`%`'`*`'`f`7`g`j`b`V`t`U`'`%`'`'`*`'`E`'`h`k`U`g`i`b`g`i`W`V`g`g`z`'`X`i`Y`'`h`c`'`V`t`a`d`f`c`a`'`j`g`Y`g`'`a`U`X`Y`'`X`i`f`j`b`[`'`h`Y`'`V`t`b`g`h`f`i`'`V`j`c`b`z`Y`j`[`'`z`h`Y`'`c`k`f`D`*`'`'`X`Y`[`f`Y`E`U`b`[`'`Y`c`Z`h`Y`'`V`t`b`V`Y`h`Y`'`Z`f`b`W`'`Y`Y`a`'`Y`b`h`g`X`j`f`Y`V`j`b`[`'`U`a`d`VjUj`Ubg`'`h`c`k`U`f`X`g`'`h`Y`'`W`'`j`Y`f`h`'`j`b`X`j`j`X`i`'`U`g`'`c`z`U`'`'`U`a`d`VjUj`Ubg`'`g`d`Y`V`W`Y`g`d`f`Y`g`Y`b`h`j`b`'`h`Y`'`U`f`Y`U`'`V`W`b`'`V`j`a`'`V`c`j`Y`f`'`h`Y`a`'`f`D`i`_`m`f`%`'`-`+`E`'`5`g`'`@`U`b`[`'`h`c`b`'`f`%`'`'`-`U`k`Y`g`h`U`V`'`j`g`'`Y`X`'`U`h`h`Y`'`Y`b`X`'`c`Z`h`Y`'`%`'`'`\$`g`z`h`'`j`g`d`U`f`h`c`Z`9`i`f`c`d`Y`k`U`g`V`Y`'`j`b`X`j`b`'`h`Y`'`'`b`i`a`'`V`Y`f`c`Z`U`a`d`VjUj`Ubg`!`c`f`j`Y`b`h`Y`X`'`a`'`j`h`[`U`h`j`c`b`'`a`Y`U`g`i`f`Y`g`'`G`j`b`W`'`h`Y`b`z`U`a`d`VjUj`Ubg`'`h`i`b`b`Y`'`g`n`g`h`Y`a`'`g`'`U`j`Y`V`Y`Y`b`V`i`'`j`h`j`b`'`g`Y`'`Y`f`U`'`7`Y`b`f`U`!`9`i`f`c`d`Y`U`b`V`t`i`b`f`j`Y`g`Y`g`d`Y`V`U`'`m`i`U`Z`Y`f`%`'`-`'`z`Y`'`Y`b`'`j`Z`U`h`d`f`Y`g`Y`b`h`j`h`j`g`f`Y`g`h`j`V`W`X`'`h`c`'`h`c`g`Y`'`V`t`i`b`f`j`Y`g`'`h`U`h`k`'`j`'`'`c`j`b`'`h`Y`'`9`i`f`c`d`Y`U`b`'`i`b`j`c`b`'`j`b`&`\$`\$`('`'`h`Y`'`U`j`a`'`c`Z`h`'`j`g`d`U`d`Y`f`'`j`g`'`h`c`'`X`Y`g`V`j`V`Y`'`h`Y`'`a`'`U`j`b`'`Z`U`h`i`f`Y`g`'`c`Z`h`'`Y`g`Y`'`V`t`b`g`h`f`i`'`V`j`c`b`g`'`j`b`<`i`b`[`U`f`r`z`D`c`'`U`b`X`z`U`b`X`'`G`'`c`j`Y`b`j`U`/`c`j`Y`f`j`Y`k`'`h`Y`'`X`j`Z`Z`f`Y`b`h`X`Y`g`j`[`b`g`/`U`b`X`'`a`U`_`Y`'`g`i`[`[`Y`g`h`c`b`g`'`z`c`f`'`h`Y`j`f`'`j`a`d`f`c`j`Y`a`'`Y`b`h`U`g`'`k`Y`'`'`U`g`'`z`c`f`'`z`'`h`i`f`Y`'`U`a`d`VjUj`Ubg`!`c`f`j`Y`b`h`Y`X`'`a`'`j`h`[`U`h`j`c`b`'`a`Y`U`g`i`f`Y`g`'`j`b`[`Y`b`Y`f`U`'

Sites and Methods

Sampling Sites and Dates

8]Z`Z`f`Y`b`h`i`a`'`j`h`[`U`h`j`c`b`'`a`Y`U`g`i`f`Y`'`m`d`Y`g`k`Y`f`Y`'`g`i`f`j`Y`n`Y`X`'`'`h`Y`'`X`j`g`h`f`i`'`h`j`c`b`'`c`Z`h`Y`'`j`b`j`Y`g`h`[`U`h`Y`X`'`d`Y`f`a`'`U`b`Y`b`h`U`a`d`VjUj`Ubg`'`a`'`j`h`[`U`h`j`c`b`'`a`Y`U`g`i`f`Y`g`'`W`b`'`V`Y`'`g`Y`Y`b`'`j`b`'`U`[`i`f`Y`'`&`'`'`h`j`b`W`'`X`Y`g`'`U`'`<`i`b`[`U`f`j`U`b`'`U`a`d`VjUj`Ubg`'`h`i`b`b`Y`'`g`'`V`i`'`j`h`i`b`h`j`&`\$`\$`\$`V`c`h`'`V`m`f`c`U`X`'`c`f`'`V`t`b`g`Y`f`j`U`h`j`c`b`'`U`i`'`h`c`f`j`h`Y`g`z`h`Y`'`U`f`g`h`D`c`'`j`g`'`U`a`d`VjUj`Ubg`'`h`i`b`b`Y`'`g`n`g`h`Y`a`'`c`d`Y`b`Y`X`'`j`b`'`g`d`f`j`b`[`'`&`\$`\$`'`'`U`b`X`'`h`c`'`G`'`c`j`Y`b`j`U`b`'`g`j`Y`g`'`5`a`d`VjUj`Ubg`!`g`d`Y`V`W`U`Z`V`i`'`h`Y`a`d`c`f`U`f`m`U`a`d`VjUj`Ubg`'`a`'`j`h`[`U`h`j`c`b`'`a`Y`U`g`i`f`Y`g`z`k`'`Y`f`Y`'`_`b`c`k`b`'`V`c`h`'`j`b`'`9`i`f`c`d`Y`U`b`X`'`B`c`f`h`!`5`a`'`Y`f`j`W`'`f`j`Y`z`Y`'`[`'`z`6`U`'`U`g`j`b`U`'`%`'`'`-`z`@`j`b`W`'`&`\$`\$`\$`z`h`c`[`Y`h`Y`f`k`'`j`h`[`U`a`Y`'`d`U`g`g`U`[`Y`g`z`[`U`a`Y`'`V`f`j`X`[`Y`g`z`U`b`X`'`U`j`j`U`X`i`'`V`t`k`Y`f`Y`'`U`g`c`'`h`i`X`j`Y`X`'`<`i`b`[`U`f`j`U`b`'`a`'`j`h`[`U`h`j`c`b`'`a`Y`U`g`i`f`Y`g`k`Y`f`Y`'`j`g`j`Y`X`'`U`h`'`Y`U`g`h`i`h`f`Y`Y`'`h`j`a`Y`g`'`Y`f`h`Y`Y`b`'`A`'`U`f`W`'`&`*`'`U`b`X`'`5`i`[`i`g`h`%`'`z`&`\$`\$`\$`'`G`Y`'`Y`f`U`'`a`c`f`Y`'`U`Y`'`X`'`h`f`j`d`g`'`U`j`Y`V`Y`Y`b`'`W`f`f`j`Y`X`'`c`i`h`g`j`b`W`'`h`Y`b`'`U`h`i`g`c`a`Y`'`g`j`h`g`'`D`c`'`j`g`'`U`b`X`'`G`'`c`j`Y`b`j`U`b`'`a`'`j`h`[`U`h`j`c`b`'`a`Y`U`g`i`f`Y`g`'`U`f`Y`'`X`Y`g`V`j`V`Y`X`'`c`b`'`h`Y`'`V`U`g`j`g`'`c`Z`g`j`h`'`j`'`j`g`j`h`g`'`U`b`X`'`Y`i`d`Y`f`h`j`b`h`Y`f`j`Y`k`'`g`'`j`b`&`\$`\$`&`U`b`X`'`&`\$`\$`'`z`U`b`'`U`f`h`j`W`'`c`Z`6`U`X`m`f`&`\$`\$`&`z`U`a`'`U`b`i`'`g`V`j`d`h`c`Z`A`'`Y`V`m`_`c`!`?`f`C`E`f`&`\$`\$`'`z`U`b`X`'`U`f`Y`d`c`f`h`c`Z`5`X`f`U`X`c`g`Y`'`U`'`f`&`\$`\$`&`E`

