ÐÏ à¡± á > þÿ
þÿÿÿ ÿÿÿ

þÿÿÿþÿÿÿþÿÿÿ -
! " þÿÿÿþÿÿÿ

TLì18 ô @ "

```
     ·     Ú     1   È   ÿ        ß  Verdana1   È   ÿ ¼      ß  Verdana1   È   ÿ
        ß  Verdana1   È   ÿ ¼      ß  Verdana1   È   ÿ        ß  Verdana1   È
ÿ        ß  Verdana1       ÿ        ß  Verdana1       ÿ ¼      ß  Verdana1 -
 ð   ÿ        ß  Times New Roman1   È   ÿ        ß  Verdana- 3      " ¬
" # , # # 0 _ ) ; \ ( " ¬ " # , # # 0 \ ) - =      " ¬
" # , # # 0 _ ) ; [ R e d ] \ ( " ¬ " # , # # 0 \ ) - ?      " ¬
" # , # # 0 . 0 0 _ ) ; \ ( " ¬ " # , # # 0 . 0 0 \ ) - I   "  " ¬
" # , # # 0 . 0 0 _ ) ; [ R e d ] \ ( " ¬ " # , # # 0 . 0 0 \ ) - i * 2  _ ( " ¬
" *   # , # # 0 _ ) ; _ ( " ¬ " *   \ ( # , # # 0 \ ) ; _ ( " ¬ " *   " -
 " _ ) ; _ ( @ _ ) - . ) )  _(* #,##0_);_(* \(#,##0\);_(* "-
"_);_(@_)- y , :  _ ( " ¬ " *   # , # # 0 . 0 0 _ ) ; _ ( " ¬ " *
 \ ( # , # # 0 . 0 0 \ ) ; _ ( " ¬ " *   " - " ? ? _ ) ; _ ( @ _ ) - 6 + 1  _(*
#,##0.00_);_(* \(#,##0.00\);_(* "-"??_);_(@_)à       õÿ            À à       õÿ
  ô        À à       õÿ   ô        À à       õÿ   ô        À à       õÿ
  ô        À à       õÿ   ô        À à       õÿ   ô        À à       õÿ
  ô        À à       õÿ   ô        À à       õÿ   ô        À à       õÿ
  ô        À à       õÿ   ô        À à       õÿ   ô        À à       õÿ
  ô        À à       õÿ   ô        À à                    À à     + õÿ
  ø        À à     ) õÿ   ø        À à     , õÿ   ø        À à     * õÿ
  ø        À à          õÿ   ø        À à                        À à
              À à                     À à          (          À à
           (          À à           0        À à                    À
“    € ÿ“      ÿ“      ÿ“      ÿ“      ÿ“    € ÿ’ â 8     ÿÿÿ Ý   -
·    Ô üó  ò „  «ê      d       q: F ¥  €€ ÀÀÀ €€€ cªþ Ý-
2 ÿõŒ NâW g ÿ þ§F †SW ¢½  cªþ Ý-
2 ÿõŒ NâW g ÿ þ§F †SW ¢½   Ìÿ ÌÿÿÌ ÿÿ™ ™Ìÿ ÿ™Ì Ì™ÿ ÿÌ™ 3fÿ 3ÌÌ ™Ì  ÿÌ  ÿ™  ÿf
  ff™ ---  3f 3™f  3  33  ™3  ™3f 33™ 333 \
```

ÿÿÿÿ ` ...

§# Sheet1Œ ®
; - Á Á fý Ö Ö ü ª > >

THE RESEARCH ON NON-CO2 GREENHOUSE GASES AT THE MONTE CIMONE GAW STATION (2,156 M A.S.L). , Michela Maione, Jgor Arduini, Francesco Uguccioni, Francesco Furlani, Umberto Giostra, Paolo Bonasoni, Francescopiero Calzolari, Paolo Cristofanelli, Rocco Duchi, Angela Marinoni P 26Ô NMHC LEVELS IN BACKGROUND AIR. THREE YEARS OF IN SITU HIGH TEMPORAL RESOLUTION MEASUREMENTS OF 59 (C2-C10) COMPOUNDS., M. Navazo, N. Durana, L. Alonso, M. C. Gómez, J. A. García, J. L Ilardia, G. Gangoiti, J. Iza P 27‹ MEASUREMENT OF NON CARBON DIOXIDE GREENHOUSE GASES AT OF FEDERAL ENVIRONMENT AGENCY (UBA), GERMANY, Ludwig Ries, Frank Meinhardt, Olaf Bath P 28 P 29Ÿ A S S E S S M E N T E F F I C A C Y O F I N T E R N A T I O N A L R E G U L A T I O N S O N C F C S C O N C E N T R A T I O N I N T H E A T M O S P H E R E O F P O L A N D , I . Z l i w k a , J . L a s a , I . G r o m b i k , J . B i e l e w s k i , D . L i m a n ó w k a Æ SOURCES AND SINKS OF CH4 AND CO2 IN A BOREAL FOREST BASED ON SOIL, PLANT AND STAND LEVEL MEASUREMENTS, Anders Lindroth, Patrick Crill, Meelis Mölder, Patrik Vestin, Anders Båth, Leif Klemedtsson € HIGH-RESOLUTION SIMULATION OF ATMOSPHERIC METHANE USING A GLOBAL TRANSPORT MODEL , Tazu Saeki, Shamil Maksyutov, Heon-Sook Kim Ü PROGRESS TOWARDS MEASURING THE EFFICACY OF MITIGATION STRATEGIES FOR N2O EMISSIONS USING MICROMETEOROLOGICAL TECHNIQUES. AMS McMillan, M.J. Harvey, G.W. Brailsford, A.M. Bromley, R. Moss, R. Martin, M. Evans, K.R. LasseyÑ o SIMULATION OF N2O PEAK EMISSIONS WITH SWAP-ANIMO P.C. Stolk, R.H.A. Hendriks, C.M.J. Jacobs, J.W. van Groenigen P 30

7 ÿÿ P 17n PILOT PROJECT SHOULD PROVIDE INSIGHT: CHAIN PARTNER HELPS TO REDUCE EMISSIONS IN DAIRY FARMING Jan van Bergen P 11

7 WATER VAPOUR ACCUMULATION MECHANISMS IN THE WESTERN MEDITERRANEAN BASIN DURING THE WARM SEASON: ITS ROLE IN THE DEVELOPMENT OF CENTRAL EUROPEAN EXTREME RAINFALLS, G. Gangoiti, E. Sáez de Cámara, L. Alonso, M. Navazo, N. Gómez, J. Iza, J. A. García, J.L. Ilardia, M.M. Millán P 19´ ATMOSPHERIC CHEMISTRY OF SELECTED SECOND GENERATION CFC ALTERNATIVES, O.J. Nielsen, Meshkat Javadi, Elna J. K. Nilsson, Matthew S. Johnson, Timothy J. Wallington, Michael D. Hurley P 20º CARBON MONOXIDE AND AEROSOLS CONTENTS, BOUNDARY LAYER PARAMETERS AND ESTIMATION OF THE CO SOURCES INTENSITY IN MOSCOW CITY, V. Rakitin, E. Fokeeva, R. Kuznetsov, A. Emilenko, V. Kopeikin P 21 RECONSTRUCTION OF HISTORIC BLACK CARBON CONCENTRATIONS IN EUROPE FROM UNDISTURBED LAKE SEDIMENTS , Hugo Denier van der Gon, Tom van Hoof, Timme Donders, Martijn Schaap Frans Bunnik, Holger Cremer, Peter Tromp, Antoon Visschedijk, Ingrid Kroon, Peter Builtjes P 22 P 1è TTORCH: AN ESF RESEARCH NETWORKING PROGRAM ON THE (TALL TOWER) HIGH PRECISION OBSERVATIONS OF GREENHOUSE GASES IN EUROPE, A.T. Vermeulen, M.E. Popa, D. Brunner, M. Heimann, G. Hansen, A. Lindroth, J.A. Morgui, P. Seibert, T. Vesala P 23g SATELLITE MAPPING OF NITRIC OXIDE EMISSION FROM INDIAN REGION, Sachin D. Ghude, R. J. van der A.G. Beig P 24 P 25µ IDENTIFYING AND QUANTIFYING EUROPEAN SOURCES OF HYDROFLUOROCARBONS BY BACK-ATTRIBUTION MODELLING, Umberto Giostra, Jgor Arduini, Luca Belfiore, Francesco Furlani and Michela Maione

7 ‘ LONG-TERM FERTILIZATION EFFECTS ON SOIL ORGANIC MATTER AND THE NET-EXCHANGE RATES OF N2O AND CH4 ON A SANDY ARABLE SOIL, Jäger, N. and Flessa, H. P 2 P 3V BIOGENIC EMISSIONS OF NON-CO2 GREENHOUSE GASES DERIVED FROM LAND USE DATA, Elke Hodson P 4¹ FIRST RESULTS FROM THE NEW JRC GREENHOUSE GAS MONITORING SITE AT ISPRA, ITALY, Bert Scheeren, Peter Bergamaschi, Niels R. Jensen, Carsten Gruening, Ignacio Goded, and John van Aardenne

7 ÿ ¿ Inverse modeling of European CH4 emissions: Sensitivity of derived emissions to observational network, M. Gabriella Villani, Peter Bergamaschi, Frank Dentener, Jan Fokke Meirink, Maarten Krol

7 ÓÁq EMISSIONS OF NON-CO2 GREENHOUSE GASES IN THE NETHERLANDS: INVENTORY 1990-2007; PROJECTION 2008-2020, C.J. Peek

7 ÓÁ P 31

7 ±¡v METHANE EMISSIONS FROM WETLANDS: INFLUENCE OF THE EL NINO SOUTHERN OSCILLATION, F.M. O'Connor, N. Gedney, W.J. Collins P 5ƒ GROUND-BASED SOLAR ABSORPTION MEASUREMENTS OF CH4 IN THE TROPICS, A.K. Petersen, T. Warneke, J. Notholt, C. Frankenberg, O. Schrems P 6 P 7 P 8“ SEASONAL CYCLE OF THE TROPOSPHERIC METHANE OBSERVED AND MODELED OVER SIBERIA, S.Maksyutov, T. Machida, T.Saeki, P. Patra, O. Tarasova, S. Houweling P 9“ MODELLING OF THE LONG-TERM EVOLUTION OF ATMOSPHERIC METHANE AND ITS STABLE ISOTOPES, G. Monteil, S. Houweling, B.H. Vaughn, S.C. Tyler, T. Röckmann P 10Ò N2O AND CH4 FLUXES IN A TEMPERATE HEATHLAND UNDER FUTURE CLIMATIC CONDITIONS , Mette S. Carter, Per Ambus, Kristian Albert, Klaus S. Larsen, Michael Andersson, Louise C. Andresen, Teis N. Mikkelsen, Claus Beier P 12 POSTERS

7 ±¡o SHORT-TERM METHANE FLUXES OF A MANAGED GRASSLAND ECOSYSTEM ON THE SWISS PLATEAU, Rebecca Hiller, Werner Eugster P 13¥ TREND ANALYSIS AND MODEL COMPARISON WITH THE EMEP MODEL OF CH4 AND CO MEASURED BY A GROUND-BASED SOLAR FTIR IN HARESTUA, NORWAY. , J. Klyft, J. Mellqvist, D. Simpson P 14‰ METHANE AND NITROUS OXIDE EMISSION FROM PADDY FIELD UNDER LONG-TERM FERTILIZATION TREATMENTS, Qin Xiaobo, Li Yue, Liu Keying, Wan Yunfan P 15 P 16± ATMOSPHERIC METHANE: A COMPARISON BETWEEN EMAC-GCM MODEL SIMULATIONS AND CARIBIC AIRCRAFT MEASUREMENTS, Zimmermann P.H., Brenninkmeijer C.A.M., Lelieveld J. and the CARIBIC Team P 18ÿ : Ã

“ß–

ß ç 0
{‘ Ú
a ª ¿ÿ ^ È € É ¿ÿg\

\¿ÿg Þ;(4 “ßoÔ¿ÿg BDDT
-©¸
{RÄ
{RÄ¿ÿf .Ï° ¿ÿÕ2 ¿ÿj¸ ¿ÿo< 4 0a
¿ÿo<

ì¨BD¿ÿj dëhÿø ¢ ¿ÿfä ÿÿÿ 0a 0a ©
˜ .Đè¿ÿjà e5t P M - ¿ÿg
¿ÿg .Ï° ¿ÿÕ2
®n 0a 0a ©˜ ¿ÿo< e4ÀÂKÁ•‡…“”ÂKÁ•‡…“”ÂKÁ• “”ÂKÁ•‡…“”Â
KÁ•‡…“”ÂKÁ•‡…“”ÂKÁ•‡…“”ÂKÁ•‡…“”ÂKÁ•‡…“”¿ÿhÀ‡…“”ÂKÁ•‡…“”ÂKÁ•‡…“”ÂKÁ•‡…“”Â
KÁ•‡…“”ÂKÁ•‡…“”ÂKÁ•‡…“”ÂKÁ•‡…“”¿ÿi ?Øx¿ÿi 4 -äC0
?× ¿ÿi0 -ä .Đì .Đè ÂKÁ•‡…“” ¿ÿi€‡…“” Âà‡…“”ÂKÁ•‡…“
“ÂKÁ•‡…“”ÂKÁ•‡…“”ÂKÁ•‡…“”ÂKÁ•‡…“”ÂKÁ•‡…“” .Kø¿ÿ X 4 0a ¿ÿ Z¿ÿiÀ¿ÿo
< _¿ÿj ‡…“” e ô‡…“”¿ÿià¿ÿo< ¿ÿj 4 e ô¿ÿo<¿ÿj
?Ø¯¿ÿj ¿ÿj -ä ¿ÿjp¿ÿjp¿ÿo<¿ÿj0¿ÿo< ç68 4
f0X ±¤ -€ ¿ÿjPBH † ì ¿ÿj€ÿ Âà
{RÄ
{RÄ¿ÿo<¿ÿjp¿ÿo<¿ÿjà 8È ¿ÿÕ2 ¿ÿk -€ ¿ÿjà 4 †

˜¿ÿo< ¿ÿo< ¿ÿo< 6

˜¿ÿo< % © ¿ÿo< e ô¿ÿo<¿ÿjà ¿ÿÕ2
ÇFÌ
c$ ‰*

d ü©ñÒMbP?_ * + , € % Á
ƒ „ ¡ " à? à? U
}

```
'        }
```

m[

¬ @ ˆ ”D
hD | ŒD p @ ˆ
IÄ Á (F

÷Ã

"

...Ä

“f “f

•Ä

} 8 à X

¨ @ - D @ ÿÏ € @ à ý
4 ý
ý
ý
ý

ý
! ý
" ý
ý
(ý
) ý
* ý
+ ý

ý
, ý
ý
- ý
. ý
/ ý
0 ý

1 ý

2 ý

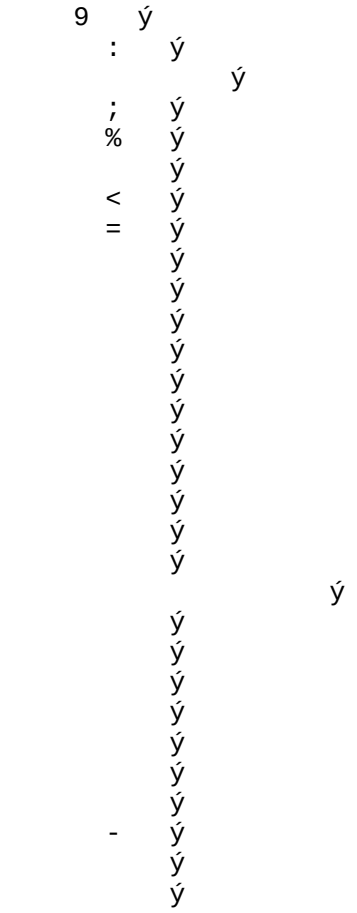
ý

ý

3 ý

5 ý
6 ý
7 ý

8 ý



ý

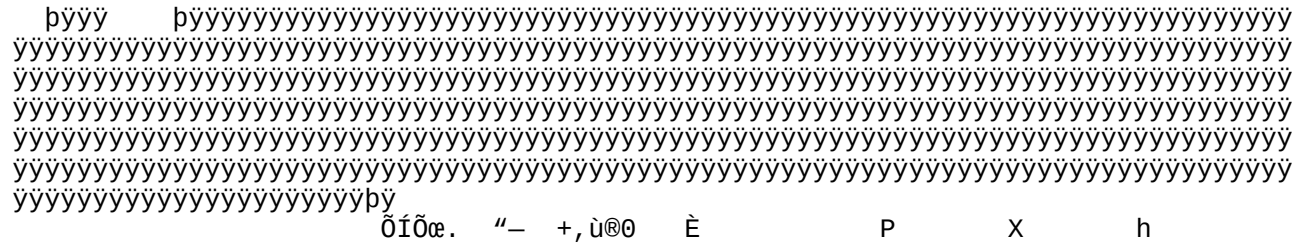
- $ ý

' ý

& × D î l

> ¶ @

È È @ ï ÷D



ÕÍÕœ. “— +,ù®0 È P X h

p x € ˆ

£ ' - IMAU

- Sheet1

-
Worksheets þÿ ÿÿÿÿ À F Microsoft Excel Sheet þÿÿÿ8FIB

Excel.Sheet.8

þÿ
à…ŸòùOh «‘ +'³Ù0 °
P X l €
¤

° ¼ È Đ ' -

h van Dop -

h van Dop - Microsoft Macintosh Excel @ €Ää– ÏÉ @ µ
³¼ÈÉ @ Ï ƒØ åÉ G Ö þÿÿÿPICT Î % € ÿ

ÿþ H H % € -
€ € ÿ ÿ š ÿ % € H H

R

Óè° % € % € "üsœ o{þw½ kZþw½ o{Êw½ o{g:Êw½ o| ÿ +
w½^ø^øFSw½s ÿ ÿkZV¶þ ÿ s Ê ÿ c9V×Ê ÿ w½ ÿ üo| s ú{Þ w½‘{Þ w½ ÿ 1 {Þý ÿ {Þú ÿ {Þ9ÎJR5-Ns9Î=ï)J=ï=ð9ÎF1=ïR”ž ÿ {Þ ÿ 1 {Þý ÿ {Þú ÿ {Þ9Îw½-
k=ïB > F1F1Js=ï9ÎF0=ïž ÿ {Þ ÿ {Þý ÿ {Þú ÿ {Þ‘ ÿ {Þ ÿ {Þý ÿ {Þú ÿ {Þ‘ ÿ {Þ ÿ
{Þý ÿ {Þú ÿ {Þ‘ ÿ {Þ ÿ {Þ ÿgZ ÿ ÿ{Þú ÿ {Þ‘ ÿ {Þ ÿ {Þ ÿg9 ÿ ÿ{Þú ÿ {Þ‘ ÿ {Þ
ÿ ük{ s ú{Þ w½‘{Þ w½ ÿ ù {Þý ÿ g9^øsœw¾ý ÿr{Þbøc JRFRg9k{Zµc B JRg9ZÖVµVµc b÷V
ÖkZc ^÷ZÖ^÷Z÷c =ðwœ^÷R”VµN”g9g9oZc g9R”Nsw½Vµc VµkZg9g9F1c V´JsB ^øg9 ÿJRF1Vµo{R
•^÷JskZR”=ïc9g9kZZÖJRgZg9F1^÷k9VµkZNsg9ZÖNRR”9ïc Nso{ZÖJRZÖ^öZ÷R”s›c Nt þ9ïg9c g
9^öJRR”b÷kZgZZ¶F1^÷g9NsR”o{Nt ÿ{Þ ÿ ó {Þý ÿ sœ ÿsœs½ý ÿ
{Þ^÷^÷w½g9c ÿo{c kZþw½ g9kZsœo{c ^÷^÷kZsœo{g9kZgZ{Þc w½w½ZÖg9kZþo{ g9o{w¼
g9^÷kZ^÷{Þc sœc c w½kZg9c {Þw½kZsœ{Þo{c o{w½w½g9c9þw½/ozg9w½kZc w½w½c k{c o{kZwœ
g9kZc kZw½g9w½sœc ^÷ ÿ^÷w½ ÿg9c g9o{w½kZs{ZÖ ÿ^÷sœw½w½o{g9o{w½w½ ÿ{Þ ÿ k {Þ ÿZ÷
ÿ ÿ{Þú ÿ {ÝJRþR”$VµNs ÿR”B VµV¶F1g9Z×ZÖZÖVµV”s½ ÿ^÷Vµ^÷c g9 ÿB {ÿsœc g9Vµ^÷R•c g
9c c9 ÿc c º ÿ {Þ ÿ k sœw½k[s½s½w½ú ÿ {Þo{{Þw½sœw½þ{Þ w½w½sœsœo{sœsœw½sœsœg9w½sœ
o|VµsœkZ{ßw½w¾w½sœ{Ýsœ{Þ{Þþsœ o|o{{Þw½{Þ» ÿ {Þ ÿ è sœw½Z÷w½w½sœkZo{s ý ÿA{Þc kZo
{sœo{{ÿg9^÷kZg9sœw½g9kZo{sœg9o{kZsœg9g9sœsœ{Þ^÷sœg9g9kZg9kZkZo{kZw½o{sœ^÷c w½w½g
9sœw½sœg9 ÿsœkZkZsœkZkZs›sœg {Þsœg9{ßw½sœ ÿkZþw½ sœ ÿw½s½þ ÿ s k{þ ÿ c {Þo{w½o{
ÿo{þ ÿ w½ ÿ ÿo{þw½ý ÿ wœgZþ ÿ {Þw½ý ÿ {Þ ÿ ý {Þ ÿZ× ÿ ÿkZw¾^÷oœý ÿr{ÝR”^ög9RµR”R
”ZÖkZR“V¶ZÖo{VµZ× ÿZÖJRZÖZ×kZg9ZÖR•R”{ÞRµg9Rsc VµVµRµZÖJsg8k[^÷ZÖc Z×kZsœ^÷R”R”V
µo{g9ZÖJR^øg9V”^÷kZsœV´o{o{V”VµVµNso|kZZÖk[^÷ZÖZ÷s›g9R”c VµVÖVµZÖNs{ßR”kZg9c ^÷{
ÞZÖJRVµR”NsNssœ_ sœJQgZs›NtNsozg9ZÖZÖRsV”kZR”JRZÖo{ ÿ{Þ ÿ × {Þ ÿ_ ÿ ÿo{c o{o{ý
ÿ1{ÞVµg9Vµg9^÷c c g9ZÖw½g9^÷Z÷c c ^÷g9^÷g9^÷ ÿZÕc w½c c ^÷g9 ÿZÖc c o{kZ^÷g9ZÖ^÷
g9g9sœVµsœg c c sœc g9þc 'kZg9c c ZÖ^÷o{^÷^÷sœc ^÷g g9^÷sœsœg9g9c g9sœsœZÖ^÷{ÞRµ
k9^÷c w½ ÿZ÷c ÿ ÿsœsœ ÿo{í ÿ {Þ ÿ ß {Þ ÿB2{ß ÿg9Z×{Þg9ý ÿ_{Þ=ïZÖg:V¶N”^÷F2b÷o|o
{c B R”^÷ZÖVµg9R”NsVµ{½c F2{ÞF1VÖR”Ns^÷s½g9c g:g9R”ZÖR”R”NsJRR“c ZÖVµVµZ÷g9g9=ï^
÷R”^÷g9g:V´^÷F2g9NsVµg9g9VµRsVµg9B k:kZ=ïRµJSg9kZg9R”R”{Þ^÷F1R”^÷^÷ ÿR•F1JRc ZÖJ
1JRNsB R”R”ð ÿ {Þ ÿ ük{ s ú{Þ w½¯{Þ w½ä{Þ w½ ÿ ù {Þý ÿ g9c c c ý ÿr{ÞNtF1oZVÖVµ
=ïVµF1oœZÖZÖVµ^÷R•Ns^ö^øNsVµZÖ^÷V¶F1c Ntg9VµR”R”k9kZVµNtJRVµ^÷c ÿR”R”R•kZZÕN”^÷
=ïw½R”kZc Vµ ÿkZF R•wÞR”g:sœF2g99ïg9g9g8Ns^÷RµkZZÖF1ZÖR•B w¾b÷VµF1{ÞR”g:g ZÖkYNs
g9B s c k{N”c o{^÷c {½N”R”^÷ZÖR”{ÞR”c kZZÖNsZÖZ×F1R”c {Þ ÿ ó {Þý ÿ w¼ ÿ ÿ{Þý ÿ {
Þ{Þg9sœýw½ kZo{kZo{{Ýg9kZg9o{g9{ÞkZo{{Þ{Þw½g9{Þ{Þw½w½c {ÞkZþsœOg9g9s½ ÿkZw½{Þc g
9kZsœw½g9^÷ ÿg9{Þ ÿ{Þw¼g9w½b÷c {Þsœo{oœo{w¾kZsœo{g9{Þ{Þo{g9w½sœ ÿg9o{sœg9g9c g9{
Þw½o{o{sœkZ{Þw½{Þsœ ÿg9 ÿg9kZsœw½kZw½o{{Þo{ ÿc kZkZw½o{c g:{Þ ÿ / {Þ ÿZ× ÿ ÿ{Þú
ÿ
w¼F1kZc ÿ^÷c ZÖVÖVµ^÷› ÿ {Þ ÿ) k{o|k{o|o|sœú{Þ w½ý{Þ w½w½þ{Þ w½›{Þ w½ ÿ ï w½þ
ÿ {Þsœg:o{sœý ÿQ{Þ^÷c o{kZo{kZg9kZ{Ýc9o{g9c c kZsœkZ^÷w½o{kZs o{o{kZc ^÷kZg9^÷^÷
g9kZg9{þg9c o{o{c sœc g:c kZc kZg9^÷c9w½g9^ø{Þc o{sœ ÿg k{w½^÷sœg8w½ZÖ^÷kZg9g g9
c c ÿo{ ÿsœw½w¼kZ{Þû ÿ sœg9{Þo{w½þ ÿ s½þ ÿ

o{ ÿkZ{Þ{Þw½ ÿs› ÿ ÿ^÷ ÿ ÿ{Þ ÿ ÷ {Þý ÿ oz{ßo{k[ý ÿ%{ÞV”c9Vµc R”kZNsc sœVµZÖ^øVµZ
Öc o{^÷R•ZÖc Z×kZg9R•ZÖ^÷R”gZZÖ ÿk9V¶c Vµ{ÞkZVµÞ^÷IV”kZR”^÷o{ZÖkZc g9^÷o{^÷o{sœc
^økY{ßVµ^ø ÿg9g9^÷{Þo{^÷^÷ZÖ{½V¶^÷^÷o{g9c c gZo{s{b÷ZÖc ^÷Z×k{^÷ ÿc ÿZÕVµZÖsœZ
µc Vµ^÷{Þ^÷{ß^÷ZÖV¶c ^÷^÷ZÖ{ÞVÖs ÿ{Þ ÿ F {Þ ÿVÖ ÿ ÿ{Þú ÿ {ÞVÖs›sœo{o{sœo|c sœw½
o{ ÿkZc ÿ^Öo{c w½o|þsœ¨ ÿ {Þ ÿ G {Þ ÿFRwÞ ÿ{Þú ÿ {ÞRµR“F1ZÖJRJRÞNs
VµNs ÿg9g9 ÿZÖVÖ^ÖN”JRVµR”R•¨ ÿ {Þ ÿ ük{ s ú{Þ w½³{Þ w½à{Þ w½ ÿ ã {Þý ÿ g9g:c c
ý ÿc{ÞRµB ^÷JRR”B Vµc NsVµkZc c J1FRNsJSZ¶ZÖZÖ^÷V”^÷B ZÖNsJRV¶NsR”R”gZkZc JRsœZ
ÖZ×^÷c ^÷VµF1o{g9g9^÷^÷kZV”g8k9VµJRR”Rµc ^÷JsR”sœVµg9B JRZ×^÷ZÖVµJRg8Ntg9^÷^÷B
þ=ðZµ^÷c ^÷Z÷Vµ^öNsNr^÷VµRµJRNtg9^÷JR^÷> ZÖ^÷ô ÿ {Þ ÿ Õ {Þý ÿ w½ ÿ{Þ{Þý ÿ
{Þ ÿ{Þw½ ÿsœ{ÞsœsœW½{Þ ÿ ÿw½ý{Þ
s½{Þ{Þ ÿ{Þsœ{Þsœ{Þw½{Þs {Þwœþ ÿ

w½w½w¼{Þ ÿw½w½{Þ{Þs ÿ ÿw½þ ÿ w½ ÿw½sœ ÿ{Þw½w½þ{Þ w½ þþ{Þ w½{¾þsœ w½ ÿ ÿw½{Þ ÿ{Þ sœw½{Þw½w½ ÿw½s sœw½w½ ÿ{Þw½ ÿw½sœw½{Þw½{Þô ÿ {Þ ÿ ï {Þý ÿ {Þú ÿ
w¼=ÏVµg ZÖJRg9B F1o{V´^÷c JSJsg9g9c NtkYR”{½R”g: ÞR•ZµsœNsB1^÷R”c þVµIsœ ÿNsB J1 kZVµNsZÕ9ÎZÖVÖR”R” ÿR”R”oz{ßc ZµR”Ns^÷Nsg9 ÿZÖw½F1c ÿ9ï^÷R”VµR”N”V´ZÖg:{ÝVµg9Að ÿ^÷JRZÖVµJRZÕNskZ ÿF1 ÿZÖNRR”ZµZÖ ÿNss kZ=ïVµZÖNsZÖsœg9=ïþ ÿ {Þ ÿ A {Þý ÿ {Þú ÿ {Þâ ÿ kZð ÿ w½÷ ÿ o{ó ÿ {Þõ ÿ o{ù ÿ {Þù ÿ {Þü ÿ {Þ ÿ -
{Þý ÿ {Þú ÿ {ÞZÖ ÿ{Þþ ÿ sœo{kZk{ ÿsœ ÿ {Þ ÿ = {Þ ÿg:{ÿ ÿ{Þú ÿ {ÞZÖkZVµkZ^÷g:sœ ozg:g9{ÞZÖVµb÷c ^ø^÷¢ ÿ {Þ ÿ k{ýo| sœú{Þ w½‘{Þ w½ ÿ ÿ ÿ ÿ

C o m p O b j

ÿÿÿÿÿÿÿÿÿÿÿÿ T

ÿÿÿÿÿÿÿÿÿÿÿÿ

ÿÿÿÿÿÿÿÿÿÿÿÿ

ÿÿÿÿÿÿÿÿÿÿÿÿ