# CFHTLS-Wide Survey Progress

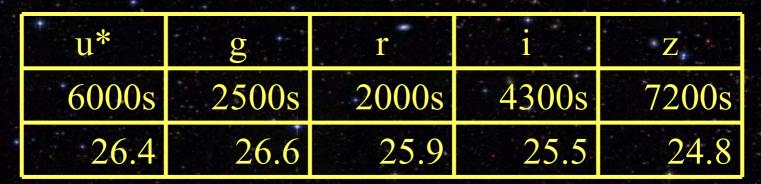
Hervé Aussel

#### Wide Goals and Specifications

- Weak Lensing
  - ≥ 208  $\square^{\circ}$  in g, r, i to i=25, with IQ ≤ 0.9"
- Clusters of galaxies
  - $\triangleright$  r, i, z. z needed for red sequence
- Galactic Studies
  - >2 epochs of r separated by 3 years for PM.
- QSOs / Photometric redshifts
  - ≻u, g, r, i, z

# Wide Allocation

- 162 Nights or 34% of the CFHTLS time
- 179 <sup>□°</sup> over 3 fields
  - W1 : 9°x8°, W2 & W2 : 7°x7°
  - Reduction from the original goal
  - 2 epochs in r separated by 3 years
- pre-survey in r
- 5 filters



## Wide Programmation

#### Dithering



• Total per Wide pointing: 23525 s or 06:32:05

#### Wide Scheduling

• Total Wide: 3999250s or 1110.9 hrs

- Total Pre-Survey: 170060s or 47.2 hrs
- Grand Total: 1158.1 hrs or 165.5 Nights\*
  - ≻Almost within the allocated 162 Nights<sup>\*</sup>
  - Difference due to increase in the number of exposures in u (not longer than 600s)
- Descoping will have to be studied.
  - \* : Assumes the 'canonical' 7 hours per night.

#### Wide Progress

- Beginning of the survey: June 1<sup>st</sup>, 2003
- Terapix Validation
  - grade A or B
  - seeing < 1.1" (1.3 in u\*) worse than survey goal</li>
  - airmass < 1.5
  - skyprobe data available at CADC and less than 2 mags of extinction
  - exposure time > 60s
- Deficit of 186.6 hrs or 1.8 semester
  - Expected to increase less fast with the improved IQ

Good progress in 04B • 10 <sup>o</sup> fully covered with u/2, g, r/2, i, z $\succ$  Full coverage of the Spitzer area • 19 <sup>o</sup> fully covered in i for weak lensing Pre-survey is lagging behind

|    |       |                                      |                    |                      |                      | W1                 |                                    |                               |                     |                                |           |
|----|-------|--------------------------------------|--------------------|----------------------|----------------------|--------------------|------------------------------------|-------------------------------|---------------------|--------------------------------|-----------|
|    |       |                                      | 1 1                |                      |                      | I                  |                                    | 1 1                           |                     |                                |           |
| ╞  | 323   | 306 289                              | 272 255            | 238 221              | 204 187              | 170 153            | 136 119                            | 102 85                        | 68 51               | 34 17                          |           |
| 4  | 322   |                                      | 271 254            | 237 220              |                      | 169 152            | 135 118                            |                               | 67 50               | 33 16                          |           |
| Ļ  | 321   |                                      | 270 253            | w1,+2,+3<br>233 2 9  | . w1.+1+3<br>202 185 | w1D+3<br>168 151   | -₩1 <del>-3</del> 1+ð-<br>134 117  | -w1,-2+4-<br>100 83           | -₩1;-;;)+a<br>66 49 | -w1 <del>, 3113</del><br>32 15 |           |
| L  | 320   |                                      | 269 252            |                      | 201 184              | 167 150            | 133 116                            |                               | 65 48               | 31 14                          |           |
|    | 319   |                                      | 263 251            |                      | w1.+(1+2<br>200 163  | w1D+2<br>166 149   | - <u>w1</u> 1+2-<br>132 115        | -w1;2+2-<br>98 81             | -w13+2<br>64 47     | - <del>w1, 4+2</del><br>30 13  |           |
|    | 318   | 301 234                              | 267 250            | 233 2 6              | 199 182              | 165 148            | 131 114                            | 97 80                         | 63 46               | 29 12                          |           |
| 6  | 317   | - M <del>r (4 -</del> 1:<br>300 233  |                    | : w1:+2+1<br>232 2 5 | w1.+1+1<br>198 181   | w1D+1<br>164 147   | 130 113                            | 96 79                         | w13+1<br>62 45      | - <del>w1: 4+1</del><br>28 11  |           |
| F  | 316   | 259 212                              | 265 218            | 231 214              | 197 180              | 163 146            | 129 112                            | 95 78                         | 61 44               | 27 10                          |           |
| F  | 315   | - <del>w1, 64 -</del> 0<br>293 - 291 | 264 217            | 1:+2-0<br>230 213    | w1.+1-0<br>196 179   | w1D-0<br>162 145   | w110-<br>128 111                   | -w1,-2-0-<br>94 77            | w13-D<br>60 43      | w1 <del>, 4</del> 0<br>26 9    |           |
| F  | 314   | 297 280                              | 263 246            | 229 212              | 195 178              | 161 144            | 127 110                            | 93 76                         | 59 42               | 25 B                           | ±         |
| 8- | 313   | - <del>W1 - 1 -</del><br>296 - 279   | 11 11              | w1;+2-1<br>228 211   | w1.±1-1<br>194 177   | w10-1<br>160 143   | -w1 <del>-1-</del> 1-1-<br>126 109 | ₩1 <del>, 2</del> -1<br>92 75 | .w1,-5∂—1;<br>5В 41 | -w1 <del>, 1 1</del><br>24 7   |           |
| ╞  | 312   | 295 278                              | 261 244            | 227 210              | 193 176              | 159 142            | 125 108                            | 91 74                         | 57 40               | 23 6                           | <b>1</b>  |
| F  | 311   | - w1.+4-2<br>294 277                 | w1.+3−2<br>260 243 | w1.+2-2<br>226 209   |                      | -w1D2<br>158 141   | -w11-2-<br>124 107                 |                               | -w1¢3-2<br>56 39    | w1. <u>42</u><br>22 5          |           |
| Ļ  | 310   | 293 276                              | 259 242            | 225 208              | 191 174              | 157 140            | 123 106                            | 89 72                         | 55 38               | 21 4                           | = : : : : |
|    | - 309 | - <del>1/1 (4 - 3</del><br>292 - 275 |                    | w1.+2-3<br>224 207   | ₩1.±1-3<br>190 173   |                    | w1-1-3<br>122 105                  | ₩12-3<br>86 71                | w13-3-<br>54 37     | w1.4-3-<br>20 3                |           |
|    | 308   | 291 274                              | 257 240            | 223 206              | 189 172              | 155 138            | 121 104                            | 87 70                         | 53 36               | 19 2                           |           |
|    | 307   | 1.1                                  | w1.+3-4<br>256 239 |                      |                      | w1,-0-4<br>154 137 | w11-4                              |                               | w13_4               | w1.4-4<br>18 1                 |           |
|    |       |                                      |                    |                      |                      |                    |                                    |                               |                     |                                | 1         |
| F  |       |                                      |                    | 1                    |                      |                    |                                    |                               | 1                   |                                |           |
| 2  |       |                                      |                    |                      |                      |                    |                                    |                               |                     |                                |           |
| 40 |       | 38                                   | 3                  | 36                   | 5                    | α (J2000)          | 54                                 |                               | 32                  |                                | 30        |

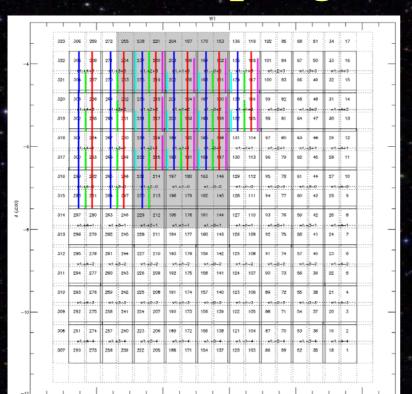
CFHTLS French National Meeting, IAP, Feb 4, 2005

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Good progress in 04B • 10 <sup>o</sup> fully covered with u/2, g, r/2, i, z $\succ$  Full coverage of the Spitzer area • 19 <sup>o</sup> fully covered in i for weak lensing Pre-survey is lagging behind

|     |                  |     |                              |                         |                       |                         |                                   |            |                             |                    | Ŵ                              | (1          |                                   |                       |             |              |              |           |             |                      |    |   |
|-----|------------------|-----|------------------------------|-------------------------|-----------------------|-------------------------|-----------------------------------|------------|-----------------------------|--------------------|--------------------------------|-------------|-----------------------------------|-----------------------|-------------|--------------|--------------|-----------|-------------|----------------------|----|---|
|     |                  |     | 1                            |                         | Т                     | 1                       | T                                 |            |                             | I                  | 1                              | 1           |                                   | 1                     | 1           | 1            |              | 1         | 1           | 1                    |    | 1 |
|     | -                | 323 | 306                          | 289                     | 272                   | 255                     | 238                               | 221        | 204                         | 187                | 170                            | 153         | 136                               | 119                   | 102         | 85           | 68           | 51        | 34          | 17                   |    |   |
| -4  |                  | 322 | 305                          | 288                     | 271                   | 254                     | 237                               | 220        |                             | 136                | 10                             | 152         | 135                               | 116                   |             |              | 67           | 50        | 33          | 16                   |    | _ |
|     |                  | 321 | .∵.₩ <mark>1,-</mark><br>304 | 64 - ð- :<br>287        | 27D                   | - <del>3+∂</del><br>253 | . ∭                               | 2-3<br>29  |                             | +1+3<br>185        |                                | :D=3<br>151 | -1₩1,-;<br>124                    | 注于查示<br>117           | -w1,<br>100 |              | -w1,-<br>66  | 3+∂<br>49 | -w1/-<br>32 | <del>113</del><br>15 |    |   |
|     |                  | 320 | 303                          | 236                     | 269                   | 252                     | 235                               | 28         | 201                         | 184                | 167                            | 150         | 133                               | 116                   | 99          | 82           | 65           | 48        | 31          | 14                   |    |   |
|     |                  | 319 |                              | 4 2<br>235              | erw[₂≓<br>26 <b>3</b> |                         | _ <u>₩</u> +<br>23.4              | 2-2<br>2 7 | - Wilve<br>ZCD              | +1+2<br>133        | 163                            | P2<br>149   | - <u>W</u> le <del>-</del><br>132 | 1 <u>+2</u> 39<br>115 | -w1<br>98   |              | •w1<br>84    |           | -w1,<br>30  | 4+2<br>13            |    |   |
|     | -                | 318 | 301                          | 294                     | 267                   | 250                     | 233                               | 26         | 199                         | 132                | 165                            | 1 18        | 131                               | 114                   | 97          | 80           | 63           | 46        | 29          | 12                   |    |   |
| -6  | -                | 317 | - m <mark>1</mark> -<br>300  | (4+1<br>233             | <u>- w1=</u><br>266   | 3-1-<br>219             | · <u>W</u> 1: <del>]</del><br>232 | 2-1<br>2-5 | . <mark>%1</mark> .:<br>193 | ti1+1<br>181       | . <u>M</u> <del>.</del><br>164 | 0+1<br>147  | - <del>w1.</del><br>130           |                       | - w1.<br>96 | 1            | w1.<br>62    |           | - w1.<br>28 | *****                |    | _ |
|     | -                | 316 | 289                          | 232                     | 265                   | 218                     | 231                               | 214        | 197                         | 160                | 163                            | 146         | 129                               | 112                   | 95          | 78           | 61           | 44        | 27          | 10                   |    |   |
|     | -                | 315 | - w 1<br>29 8                | €4-0-<br>281            | . w1.⊣<br>2€4         | 3-0<br>2⊧7              | : ₩1;+<br>23D                     |            |                             | +1-0<br>179        |                                | D0<br>145   | -w1⊶<br>128                       | 1-0-<br>111           | -w1.<br>94  | 2-0-<br>77   | w1.<br>60    | 1         | -w1,<br>26  | 4-0<br>9             |    |   |
|     | -                | 314 | 297                          | 280                     | 263                   | 246                     | 229                               | 212        | 195                         | 178                | 161                            | 144         | 127                               | 110                   | 93          | 76           | 59           | 42        | 25          | в                    |    |   |
| -8  | -                | 313 |                              | <del>61</del> —1<br>279 |                       | ð−1<br>245              | - WibH<br>228                     | 2-1<br>211 | Ir                          | +1-1<br>177        | w1,-<br>160                    |             | ∵w1,-<br>126                      |                       | w1,-<br>92  | · · · · T    | - w1,-<br>58 |           | -₩1,-<br>24 | <del>1</del> 1<br>7  |    | _ |
|     | -                | 312 | 295                          | 278                     | 261                   | 244                     | 227                               | 210        | 193                         | 176                | 159                            | 142         | 125                               | 108                   | 91          | 74           | 57           | 40        | 23          | 6                    |    |   |
|     | -                | 311 | T                            | 4–2<br>277              |                       | 3–2<br>243              |                                   | 2-2<br>209 |                             | +1-2<br>175        | - w1-<br>158                   |             | -w1-<br>124                       | 5 T T T               | w1<br>90    | TI           | w1           | 3–2<br>39 | F           | 4 <u>2</u> .<br>5    |    |   |
|     | _                | 310 | 293                          | 276                     | 259                   | 242                     | 225                               | 208        | 191                         | 174                | 157                            | 140         | 123                               | 106                   | 89          | 72           | 65           | 38        | 21          | 4                    |    |   |
| -10 |                  | 309 |                              | (4 <b>—3</b><br>275     | 256                   | 3 <b>3</b><br>241       | w1<br>224                         | -23<br>207 |                             | 1-3<br>173         | 156                            |             | 1122 ml                           | 7 T T T               | ₩1.<br>86   | 7 <b>T</b> I | - w1<br>54   | 3–3<br>37 |             | 4-3<br>3             |    | _ |
|     | L                | 308 | 291                          | 274                     | 257                   | 240                     | 223                               | 206        | 189                         | 172                | 155                            | 13B         | 121                               | 104                   | 87          | 70           | 53           | 36        | 19          | 2                    |    |   |
|     |                  | 307 |                              | <del>(</del> 4–4<br>273 |                       | 3-4<br>239              |                                   | 2-4<br>205 |                             | 1 <b>-4</b><br>171 | -₩1 <del>/-</del><br>154       |             | : ₩1:-<br>120                     |                       | - w1.<br>86 | TI           | - w1.<br>52  |           | w1.<br>18   | <b>4-4</b><br>1      |    |   |
|     |                  |     |                              |                         |                       |                         |                                   |            |                             |                    |                                |             |                                   |                       |             |              |              |           |             |                      | l  |   |
|     |                  |     |                              | <u>.</u>                |                       |                         |                                   |            |                             | <u></u>            |                                |             | ii                                | <u></u>               |             |              | i            |           | <u>.</u>    | <u>.</u>             | ii |   |
| -12 | . Ц. Ц. Ц.<br>40 |     |                              | 38                      |                       |                         |                                   | 34         | 3                           | I                  | I                              | ۱ <u> </u>  | 4                                 | 1                     |             | <u>ا</u>     | 32           |           |             |                      | 30 |   |
|     |                  |     |                              |                         |                       |                         |                                   |            |                             |                    | α (J                           | 2000)       |                                   |                       |             |              |              |           |             |                      |    |   |

# Elixir/Terapix views on the Wide progress on W1



|        | 1                                     | 1        | Т                                     | 1             | T                      | 1    | -        |        | · · · | n<br>T |        | 1         | T        | T      | <b>—</b> | -            | -      | -        |        |
|--------|---------------------------------------|----------|---------------------------------------|---------------|------------------------|------|----------|--------|-------|--------|--------|-----------|----------|--------|----------|--------------|--------|----------|--------|
|        |                                       |          |                                       | .,            |                        |      |          |        |       |        | ļ,     |           |          |        |          | .,           |        |          | , .l., |
| 323    | 306                                   | 289      | 272                                   | 255           | 238                    | 221  | 204      | 187    | 170   | 153    | 136    | 119       | 102      | 85     | 63       | 51           | 34     | 17       |        |
|        |                                       |          |                                       |               |                        |      | 204      |        |       |        |        |           |          |        |          | 3 <b>*</b> - |        |          |        |
| £      |                                       | č 📘      | 1                                     | ġ.,           |                        | П    | <b>T</b> |        | Í     | İ.,    |        |           | 1        | 0      | 1        | 8            | 1      | 1        | i      |
| 322    | 305                                   | 28       | 27                                    | 24            | 232                    | 220  | 203      | 196    | 19    | 152    | 130    | 10        | 101      | 84     | 67       | 50           | 33     | 16       |        |
|        |                                       |          | con te                                | in the second | n na te                | 2+3  | 1.11     | h.     |       | 0+0    | con ta | 1+        |          | £+3.   | conta    | 8+3          | - rets | 4+3      |        |
| 321    | 30                                    | 27       | 270                                   | 23            | 235                    | 2.9  | 202      | 18     | 163   | 151    | 1.2    | 1 7       |          | 63     | 66       | 49           | 1      | 15       |        |
|        |                                       | IT.      |                                       | T.            | T I                    | T    | T.       |        |       |        | T      | T         |          |        |          |              |        |          |        |
|        |                                       |          |                                       |               | ▋■                     | -    |          | -      |       | -      |        |           |          | -      |          | -            | -      |          |        |
| 320    | 308                                   | 2%       | 26                                    | 222           | 230                    | 28   | 201      | 194    | 197   | 100    | 18     | 16        | 99       | 82     | 65       | 48           | 31     | 14       |        |
|        | ·                                     | <b>.</b> | e e e e e e e e e e e e e e e e e e e | 1312          | <b>1</b>               | 1212 |          | n-12 - |       | 0+2    |        | 1-62      | ··· #1;* | £+2··· |          | 842          |        | 4+2      |        |
| 319    | 302                                   | 285      | 253                                   | 251           | 23                     | 27   | 200      | 183    | 165   | 199    | 132    | 15        | 98       | 81     | 64       | 47           | 30     | 13       |        |
|        |                                       | T        |                                       | IT.           |                        |      |          |        |       |        |        |           |          |        |          |              |        |          |        |
|        |                                       |          |                                       |               |                        |      |          |        |       |        |        |           |          |        |          |              |        |          |        |
| 318    | 30                                    | 284      | 26                                    | 250           | 233                    | 216  | 15       | 182    | 165   | 118    | 131    | 114       | 97       | 80     | 63       | 46           | 29     | 12       |        |
| heres. | e e e e e e e e e e e e e e e e e e e |          | ere te                                | - ese         | e nete                 | 424  | . 11.4   | 7.4    |       | 0+n    | eret e | 1+1       | · st.    | £+3    | e wiz    |              |        |          |        |
| 317    | 30                                    | 283      | 264                                   | 240           | 23                     | 2 5  | 18       | 101    | 16    | 197    | 130    | 113       | 98       | 79     | 62       | 45           | 28     | 11       |        |
|        |                                       |          |                                       |               |                        |      |          |        |       |        |        |           |          |        |          |              |        |          |        |
| 316    |                                       |          |                                       | 1.            |                        | 1    | 197      | 1 100  | 163   | 146    |        |           | 95       | 78     | 61       | 44           | 27     | 10       |        |
| 316    | 25                                    | 202      | 26                                    | 248           | 23                     | 214  | 197      | 180    | 16.5  | 140    | 129    | 112       | 10       | 78     | ei       |              |        |          |        |
| jana.  | a an the                              | ÷        | ana fa                                | •••           | a co <mark>s</mark> te | +2-0 |          | 1-0    |       | -0-0   | in whe | 0-        | : wh     | Q-0    | er rete  | -00          | conte  | ÷-0      |        |
| 315    | 250                                   | 201      | 28                                    | 2 2 7         | 230                    | 213  | 196      | 179    | 162   | 145    | 128    | 111       | 94       | 77     | 60       | 43           | 26     | 9        |        |
|        |                                       | Ц.       |                                       | ц_            |                        |      |          | -      |       |        |        |           |          |        |          | <u> </u>     |        |          |        |
| 314    | 297                                   | 280      | 263                                   | 246           | 229                    | 212  | 195      | 178    | 161   | 144    | 127    | 110       | 93       | 76     | 59       | 42           | 25     | . 6      |        |
|        |                                       |          |                                       |               |                        |      |          |        |       |        |        |           |          |        |          |              |        |          |        |
|        |                                       | 640-13   | · wt.                                 | 40-1          | • • • <b>w</b> 10      | +7-1 | w1,4     | 1-1    | w1,-  | -D-1   | w1:-   | <u>41</u> | ••••f1   | Q-1    | · · w1.  | (B-1         | ·      | <b></b>  |        |
| 313    | 296                                   | 279      | 262                                   | 245           | 228                    | 211  | 194      | 177    | 160   | 163    | 126    | 109       | 92       | 75     | 58       | 41           | 24     | 7        |        |
|        |                                       |          | <u> </u>                              | 1             |                        |      |          |        |       |        | - 1    |           |          |        |          |              |        |          |        |
| 312    | 295                                   | 278      | 261                                   | 244           | 227                    | 210  | 193      | 176    | 159   | 142    | 125    | 108       | 91       | 74     | 57       | 40           | 23     | 6        | l      |
|        | · · · ·                               |          | -                                     |               | -                      |      |          |        |       |        |        |           |          |        | Ľ.,      | L            |        |          |        |
| ļ      |                                       | 4-2      |                                       | 13-2          | 11                     | 2-2- | :: whe   |        |       | D-2    | i:mb   |           | 1        | Q-2-   |          | 3-2-         |        | 4-2      |        |
| 311    | 294                                   | 277      | 260                                   | 243           | 226                    | 209  | 192      | 175    | 158   | 141    | 124    | 107       | 90       | 73     | 56       | 39           | 22     | 5        |        |
| heres. |                                       | -        |                                       | 5             | -                      | -    |          | -      | -     | -      |        | -         |          | -      | -        | -            | -      | -        |        |
| 310    | 293                                   | 276      | 259                                   | 242           | 225                    | 208  | 191      | 174    | 157   | 140    | 123    | 106       | 89       | 72     | 55       | 38           | 21     | 4        |        |
|        |                                       |          |                                       | i             |                        | e-3  |          |        |       | 0-3    |        |           |          | e-3.   |          | 3-3          |        |          |        |
|        |                                       | 4-3      |                                       | +3-3          | 11                     | 11   | 11       | 7-3    |       |        | 1      | 9-3       |          |        |          |              |        | ÷ 3      |        |
| 309    | 292                                   | 275      | 258                                   | 241           | 224                    | 207  | 190      | 173    | 156   | 139    | 122    | 105       | 88       | 71     | 54       | 37           | 20     | 3        |        |
|        | -                                     | -        |                                       | 1             |                        | -    |          | -      |       | -      |        |           |          | -      | -        | 5            |        | <u> </u> |        |
| 308    | 291                                   | 274      | 257                                   | 240           | 223                    | 206  | 189      | 172    | 155   | 138    | 121    | 104       | 87       | 70     | 53       | 36           | 19     | 2        |        |
|        | l                                     |          | l. who                                | 13-4          |                        | 2.4  |          | 1-4    | . who | 0-4    |        | 4         | · st.    | 2-4    | · who    | 3-4          |        | ÷ +      |        |
| 307    | 290                                   | 273      | 256                                   | 239           | 222                    | 205  | 188      | 171    | 154   | 137    | 120    | 103       | 86       | 89     | 52       | 35           | 18     | 1        | 1      |
| aur    | 1 210                                 | 210      | 200                                   | 230           | 222                    | 200  | 100      | 1/1    | 104   | 107    | 120    | 100       |          | 64     | 92       | 30           | 10     |          |        |
| ļ      |                                       |          | -                                     | <u>.</u>      | 11                     | -    |          | 1      |       |        |        |           |          | -      |          |              | -      |          |        |
|        |                                       |          |                                       |               |                        |      |          |        |       |        |        |           |          |        |          |              |        |          |        |
|        |                                       |          |                                       |               |                        |      |          |        |       |        |        |           |          |        |          |              |        |          |        |

• Loss of a lot of u band data

- Little progress on 04BNothing usable for
  - weak lensing
- Nothing usable for photo-z, clusters or QSOs
- Pre-survey OK

| 0   | 1   | 1           |             | I                         | I            | I                      |            |   | I           | I        | 1         |            | 1           | I                        | I                |     |
|-----|-----|-------------|-------------|---------------------------|--------------|------------------------|------------|---|-------------|----------|-----------|------------|-------------|--------------------------|------------------|-----|
| -   | 225 | 210         | 195         | 160                       | 165          | 150                    | 135        | 120   | 105         | 90       | 75        | 60         | 45          | 30                       | 15               |     |
| -   | 224 | 209         | 194         |                           | 164          |                        | 134        | 119   |             | 8        | 74        | 59         | 44          |                          | 14               |     |
| -   | 223 | 203         |             | 173 -                     | 2+3<br>163   |                        | 1+3<br>133 | 118   | D+3<br>103  | в:<br>В  | 1+3<br>73 | 58         | 2+3<br>: 43 | 28                       | 3+3<br>13        |     |
| -2  | 222 |             | 192         | 177<br>: <del>w</del> 2   | 162<br>2+2   |                        | 132<br>1+2 | 117<br>                                     | 102         |          | 72        | 57         | 42<br>2+2   | 27<br>: <del>w</del> 2,- | 12               |     |
| -   | 221 | 205         | 3-12<br>191 | 176                       | 161          | n                      | 131        | 116   | 101         | 86       | 71        | 56         | 41          | 26                       | 11               |     |
| F   | 220 |             | 190<br>3+1  | 175<br><del>w</del> 2,-   | 160<br>2+1   |                        | 130<br>1+1 | 115<br>w2.                                  | 100<br>D+1  | 85<br>   | 70<br>1+1 | 55<br>     | 40<br>2+1   |                          | 10<br>•3+1 · · · |     |
| -   | 219 | 204         | 189         | 174                       | 159          | 144                    | 129        | 114   | 99          | 84       | 69        | 54         | 39          | 24                       | 9                |     |
| -4  | 218 | 263         | 188<br>30   | 173                       | . 158<br>2-0 |                        | 128<br>1-0 | 113<br>⊷w2.–                                | 98<br>-00   | 83<br>w2 | 68<br>10  | 53<br>     | 38<br>2-0   | 23                       | 8<br>-3-0        |     |
| -   | 217 | 202         | 187         | 172                       | 157          | 142                    | 127        | 112   | 97          | 62       | 67        | 52         | 37          | 22                       | 7                |     |
| -   | 216 | 201<br>w2.4 | 186<br>3-1  | 171<br>w2                 | 156<br>2-1   | 141<br><del>w</del> 2l | 126<br>1-1 | 111<br>· · w2:-                             | 96<br>-0-1  | 81<br>w2 | 66<br>1-1 | 51<br>w2   | 36<br>2-1   | 21<br>w2                 | 6<br>3-1         |     |
| -   | 215 | 200         | 185         | 170                       | 155          | 140                    | 125        | 110   | 95          | 80       | 65        | 50         | 35          | 20                       | 5                |     |
| -6- | 214 | 199<br>     | 184<br>3-2  | 169<br>• • <del>•</del> 2 | 154<br>2-2   | 139<br>- w2,-          | 124<br>1-2 | 109<br>w2                                   | 94<br>D—2•• | 79<br>   | 64<br>1-2 | 49<br>     | 34<br>2-2   | 19<br>• <del>w</del> 2   | 4<br>3-2         |     |
| -   | 213 | 198         | 183         | 168                       | 153          | 138                    | 123        |   | 93          | 78       | 63        | 48         | 33          | 18                       | 3                |     |
| _   | 212 |             | 182<br>33   |                           | 152<br>2-3   |                        | 122<br>1-3 | 107<br>:::::::::::::::::::::::::::::::::::: |             | 77<br>   |           | 47<br>₩2;- |             |                          | 2<br>-33         |     |
| -   | 211 | 196         | 181         | 166                       | . 151        | 136                    | 121        | 106   | 91          | 76       | 61        | 48         | 31          | 16                       | 1                |     |
| -8  |     |             |             |                           |              |                        |            |   |             |          |           |            |             |                          |                  |     |
| -   |     |             |             |                           |              |                        |            |   |             |          |           |            |             |                          |                  |     |
|     |     |             |             |                           |              | I                      |            |   | 1           | 1        |           |            |             |                          |                  |     |
| 138 |     |             | 136         | 5                         |              |                        | 1.         | 34<br>α(J                                   | 2000)       |          | 1         | 132        |             |                          |                  | 130 |

- Little progress on 04B
- Nothing usable for weak lensing
- Nothing usable for photo-z, clusters or QSOs
- Pre-survey OK

| -        | 225 |                               | 195          | 160                                    | 165        | 150                               | 135                         | 120                                    | 105         | 90              | 75        | 60        | 45        | 30         |                          |     |
|----------|-----|-------------------------------|--------------|--|------------|-----------------------------------|-----------------------------|--|-------------|-----------------|-----------|-----------|-----------|------------|--------------------------|-----|
|          |     | 210                           | . 195        | 160                                    | 165        | 150                               | 135                         | : 120                                  | 105         | : 80            | . /5      | : 60      | 45        | 30         | 10                       |     |
| <b>_</b> | 224 | 209                           | 194          | 179                                    | 154        | 149                               | 1 54                        | 119                                    | 104         | 8               | 74        | 59        | 44        | 29         | 14                       |     |
| -        | 223 | : <mark>w</mark> 2:.⊣<br>20-3 | 3+3<br>193   | <mark>/1</mark> 2. <del>.</del><br>173 | 2+3<br>163 |                                   | 61+ <mark>3</mark><br>153   | <u>. w2</u><br>118                     | D+3<br>103  | <u>w</u> 2<br>6 | 1+3<br>   |           | 2+3<br>43 |            | - <del>,3+3</del><br>∶13 |     |
|          | 220 |                               |              | 17.5                                   |            |                                   |                             |  |             |                 |           |           |           |            |                          |     |
| _        | 222 | 207                           | 192          | 177                                    | 152        | 147                               | 152                         | 117                                    | 102         | 87              | 72        | 57        | 42        |            | 12                       |     |
| _        | 221 | 205<br>205                    | -3+2<br>191  | 175                                    | 2+2<br>161 | <u>w2</u> . <del>]</del><br>  145 | ⊧1+ <mark>1</mark> 2<br>151 | <u>. w2</u><br>116                     | -D+2<br>101 | 86              | 1+2<br>71 |           | 2+2<br>41 | - w2<br>26 | 3+2···                   |     |
|          |     |                               |              |  |            |                                   |                             | <br>                                   |             |                 |           |           |           |            |                          |     |
| _        | 220 | 205<br>                       | 190<br>-3+1  | 175<br>175                             | 150<br>2+1 | 145<br>w2 -                       | 130<br>51+1                 | 115<br>w2,-                            | 100<br>D±1  | 65<br>.w2,-     | 70        | 55<br>    | 40<br>7+1 | 25<br>     | 10                       |     |
| -        | 219 | <i>7147</i> 7<br>201          | 1 <b>3</b> 9 | 74/3<br>174                            | ⊬.⊤<br>159 | 144                               | 1 <mark>2</mark> 9          | 114                                    | 99<br>99    | 84              | 69        | 54        | 39<br>39  | 24         | 9                        |     |
|          | 218 | 203                           | 188          | 173                                    | 158        | 143                               | 128                         | 113                                    | 98          | 83              | 68        | 53        | 38        | 23         | 8                        |     |
| _        | 210 |                               | 3-0          |  | 2-0        |                                   | +1-0                        | w2                                     | :           | w2              | :         |           | 2_0       |            | -                        |     |
| _        | 217 | 202                           | 187          | 172                                    | 157        | 142                               | 127                         | 112                                    | 97          | 62              | 67        | 52        | 37        | 22         | 7                        |     |
|          | 216 | 201                           | 186          | 171                                    | 156        | 141                               | 126                         | 111                                    | 96          | 81              | 66        | 51        | 36        | 21         | 6                        |     |
| _        |     | w2.+                          | -3-1         | w2.+                                   | 2-1        | w2                                | H1-1                        | w2                                     | 0-1         | w2              | 1-1       | w2        | 2-1       | · · · w2   | 3-1                      |     |
| _        | 215 | 200                           | 185          | 170                                    | 155        | 140                               | 125                         | 110                                    | 95          | 60              | 65        | 50        | 35        | 20         | 5                        |     |
|          | 214 | 199                           | 184          | 169                                    | 154        | 139                               | 124                         | 109                                    | 84          | 79              | 64        | 49        | 34        | 19         | 4                        |     |
|          |     | :w2<br>198                    | 3-2<br>183   | · w2                                   | 1          | w2<br>138                         | 1-2                         | w2.                                    |             | w2              |           |           | 2-2       | 1          | 3-2                      |     |
| _        | 213 | 198                           | 183          | 168                                    | 153        | 138                               | 123                         | 108                                    | 93          | 78              | 63        | 48        | 33        | 18         | 3                        |     |
|          | 212 | 197                           | 182          | 167                                    | 152        | 137                               | 122                         | 107                                    | 92          | 77              | 62        | 47        | 32        | 17         | 2                        |     |
| _        | 211 |                               | 33<br>181    | 1                                      | 2-3<br>151 |                                   | 1– <b>3</b><br>121          | :::::::::::::::::::::::::::::::::::::: | D-3<br>91   | 1               | 1-3<br>61 | ₩2.<br>46 | 2-a<br>31 |            | 3-3<br>: 1               |     |
| _        |     |                               |              |  | ;          |                                   |                             |  |             |                 |           |           |           |            | <u> </u>                 | l   |
|          |     |                               |              |  |            |                                   |                             |  |             |                 |           |           |           |            |                          |     |
| _        | ·   |                               |              |  |            |                                   |                             |  |             |                 |           |           |           | u          |                          |     |
| _        |     |                               |              |  |            |                                   |                             |  |             |                 |           |           |           |            |                          |     |
|          |     |                               | I            |  |            |                                   |                             | 1                                      |             |                 |           | I         |           |            |                          | I.  |
| 38       |     |                               | 136          | L                                      | I          |                                   | 13                          | 34                                     | I           | 1               | · · ·     | 132       |           |            |                          | 130 |

- Little progress in 04B
  11 □° for weak
  - lensing
- Nothing for photo-z, clusters or QSOs
  - Pre-survey not
     observed on Wide
     pontings

| 58 <sup>225</sup> 210 195 180 165 150 135 120 105 90 75 60 45 30 15   |          |
|---|----------|
|   | <u> </u> |
| 224 209 194 179 164 149 134 119 104 89 74 59 44 29 14<br>   | _        |
| 223 208 193 178 163 148 133 118 103 88 73 58 43 28 13   |          |
| 222         207         192         177         162         147         132         117         102         87         72         57         42         27         12           w3.+3+2         w3.+2+2         w3.+1+2         w3.+0+2         w31+2         w3.2+2         w33+2  |          |
| 221         206         191         176         161         146         131         116         101         266         71         56         41         2211         201         2611         116         111         116         101         266         71         56         41         2611         116         116         116         111         2611         116 |          |
| 220         205         190         175         160         145         130         115         100         85         70         55         40         25 10   |          |
| 219 204 189 174 159 144 129 114 99 84 69 54 39 24 9   |          |
| Q<br>218 203 188 175 158 145 118 115 88 83 68 53 38 23 8<br>w3+3-9  |          |
|   |          |
| 54 216 201 186 177 116 14 116 11 98 81 66 51 36 2<br>w3.43 1 352 33 2   |          |
| 3+3−13+2−3+1−3+1−w3+1−1w3+1−1w3+2−1s-3−2−<br>215 200 185 170 155 140 125 110 25 80 65 50 35 20 5  | -        |
| 214 199 184 169 144 139 174 100 64 79 64 49 34 19 4<br>   | -        |
|   | -        |
| 52 - 212 197 182 1187 112 1137 112 107 52 77 62 47 32 17 2<br>w343-3 345 3 17 2   | - 1      |
| _ 211 196 1B1 166 1b1 128 1t1 108 61 76 61 46 31 16 1   |          |
|   |          |
|   | -        |
| 50 220 218 216 214 212 210 $\alpha$ (J2000)   | 20       |

- Little progress in 04B
- 11 □° for weak
   lensing
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  - Pre-survey not
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|           | Ļ           |      |                                       |      |                         |                         |        |                           |             |                        |                      |            |               |                   |                    |    |                              | -        |
|-----------|-------------|------|---------------------------------------|------|-------------------------|-------------------------|--------|---------------------------|-------------|------------------------|----------------------|------------|---------------|-------------------|--------------------|----|------------------------------|----------|
| 58        | 2 <u>25</u> | 210  | 195                                   | 18D  |                         | 165                     | 150    | 135                       | 3           | 120                    | 105                  |            | 80            | 75                | 60                 | 45 | 30 15                        | ·····    |
|           | 224         | 209  | 194<br>3:1313                         | 179  | ,<br>,3.+2-             | 164                     | 149    | 13<br>( <del>].</del> 1+3 | - 11        | 119<br><del>w</del> 3: | 104                  |            | 89<br>w3      | 74<br>+-3         | 59<br>w3.          | 44 | 29 14<br>w33                 | +3       |
|           | 223         | 201  |                                       | 171  | 112.0                   | 163                     | 148    | 13                        |             | 118                    | 103                  |            | 88            | 73                | 58                 | 43 | 28 13                        |          |
|           | 222         | 20   | 17 192<br>w3.+3+2                     | 17   | 7<br>w3.+2              | 162                     | 147    | 13<br>5.+1+2              | - 11        | 117                    | 102<br>-0+2          |            | 87<br>W3.(=)  | 72<br>(+2         | 57<br>W3.4         | 42 | 27 12<br>933+                | <b>.</b> |
| 56        | 221         |      | 06 191                                |      |                         | 161                     | 146    |                           |             | 116                    | 101                  |            |               | 71                | ···                | 41 | 26 11                        | ::_      |
|           | 220         | •    | 1905 190<br>1 <b>4/3.</b> +53+1       |      |                         | 2+1                     | 145    | 13<br>3. <del>+1+</del> 1 | - 11        | 115                    | 100                  | 11         | 85            | 70                | 55<br>w3-2         | 40 | 25 10<br>253+1               |          |
|           | 21          | - E  | 204 18                                | E P  |                         | 159                     | 144    | ÷ -                       | 11          | 114                    | 99                   | 11         | w3.;=1<br>84  | +1.<br>69         | - S C              | 39 | 24 9                         |          |
| 8         | 2           | 18 : | 203 18<br>w3.tt3~G                    |      | 1.0                     | 158                     | 14     | 111                       | 8           | 11 5                   | \$                   | EL C       | 83            | 68                | 1 22               | 38 | 23 8<br>₩3,∵3~D              |          |
| \$ (JZDO) | 2           | 17   | 202 11                                |      | - <del>13.</del><br>172 | 2 <del>-0.</del><br>157 | 14     | 3: <b>4</b> 1-1<br>2 1    | .7          | 112                    | -0-0<br>97           |            | ₩31<br>92     | -0 - 67<br>67     |                    | -0 | 22 7                         |          |
| 54        |             | 216  | 2.2                                   | - 11 | 171                     | 156                     | 14     | - 1                       | В           | 11                     | 98                   |            | я<br>, ()     | 66                | F 22               | 36 | 2                            |          |
|           | -           | 215  | w3. <b>+3</b> −<br>200 1              | 85   | 170                     | +2-<br>155              | 14     | 3. <del>4</del> 1-<br>) 1 | 25          | 110                    | -9<br>95             | 11         | 11111         | -1 <u>.</u><br>65 | - wā:÷⊋-<br>50 3   | 5  | 20 5                         |          |
|           | -           | 214  | 199<br>w3.+3                          |      | 169                     | 164                     | 13     | ) 1<br>1                  | .4          | 109                    | 54                   | 11         | 9<br>w31-     | 64                | 49 3<br>           |    | 19 4                         |          |
|           | -           | 213  |                                       | 183  | 163                     | 153                     | 5 13   | 3 1                       | 3           | ::¥⊉<br>103            | -9- <b>2</b>         | 11         |               | 63                | 48 3               |    | ₩3. <del>—</del> 3—2<br>18 3 | -        |
| 52        | -           | 212  | : : : : : : : : : : : : : : : : : : : | 182  | 167                     |                         | 2 1 13 | 191                       |             | 107                    | 92                   | 7          |               | 62                | 47 33              |    | 7 2                          | -        |
|           | -           | 211  | w3.45<br>196                          | 161  | 166                     | 9 <del>12 5</del><br>15 | 1 1    | ¥3, <u>+1</u> -<br>3 1    | 91116<br>11 | 1999<br>1995           | - <b>0-3</b> -<br>91 | 7          | ₩3.÷1-<br>6 ( |                   | - ₩3.+2-2<br>46 31 |    | w3 <u>3-</u> 3,<br>6 1       | -        |
|           |             |      | . <u>1</u>                            |      | <u>.</u>                |                         |        |                           |             | ļ <b>I</b>             |                      | <u> - </u> |               |                   |                    | [] |                              | Ip<br>-  |
|           | Ļ           |      |                                       |      |                         |                         |        |                           |             |                        |                      |            |               |                   |                    |    |                              |          |
| 50        |             |      |                                       | 1    |                         |                         |        |                           |             | 1                      |                      | 1          |               |                   |                    |    |                              |          |
|           |             | 220  |                                       | :    | 218                     |                         |        | 216                       |             | α (.                   | 214<br>J2000)        | 1          |               | 2                 | 212                |    | 210                          | 2        |

# 05A Schedule : Two Opposite Goals

Steering Group decision:
•34% of LS time for the wide or 85.8 hrs .

- Quick Wide Coverage for WL
  - ≽g, r/2, i
  - 2.3 hrs per pointing
    37 □° in 85.8 hrs

Full color coverage for phot-z
> u, g, r/2, i, z
> 6.2 hrs per pointing
> 13 □° in 85,8 hrs

#### 05A Schedule

- 50-50 split between the two options proposed on the cfhtls-w mailing list
   Canadian only response !
  - Final decision:
    - ≻40 hrs on W2 with u/2, g, r/2, i, z/2 with 2 pointing at full u and z
    - >40 hrs on W2 with g, r/2, i
    - ≻6 hrs on W1 r/2, i, z

# W1 Forecast for 05A

|        | W1  | W1   |         |
|--------|---|--|---------|
|        |   |  | ····, ' |
|        |   | 323 306 289 272 255 238 221 204 187 170 153 136 119 102 85 68 51 34 17                   |         |
| -      | 323 306 289 272 255 238 221 204 187 170 153 136 119 102 85 68 51 34 17                                  |  |         |
|        | 322 3C5 288 277 284 237 280 203 1861 169 1821 135 1161 101 84 67 50 33 16                               | . 322 306 298 279 284 287 290 200 196 106 102 135 188 101 84 67 50 33 16                 |         |
| -4     |   |  |         |
|        | 321 304 287 270 250 253 238 2.9 202 186 188 181 134 117 100 83 86 49 32 15                              | 321 30 <b>4 2</b> 77 27 <b>5 233 238 239 202 186 168 161 138 17</b> 7 100 83 66 49 32 15 |         |
| -      |   |  |         |
|        | 320 3C5 286 289 252 235 2 81 201 1841 167 1501 135 16 99 82 65 48 31 14                                 | 350 36 <b>3 266 264 372 25 298 260 144 167 160 138 166 99 52 66 48 31 14</b>             |         |
| -      | 520 520 520 520 520 520 520 520 520 520   |  |         |
|        | 319 302 285 268 251 234 217 200 183 168 189 122 115 98 81 64 847 30 813                                 | 319 342 2450 2749 2471 229 2477 250 143 149 199 1152 155 98 81 64 47 30 13               |         |
| _      |   |  |         |
|        | 318 301 284 207 280 233 2 6 159 182 105 188 131 114 97 80 63 46 29 12                                   | 318 30 204 204 200 20 20 20 190 190 192 106 106 131 114 97 00 63 46 29 12                |         |
| -6     | ······································  | -0   |         |
|        | 317 300 223 266 219 232 2 5 198 181 164 117 130 113 96 79 62 45 28 11                                   | 317 300 283 296 299 222 295 196 191 196 197 130 113 96 79 62 46 28 11                    |         |
| _      |   |  |         |
|        | 316 259 282 285 288 231 214 197 180 163 146 129 112 25 78 61 44 27 10                                   | 31E 2 3 282 282 286 3 8 23 21 21 197 100 163 146 129 112 95 78 61 44 27 10               |         |
|        |   |  |         |
|        | 315 248 291 244 27 230 213 196 179 162 145 128 111 94 77 60 43 26 9                                     | 315 290 201 209 297 220 203 190 199 102 145 129 111 94 77 00 43 26 9                     |         |
| (oazr) |   |  |         |
| 2      | 314 297 280 263 246 229 212 195 178 161 144 127 110 93 76 59 42 25 8                                    | 3 314 297 200 203 246 229 212 195 176 161 144 127 110 93 76 59 42 25 6                   |         |
| ~      | w1. <del>11</del> -1. w1. <del>13</del> -1. w1.+2-1. w1.+1-1. w10-1. w11-1. w12-1. w12-1. w13-1. w14-1. |  |         |
| -8     | 313 296 279 262 245 228 211 194 177 160 143 126 109 92 75 58 41 24 7                                    | -8 313 296 279 282 245 228 211 194 177 180 143 126 109 92 75 58 41 24 7                  |         |
|        |   |  |         |
| -      | 312 295 278 261 244 227 210 193 176 159 142 125 108 91 74 57 40 23 6                                    | 512 295 278 281 244 227 210 193 176 159 142 125 106 91 74 57 40 23 6                     |         |
|        | w1.41-2 w1.43-2 w1.42-2 w1.42-2 w1.41-2 w1.40-2 w1.41-2 w1.41-2 w1.42-2 w1.43-2 w1.44-2                 |  |         |
| -      | 311 294 277 260 243 226 209 192 175 158 141 124 107 90 73 56 39 22 5                                    | 311 294 277 200 243 226 209 192 175 156 141 124 107 90 73 56 39 22 5                     |         |
|        |   |  |         |
| -      | 310 293 276 259 242 225 208 191 174 157 140 123 106 89 72 55 38 21 4                                    | 310 293 276 259 242 225 208 191 174 167 140 123 106 89 72 86 38 21 4                     | · · ·   |
|        |   |  |         |
| -10    | 309 292 275 258 241 224 207 190 173 156 139 122 105 88 71 54 37 20 3                                    | -10  |         |
|        |   |  |         |
| -      | 308 291 274 257 240 223 206 189 172 155 138 121 104 87 70 53 36 19 2                                    | 308 291 274 257 249 223 209 189 172 156 138 121 104 87 70 53 36 19 2                     |         |
|        | ·w1.#4-4 w1.#3-4 w1.#2-4 w1.#1-4 w1.#0-4 w1.#1-4 w1.#1-4 w1.#2-4 w1.#2-4 w1.#3-4 w1.#4-4                | · · · · · · · · · · · · · · · · · · ·  |         |
| _      | 307 290 273 256 239 222 205 188 171 154 137 120 103 86 69 52 35 18 1                                    | 307 290 273 256 239 222 205 188 171 154 137 120 103 86 59 52 35 18 1                     |         |
|        |   |  |         |
| -      |   |  |         |
|        | ······································  |  |         |
| -12    |   |  |         |
| 40     | 38 36 34 32 30<br>α (J2000)   |  | 0       |
|        | a (3200)  | n (2000)   | -       |

# W2 Forecast for 05A

|        |              |               |                     |         |                             |                      | 2          |            |           |            |                   |                          |                       |   |   |     |            |   |     |             |             |             |     |            |    |
|--------|--------------|---------------|---------------------|---------|-----------------------------|----------------------|------------|------------|-----------|------------|-------------------|--------------------------|-----------------------|---|---|-----|------------|---|-----|-------------|-------------|-------------|-----|------------|----|
| 1 1    |              |               | 1                   | I       |                             |                      | I          | T          | I         | 1          | 1                 | 1                        | 1                     |   | 1 | -   | °          | 1 | 1   | 1           |             | 1           | 1   |            |    |
| 225    | 210          | 195 11        | 80 165              | 150     | 135                         | 120                  | 105        | 90         | 75        | 60         | 45                | 30                       | 15                    |   | - |     | F          |   | 225 | 210         | 195         | 180         | 165 | 160        | 13 |
| 224    | 200          | 194 1:        | 9 154               | 14)     | 154                         | 119                  | 104        | 8          | 74        | 59         | 44                | 29                       | 14                    | 1 | - |     | F          |   | 224 | 20          | 194         | 17          | 194 | 141        |    |
| 223    |              | +3 1<br>193 1 | 2.+2+3              |         | 61+3<br>153                 | <u>w2</u><br>118     | D+3<br>103 | . w2       | 1+3       | w2<br>58   | 2+3<br>43         | - w2.<br>28              | 3+3∙<br>13            |   | - |     | ŀ          |   | 223 | 20          | +3+3<br>143 | 17          | 2+3 | 144        | ÷. |
| 222    |              |               |                     | 147     | 1 52                        |                      | 102        | PT         | 72        |            | _                 |                          | 12                    |   | _ |     | -2         |   |     |             | 102         | 177         | 102 |            | ļ  |
|        | جد م         | 192 13<br>#2  | 7 152<br>2.+2+2     |         | 152<br>+1+2                 | 117<br>w2            |            | 87<br>     |           | 57<br>w2   | 42<br>2+2         | 27<br>                   |                       |   |   | ÷   |            |   | 222 | 20          | 192<br>(3+3 | 17          | 2+1 | 14         | 1  |
| 21     |              | 191 13        | 6 161               | 143     | 151                         | 116                  | 101        | 86         | 71        | 56         | 41                | 26                       | 11                    |   | - |     |            |   | 221 | 203         | 191         | 173         | 151 | 143        |    |
| 20     |              | 190 13        |                     |         | 130                         |                      | 100        | 65         | 70        | 55         | 40                | 25                       | 10                    |   | - |     | ŀ          |   | 220 | 20          | 140         | 17.)        | 190 | 145        | 1  |
| 219    |              | +1            | 12.+2+1<br>14 159   | 144 yz- | til+1<br>1 <mark>2</mark> 9 | <del>w2</del><br>114 | D+1<br>99  | . w2<br>84 | 1+1<br>69 | . w2<br>54 | 2+1<br>39         | ₩2<br>24                 | <del>3+</del> 1.<br>9 |   | - |     | -          |   | 219 | 20          | +3+1<br>199 | 17.         | 2+  | 14 -       | ĺ  |
|        | 203          | 188 13        | 73 : 158            | 143     | 128                         | 113                  | 98         | 83         | 68        | 53         | 38                | 23                       | 8                     |   |   |     |            |   | 218 | 20          |             | 173         | 168 | 143        |    |
|        | w2.+3        |               | /2.+2-0             |         | +1-0                        |                      | 0-a        |            |           |            |                   |                          | 3-0                   |   |   | 22  | _ <b>_</b> |   |     |             |             | ¥2.9        | 2-0 | ¥2.        |    |
|        | 262          | 187 1         | 72 157              | 142     | 127                         | 112                  | 97         | 82         | 67        | 52         | 37                | 22                       | 7                     |   | - |     | g (1200)   |   | 217 | 20          | 187         | 172         | 157 | 142        |    |
|        | 201<br>w2.+3 |               | 1                   |         | 126                         | 111                  | 96         | 81         | 66        | 51<br>2    | 36                | 21                       | 6                     |   | - |     | F          |   | 216 | 201         | 186         | 171         | 156 | 141        | l  |
|        | 00           |               | v2.+2−1<br>70 : 155 |         | +1-1<br>125                 | w2<br>110            |            | w2<br>80   |           | w2<br>50   | 35                | 20                       | 5                     |   | - |     |            |   | 215 | 92.4<br>200 | +3-1<br>185 | 92.+<br>170 | 155 | #Z.<br>140 |    |
|        | 199          | 184 10        | 59 154              | 139     | 124                         | 109                  | 94         | 79         | 64        | 49         | 34                | 19                       | 4                     |   |   |     |            |   | 214 | 190         | 184         | 160         | 154 | 139        |    |
| <br>13 |              |               | √2.+2-2<br>8 153    |         | +1-2<br>123                 | w2.<br>108           | 0-2<br>93  | -w2.<br>78 | 1-2<br>63 | - w2<br>48 | 2 <u>-2</u><br>33 | - <del>- 1</del> 2<br>18 | 3-2<br>3              |   | _ |     | -6         |   |     | w2:         |             | 1           | 2-2 | ×2         |    |
|        | 130          | 100 11        |                     | 100     | 120                         | 100                  | 40         | 70         | 0.5       | **         | ~                 |                          | -                     |   | - |     | F          |   | 213 | 198         | 183         | 168         | 153 | 138        |    |
| 2      |              |               | 57 152<br>v2.+2-3   | 11      | 122<br>1-3                  | 107<br>w2,-          |            | 77<br>     | 62        | 47<br>w2   | 32<br>0_3         | 17<br>                   | 2                     |   | _ |     |            |   | 212 | 197         | 182         | 167         | 152 | 137        |    |
| 211    |              |               |                     |         | 121                         | 106                  |            | 76         |           |            | 31                |                          | 1                     |   |   | e - | F          |   | 211 | 195         | 3-3-        | 168         | 2-3 | 136        |    |
|        |              |               | -                   |         |                             |                      |            |            |           |            | <u>.</u>          |                          |                       |   | - |     | F          |   |     |             |             | 4           |     |            | i  |
|        |              |               | 1                   |         |                             |                      |            |            |           | ÷          |                   |                          | 1                     |   |   |     |            |   |     |             |             |             |     |            |    |

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+2.+3+3

#2. 3+2-

+2-3+1

#2. 3-0

21 0

+2--3-1

w2.-3-2-

18 3

- 4

w2.

w2.-

#2 -2-

w2.-2-0-

#2.-2

12:2-2

w2+2-3-

\*2.-3+2

x2.-3+1

\*2.-3-0

×2.-3-1

-2

w2.-D+1

w2.-D-0

+2+3-3-

# W3 Forecast for 05A

|            |          |                |  |          |                |                 |          |                  |             | W              | /3            |           |                      |      |     |          |  |        |          |                        |     |        |     |              |            |         |          |          |              |            |     | W3            |          |              |                     |          |            |              |          |       |             | 11  |
|------------|----------|----------------|--|----------|----------------|-----------------|----------|------------------|-------------|----------------|---------------|-----------|----------------------|------|-----|----------|--|--------|----------|------------------------|-----|--------|-----|--------------|------------|---------|----------|----------|--------------|------------|-----|---------------|----------|--------------|---------------------|----------|------------|--------------|----------|-------|-------------|-----|
|            | 1        |                | 1 1  |          |                |                 |          |                  |             | 1              | '             |           | 1                    | 1    | 1 1 | 1        |  |        | 1 1      | 1                      |     |        |     |              |            |         |          |          |              |            |     | T T           |          | 1 1          |                     | -        |            |              |          |       |             |     |
|            |          |                |  |          |                |                 |          |                  |             |                |               |           |                      |      |     |          |  |        |          |                        |     |        |     | '            |            |         |          |          |              |            |     |               |          |              |                     |          |            |              |          |       |             |     |
|            | Γ        |                |  |          |                |                 |          |                  |             |                |               |           |                      |      |     |          |  |        |          |                        |     | F      |     |              |            |         |          |          |              |            |     |               |          |              |                     |          |            |              |          |       |             | -   |
|            | 1 1      |                |  | C        |                |                 | 1        | - C -            | un 11       |                |               | - 1 C - 1 |                      |      | + C |          |  |        |          |                        |     |        |     |              |            |         | : :      |          |              |            |     |               |          |              |                     |          |            | : :          |          |       |             |     |
| 58         | 225      | 210            | 195  |          | 50             | 100 :           | 150      | 10               |             | 120            | : 10a         |           | 20 ÷                 | : 75 | 60  |          | * <b>P</b> :                             | 30 1   | 2        |                        |     | 58 225 | 2   | 210          | 195        | 180     | 165      | 11       | 0            | 135        | 120 | 105           | 90       |              | 75                  | 60       | 45         | 30           | 15       |       |             | _   |
|            |          |                |  |          |                |                 | 1        | 23               | . 11        |                | 12            | ΤŤ.       |                      |      | ÷ [ |          |  |        | . X - 1  |                        |     |        |     | -            |            | i -     | 117.0    | 11       |              | -          | 1   |               | ii.      |              | - ÉÉ                |          |            | ETC .        | 11       | i     |             |     |
|            | 224 :    |                | 194  |          | 79             |                 | 149      | 2 ( 13<br>}      | 54          | 119            | 104           |           | 39                   | 74   | 59  |          | 14  :                                    | 29 14  | ŧ.       |                        |     | 224    |     | 209          | 194        | 179     | 164      | 1        | 69           | 134        | 119 | 104           | 89       |              | 74                  | 59       | 44         | 29           | 14       |       |             |     |
| •          |          |                | 3.+3+3   |          | -w3:+3         |                 |          | 9 <del>113</del> |             | w3.            |               |           | wā 👉                 |      |     | 32+      |  | w3.    |          | ngi gi                 |     |        |     |              |            |         | \$4213   |          | water        | +3         |     | .0+3          |          | 13-1+3       |                     |          | a          |              | 3-3+3-   |       |             | 7   |
|            | 223      | 20             | 8 193  | 3   1    | 78             | 163             | 148      | 12 ( <b>1</b> 2  | 33          | 118            | 103           | 1         | 38 }                 | 73   | 58  | 4        | 3 :::                                    | 28 13  | 1        |                        |     | 22     |     |              | 193        | 178     | 16.163   |          | 48           | 133        | 118 | 103           | 88       | 3 2 7        | 3                   | 58       | 43         | 28           | 13       | -     |             |     |
|            | 1        | Ц <sub>г</sub> |  | _44      |                | ļ               | ý –      |                  |             |                | 4             | -1-1      |                      |      | ų – |          |  |        |          | <b></b>                |     |        |     |              |            |         | 83       |          |              |            |     |               |          | -            |                     |          | 1          |              | 10       |       |             | - 1 |
|            | 222      | 20             | 19   | 2        | 177            | 162             | 147      | 1                | 32          | 117            | 102           | 18        | 37 :                 | 72   | 57  | - 4      | 2  | 27 12  |          | 8.8                    | -   | 2      | 22  | 207          | 192        | 177     | 16       | 2 1      | 47 1         | 132        | 117 | 102           | 87       | 7            | 2                   | 67       | 42         | 27           | 12       | -     |             |     |
|            |          |                | w3.+3+2  |          | w3.+           | 2+2             |          | 3.+1+2           | 2           | ₩3             | 0+2           | -         | %3.÷                 |      |     | 52+2     |  | Ø3     | 3+2      |                        |     |        |     |              | +3+2       | 1       | 3.+2+2   | - 14     |              |            |     | -012          | ļ.       | 35-1+2       |                     | w3:      | 24.2       |              | -3+2     |       |             | -   |
|            | 221      | 2              | 06 19  | 91   [   | 176            | E 161           | 146      | 1                | 31          | 116            | 101           | 8         | 6                    | 71   | 56  | S 5 41   |  | 26 11  |          |                        |     |        | 221 |              | 191        |         | 16       |          |              | 131        | 116 | 101           | 86       | 71           | a se se se se se se |          | 41         | 26           | 11       |       | ····        |     |
| 56         |          |                |  |          |                | -               |          | <u>.</u>         |             |                |               |           |                      |      |     | 22       |  |        |          | _J                     |     | 5(     |     |              |            |         |          |          | - 11         |            |     |               |          |              |                     |          |            |              |          |       |             | _   |
|            | 22       | o :  _ :       | 205 1  | 90       | 175            | 2 160 ·         | 145      | (   1            | 30          | 115            | 100           | 8         | 5                    | 70   | 55  | 40       |  | 25 10  |          |                        |     | - Eff  | 220 | 205          | 190        | 175     | 1 2 2 10 | . 11     | 145          | 130        |     |               |          | 100          |                     |          |            |              |          |       | · · · é - · |     |
|            | -<br>    |                | w3.+3+   | 1        |                | 2+1             |          | 3.+1+            | 1           | w.3.           |               |           | w31                  | +1   |     | 2+1      |  | . wa 3 | +1       |                        |     | -      |     |              |            |         | - 33 -   | - 11     | 1            |            |     |               | 1        | 111          | , II.,              |          | T          | 1            | 1        |       |             |     |
|            | 21       | . I.           | 204  | 189      |                | - 159           | 144      | e En             | 29          | 114            | 99            | 8         |                      | 69   |     | 39       |  | 4 9 🗄  |          | 1.1                    |     | 1      |     |              | L+3+1      | 1.1     | *3:+2+4  | I E      | constant<br> | 2          | 1   | 0+1<br>       | 1101     |              |                     | w32      | *1         | 1            | 39-1     | ····· | ΠÊ -        | 7   |
|            | <u>.</u> |                |  |          |                | -               |          | 11               |             |                |               |           |                      |      | :   |          |  |        |          | J                      | -   | 1      | 219 | 204          | 189        | 174     | • 🗄 '    | 59       | 144          | 129        | 1"  | 1 <b>1</b>    | 1 1      | 11           | ' II °              | 1        | 1          | 24           | 1        |       |             |     |
| _          | 2        |                | 203  | 188      | 175            | 158             | 14       | s <u>3 (</u> 1   | 8           | 115            | 98            | 8         | 3                    | 68   | 53  | 38       | 2  | 3      | 8        |                        |     |        | 4   |              | 1          | -94     | 13       | 11       |              |            |     | 4             |          | -            | 11                  |          | 1          |              |          | H     | ÷.          | - 1 |
| (ogzr)     | l:       |                | - #3 +3  | 1.1      |                | <b>b</b> 2-0    | 11.      | 3.44-            |             |                | -0-0          | .EL.,     | w31                  | -0E  |     | -2-0-    | . 6                                      | - د    |          |                        |     | , 18   | 218 | 203          | 188        | 17      | 131      | a        | 14           | 18         | 11  | 1 *           | 6.       | - 1 <b>°</b> |                     |          | <b>†</b>   | 23           |          |       |             |     |
| C.         | Γ,       | 217            | 202  |          | 172            | 157             | 14       | 2 1              | 7           | 112            | ÷ 97          | 8         |                      | 67   | 1   | 37       | 22                                       |        |          | ···· ·                 | (20 |        |     | i ann a      | 3.+3-0     |         | +3;+2-0  |          | *3.+         | <u>ا</u> م |     | -0-0          | <b>F</b> | s1-0         |                     | ×32-     | s          | <del>.</del> | 5-0      |       | 2           | -   |
| <b>4</b> 0 |          |                | 11   |          |                |                 | 11       |                  | <b>F</b> 11 |                | ΕT            | 11        | 743                  |      |     |          | 11                                       |        | · .      |                        | *0  |        | 217 | 202          | 18         | 7    12 | * E 1    | 77       | 148          | 17         | 11  | 11            | B2       | 19           | 54                  | 11       | 3 <b>1</b> | 22           | 2        |       | E           |     |
| 54         |          | 216            | 201  | 186      | 17             | 16              | 14       |                  | в           | 11             |               | B'        |                      | 66   | 51  | 36       | 1.2                                      |        |          | يدر: : : : : : :<br>:: |     | 54     |     |              | -          |         | L E      |          |              | 2          |     | t –           |          |              |                     | ÷        | ┢┼┼        | -pH+         |          |       | E.          | _   |
|            | 1 2      |                |  |          | 11             |                 | 11'      |                  |             | , i            | 1T            |           | - 12                 | :    |     | ÷        | 1  | , E)   |          |                        |     |        | 216 | 20           | 1 22 18    | 8 1     | 7        | 16       | 14           | 110        | 11  |               | 8        | - i 🕈        | 51                  |          | <b>*</b>   | 21           |          |       | E           |     |
|            |          |                | w3.+3  |          | ľ              | Ŧ.              | -14-1    | 9.327            |             |                | 9-1-1-        |           | n3.–1                |      |     | 2-1      |  | 00-    | 1114     |                        |     |        |     |              | w3.+3-1    |         | ·3.+2    |          |              | ŧ.,        | ×3. | <u>.</u>      |          |              |                     | -32-     |            | v33          | ·        |       | E           |     |
|            |          | 215            | 200  | 185      | 11             | 155             | 111      | 1                | 25          |                | 95            | 80        | 14                   | 65   | 50  | 35       | 20                                       | 3 P    |          | 8                      |     | Г      | 215 | 5 20         | 0 3 1      | 15      | • 8      | 185      | 140          | 125        | 11  | 6             | 80       | 1.4          | 50                  | 1        | •          | 20           |          |       |             | 1   |
|            | L÷       |                |  |          |                |                 |          |                  |             |                |               | 11-       |                      | . 11 |     | <u> </u> | di d |        | : انہ 🗖  | an agi i               |     |        |     | :: É         | 10 mm      |         | 12       |          |              | 2          |     | E             |          |              |                     | <u> </u> |            |              |          |       |             |     |
|            | 1.3      | 214            | 199  | 184      | 169            | E 14            | 13       | 181              | 124         | 109            | 194           | 79        |                      | 64   | 49  | 34       | 19                                       | 4      | 1        | 8                      |     | F      | 21  |              | 99 1       | 84      | 107      | 14       | 137          | 1 14       | 10  |               | 76       |              | 44                  |          | •          | в 🕴          |          |       |             | -   |
|            | 1 33     |                | w3.+   |          |                | 1+2-2           | :[[:     | 3.41             | <b>1</b>    | ::: <b>3</b> : | <b>9-1</b> :: |           | v31-                 |      | wa  |          |  | -3-2   | tt spiss | uu și -                |     |        |     |              |            |         |          | <b>.</b> | -3.4         | i-s        |     | -0-2          | -3       | -1-1         |                     | 32-2     |            | -3-3-        |          |       |             |     |
|            | 1 ::     | 213            | 198  | : 183    | : [ 1 <b>6</b> | 1               | 5   [13  | 3                | 123         | 108            | 93            | 78        | 8 🔡                  | 63   | 48  | 33       | 18                                       | 3      |          | - 8                    |     | F      | 2   |              | 95 E       | 83      | 103      | 1 3      | 123          | 113        | 10  |               | 78       |              | 48                  | 3        | , ,        | в            |          |       |             | -   |
|            | - Q      |                | i de la comencia de l |          | ģų į           |                 | -i-i-    | - ite            |             |                | Ę.            | 11        |                      | - 4  |     | i        | h -                                      | -      | _i::     | and -                  |     |        |     |              | - 12       |         |          |          |              | į.         |     |               |          |              |                     |          |            |              |          |       |             |     |
| 52         | 4 - S    | 212            | 197  | 182      | 16             | r († 1          | 2     13 | <b>7</b> ( ) (   | 12          | 107            | - 92          | 77        | r 10                 | 62   | 47  | 32       | 17                                       | 2      |          | - 8 -                  |     | 52     | 2 2 |              | 197        | 182     | 10       | 12       | 13           | 1 12       | 10  | 10            | 7        | 1            | 47                  |          | 2 1 1      |              |          |       |             | _   |
|            |          |                | ₩3,  | ŧ3−3     | ile y          | 3. <u>12</u> .5 | ::!::::  | 3,±1;            | - inde      | 3              | <b>9-</b> 5-  | :H*       | /3. <del>,</del> -}- | 3    | ₩32 | -3       | . w3.                                    | -3-3   | ns her   | en d                   |     |        |     |              | w3:+2-     |         |          |          |              | 1          |     | 1             | .        |              |                     | 1        |            | a da         |          |       |             |     |
|            | -        | 211            | 196  | 181      | 16             | 8 15            | 1   1:   | <b>s</b> 🗄       | 111         | 105            | ÷s⊓.          | 76        | i   1                | 51   | 46  | 31       | 16                                       | 1      | -        |                        |     |        |     |              | 2.4        | 181     | 100      |          |              |            | 10  |               | 1        | 11           |                     | 1        |            |              |          | ····  |             |     |
|            |          |                |  | <u> </u> |                |                 |          |                  |             |                |               |           |                      |      | 23  |          | 1  |        |          |                        | 1.1 | Г      | 1.1 |              | <b>"</b> 8 |         | T        | T I      |              |            | 1   | 1             | 11 1     | L T          | 11 7                | 1        | '    "     |              |          |       |             | 1   |
|            | L        |                |  |          |                |                 |          |                  |             |                | 1             |           |                      |      |     |          | :  |        |          | 1                      |     |        |     | · · · · · E- |            | - 18    |          |          |              |            |     |               | <u> </u> |              |                     | -        | _ų_        |              | <u> </u> |       |             |     |
|            |          | ÷              |  | 11 - E   | ÷.             | 11              | 11       |                  |             | -              | ÷             | ÷.        | 11                   |      |     |          |  | E.     | ÷        |                        |     | F      |     |              |            |         |          |          |              |            |     |               |          |              |                     |          |            |              |          |       |             | -   |
|            |          |                |  |          |                |                 |          |                  |             |                |               |           |                      |      | hav |          |  |        |          |                        |     |        |     |              |            |         |          |          |              |            |     |               |          |              |                     |          |            |              |          |       |             |     |
|            | F        |                |  |          |                |                 |          |                  |             |                |               |           |                      |      |     |          |  |        |          |                        |     | F      |     |              |            |         |          |          |              |            |     |               |          |              |                     |          |            |              |          |       |             | -   |
|            |          | 1              |  |          | 1              |                 |          | I.               |             |                | 1             |           |                      |      | 1   |          |  | 1      |          |                        |     |        |     |              |            |         |          |          |              |            |     |               |          |              |                     |          |            |              |          |       |             |     |
| 5(         |          |                |  |          |                |                 |          |                  |             |                |               |           |                      |      |     |          |  |        |          |                        |     | 50     |     |              |            |         |          | 1        |              |            |     |               |          | 1 1          |                     | 1        |            |              |          |       |             |     |
|            |          | 220            |  |          | 218            |                 |          | 216              |             | a 613          | 21-<br>2000)  | 4         |                      | 2    | 12  |          |  | 210    |          | 1                      | 08  |        | 2   | 220          |            | 21      | 18       |          | 21           | 16         |     | 214<br>α (J20 | ~~~      |              | 212                 |          |            | 210          |          |       | 208         |     |
|            |          |                |  |          |                |                 |          |                  |             | ~ (9)          |               |           |                      |      |     |          |  |        |          |                        |     |        |     |              |            |         |          |          |              |            |     | a (v10        | **)      |              |                     |          |            |              |          |       |             |     |