|   |            | COMMITTEE OF AGE READING EXPERTS  AGE STRUCTURE EXCHANGE INVOICE |            |             |           |             |            |  |  |
|---|------------|--|------------|-------------|-----------|-------------|------------|--|--|
| EXCHA   | NGE ID NO. | 07   | -005       |             | SPECIES   |             | HAKE       |  |  |
| EXCHANGE YEAR   |            |  |            | AREA        |           | BC          |            |  |  |
| DRIGINATING AGENCY  |            | D  | FO         | STRUCTURE   |           | 0           | TOLITH     |  |  |
| O.A. COORDINATOR*   |            |  |            | TECHNIQUE   |           | BREA        | K AND BURN |  |  |
| COOP  | ERATOR(S)  | CDFO, NMFS-NWFSC   |            | PURPOSE     |           | CALIBRATION |            |  |  |
|   |            |  |            | SAMPLE n=   |           |             | 100        |  |  |
| DATE INITIATED  |            | 9-Nov-07   |            | NO. READERS |           | 2           |            |  |  |
| SPECIMEN  | CAPTURE    | AGENCY (1  | AGENCY (2) | AGENCY (3   | AGENCY (4 | AGENCY (5   | ORIGINAL   |  |  |
| NUMBER  | MM/DD/YY   | CDFO   | MFS-NWFS   | С           |           |             | SAMPLE ID  |  |  |
| 1   | 08/01/07   | 1  | 1          |             |           |             | 6014       |  |  |
| 2   |            | 5  | 6          |             |           |             | 6015       |  |  |
| 3   |            | 4  | 4          |             |           |             | 6016       |  |  |
| 4   |            | 7  | 7          |             |           |             | 6017       |  |  |
| 5   |            | 4  | 4          |             |           |             | 6020       |  |  |
| 6   |            | 8  | 8          |             |           |             | 6022       |  |  |
| 7   |            | 8  | 8          |             |           |             | 6025       |  |  |
| 8   |            | 1  | 1          |             |           |             | 6028       |  |  |
| 9   |            | 6  | 6          |             |           |             | 6031       |  |  |
| 10  |            | 3  | 3          |             |           |             | 6037       |  |  |
| 11  |            | 6  | 8          |             |           |             | 6038       |  |  |
| 12  |            | 8  | 8          |             |           |             | 6046       |  |  |
| 13  |            | 8  | 8          |             |           |             | 6052       |  |  |
| 14  |            | 11   | 11         |             |           |             | 6054       |  |  |
| 15  |            | 3  | 3          |             |           |             | 6061       |  |  |
| 16  |            | 6  | 6          |             |           |             | 6062       |  |  |
| 17  |            | 6  | 6          |             |           |             | 6063       |  |  |
| 18  |            | 8  | 8          |             |           |             | 6065       |  |  |
| 19  |            | 1  | 1          |             |           |             | 6070       |  |  |
| 20  |            | 1  | 1          |             |           |             | 6087       |  |  |
| 21  |            | 1  | 1          |             |           |             | 6100       |  |  |
| 22  |            | 1  | 1          |             |           |             | 6115       |  |  |
| 23  |            | 7  | 7          |             |           |             | 6126       |  |  |
| 24  |            | 1  | 1          |             |           |             | 6128       |  |  |
| 25  |            | 1  | 1          |             |           |             | 6138       |  |  |
| COMMENT   |            |  |            |             |           |             |            |  |  |
| USE AND USER INFO: A CARE member initiates an exchange by requesting an Exchange Id number from the CARE Age Structure Exchange (CASE) Coordinator, the CARE vice chair. The CARE member conducts and completes the exchange and submits this completed invoice to the CASE Coordinator. This PRECISION STATISTICS  AVERAGE % ERROR 1.36 INDEX OF PRECISION FICIENT OF VARIATION 1.93 %AGREEMENT 82 |            |  |            |             |           |             |            |  |  |

| COMMITTEE OF AGE READING EXPERTS  AGE STRUCTURE EXCHANGE INVOICE   |             |                  |              |  |                |           |              |  |
|--|-------------|------------------|--------------|--|----------------|-----------|--------------|--|
| EXCHANGE ID NO.  |             |                  | 07-005       |  | SPECIES        |           | HAKE         |  |
| EXCHANGE YEAR  |             |                  |              | 1  | AREA           |           | BC           |  |
| DRIGINATING AGENCY   |             |                  |              | ST   | STRUCTURE      |           | OTOLITH      |  |
|  | RDINATOR*   |                  |              | 4  |                |           | EAK AND BURN |  |
|  |             | CDFO, NMFS-NWFSC |              | PURPOSE  |                |           | CALIBRATION  |  |
|  | ` ,         | ,                |              | SAMPLE n=  |                |           | 100          |  |
| DATE   | E INITIATED | 9-Nov-07         |              | NO.  | NO. READERS    |           | 2            |  |
|  |             |                  | 1            |  | - 3-::0\((4    |           | 2=:20.141    |  |
|  |             |                  | 1 AGENCY (2) |  | AGENCY (4)     | AGENCY (5 |              |  |
| NUMBER   | MM/DD/YY    | CDFO             | NMFS-NWFS    | 3  |                |           | SAMPLE ID    |  |
| 26   | 08/02/07    | 8                | 8            |  |                |           | 10060-6139   |  |
| 27   | 08/05/07    | 1                | 1            | <u> </u>   | 1              |           | 6146         |  |
| 28   |             | 1                | 1            |  |                |           | 6154         |  |
| 29   |             | 6                | 6            |  |                |           | 6160         |  |
| 30   |             | 8                | 8            |  |                |           | 6167         |  |
| 31   |             | 4                | 4            |  |                |           | 6170         |  |
| 32   |             | 8                | 8            |  |                |           | 6174         |  |
| 33   |             | 1                | 1            |  |                |           | 6180         |  |
| 34   |             | 8                | 8            | <del>                                     </del> |                |           | 6182         |  |
| 35   | <b>†</b>    | 9                | 9            | 1  |                |           | 6183         |  |
| 36   |             | 4                | 4            | 1  |                |           | 6189         |  |
| 37   |             | 8                | 8            | <del>                                     </del> |                |           | 6191         |  |
| 38   |             | 9                | 9            | <del>                                     </del> | , <del> </del> |           | 6195         |  |
| 39   |             | 8                | 8            | <del>                                     </del> | ·              |           | 6203         |  |
| 40   |             | 8                | 8            | <del>                                     </del> | i <del></del>  |           | 6212         |  |
| 40   |             | 10               | o<br>12      | <del>                                     </del> | 1              |           |              |  |
|  |             |                  |              | <del>                                     </del> | · -            |           | 6223         |  |
| 42   |             | 6                | 7            | <del>                                     </del> | i <del></del>  |           | 6227         |  |
| 43   |             | 9                | 9            | <del>                                     </del> | 1              |           | 6230         |  |
| 44   |             | 7                | 8            | <del>                                     </del> |                |           | 6231         |  |
| 45   |             | 10               | 11           | <del>                                     </del> |                |           | 6233         |  |
| 46   |             | 8                | 8            | $\longmapsto$                                    |                |           | 6237         |  |
| 47   |             | 8                | 8            | $\longmapsto$                                    |                |           | 6244         |  |
| 48   |             | 8                | 8            | <del>                                     </del> |                |           | 6248         |  |
| 49   |             | 12               | 11           | <b>↓</b>   |                |           | 6251         |  |
| 50   |             | 8                | 8            |  |                |           | 6255         |  |
| COMMENT  |             |                  |              |  |                |           |              |  |
| USE AND USER INFO: A CARE member initiates an exchange by requesting an Exchange Id number from the        |             |                  |              |  |                |           |              |  |
| CARE Age Structure Exchange (CASE) Coordinator, the CARE vice chair. The CARE member conducts and          |             |                  |              |  |                |           |              |  |
| completes the exchange and submits this completed invoice to the CASE Coordinator. This CARE Age Structure |             |                  |              |  |                |           |              |  |
| PRECISION STATISTICS   |             |                  |              |  |                |           |              |  |
|  | = % ERROR   |                  | ] INDEX OF [ | PRECISION  |                |           |              |  |
| FICIENT OF   | VARIATION   |                  |              | GREEMENT   |                |           |              |  |

| COMMITTEE OF AGE READING EXPERTS  AGE STRUCTURE EXCHANGE INVOICE   |            |                  |              |                |           |             |             |  |
|--|------------|------------------|--------------|----------------|-----------|-------------|-------------|--|
| FXCHAI   | NGE ID NO. | 0                | 7-005        | SPECIES        |           |             | HAKE        |  |
| EXCHANGE YEAR  |            |                  |              | AREA           |           |             | BC          |  |
| DRIGINATING AGENCY   |            |                  |              | s <sup>-</sup> | STRUCTURE |             | OTOLITH     |  |
| O.A. COORDINATOR*  |            | S. MacLellan     |              | TECHNIQUE      |           | BRE         | AK AND BURN |  |
|  |            | CDFO, NMFS-NWFSC |              | PURPOSE        |           | CALIBRATION |             |  |
|  |            |                  |              | SAMPLE n=      |           | 100         |             |  |
| DATE   | INITIATED  | 9-Nov-07         |              | NO. READERS    |           | 2           |             |  |
| SPECIMEN   | CAPTURE    | AGENCY (         | 1 AGENCY (2) | AGENCY (3      | AGENCY (4 | GENCY (5    | ORIGINAL    |  |
|  | MM/DD/YY   | CDFO             | MFS-NWFS     |                | ,         | `           | SAMPLE ID   |  |
| 51   | 08/03/07   | 1                | 1            |                |           |             | 10060-6283  |  |
| 52   |            | 1                | 1            |                |           |             | 6304        |  |
| 53   |            | 8                | 7            |                |           |             | 6314        |  |
| 54   |            | 9                | 9            |                |           |             | 6316        |  |
| 55   | 08/04/07   | 1                | 1            |                |           |             | 6346        |  |
| 56   |            | 1                | 1            |                |           |             | 6366        |  |
| 57   |            | 4                | 4            |                |           |             | 6391        |  |
| 58   |            | 8                | 8            |                |           |             | 6393        |  |
| 59   |            | 8                | 8            |                |           |             | 6414        |  |
| 60   | 08/08/07   | 8                | 8            |                |           |             | 6423        |  |
| 61   |            | 9                | 8            |                |           |             | 6427        |  |
| 62   |            | 8                | 8            |                |           |             | 6428        |  |
| 63   |            | 8                | 8            |                |           |             | 6436        |  |
| 64   |            | 8                | 8            |                |           |             | 6442        |  |
| 65   |            | 8                | 7            |                |           |             | 6456        |  |
| 66   |            | 8                | 8            |                |           |             | 6457        |  |
| 67   |            | 8                | 8            |                |           |             | 6471        |  |
| 68   |            | 10               | 8            |                |           |             | 6488        |  |
| 69   |            | 9                | 8            |                |           |             | 6501        |  |
| 70   |            | 7                | 7            |                |           |             | 6513        |  |
| 71   |            | 7                | 5            |                |           |             | 6514        |  |
| 72   |            | 8                | 9            |                |           |             | 6522        |  |
| 73   |            | 11               | 10           |                |           |             | 6528        |  |
| 74   |            | 8                | 8            |                |           |             | 6532        |  |
| 75   |            | 11               | 11           |                |           |             | 6537        |  |
| COMMENT  USE AND USER INFO: A CARE member initiates an exchange by requesting an Exchange Id number from the CARE Age Structure Exchange (CASE) Coordinator, the CARE vice chair. The CARE member conducts and |            |                  |              |                |           |             |             |  |
| completes the exchange and submits this completed invoice to the CASE Coordinator.This CARE Age  |            |                  |              |                |           |             |             |  |
| PRECISION STATISTICS   |            |                  |              |                |           |             |             |  |
|  | E % ERROR  |                  |              | PRECISION      |           |             |             |  |
| FICIENT OF VARIATION %AGREEMENT  |            |                  |              |                |           |             |             |  |

| COMMITTEE OF AGE READING EXPERTS  AGE STRUCTURE EXCHANGE INVOICE  |              |                  |            |              |            |                |            |  |
|---|--------------|------------------|------------|--------------|------------|----------------|------------|--|
| EXCHAI  | NGE ID NO.   |                  | 07-005     |              | SPECIES    |                | HAKE       |  |
| EXCHANGE YEAR   |              |                  |            |              | AREA       | BC             |            |  |
| DRIGINATING AGENCY  |              | DFO              |            | STRUCTURE    |            | OTOLITH        |            |  |
| O.A. COORDINATOR*   |              | S. MacLellan     |            | TECHNIQUE    |            | BREAK AND BURN |            |  |
|   |              | CDFO, NMFS-NWFSC |            | PURPOSE      |            | CALIBRATION    |            |  |
|   |              |                  |            | SAMPLE n=    |            |                | 100        |  |
| DATE  | INITIATED    | 9-Nov-07         |            | NO. READERS  |            |                | 2          |  |
| SPECIMEN  | CAPTURE      | AGENCY (1)       | AGENCY (2) | AGENCY (3)   | AGENCY (4) | AGENCY (5)     | ORIGINAL   |  |
| NUMBER  | MM/DD/YY     | CDFO             | IMFS-NWFS  | С            |            |                | SAMPLE ID  |  |
| 76  | 08/08/07     | 8                | 8          |              |            |                | 10060-6558 |  |
| 77  | 08/09/07     | 8                | 8          |              |            |                | 6567       |  |
| 78  |              | 8                | 8          |              |            |                | 6572       |  |
| 79  |              | 8                | 7          |              |            |                | 6582       |  |
| 80  |              | 8                | 7          |              |            |                | 6590       |  |
| 81  |              | 8                | 8          |              |            |                | 6595       |  |
| 82  |              | 10               | 10         |              |            |                | 6603       |  |
| 83  |              | 8                | 8          |              |            |                | 6604       |  |
| 84  |              | 8                | 8          |              |            |                | 6609       |  |
| 85  |              | 8                | 8          |              |            |                | 6613       |  |
| 86  |              | 8                | 8          |              |            |                | 6619       |  |
| 87  |              | 8                | 8          |              |            |                | 6625       |  |
| 88  |              | 8                | 8          |              |            |                | 6633       |  |
| 89  |              | 8                | 8          |              |            |                | 6644       |  |
| 90  |              | 8                | 8          |              |            |                | 6652       |  |
| 91  |              | 8                | 8          |              |            |                | 6660       |  |
| 92  | 08/11/07     | 8                | 8          |              |            |                | 6662       |  |
| 93  |              | 8                | 8          |              |            |                | 6684       |  |
| 94  |              | 8                | 8          |              |            |                | 6695       |  |
| 95  |              | 13               | 13         |              |            |                | 6702       |  |
| 96  |              | 8                | 8          |              |            |                | 6708       |  |
| 97  |              | 8                | 8          |              |            |                | 6723       |  |
| 98  |              | 12               | 12         |              |            |                | 6751       |  |
| 99  |              | 8                | 8          |              |            |                | 6798       |  |
| 100   | 08/15/07     | 14               | 13         |              |            |                | 7152       |  |
| USE AND USER INFO: A CARE member initiates an exchange by requesting an Exchange Id number from the CARE Age Structure Exchange (CASE) Coordinator, the CARE vice chair. The CARE member conducts and completes the exchange and submits this completed invoice to the CASE Coordinator. This CARE Age Structure Exchange Invoice documents data resulting from a formal interlab exchange. Questions of these or associated data may be made to the above listed *coordinator of the originating agency.  PRECISION STATISTICS |              |                  |            |              |            |                |            |  |
|   | RAGE % ERROR |                  | -          | OF PRECISION |            |                |            |  |
| COFFFICIENT OF VARIATION %AGREEMENT   |              |                  |            |              |            |                |            |  |