ᐱᔾᔪᑖ: ᐃᓱᒪᒋᔭᐅᔪᑦ, ᓇᓗᓇᐃᕐᓯᒍᑏᑦ ᐊᒻᒪᓗ ᓈᓴᖅᑕᐅᓯᒪᓃᑦ ᐃᓄᔾᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᐆᒪᔪᑦ ᓄᓇᓕᖕᓄᑦ ᐊᓯᖏᓐᓄᑦ ᓴᓪᓖᑦ, ᓴᓪᓖᑦ ᕿᑭᖅᑖᓗᐊᓂ ᑐᑦᑐᖏᓐᓄᑦ

1. ᓄᓘᒻ ᒥ ᐆᒪᔪᖅᑕᒥᓂᑦ ᓂᒃ ᓈᓴᐃᔾ ᔪᑎᒥᓂᑦ ᓂᒃ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᑦ (NWHS) ᐃᓛᒃ ᑰᖕᒐᖕᒐᑦ 5.6.23, ᐆᒪᔪᖅᑕᒥᓂᑦ ᓂᒃ ᓇᓴᐃᔾ ᔪᑎᒥᓃᑦ ᓴᖅᑮᒍᑕᐅᓂᐊᖅᑐᑦ ᐃᓃᔾ ᔪᑎᒋᔭᐅᔭᕆᐊᓖᓐᓄᑦ ᐆᒪᔪᓄᑦ . ᐱᖕᒪᕆᐅᕗᖅ ᐆᒪᔪᖅᑕᒥᓂᑦ ᓂᒃ ᓈᓴᐃᔾ ᔪᑎᒥᓃᑦ ᐅᓂᒃ ᑲᓕᐊᖑᓯᒪᔪᑦ ᐆᒪᔪᖅᑕᒥᓂᑦ ᓂᒃ ᓈᓴᐃᔾ ᔪᑎᒥᓃᑦ ᓈᖕᒪᒋᐊᖃᑦ ᓂᖏᑦ ᓇᓕᖅᑯᑦ ᓯᓯᒪᑦ ᓯᐊᕐ ᓗᑎᒃ ᐆᒪᔪᖅᑕᐅᖃᑦ ᑕᕐ ᓯᒪᔪᓂᒃ .

2. ᓈᓴᐃᔾ ᔪᑎᒥᓂᑦ ᓂᓄᓐᖑᐊᑎᒍᑦ NHWS GIS ᑕᑯᓐᓇᕈᑖ, ᓇᓗᓇᐃᕐ ᑐᕐ ᓯᒪᔪᑦ ᑲᑎᖅᓱᖅᑕᐅᓯᒪᓂᖏᑦ ᐊᑐᐃᓐᓇᐅᔪᑦ ᐊᑐᓂᑦ ᐆᒪᔪᖅᑕᒥᓂᑦ ᓂᒃ ᑎᑎᕋᕐ ᓯᒪᓂᖏᑦ NHWS-ᒥ, ᓲᕐ ᓗᐊᑎᖏᑦ ᓄᖕᒥᑦ, ᓄᓐᖑᐊᑎᒍᑦ ᐋᖅᑭᑦ ᓯᒪᓂᖏᑦ , ᐊᒻ ᒪᓗᑲᓇᑕᒥ ᓄᓐᖑᐊᓄᑦ ᓇᓗᓇᐃᒃ ᑯᑕᑦ ᐊᑐᖅᑕᐅᓚᐅᕐ ᓂᖏᑦᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᑦ ᓗᑎᒃ ᓇᓗᓇᐃᕐ ᓯᒍᑕᐅᓂᐊᖅᑎᑦ ᓗᒋᑦ ᓇᓕᖏᑦ ᓄᓇᓖᑦ ᐃᓚᒋᔭᐅᑦ ᓗᓂᓴᑦᓖᑦ ᐆᒪᔪᖅᑕᒥᓂᑦ ᑕᕐ ᓯᒪᒻ ᒪᖕᒑᑕ ᓴᑦᓖᑦ ᕿᑭᖅᑖᓗᐊᓂᑐᑦ ᑐᖏᓂᒃ ᐆᒪᔪᖅᑕᒥᓂᑦ ᓂᒃ ᖃᐅᔨᓴᕐ ᓂᖅᑕᖅᑎᑦ ᓗᒍ. ᑐᓴᐅᒪᔾ ᔪᑎᑦ ᓗᐊᑕᖅ ᐃᓚᖕᒐᐊᑐᖅᑕᐅᓚᐅᖅᑐᖅ ᓄᓇᐅᑉ ᑕᐃᒍᓯᖕᒐ"White Island". ᐱᖕᒐᒃ ᑲᓐᓂᑦ ᓄᓇᓖᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᓚᐅᖅᑐᑦ . ᐃᒡ ᓗᓕᒫᕐ ᔪᒃ , ᑲᖏᑦ ᓚᓂᖅ, ᐊᒻ ᒪᓗᓇᐅᔾᔭᑦ .

3. ᐃᓱᒪᒋᔭᐅᓚᐅᖅᑐᖅ ᐃᓄᔾ ᔪᑎᒋᔭᕆᐊᓖᑦ ᐆᒪᔪᖅᑕᐅᔪᑦ ᓈᓴᖅᑕᐅᓯᒪᓂᖏᑦ ᓄᐊᑕᐅᓯᒪᔪᑦ ᓄᓘᒻ ᒥ ᐆᒪᔪᖅᑕᓂᒃ ᖃᐅᔨᓴᕐ ᓂᐅᓚᐅᖅᑐᒥ (1996-2001) ᐃᒡ ᓗᓕᒫᕐ ᔪᒻ ᒧᑦ , ᑲᖏᑦ ᓚᓂᖅ, ᐊᒻ ᒪᓗᓇᐅᔾᔭᓄᑦ ᑖᒃ ᑯᓄᖕᒐᑦ ᑐᓄᑦ ᖃᐅᔨᓴᕐ ᓂᖅᑕᖅᑎᑦ ᓗᒍ ᓇᓕᖅᑯᑦ ᓯᓯᒪᑦ ᓯᐊᕆᐊᖏᑦ .

4. ᐃᓱᒪᒋᔭᐅᓚᐅᖅᑐᖅ ᕿᓇᐅᔭᓕᐅᕈᑎᒃ ᓴᓄᑦ ᐆᒪᔪᖅᑕᐅᓯᒪᔪᑦ ᓈᓴᖅᑕᐅᓯᒪᓂᖏᑦ ᐃᓚᓕᐅᑎᓯᒪᓐᖏᓂᖏᓂᒃ ᐆᒪᔪᖅᑕᐅᓯᒪᔪᓂᒃ ᓈᓴᖅᑕᐅᓂᒥᓂᑦ ᓂᑖᒃ ᑯᓄᖕᒐᐱᖕᒐᓄᑦ ᓄᓇᓖᒃ ᑲᓂᑦ ᓄᑦ ᑕᐃᒪᐃᒻ ᒪᑦ ᓈᓴᖅᑕᐅᓂᖏᑦ ᑖᒃ ᑯᓇᓃᓐᖏᑦ ᑐᑦ ᓈᓴᖅᑕᐅᓯᒪᓂᖏᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᓂᖏᓐᓂ. ᐃᓚᓕᐅᔾ ᔭᐅᓯᒪᒋᐊᓖᑦ ᑭᖑᓪᓕᕐᑦ ᓯᐅᑎᓂᓈᓴᐃᔾ ᔪᑎᒥᓂᑦ ᓂ ᒪᓕᑦ ᓗᖏᑦ ᑐᒃ ᓯᕋᐅᑕᐅᒋᐊᓐᖑᐅᖅᑐᑦ .

5. ᓯᓕᒃ ᑲᓐᓂᖅ, ᓇᓂᒍᓐᓇᓚᐅᓐᖏᕗᑦ ᕿᓇᐅᔭᓕᐅᕈᑎᒃ ᓴᓄᑦ ᐆᒪᔪᖅᑕᐅᖃᑦ ᑕᕐ ᓯᒪᔪᓄᑦ ᓈᓴᖅᑕᐅᓯᒪᓂᖏᑦ ᓄᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᕕᖕᒐᑖᒃ ᑯᓄᖕᒐᐱᖕᒐᓄᑦ ᓄᓇᓖᒃ ᑲᓂᑦ ᓄᑦ ᑕᐃᒪᐃᒻ ᒪᑦ ᑖᒃ ᑯᓇᓂᓈᓴᖅᑕᐅᓯᒪᑐᐃᓐᓇᓇᐊᒃ ᓴᖏᑦ ᓂᒃ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᓂ ᐆᒪᔪᖅᑕᒥᓃᑦ ᓄᓘᒻ ᒥ ᐆᒪᔪᖅᑕᒥᓂᑦ ᓂᒃ ᖃᐅᔨᓴᕐ ᓂᐅᓚᐅᖅᑐᒥ .

6. ᓇᓂᒍᓐᓇᓚᐅᓐᖏᑦ ᒥᔭᕗᑦ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᐆᒪᔪᖅᑕᒥᓂᑦ ᓄᑦ ᑖᒃ ᑯᓄᖕᒐᐱᖕᒐᓄᑦ ᓄᓇᖕᓄᑦ ᑕᑦ ᓕᒪᓄᑦ ᐊᕐ ᕋᒍᓄᑦ ᓯᕗᓂᐊᒍᑦ ᒪᓕᒐᑦ ᓴᓕᐅᖅᑕᐅᓚᐅᖅᑎᑦ ᓗᒋᑦ ᑲᑎᑦ ᓗᒋᑦ ᐆᒪᔪᖅᑕᐅᒍᓐᓇᖅᑐᓂᒃ . ᑕᐃᒪᐃᒻ ᒪᑦ , ᓈᓴᖅᑕᐅᓂᖏᒐ5.6.23(b)-ᑯᑦ ᐱᐊᓂᓚᐅᓐᖏᑦ ᑐᖅ. ᐱᐊᓂᒍᓐᓇᕋᔭᖅᑐᒃ ᓴᐅᔪᖅ ᓈᓴᖅᑕᐅᓂᖏᒐᓄᑦ , ᓄᓘᑦ ᒐᕙᒪᖔᑦ ᐅᕝᕙᓘᓐᓂᑦ ᐊᓯᖏᓐᓂᒃ ᖃᐅᔨᒋᐊᕐ ᕕᒃ ᓴᓂᒃ ᐱᑎᑕᐅᒍᓐᓇᑦ ᑕ ᑖᒃ ᑯᓄᓐᖑᕝᕕᓂᒃ ᖃᐅᔨᓴᕈᑎᒥᓂᑦ ᓂᒃ .

7. ᐊᑐᓂᑦ ᐆᒪᔪᖅᑕᒥᓂᕐ ᓄᓐ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᓴᓪᓖᑦ ᕿᑭᖅᑖᓗᐊᓂ ᐋᖅᑭᒋᐊᕐ ᓯᒪᓚᐅᖅᑐᑦ ᐊᑐᖅᑕᐅᓪᓗᓂᐊᕕᑦ ᑐᕐ ᓯᒪᓂᖕᒐ4 ᓄᓇᕗᒻᒥ ᐆᒪᔪᖅᑕᒥᓂᕐ ᓂᒃ ᖃᐅᔨᓴᕈᑎᒥᓂᕐ ᓂᒥᑦ ᓴᐅᓴᑦ ᑕᐅᔪᓂᒃ ᐆᒪᔪᖅᑕᒥᓂᕐ ᓄᓐ ᑐᓂᓯᓯᒪᒍᑎᒃ ᓴᒥᒃ . ᒥᑦ ᓴᐅᓴᑦ ᑕᐅᓯᒪᔪᑦ ᑕᖅᑭᑕᒫᑦ ᐆᒪᔪᖅᑕᒥᓂᕐ ᓂᐊᕕᑦ ᑐᕐ ᓯᒪᓂᖅᑎᒍᑦ ᓇᓴᐃᔾ ᔪᑕᐅᓯᒪᔪᖅ

$$\mathbf{Y}\boldsymbol{mcs} = \frac{\mathbf{N}\boldsymbol{mcs} * (\mathbf{Sum\ of\ y}\boldsymbol{mcsi}\ )}{\mathbf{n}\boldsymbol{mcs}}$$

ᓇᓂ:

Y_{mcs} = ᒥᑦ ᓴᐅᓴᑦ ᑕᐅᓯᒪᔪᖅ ᐆᒪᔪᖅᑕᒥᓂᕐ ᓄᓐ ᑕᑦ ᑭᖑᒥ m, ᓄᓇᓕᒃ c, and ᐊᕕᑦ ᑐᕐ ᓯᒪᓂᖕᒐ s

N_{mcs} = ᐊᖑᓇᓱᑦ ᑏᑦ ᐅᓄᕐ ᓂᖕᒋ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᑕᖅᑭᖑᒥ m, ᓄᓇᓕᒃ c, ᐊᕕᑦ ᑐᕐ ᓯᒪᓂᖕᒐᕐ

n_{mcs} = ᐊᖑᓇᓱᑦ ᑏᑦ ᐊᐱᖅᓯᒐᒥᓃᑦ ᐅᓄᕐ ᓂᖕᒋ ᑕᖅᑭᖑᒐm, ᓄᓇᓕᒃ c, and ᐊᕕᑦ ᑐᕐ ᓯᒪᓂᖕᒐᕐ

y_{mcsi} = ᐆᒪᔪᖅᑕᒥᓂᕐ ᓂᒃ ᐅᓂᒃ ᑲᒥᓃᑦ ᐊᖑᓇᓱᑦ ᑐᒧᑦ i ᑕᖅᑭᖑᒐm, ᓄᓇᓕᒃ c, ᐊᕕᑦ ᑐᕐ ᓯᒪᓂᖕᒐᕐ

ᐃᓄᔾᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᐆᒪᔪᐃᑦ ᐃᒡᓗᓕᒫᕐᔪᒻᒧᑦ, ᑲᖏᕐᓱᓂᖅ ᐊᒻᒪᓗ ᓇᐅᔾᔭᑦ ᐊᑐᖅᑕᐅᓪᓗᓂ 5.6.23(a)

1. ᐃᓄᔾ ᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᐆᒪᔪᐃᑦ ᐃᒡᓗᓕᒫᕐᔪᒻᒧᑦ (ᐃᓛᒃ ᑯᑦ 5.6.23(a))

ᐃᓄᖅ ᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᐆᒪᔪᐃᑦ ᓈᓴᖅᑕᐅᓚᐅᖅᑐᑦ 4 ᐊᒻᒪᓗ ᐊᖏᕐ ᐹᒡᒐᓐᓇᖅᑕᖕᒥᒃ ᑲᑎᓐᓂᖕᒐᐆᒪᔪᖅᑕᐅᒍᓐᓇᖅᑐᓂᒃ ᐊᕐᕌᒍᒥ ᓇᓕᑐᐃᓐᓇᖕᒥᒃ ᖃᐅᔨᓴᕐᓂᖅᑕᖅᑎᓪᓗᒍ (5) ᐊᒻᒪᓗ ᐊᕐᕌᒍᑕᒫᑦ ᑎᑭᐅᑎᕐᒪᖔᑦ ᑕᕐᓂᖕᒐᐆᒪᔪᖅᑕᐅᔪᓄᑦ ᑕᓪᓕᒪᓂᐊᕐᕌᒍᓂᖃᐅᔨᓴᕐᓂᕐᒥᒃ (2) ᒪᕐᕈᐃᓱᖅᑐᒥᒃ ᐃᓚᓗᒍ.

$$\text{BNL} = 4 = \frac{5+2}{2}$$

2. ᐃᓄᔾ ᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᑲᖏᕐ ᓱᓂᕐ ᒧᑦ

ᐃᓄᖅ ᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᐆᒪᔪᐃᑦ ᓈᓴᖅᑕᐅᓚᐅᖅᑐᑦ 8 ᐊᒻᒪᓗ ᐊᖏᕐ ᐹᒡᒐᓐᓇᖅᑕᖕᒥᒃ ᑲᑎᓐᓂᖕᒐᐆᒪᔪᖅᑕᐅᒍᓐᓇᖅᑐᓂᒃ ᐊᕐᕌᒍᒥ ᓇᓕᑐᐃᓐᓇᖕᒥᒃ ᖃᐅᔨᓴᕐᓂᖅᑕᖅᑎᓪᓗᒍ (13) ᐊᒻᒪᓗ ᐊᕐᕌᒍᑕᒫᑦ ᑎᑭᐅᑎᕐᒪᖔᑦ ᑕᕐᓂᖕᒐᐆᒪᔪᖅᑕᐅᔪᓄᑦ ᑕᓪᓕᒪᓂᐊᕐᕌᒍᓂᖃᐅᔨᓴᕐᓂᕐᒥᒃ (3) ᒪᕐᕈᐃᓱᖅᑐᒥᒃ ᐃᓚᓗᒍ.

$$\text{BNL} = 8 = \frac{13+3}{2}$$

3. ᐃᓄᔾ ᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᓇᐅᔾᔭᓄᑦ

ᐃᓄᖅ ᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᐆᒪᔪᐃᑦ ᓈᓴᖅᑕᐅᓚᐅᖅᑐᑦ 26 ᐊᒻᒪᓗ ᐊᖏᕐ ᐹᒡᒐᓐᓇᖅᑕᖕᒥᒃ ᑲᑎᓐᓂᖕᒐᐆᒪᔪᖅᑕᐅᒍᓐᓇᖅᑐᓂᒃ ᐊᕐᕌᒍᒥ ᓇᓕᑐᐃᓐᓇᖕᒥᒃ ᖃᐅᔨᓴᕐᓂᖅᑕᖅᑎᓪᓗᒍ (30) ᐊᒻᒪᓗ ᐊᕐᕌᒍᑕᒫᑦ ᑎᑭᐅᑎᕐᒪᖔᑦ ᑕᕐᓂᖕᒐᐆᒪᔪᖅᑕᐅᔪᓄᑦ ᑕᓪᓕᒪᓂᐊᕐᕌᒍᓂᖃᐅᔨᓴᕐᓂᕐᒥᒃ (21) ᒪᕐᕈᐃᓱᖅᑐᒥᒃ ᐃᓚᓗᒍ.

$$\text{BNL} = 26 = \frac{30+21}{2}$$

ᐃᓄᔾᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᐆᒪᔪᐃᑦ ᓈᓴᖅᑕᐅᓂᖏᑦ ᓴᓪᓖᑦ ᕿᑭᖅᑖᓗᐊᑕ ᑐᑦᑐᖏᓐᓄᑦ ᒪᓕᓪᓗᒋᑦ 5.6.23 ᓄᓇᕗᒻᒥ ᓄᓇᑖᕐᓂᕐᒧᑦ ᐊᖏᕈᑎᓂ ᓄᓇᓕᖕᓄᑦ ᐃᒡᓗᓕᒫᕐᔪᒃ, ᑲᖏᕐᓱᓂᖅ ᐊᒻᒪᓗ ᓇᐅᔾᔭᑦ

ᐃᒡᓗᓕᒫᕐᔪᒃ

1) 5.6.23 (a)

- ***BNL = 4*** ᓄᓇᑖᕐ ᓂᕐ ᒧᑦ ᐊᖏᕿᑎᓃᑦ ᑐᓂ 5.6.21 (a)
    - “ᐅᓄᕐ ᓂᕐ ᐹᒥᓃᑦ ᐆᒪᔪᖅᑕᐅᔪᑦ ᐊᕐ ᕋᒍᒥ ᐊᑕᐅᓯᕐ ᒥ ᖃᐅᔨᓴᕐ ᓂᖅᑕᕐᑯᖅᑎᓪ ᓗᒍ” = 5
    - “ᐊᕐ ᕋᒍᒥ ᐅᓄᕐ ᓂᖏ ᐆᒪᔪᖅᑕᐅᕐᑯ ᑕᓚᐅᖅᑐᑦ ᑕᓪ ᓕᒪᓂ ᐊᕐ ᕋᒍᓂᕐᖃᐅᔨᓴᕐ ᓂᖅᑕᕐᑯᖅᑎᓪ ᓗᒍ” = 2
    - $BNL = \frac{5+2}{2}$
- ᓄᓇᑖᕐ ᓂᕐ ᒧᑦ ᐊᖏᕿᑎᑎᒍᑦ 5.6.21(b), ᐃᒡ ᓗᓕᒫᕐ ᔪᒻ ᒥ ᐊᖑᓚᓯᑦ ᑐᓕᕆᔨᖏ ᓂᕈᐊᓚᐅᓐᖏ ᑐᑦ ᐊᕐ ᕋᒍᒥ ᓇᓕᐊᓐᓂᒃ ᓄᓇᕗᒻ ᒥ ᐆᒪᔪᓕᕆᔨᕐ ᔪᐊᒃ ᑯᑦ ᑲᑎᒪᔨᖏ ᐆᒪᔪᖅᑕᒥᓂᕐ ᓂᒃ ᖃᐅᔨᓴᕈᑎᒥᓂᕐ ᓂᒃ ᐊᑐᕆᐊᖃᕐ ᓂᐊᕐ ᒪᖕᒑᒥ ᓈᓴᖅᑕᐅᓯᒪᔪᓂᐃᓃᑦ ᔪᑎᒋᔭᐅᔭᕆᐊᓖᓐ ᓂᐆᒪᔪᓂ. (ᖃᐅᔨᒪᔭᑦ ᑎᒍᑦ).

2) 5.6.23 (b)

- ***ᐃᓄᔾᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᐆᒪᔪᐃᑦ = ᐱᑕᖃᓐᖏᑦᑐᖅ*** ᐊᖏᕈᑎᓂ 5.6.23 (b)
    - “ᐊᖏᓂᕐᓴᓄᑦ ᐅᓄᕐᓂᖏᓐᓄᑦ ᐆᒪᔪᖅᑕᓄᑦ ᐊᑕᐅᓯᕐᒧᑦ ᐊᕐᕌᒍᒧᑦ ᑕᓪᓕᒪᓂ ᐊᕐᕌᒍᓂ ᓯᕗᓂᐊᒍᑦ ᒪᓕᒐᕐᓴᓕᐅᖅᑕᐅᓚᐅᖅᑎᓐᓇᒋᑦ ᑲᑎᑦᓗᒋᑦ ᐆᒪᔪᖅᑕᐅᔪᓐᓇᖅᑐᓂᒃ” (2007 -2011) = ᐱᑕᖃᓐᖏᑦᑐᖅ
    - “ᓇᓕᖅᑯᑦᓯᓯᒪᒋᐊᖅᑐᖅ ᐊᕐᕌᒍᒥ ᐅᓄᕐᓂᖏᓐᓂᒃ ᐱᔭᐅᓯᒪᔪᓂᒃ ᑕᓪᓕᒪᓂ ᐊᕐᕌᒍᓂ ᖃᐅᔨᓴᕐᓂᕐᒥ” = 2
    -
    - $ᐃᓄᔾᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦᐆᒪᔪᐃᑦ = \frac{x+2}{2}$

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ᑲᖏᕐᓱᓂᖅ

3) 5.6.23 (a)

- ***ᐃᓄᔾᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᐆᒪᔪᐃᑦ = 8*** ᐊᖏᕈᑎᓂ 5.6.21 (a)
    - “ᐅᓄᕐ ᓂᕐ ᐹᒥᓃᑦ ᐆᒪᔪᖅᑕᐅᔪᑦ ᐊᕐ ᑖᒍᒥ ᐊᑕᐅᓯᕐᒥ ᕐᐊᐅᔾᔭᕐ ᓂᖅᑕᕐᑲᖅᑎᑦ ᓗᒍ” = 13
    - “ᐊᕐ ᑖᒍᒥ ᐅᓄᕐ ᓂᖕᒋ ᐆᒪᔪᖅᑕᐅᕐᑲᓂ ᑕᓚᐅᖅᑐᑦ ᑕᓕᓪ ᒪᓂ ᐊᕐ ᑖᒍᓂᕐᐊᐅᔾᔭᕐ ᓂᖅᑕᕐᑲᖅᑎᑦ ᓗᒍ” = 3
    - $\triangle_{\text{ᓄᔾᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦᐆᒪᔪᐃᑦ}} = \frac{13+3}{2}$
- ᓄᓇᑖᕐ ᓂᕐ ᒧᑦ ᐊᖏᑭᑎᑎᒍᑦ 5.6.21(b), ᑲᖏᕐ ᓱᓂᖅ ᐊᖑᓇᓱᑦ ᑐᓕᕆᔨᖏᕐ ᓂᕈᐊᓚᐅᓐᖏᕐ ᑐᑦ ᐊᕐ ᑖᒍᒥ ᓇᓕᐊᓐᓂᒃ ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᑲᑎᒪᔨᖏᕐ ᐆᒪᔪᖅᑕᒥᓂᕐᓂᒃ ᕐᐊᐅᔾᔭᕐᕈᑎᒥᓂᕐᓂᒃ ᐊᑐᕆᐊᕐᑲᕐᓂᐊᕐᒪᖕᒋᑕ ᓈᓴᖅᑕᐅᓯᒪᔪᓂᐃᓃᑦ ᔪᑎᒋᔭᐅᔭᕆᐊᓕᓐᓂᐆᒪᔪᓂ. (ᕐᐊᐅᔾᒪᔭᑦ ᑎᒍᑦ).

4) 5.6.23 (b)

- ***ᐃᓄᔾᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᐆᒪᔪᐃᑦ = ᐱᑕᖅᑲᓐᖏᑦᑐᖅ*** ᐊᖏᕈᑎᓂ 5.6.23 (b)
    - “ᐊᖏᓂᕐᓴᓄᑦ ᐅᓄᕐᓂᖏᓐᓄᑦ ᐆᒪᔪᖅᑕᓄᑦ ᐊᑕᐅᓯᕐᒧᑦ ᐊᕐᑖᒍᒧᑦ ᑕᓪᓕᒪᓂ ᐊᕐᑖᒍᓂ ᓯᕗᓂᐊᒍᑦ ᒪᓕᒐᕐᓴᓕᐅᖅᑕᐅᓚᐅᖅᑎᓐᓇᒋᑦ ᑲᑎᓪᓗᒋᑦ ᐆᒪᔪᖅᑕᐅᔪᓐᓇᖅᑐᓂᒃ” (2007 -2011) = ᐱᑕᖅᑲᓐᖏᑦᑐᖅ
    - “ᓇᓕᖅᑯᕐᓯᓯᒪᒋᐊᖅᑐᖅ ᐊᕐᑖᒍᒥ ᐅᓄᕐᓂᖏᓐᓂᒃ ᐱᔭᐅᓯᒪᔪᓂᒃ ᑕᓪᓕᒪᓂ ᐊᕐᑖᒍᓂ ᕐᑲᐅᔾᔭᕐᓂᕐᒥ” = 3
    - $\triangle_{\text{ᓄᔾᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦᐆᒪᔪᐃᑦ}} = \frac{x+3}{2}$

ᓇᐅᔾᔭᑦ

5) 5.6.23 (a)

- *ᐃᓄᔾᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᐆᒪᔪᐃᑦ = 26* ᐊᖏᕈᑎᓂ 5.6.21 (a)
    - “ᐅᓄᕐ ᓂᕐ ᐹᒥᓃᑦ ᐆᒪᔪᖅᑕᐅᔪᑦ ᐊᕐ ᕿᒍᒥ ᐊᑕᐅᓯᕐ ᒥ ᖃᐅᔨᓴᕐ ᓂᖅᑕᕐᑲᖅᑎᓪ ᓗᒍ” = 30
    - “ᐊᕐ ᕿᒍᒥ ᐅᓄᕐ ᓂᖕᒋ ᐆᒪᔪᖅᑕᐅᖃ ᑕᓚᐅᖅᑐᑦ ᑕᓕᓪ ᒪᓂ ᐊᕐ ᕿᒍᓂᖃᔨᓴᕐ ᓂᖅᑕᕐᑲᖅᑎᓪ ᓗᒍ” = 21
    - $\triangle_{\text{ᓄᔾᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦᐆᒪᔪᐃᑦ}} = \frac{30+21}{2}$
- ᓄᓇᑖᕐ ᓂᕐ ᒧᑦ ᐊᖏᕿᑎᑎᒍᑦ 5.6.21(b), ᓇᐅᔾᔭᑦ ᐊᖑᒃᓱᑦ ᑐᓕᕆᔨᖏᒋ ᓂᕈᐊᓚᐅᓐᖏᒋ ᑐᑦ ᐊᕐ ᕿᒍᒥ ᓇᓕᐊᓐᓂᒃ ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᑲᑎᒪᔨᖏᒋ ᐆᒪᔪᖅᑕᒥᓂᕐ ᓂᒃ ᖃᐅᔨᓴᕈᑎᒥᓂᕐ ᓂᒃ ᐊᑐᕆᐊᖃᕐ ᓂᐊᕐ ᒪᖕᒋᑕ ᓈᓴᖅᑕᐅᓯᒪᔪᓂᐃᓃᑦ ᔪᑎᒋᔭᐅᔭᕆᐊᓕᓐ ᓂᐆᒪᔪᓂ. (ᖃᐅᔨᒪᔭᑦ ᑎᒍᑦ).

6) 5.6.23 (b)

- *ᐃᓄᔾᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦ ᐆᒪᔪᐃᑦ = ᐱᑕᖃᓐᖏᑦᑐᖅ* ᐊᖏᕈᑎᓂ 5.6.23 (b)
    - “ᐊᖏᓂᕐᓴᓄᑦ ᐅᓄᕐᓂᖏᓐᓄᑦ ᐆᒪᔪᖅᑕᓄᑦ ᐊᑕᐅᓯᕐᒧᑦ ᐊᕐᕿᒍᒧᑦ ᑕᑦᓕᒪᓂ ᐊᕐᕿᒍᓂ ᓯᕗᓂᐊᒍᑦ ᒪᓕᒐᕐᓴᓕᐅᖅᑕᐅᓚᐅᖅᑎᓐᓇᒋᑦ ᑲᑎᑦᓗᒋᑦ ᐆᒪᔪᖅᑕᐅᔪᓐᓇᖅᑐᓂᒃ” (2007 -2011) = ᐱᑕᖃᓐᖏᑦᑐᖅ
    - “ᓇᓕᖅᑯᑦᓯᓯᒪᒋᐊᖅᑐᖅ ᐊᕐᕿᒍᒥ ᐅᓄᕐᓂᖏᓐᓂᒃ ᐱᔭᐅᓯᒪᔪᓂᒃ ᑕᑦᓕᒪᓂ ᐊᕐᕿᒍᓂ ᖃᐅᔨᓴᕐᓂᕐᒥ” = 21
    - $\triangle_{\text{ᓄᔾᔪᑎᒋᔭᐅᔭᕆᐊᓖᑦᐆᒪᔪᐃᑦ}} = \frac{x+21}{2}$

ᓇᓗᓇᐃᕐᓯᒍᑦ 1-ᑲᑎᓯᒪᔪᑦ ᓂᕿᑦᓴᓂᒃ ᐊᒻᒪᓗ ᑮᓇᐅᔭᓕᐅᕈᑎᒃᓴᓂᒃ ᐊᖑᓇᓱᓐᓂᐅᓯᒪᔪᓂᒃ ᑭᒡᓕᓯᓂᐊᕈᑕᐅᓯᒪᔪᑦ ᓴᑦᓖᑦ ᕿᑭᖅᑖᓗᐊᑕ ᑐᑦᑐᖏᓐᓂᒃ ᐃᒡᓗᓕᒫᕐᔪᒃ ᓄᓇᖓᓄᑦ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᑕᑦᓕᒪᓄᑦ ᐊᕐᕌᒍᓄᑦ ᖃᐅᔨᓴᕈᑎᒥᓂᕐᓂ (1997-2001) ᓄᓇᕗᒻᒥ ᐆᒪᔪᖅᑕᐅᔪᓂᒃ ᖃᐅᔨᓴᕈᑎᒥᓃᑦ. ᑮᓇᐅᔭᓕᐅᕋᓱᐊᕈᑎᓄᑦ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᑕᕝᕙᓂᑦᓴᐃᓐᓇᖅ ᖃᐅᔨᓴᕐᕕᐅᓯᒪᔪᒥ ᐊᑐᐃᓐᓇᐅᓚᐅᓐᖏᑦᑐᑦ.

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ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᐆᒪᔪᖅᑕᐅᔪᓂᒃ ᓈᓴᐃᓂᖓ ᐊᕐᕌᒍ	ᓄᓇᓕᒃ	ᐆᒪᔪᖅ	ᓂᕿᑦᓴᒧᑦ ᐆᒪᔪᖅᑕᐅᔪᖅ (ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ)	ᑮᓇᐅᔭᓕᐅᕐᓂᕐᒧᑦ ᐆᒪᔪᖅᑕᖅ (ᐊᕙᑎᓕᕆᔨᒃᑯᑦ)	ᑲᑎᑦᓗᒋᑦ ᐆᒪᔪᖅᑕᑦ
ᐊᕐᕌᒍ 1 -1996	ᐃᒡᓗᓕᒫᕐᔪᒃ	ᑐᑦᑐ	0	n/a	0
ᐊᕐᕌᒍ 2 -1997	ᐃᒡᓗᓕᒫᕐᔪᒃ	ᑐᑦᑐ	0	n/a	0
ᐊᕐᕌᒍ 3 -1998	ᐃᒡᓗᓕᒫᕐᔪᒃ	ᑐᑦᑐ	5[1]	n/a	5
ᐊᕐᕌᒍ 4 -1999	ᐃᒡᓗᓕᒫᕐᔪᒃ	ᑐᑦᑐ	2	n/a	2
ᐊᕐᕌᒍ 5 -2000	ᐃᒡᓗᓕᒫᕐᔪᒃ	ᑐᑦᑐ	2	n/a	2
		5 ᐊᕐᕌᒍᑦ ᓇᓪᓕᖅᑯᑕᐅᑎᐊᕐᓯᒪᔪᑦ ᐊᖏᓂᕐᐸᖅ ᐊᑕᐅᓯᖅ ᐊᕐᕌᒍ	**(ᐊᕐᕌᒍ - 1998)**		**2** **5**

[1] ᓂᕆᔭᒃᓴᓂᒃ ᐆᒪᔪᖅᑲᑦᓂᖅ ᓈᓴᖅᑕᐅᓯᒪᓂᖅᑲᓚᐅᖅᑐᖅ ᑐᓐᖓᕕᒋᔭᐅᓪᓗᑎᒃ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᐆᒪᔪᖅᑕᒥᓃᑦ ᓄᓇᕗᒻᒥ ᐆᒪᔪᖅᑕᒥᓂᒃ ᖃᐅᔨᓴᕐᓂᕐᒥ. ᐃᓘᓐᓇᖏᓐᓄᑦ, ᑖᒃᑯᐊ ᓇᓗᓇᐃᖅᑕᐅᓚᐅᖅᑐᑦ ᓄᓇᖓᑕ ᑕᐃᒍᓯᖓᓄᑦ “White Island”. ᑖᒃᑯᐊ ᐊᑭᖃᕋᔭᕐᓂᖏᑦ ᐋᖅᑭᒋᐊᖅᑕᐅᓕᓚᐅᕐᒥᔪᑦ ᒪᓕᑦᑐᒍᑦ ᓈᓴᐃᔭᔪᑏᑦ ᑕᕝᕙᓃᑦᑐᑦ ᐊᕕᑦᑐᕐᓯᒪᓂᖓᓂ 4 ᐆᒪᔪᖅᑕᒥᓂᕐᓂᒃ ᖃᐅᔨᓴᕈᑎᓂ. ᐱᓗᐊᖅᑐᒥ, ᒥᖅᐅᓴᑦᑕᐅᓯᒪᒧᑦ ᑕᖅᑭᑕᒫᑦ ᐆᒪᔪᖅᑕᐅᓯᒪᔪᑦ ᐊᕕᒃᑐᕐᓯᒪᓂᖏᑎᒍᑦ ᓈᓴᖅᑕᐅᓯᒪᓪᓗᑎᒃ ᒪᕐᕈᐃᓱᖅᑐᒥᒃ ᐃᓚᔭᐅᓪᓗᑎᒃ ᑎᑎᕋᖅᑕᐅᓯᒪᒧᑦ ᐆᒪᔪᖅᑕᒥᓃᑦ ᐅᓂᒃᑳᒥᓂᕐᓂ ᓱᕋᑦᑕᐅᓪᓗᓂ ᑭᐅᒍᑕᐅᓚᐅᖅᑐᒧᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᖅ. ᓇᓗᓇᐃᖅᑕᐅᓯᒪᓂᖏᑦ ᑕᕝᕙᓃᑦᑐᑦ ᐊᕕᑦᑐᕐᓯᒪᓂᖓᓂ 4 ᓄᓇᕗᒻᒥ ᐆᒪᔪᖅᑕᒥᓂᕐᓂᒃ ᖃᐅᔨᓴᕈᑎᓂ.

ᓇᓗᓇᐃᕐᓯᒍᑦ 2-ᑲᑎᓯᒪᔪᑦ ᓂᕿᑦᓴᓂᒃ ᐊᒻᒪᓗ ᑮᓇᐅᔭᓕᐅᕈᑎᒃᓴᓂᒃ ᐊᖑᓇᓱᒃᓂᐅᓯᒪᔪᓂᒃ ᑭᒡᓕᓯᓂᐊᕈᑕᐅᓯᒪᔪᑦ ᓴᑦᓖᑦ ᕿᑭᖅᑖᓗᐊᑕ ᑐᑦᑐᖏᓐᓂᒃ ᑲᖏᑦᓯᓂᖅ ᓄᓇᖓᓄᑦ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᑕᑦᓕᒪᓄᑦ ᐊᕐᕌᒍᓄᑦ ᖃᐅᔨᓴᕈᑎᒥᓂᕐᓂ 2007-2011 ᓄᓇᕗᒻᒥ ᐆᒪᔪᖅᑕᐅᔪᓂᒃ ᖃᐅᔨᓴᕈᑎᒥᓂᕐᓂ. ᑮᓇᐅᔭᓕᐅᕋᓱᐊᕈᑎᓄᑦ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᑕᕝᕙᓂᑦᓴᐃᓐᓇᖅ ᖃᐅᔨᓴᕐᕕᐅᓯᒪᔪᒥ ᐊᑐᐃᓐᓇᐅᓚᐅᓐᖏᑦᑐᑦ.

ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᐆᒪᔪᖅᑕᐅᔪᓂᒃ ᓈᓴᐃᓂᖓ ᐊᕐᕌᒍ	ᓄᓇᓕᒃ	ᐆᒪᔪᖅ	ᓂᕿᑦᓴᒧᑦ ᐆᒪᔪᖅᑕᐅᔪᖅ (ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ)	ᑮᓇᐅᔭᓕᐅᕐᓂᕐᒧᑦ ᐆᒪᔪᖅᑕᖅ (ᐊᕙᑎᓕᕆᔨᒃᑯᑦ)	ᑲᑎᑦᓗᒋᑦ ᐆᒪᔪᖅᑕᑦ
ᐊᕐᕌᒍ 1 - 1996	ᑲᖏᑦᓯᓂᖅ	ᑐᑦᑐ	0	n/a	0
ᐊᕐᕌᒍ **2 - 1997**	ᑲᖏᑦᓯᓂᖅ	ᑐᑦᑐ	0	n/a	0
ᐊᕐᕌᒍ **3 - 1998**	ᑲᖏᑦᓯᓂᖅ	ᑐᑦᑐ	0	n/a	0
ᐊᕐᕌᒍ **4 - 1999**	ᑲᖏᑦᓯᓂᖅ	ᑐᑦᑐ	0	n/a	0
ᐊᕐᕌᒍ 5 -2000	ᑲᖏᑦᓯᓂᖅ	ᑐᑦᑐ	13	n/a	13
		5 ᐊᕐᕌᒍᑦ ᓇᓪᓕᖅᑯᑕᐅᒋᐊᕐᓯᒪᔪᑦ ᐊᖏᓂᕐᐸᖅ ᐊᑕᐅᓯᖅ ᐊᕐᕌᒍ	**(ᐊᕐᕌᒍ - 2000)**		**3** **13**

ᓇᓗᓇᐃᕐᓯᒍᑦ 3-ᑲᑎᓯᒪᔪᑦ ᓂᕿᑦᓴᓂᒃ ᐊᒻᒪᓗ ᑮᓇᐅᔭᓕᐅᕈᑎᒃᓴᓂᒃ ᐊᖑᓇᓱᒋᓂᐅᓯᒪᔪᓂᒃ ᑭᒡᓕᓯᓂᐊᕈᑕᐅᓯᒪᔪᑦ ᓴᑦᓖᑦ ᕿᑭᖅᑖᓗᐊᑕ ᑐᑦᑐᖏᒋᓂᒃ ᓇᐅᔮᑦ ᓄᓇᖓᓄᑦ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᑕᑦᓕᒪᓄᑦ ᐊᕐᕌᒍᓄᑦ ᖃᐅᔨᓴᕈᑎᒥᓂᕐᓂ 2007-2011 ᓄᓇᕗᒻᒥ ᐆᒪᔪᖅᑕᐅᔪᓂᒃ ᖃᐅᔨᓴᕈᑎᒥᓂᕐᓂ. ᑮᓇᐅᔭᓕᐅᕋᓱᐊᕈᑎᓄᑦ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᑕᕝᕙᓂᑦᓴᐃᓐᓇᖅ ᖃᐅᔨᓴᕐᕕᐅᓯᒪᔪᒥ ᐊᑐᐃᓐᓇᐅᓚᐅᓐᖏᑦᑐᑦ.

ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᐆᒪᔪᖅᑕᐅᔪᓂᒃ ᓈᓴᐃᓂᖓ ᐊᕐᕌᒍ	ᓄᓇᓕᒃ	ᐆᒪᔪᖅ	ᓂᕿᑦᓴᒧᑦ ᐆᒪᔪᖅᑕᐅᔪᖅ (ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ)	ᑮᓇᐅᔭᓕᐅᕐᓂᕐᒧᑦ ᐆᒪᔪᖅᑕᖅ (ᐊᕙᑎᓕᕆᔨᒃᑯᑦ)	ᑲᑎᑦᓗᒋᑦ ᐆᒪᔪᖅᑕᑦ
ᐊᕐᕌᒍ 1 - 1996	ᓇᐅᔮᑦ	ᑐᑦᑐ	21	n/a	21
ᐊᕐᕌᒍ 2 - 1997	ᓇᐅᔮᑦ	ᑐᑦᑐ	17	n/a	17
ᐊᕐᕌᒍ 3 - 1998	ᓇᐅᔮᑦ	ᑐᑦᑐ	30	n/a	30
ᐊᕐᕌᒍ 4 - 1999	ᓇᐅᔮᑦ	ᑐᑦᑐ	17	n/a	17
ᐊᕐᕌᒍ 5 - 2000	ᓇᐅᔮᑦ	ᑐᑦᑐ	18	n/a	18
		5 ᐊᕐᕌᒍᑦ ᓇᓪᓕᖅᑯᑕᐅᒋᐊᕐᓯᒪᔪᑦ ᐊᖏᓂᕐᐹᖅ ᐊᑕᐅᓯᖅ ᐊᕐᕌᒍ	**(ᐊᕐᕌᒍ - 1998)**		**21** **30**